

RADIOACTIVE MINERAL OCCURRENCES OF COLORADO

AND BIBLIOGRAPHY

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and A. L. Hornbaker*



COLORADO GEOLOGICAL SURVEY / DEPARTMENT OF NATURAL RESOURCES
STATE OF COLORADO / DENVER, COLORADO / 1978

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BULLETIN 40

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DEPARTMENT OF NATURAL RESOURCES
STATE OF COLORADO
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Abstract

This two-part report provides an essentially complete listing of radioactive occurrences in Colorado, with a comprehensive bibliography and bibliographic cross-indexes. Part 1 lists approximately 3000 known radioactive occurrences with their locations and brief accounts of the geology, mineralogy, radioactivity, host rock, production data, and source of data for each. The occurrences are classified by host rock and plotted on U.S. Geological Survey 1° x 2° topographic quadrangle maps with a special 1:100,000-scale base map for the Uravan mineral belt. Part 2 contains the bibliography of approximately 2500 citations on radioactive mineral occurrences in the state, with cross-indexes by county, host rock, and the special categories of "Front Range", "Colorado Plateau", and "thorium". The term "occurrence" as used in this report is defined as any site where the concentration of uranium or thorium is at least 0.01 percent or where the range of radioactivity is greater than twice the background radioactivity. All citations and occurrence data are stored on computer diskettes for easy retrieval, correction, and updating.

The U.S. Geological Survey and the U.S. Department of Energy provided the largest volumes of both bibliographic and occurrence data. Additional sources included private mining and exploration companies working in Colorado, State agencies, and various published and unpublished reports.

The intimate association of radium, uranium, and vanadium on the Colorado Plateau sparked several periods of exploration that ultimately led to a mining "boom" in the 1950's. Since its meager start at Roc Creek in 1881, the Uravan mineral belt in southwestern Colorado has yielded more than 364 million pounds of V_2O_5 and nearly 85 million pounds of U_3O_8 .

Sedimentary uranium-vanadium ores, principally uraninite and carnotite, occur in sandstones of the Salt Wash Member of the Morrison Formation. Uraniferous vanadium is found in roscoelite deposits in the Entrada Sandstone. Uranium has also been discovered in Tertiary conglomerates in the Tallahassee Creek district in Fremont County. Uranium, recoverable by solution mining of Upper Cretaceous sandstones, is now being evaluated in Weld County. Vein-type uranium occurrences are typified in Jefferson County by the Schwartzwalder Mine, the largest uranium mine in Colorado.

Since its use in the atomic bomb, uranium has become more important as a nuclear reactor fuel and as an alloy in aerospace and metallurgical applications. Another potential reactor fuel is thorium, which is found both in fossil beach-sand placers and in veins. It too has metallurgical, chemical and industrial applications.

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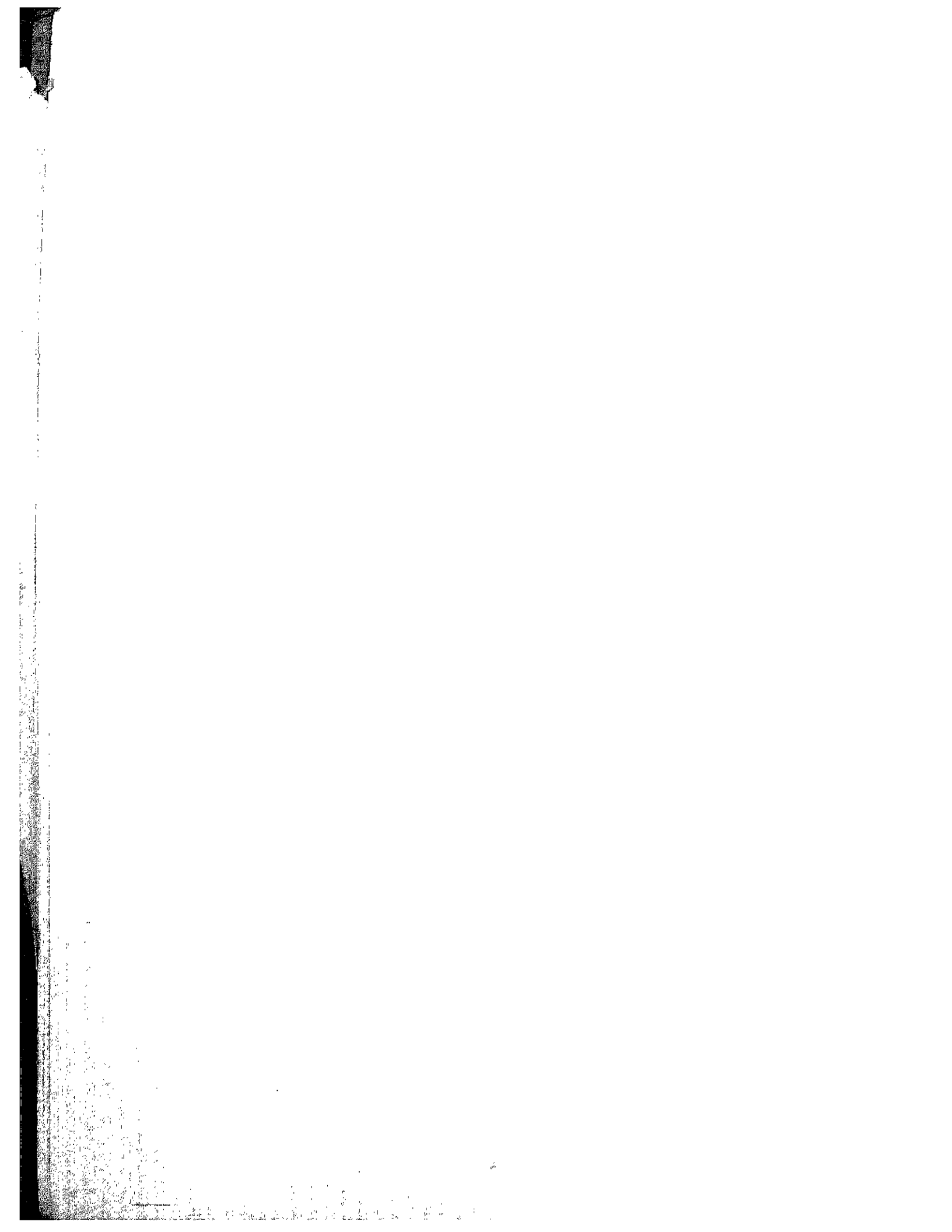
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Introduction

The primary objective of this report is to provide in one document as complete a listing as possible of all radioactive occurrences in Colorado with a cross-indexed bibliography. This publication summarizes widely scattered data, much of which had been classified or was not generally available to the public. The report, therefore, should be invaluable to government agencies for planning and impact studies, and to geologists, explorationists, industry, students, landowners, and developers, and all citizens of the state. We believe it is the most comprehensive and complete report of its kind for Colorado.

This project, funded by the Grand Junction Office of the Department of Energy (DOE) under Contract EY-76-C-13-1674, is presented in two parts. Part 1 lists all known radioactive occurrences with their locations and a brief account of the geology, mineralogy, radioactivity, host rock, production data and source of data. The occurrences are plotted on U.S. Geological Survey 1° x 2° topographic quadrangle maps (scale 1:250,000), with a separate 1:100,000-scale base map for the Uravan mineral belt. Part 2 includes the bibliography of literature on radioactive mineral occurrences in the state with cross-indexes by county, host rock, and the special categories of "Front Range", "Colorado Plateau", and "thorium".

A customized computer program was developed to handle the occurrence and bibliographic data as it was gathered. This made possible the retrieval of a wide variety of types of data by county or area, or the creation of cross-indexes of bibliographic or subject data.

The bibliography drew references from many sources, with the beginning base being the GEOREF bibliography for Colorado (Colorado Geological Survey Bulletin 37) prepared for the Colorado Geological Survey by the American Geological Institute. Additional reference lists from the U.S. Geological Survey, U.S. Atomic Energy Commission, U.S. Energy Research and Development Administration, U.S. Department of Energy, and other published and unpublished sources were incorporated into the bibliography. The bibliography was assembled with keywords so that cross-indexes by county, host rock, "Front Range", "Colorado Plateau", and "thorium" could be pulled from the computer storage and printed separately.

The authors visited most of the major deposits and at least one of each type of occurrence in the state. The term "occurrence", as used in this report is defined as being any site or area where the concentration of uranium or thorium is 0.01 percent or greater or where the range of radioactivity is greater than two times the background radioactivity. Because of the numerous occurrences and the relatively short term of the project, no attempt was made to visit all occurrences--in fact, it would have been physically impossible. Appropriate notation is made when an occurrence could not be adequately verified.

HISTORY AND BACKGROUND

The development of uranium mining in Colorado reflects the natural association, development of knowledge, and demand through the years for three metals: radium, vanadium and uranium. Uranium was first discovered in the United States in 1871 at the Wood Mine in the Central City district (Sims and others, 1963, p. 5). It became important because of its association with radium, which was in great demand as a result of the work of Marie and Pierre Curie. Production from the Central City district totalled about 36 tons of U_3O_8 by 1900 and most of that was hand-sorted high-grade ore. In the Roc Creek area of Montrose County uranium ore (containing radium) was discovered in 1881. From this district, 10 tons of carnotite ore was mined and shipped to Marie and Pierre Curie in 1898. This small Roc Creek district was the beginning of the Uravan mineral belt, the largest uranium-producing area in Colorado today.

Colorado ranks fourth among the states in production of uranium and first in production of vanadium recovered from sandstone uranium ores. The table below summarizes salient statistics on uranium and vanadium produced and recovered from 1948 to January 1, 1978. The majority of that production was from sandstones, but production figures from other types of deposits are also included.

The first two producing districts mentioned above, the Central City (Front Range) area and the Uravan mineral belt, represent the two major, geologically distinct, uranium-producing areas in Colorado (Fig. 1).

TABLE 1
Uranium and vanadium produced in Colorado
1948 to January 1, 1978

	Tons of ore	Pounds recovered	Grade %	% US total
Uranium (U_3O_8)	17,260,000	84,832,300	0.25	13.45
Vanadium (V_2O_5)	15,834,900*	364,275,400	1.15	74.18

*This tonnage of ore is included in the tons of uranium ore.

Source: Wm. Chenoweth, pers. comm., 1978

System or series	Group	Formation	Member or tongue	Thickness (feet)	Description	Direction of sediment transport	
Upper and Lower(?) Cretaceous		Dakota		0-200	Sandstone and shale, gray and brown; cliff-forming, widespread		
Lower Cretaceous		Burro Canyon		0-250	Sandstone, light-colored, conglomeratic, and green and maroon mudstone; mesa capping; absent in western part of area.		
Upper Jurassic		Morrison	Brushy Basin	300-500	Shale (or mudstone), varicolored, some sandstone lenses; forms slopes; widespread.	Northeast	
			Wetwater Canyon	0-350	Sandstone, light-colored; forms cliffs and benches; absent in northern part of area.	Northeast	
			Recapture	0-680	Shales, red, and sandstones; forms cliffs and benches; absent in northern part of area.	Northeast	
			Salt Wash	0-400	Sandstone, light-colored, and red mudstone; forms cliffs and benches; widespread.	Northeast	
	San Rafael	Bluff		0-55	Sandstone, red, massive; forms cliff; absent in northern part of area.		
		Sumnerville		0-400	Shale, red and gray, and thin sandstone; forms slopes; thickens westward; widespread.		
		Curtis		0-100	Sandstone, light-colored; absent in southern Utah.		
		Entrada		50-1,000	Sandstone, light-colored; forms cliff; thickens westward to red earthy sandstone.		
	Upper and Middle Jurassic		Carmel		0-600	Sandstone, red, earthy; thickens westward to gray and red shale, limestone, and gypsum; widespread.	
	Jurassic and Jurassic(?)	Glen Canyon	Navajo		0-2,000	Sandstone, red; irregularly bedded; forms bench; absent in eastern part of area.	Southeast
Jurassic(?)	Kayenta			0-300	Sandstone, light-colored, massive; cliff-forming; absent in western Colorado.		
	Wingate			0-100	Sandstone, red, massive; cliff-forming; absent in eastern part of area.	Southeast	
Upper Triassic		Chinle	"A" unit of Gregory	0-350	Siltstone, red, and sandstone; forms ledges and slopes; widespread.		
			Owl Rock	0-450	Limestone, gray, and red siltstone; forms ledges and slopes; widespread.		
			Petrified Forest	0-700	Claystone, variegated; forms slopes; widespread; absent in northern Utah.		
			Moss Back sandstone	0-150	Sandstone, light-colored, conglomeratic; cliff-forming; fills channels; widespread.	Northwest	
		Shinarump			0-250	Claystone, gray, and sandstone; forms slopes; widespread.	
					0-250	Sandstone, light-colored, conglomeratic; cliff-forming; fills channels; widespread.	Northwest
Middle(?) and Lower Triassic		Moenkopi	Shinarump		0-700	Siltstone, red, and sandstone; contains ripple marks; forms slopes and ledges; widespread.	
					0-200	Limestone; absent in eastern part of area.	Northwest
					0-200	Siltstone, red; contains ripple marks; forms slopes and ledges; thins eastward.	
Permian	Kaibab		Hoskinsville	0-120	Siltstone, red; absent in northwestern part of area; forms steep slopes and cliffs.		
			White Rim	0-230	Sandstone, white; cliff-forming; absent in eastern part of area.		
			De Chelly	0-660	Sandstone, light-colored; cliff-forming; absent in northern part of area.	Southwest	
	Coconino	Cutler	Organ Rock	250-800	Siltstone, red; forms steep slopes; absent in northern part of area.		
			Cedar Mesa	0-1,250	Sandstone, light-colored; thickens northward; forms cliffs and benches.	Southeast	
			Holgalto	0-500	Siltstone, red, and sandstone; absent in northern part of area.		
Permian(?) and Pennsylvanian.		Rico		300-500	Sandstone, red, siltstone, and light-gray limestone; forms cliffs and ledges; widespread.		

Figure 2. Generalized Stratigraphy in the Urayan mineral belt area (from Pool and Williams, 1956.)

GEOLOGY OF COLORADO URANIUM DISTRICTS

Western Colorado (Fig. 1), lying west of the Continental Divide, is the site of the oldest uranium mining area in the United States. The Uravan mineral belt, as it is known, is an arcuate belt extending from western Montrose and San Miguel Counties through southwestern Mesa County and into eastern Utah. It produces vanadium-uranium ores contained in sandstones--predominantly the Salt Wash Member of the Morrison Formation (Fig. 2).

Ore bodies are contained in continental sandstones with the mineralized rock forming elongate podlike masses and irregular bodies called "rolls". Roll ore deposits lie generally near the base of thick sandstone units where thin but well-defined mudstones are interbedded with thin sandstones (D. R. Shawe, 1956). Rolls commonly show C, S, and socket shapes in cross section but may be complicated by splits, bulges, loops, flattening or transition into tabular deposits (Fig. 3).

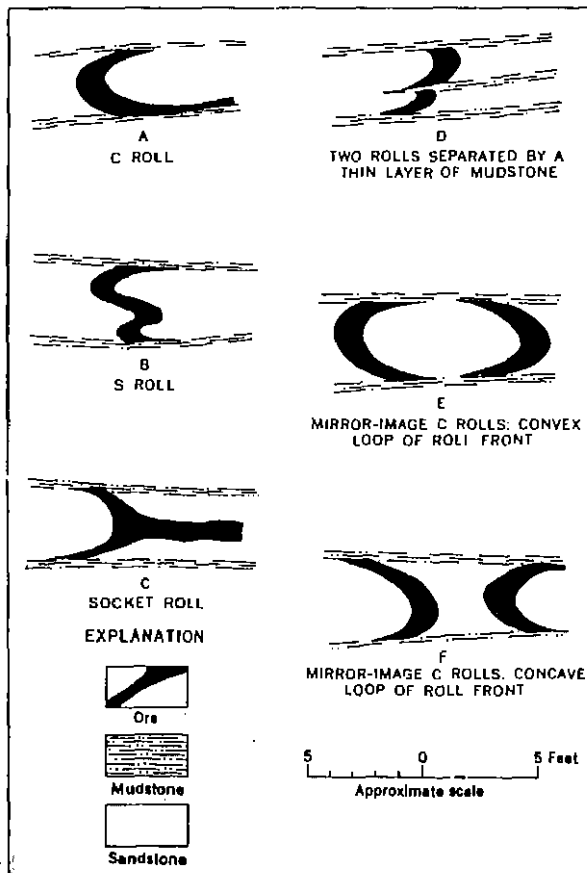


Figure 3. Cross-sections of Uranium Roll Fronts (From Shawe, 1956).

Minor elements are usually asymmetrically distributed across an ore body (Fig. 4). In the Salt Wash Member of the Morrison Formation, layers rich in hematite or limonite, calcite, and selenium are commonly found concentrically arranged on the

concave side of roll ore deposits. Where numerous and well developed deposits tend to lie in clusters, generally elongated in a common direction nearly perpendicular to the trend of the belt. Ore in these deposits may range in size from less than a ton to several hundred thousand tons. The grade ranges from a trace to several percent uranium oxide (U_3O_8), generally averaging 0.2 to 0.3 percent U_3O_8 .

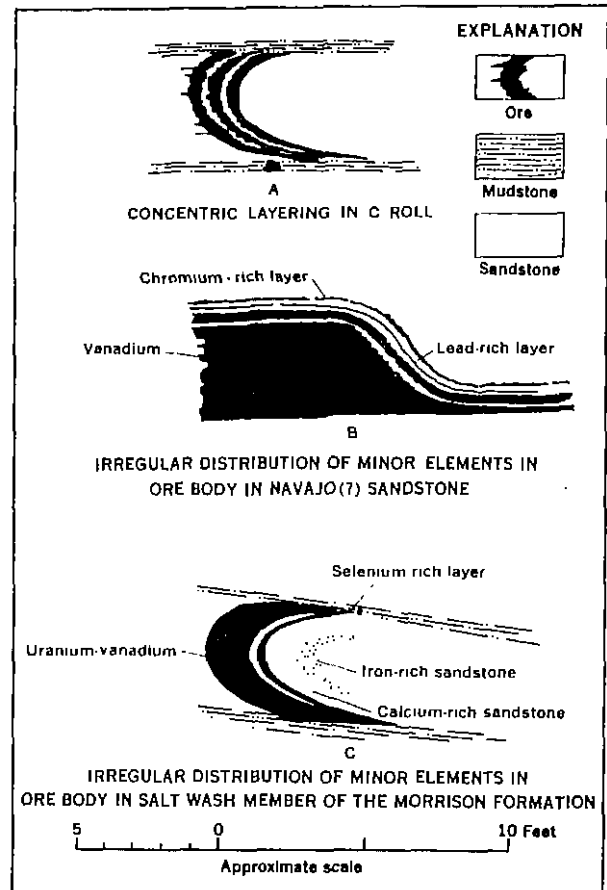


Figure 4. Mineral Distribution of Roll Fronts (From Shawe, 1956).

The Uravan mineral belt contains about 1200 mines, some active and many inactive. Since 1948 the Colorado portion of the belt has produced 12,742,000 tons of ore averaging 0.25 percent U_3O_8 and containing 63,336,400 lb of uranium oxide (U_3O_8) with 331,778,000 lb of vanadium oxide (V_2O_5) recovered as a co-product. The average uranium-vanadium ratio has been about 1:5, but it varies considerably. This production from the Uravan mineral belt represents 89 percent of the total uranium production in western Colorado.

Other deposits of the type found in the Uravan mineral belt occur in the Salt Wash Member of the Morrison Formation on Coal Creek Anticline east of Meeker in Rio Blanco County.

Large uraniumiferous vanadium deposits occur in the Entrada Sandstone northeast of Rifle in Garfield County, near Placerville in San Miguel County, and

north of Graysill Mountain in San Juan County. Smaller similar types of deposits occur in the Lightner Creek area in La Plata County. Some ore also occurs in the Jurassic (?) Navajo Sandstone at Rifle. These uraniumiferous vanadium deposits are referred to as the "roscoelite-type" because of the vanadium mica that is always associated with them. This belt appears to be continuous from the La Plata Mountains to the area near Rifle.

Another uranium mining district is found near Maybell on the south flank of the Sand Wash Basin in Moffat County. There, the Browns Park Formation, a fluvial, arkosic, locally tuffaceous sandstone of Miocene age serves as the host for uranium deposits. These deposits are roughly tabular, consisting of groups of lenticular, discontinuous ore bodies distributed within a limited stratigraphic interval. Relatively large amounts of low-grade ore occur in the upper part of the Browns Park Formation. Currently, Union Carbide Corporation is producing approximately 200,000 lb of U_3O_8 annually from this locality by a heap leach method.

Vein-type deposits in western Colorado are subordinate in size and numbers to those deposits in sandstone but are represented by two significant areas. Marshall Pass, the first area, straddles the Gunnison-Saguache County line just west of the Continental Divide. Geologically, it consists of an exposed remnant of Paleozoic rocks bounded on the east by the Chester Fault, a high-angle reverse fault. Precambrian granites, schist and gneiss from the east were pushed over these Paleozoic rocks. Ore bodies at the Pitch Mine, the largest uranium producer in the area, consist of numerous pods and lenses in brecciated, steeply dipping limestones and dolomites in the Belden Formation, in the hanging wall of the Chester Fault. The surface trace of the fault is undulatory, but strikes generally in a north-south direction. The eastward dip varies from about 40° to nearly vertical. Displacement is believed to be at least 1,400 ft and possibly as much as 2,000 ft. Uraninite is the primary ore mineral. Development is currently under way to bring this mine back into production.

The Cochetopa district, the second principal area of vein-type deposits in western Colorado, is located on the northern margin of the San Juan Mountains and was discovered in 1954. The deposits in the area consist of nearly vertical tabular bodies in brecciated and silicified Morrison sandstone and siltstone along the east-west-trending Los Ochos high-angle, normal fault. The principal ore is uraninite.

Small amounts of uranium have been produced in western Colorado from numerous localities outside these major areas in a variety of sedimentary, metamorphic and igneous host rocks. Production from all western Colorado areas, exclusive of the Uravan mineral belt, totals 2,847,100 tons of uranium ore, yielding approximately 7,806,000 lb of U_3O_8 with an average grade of 0.137 percent U_3O_8 . The total production for western Colorado is 15,589,000 tons of ore yielding 71,132,400 lb of U_3O_8 (Table 2, Chenoweth, 1977).

The second major producing area in the state is the Eastern Slope, defined very broadly as all of the area between the Continental Divide and the Great Plains (Fig. 1). The major districts within the Eastern Slope are the Front Range district and the Tallahassee Creek district. In general, less is known about uranium resources in the Eastern Slope than in western Colorado, simply because there has not been as much interest in exploring for Eastern Slope deposits until recently. This is because uranium ores from sandstone-type deposits have produced about 95 percent of all the uranium found in the United States.

Large areas of sandstone-type deposits such as the Uravan mineral belt, the Grants mineral belt in New Mexico, and the Powder River Basin in Wyoming have been explored and mined intensively for the past 25 years. The fact that such a large proportion of mined uranium has come from sandstone, combined with the ease of exploration and mining, and the generally conservative nature of mining companies have all made sandstone-type deposits the most sought after. Consequently, exploration for uranium in other geologic environments such as the Front Range has been minimal. Today, however, more time is being spent examining "other" geologic environments for possible uranium resources. This has caused more activity in relatively unexplored areas of the state and on the Eastern Slope.

To date, most uranium in the Eastern Slope has been produced from veins of pitchblende found in small bodies associated with sulfide minerals. In most of the occurrences the veins have been mined chiefly for their precious- or base-metal content. The discovery and importance of uranium in the veins was secondary.

The Schwartzwalder Mine, about 8 miles northwest of Golden in Jefferson County, is the largest uranium mine in Colorado, and the most notable exception to the statement that uranium is secondary to base and precious metals. The Schwartzwalder produced approximately one-seventh of the total amount of uranium in the state in 1977. Total production for the mine to May 1978 is reported as 10,500,000 lb of U_3O_8 (Cotter Corp., personal comm., 1978). The uranium is found in pitchblende and uraninite within veins and breccia fillings along a major fault system in Precambrian metamorphic rocks. Uranium, the major element found, has some associated copper mineralization. The Schwartzwalder Mine typifies the major type of uranium occurrence that is being sought in the Front Range district. This mine is a prime example of vein-type uranium deposits in North America.

The Tallahassee Creek area contains different types of deposits than those generally found on the Eastern Slope. There the uranium occurs in Eocene and Oligocene conglomerates, deposited primarily in ancient stream channels totally different from present drainage systems. Reports in the news media indicate that the Tallahassee Creek has more than 30,000,000 lb of recoverable U_3O_8 at Cyprus Mines' newly discovered Hanson ore body. Uraninite is the principal ore mineral.

A similar but smaller deposit in High Park has a pilot open pit from which ore was graded and stockpiled for various testing purposes. This deposit will probably be worked simultaneously with the Tallahassee Creek deposit to provide supplemental feed to a new mill that is being planned near that site.

On the eastern Great Plains one other important district lies in Weld County. One important deposit here, the Grover deposit, is being developed for production. The Grover uranium deposits in Weld County, 3 miles southwest of Grover, were discovered in 1970. Uranium occurs in sandstones of the upper Fox Hills and Laramie Formations. Deposits in these formations, although generally small and low grade, contain reserves varying from a few thousand to 1,000,000 lb U_3O_8 and have become commercially significant due to price increases for uranium. The average grade of the Grover Deposit is estimated at 0.14 percent U_3O_8 for a 1,000,000 lb ore body (H. L. Reade, Jr., 1976). Exploration and in-situ development (Fig. 5) of these deposits are joint ventures of Wyoming Mineral Corporation and Power Resources Corporation. They conducted extensive pilot and monitoring studies and are presently planning a commercial recovery operation.

These deposits are very similar to those found along the Gulf Coast in Texas. Mining is to be carried out by the in-situ leach-mining method, which was developed for the Texas uranium deposits. The development of these deposits will make this area an important new uranium district in Colorado.

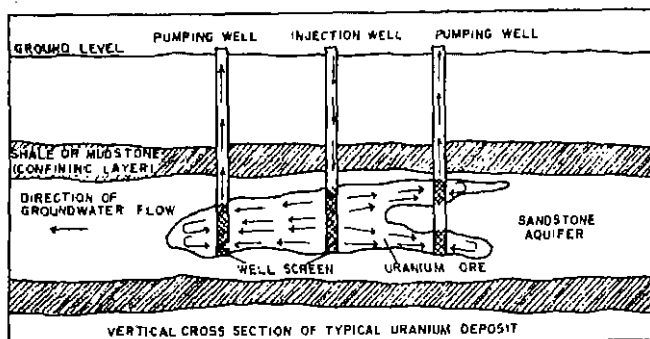


Figure 5. Diagram of In-situ Solution Mining (From Morse, J. G., and Curtin, M.S., 1977, Colorado Energy Resources Handbook, Volume 3 - Uranium: Colorado School of Mines, Golden, Colorado, p. 19).

CHEMISTRY AND MINERALOGY OF URANIUM AND THORIUM

The three naturally occurring radioactive elements are potassium, uranium, and thorium, but radioactive potassium is not found in significant concentrations in the earth's crust and is not commercially important. Uranium is one of the less common elements, averaging about 2 ppm in the earth's crust. Thorium, on the other hand, is more widely distributed, usually associated with uranium or rare-earth elements, and averages about 6.5 ppm in the earth's crust.

Uranium is a polyvalent element with values of +3, +4, and +6. The hexavalent (+6) form is one of the more common forms and is soluble in both dilute acid and dilute basic solutions. Four probable naturally occurring oxides, UO , UO_2 , U_3O_8 , and UO_3 are known, but pure UO is definitely established only as a thin surface layer on the native metal, which does not occur naturally. U_3O_8 , an olive-green uranium-uranyl oxide, contains 84.8 percent uranium. It is used as a unit of measurement when uranium content is discussed.

"Yellowcake" is the concentrate produced at mills and is generally considered to be ammonium diuranate, $(NH_4)_2(U_2O_7)$, or sodium diuranate, $(Na_2U_2O_7)$. The exact composition depends on the conditions of precipitation. Refinery specifications, first established by the Atomic Energy Commission, require a minimum of 75 percent U_3O_8 in yellowcake.

The most common uranium mineral is uraninite $[(U^{4+}_{1-x}, U^{6+}_x)O_{2+x}]$ or $(U^{4+}, U^{6+})O_{2.6}$. Uraninite is a primary mineral of uranium found throughout the world and is concentrated in sedimentary deposits, granitic rocks, pegmatites and in primary vein deposits. It is commonly referred to as "pitchblende", a term that has had many meanings but is currently used to describe the sooty, fine-grained, colloform variety of uraninite.

The uranium silicate, coffinite, occurs in unoxidized sedimentary ores of the western states. Secondary (oxidized) uranium minerals include an assortment of hydrated oxides, sulfates, phosphates, vanadates, silicates, and carbonates. Carnotite, a hydrated potassium uranium vanadate, is perhaps the best known secondary uranium mineral. The term "carnotite" is often used to include any of a number of similar yellow-colored minerals, including tyuyamunite and meta-tyuyamunite.

Uranium is frequently a minor constituent of such complex oxides as uranothorianite and the fergusonite-formanite, samarskite-yttrotantalite, and euxenite-polycrase series. These contain such elements as thorium, the rare earths, columbium, and tantalum. Quadrivalent uranium is isomorphous with thorium, zirconium, and the rare-earth elements.

Most of the uranium ores in Colorado, represented by the deposits in the Uravan mineral belt and Tallahassee Creek area, occur in sandstones and conglomerates. Tyuyamunite and uraninite, the most important uranium ore minerals, occur as interstitial fillings, grain coatings, and replacements of organic or carbonaceous materials within these deposits. The ore bodies are in irregularly shaped tabular, lenticular, or roll-type deposits. Important vein-type uranium deposits are represented by the Schwartzwalder and Pitch mines, in which pitchblende is the important ore mineral.

Monazite concentrations occurring in paleo-placer beach sands and containing ThO_2 are the principal sources of thorium in the world. Additional sources of thorium include veins and deposits in sedimentary

rocks (conglomerates or quartzites enriched in thorium, and uranium). Thorianite (ThO_2), thorite (ThSiO_4), and monazite ($(\text{Ce}, \text{La}, \text{Y}, \text{Th})\text{PO}_4$), are the main thorium-bearing minerals.

Vein-type deposits are the most important sources of thorium in Colorado. Thorium, principally in the form of thorite, occurs both in the Powderhorn district in southern Gunnison County near Lake City, and in the Wet Mountain district in Fremont and Custer Counties. Uranium is associated with the thorium in these areas but only as a minor element. The occurrences are in Tertiary veins that cut Precambrian gneisses, and ultrabasic rocks. These veins are not closely associated with any recognized intrusives. Paleoplacer beach sands are found in small deposits in Elbert, La Plata, and Montezuma counties. Their potential for development is not as favorable as that of vein-type occurrences.

USES AND TECHNOLOGY

Uranium became important during World War II when it was used in the development of the atomic bomb. Development of uranium resources after the war became the responsibility of the U.S. Atomic Energy Commission (AEC), who required large quantities of uranium for its weapons and for nuclear research and development programs. During this time a commercial nuclear power industry, using uranium as a fuel, has slowly developed into the principal civilian use for uranium. Small amounts are also needed for medical research and other technology.

Uranium is also useful after it has been depleted in the fissionable isotope and subsequently not suitable for nuclear use. It is one of the most dense metals that will alloy readily with other metals. Through alloying it forms stable compounds that are easily fabricated and useful in numerous specialized nonenergy applications. Depleted uranium is better than lead and other less costly dense metals for gamma-ray and X-ray shielding and for containers for radioactive materials. The density and ease of fabrication make depleted uranium castings suitable for missile ballast, for control surface balancing and counterweights in aircraft and space vehicles, and for payload simulation in test space vehicles. The structural and mechanical properties of depleted uranium make it particularly useful in alloys with molybdenum and titanium for a wide range of military applications--equipment parts, ammunition and special-purpose artillery shells.

Early uses of uranium are still important and include a uranium-antimony oxide catalyst used in the plastics industry to produce acrylonitrile, a colorant in glass and ceramics, and in steel and nonferrous metallurgy. It is important in the electrical industry where it is used for targets in X-ray tubes, for electrodes in ultraviolet lights, and for resistors in incandescent lamps.

Thorium is used principally for making compounds of oxides, nitrates, and chlorides. The main nonenergy use is in the fabrication of incandescent gas mantles. Varying percentages of thorium in magnesium-base alloys are used for aircraft and aerospace applications. Small quantities are used to produce certain

high-strength, corrosion-resistant metals. Thorium oxide is the most stable of the refractory oxides but is expensive and has poor resistance to shock. Both the metal and the oxide are used in radiation detectors, electric discharge tubes, and computers.

The use of high-temperature gas-cooled reactors (HTGR), such as the one at Fort St. Vrain, would create a substantial market for thorium. These types of reactors use thorium and uranium in the feedstock. The fuel elements consist of thorium and uranium carbide-coated ceramic particles. In the fuel cycle, highly enriched U_{235} serves as the initial and make-up fissile material, Th_{232} as the fertile material, and U_{233} as the converted material.

Theoretical studies of the light-water breeder-reactor (LWBR) program will use the pressurized-water reactor (PWR) to convert Th_{232} to fissionable U_{233} . This system, under development by Westinghouse, uses thorium as the major fuel component. If successful, it would permit conversion of PWR's to LWBR cores without extensive or costly changes. Utilizing thorium as the principal fuel component would drastically reduce the increasing demand for dwindling uranium resources.

Much research is directed toward large-scale production of thorium as a nuclear fuel. Standardization of HTGR parts to speed licensing, and the development of HTGR gas-turbine powerplants could eliminate conventional steam systems. The symbiotic relationship between the gas-cooled fast-breeder reactor (GCFR) and the HTGR is an important factor in the conversion to thorium fuels, as the GCFR breeds U_{233} from Th_{232} , with the U_{233} then used to fuel the HTGR. Possible applications of heat resulting from the high operating temperature of the HTGR include coal gasification, oil production from oil shales and tar sands, and hydrogen generation (water splitting).

CONCLUDING REMARKS

The prime objective of this project was to compile a reference data base for uranium and thorium exploration, for land-use planning and impact studies by government agencies, and as general information on radioactive occurrences for students, landowners, developers, and all citizens of the state.

Every effort has been made to ensure that the report is as complete and accurate as possible within our time and budget constraints, but we anticipate some errors and omissions. We also recognize that new uranium occurrences not included in this report are being located through industry exploration and as a result of favorability evaluations conducted by subcontractors to Bendix Field Engineering Corporation as part of the NURE program. Data on radioactive occurrences and bibliographic citations have been entered into a mini-computer diskette storage system in such a way that additions and corrections can be made and data retrieved with minimum effort. We therefore welcome comments from users of this report and request that information on new occurrences or corrections be sent to the Colorado Geological Survey, 1313 Sherman Street, Denver, Colorado 80203 so that our records on radioactive occurrences and bibliographic citations may be kept current.

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COLORADO STRATIGRAPHIC NOMENCLATURE CHART

ERA	PERIOD	N.W. SAN JUAN PARADOX BASINS	PICEANCE CREEK BASIN	SAND WASH BASIN	EAGLE BASIN	NORTH AND MIDDLE PARK BASINS	SOUTH PARK BASIN	FRONT RANGE UPLIFT	DENVER-JULESBURG BASIN	SOUTHEAST COLORADO AREA	RATON BASIN	
		METAMORPHIC AND INTRUSIVE ROCKS										
CENOZOIC	PLIOCENE					DRUMMOND BASIN			OBALLALA FM.	OBALLALA FM.		
	MIOCENE			BROWNE PARK FM.		TROUBLESHOOTING PARK FM.			ANKAREE GP.			
	OLIGOCENE	CREEPE FM.		SALAL CONGLOMERATE	UNNAMED S.S.				WHITE RIVER FM.			
	EOCENE	UNNAMED VOL. ROCKS										
PALEOCENE	BAN JOBE FM.	UNFA FM.	GREEN RIVER	UNFA FM.		COALMOUNT FM.						
MESOZOIC	UPPER	FARINGTON SB. MBR.	UNION FM.	WABATCH FM.	WABATCH	MIDDLE PARK	DENVER FM.	DENVER-DANBON FM.				
		ARIMAS FM.	WASATCH FM.	WABATCH FM.	WABATCH		ARAPAHO FM.	ARAPAHO FM.				
		FRUITLAND SHALE	LAKE FM.	LAKE FM.			LAJAS FM.	LAJAS FM.				
		PICTURED CLIFFS SS.	LAKE FM.	LAKE FM.			FOZ HILLS SS.	FOZ HILLS SS.				
		LEWIS SS.	LAKE FM.	LAKE FM.			FOZ HILLS SS.	FOZ HILLS SS.				
	LOWER	MESA VERDE GROUP	LAKE FM.	LAKE FM.			PIERRE SH.	PIERRE SH.				
		MANCOS	LAKE FM.	LAKE FM.			PIERRE SH.	PIERRE SH.				
		SHALE	LAKE FM.	LAKE FM.			PIERRE SH.	PIERRE SH.				
		DAKOTA SANDSTONES	LAKE FM.	LAKE FM.			PIERRE SH.	PIERRE SH.				
		UNNAMED S.S.	LAKE FM.	LAKE FM.			PIERRE SH.	PIERRE SH.				
JURASSIC	MORRISON FM.	MORRISON FM.	MORRISON FM.	MORRISON FM.	MORRISON FM.	MORRISON FM.	MORRISON FM.	MORRISON FM.	MORRISON FM.	MORRISON FM.		
TRIASSIC	CHINLE FM.	CHINLE FM.	CHINLE FM.	CHINLE FM.	CHINLE FM.	CHINLE FM.	CHINLE FM.	CHINLE FM.	CHINLE FM.	CHINLE FM.		
PERMIAN	WENKOP FM.	WENKOP FM.	WENKOP FM.	WENKOP FM.	WENKOP FM.	WENKOP FM.	WENKOP FM.	WENKOP FM.	WENKOP FM.	WENKOP FM.		
PALEOZOIC	PENNSYLVANIAN	WAGON MOUNTAIN	WAGON MOUNTAIN	WAGON MOUNTAIN	WAGON MOUNTAIN	WAGON MOUNTAIN	WAGON MOUNTAIN	WAGON MOUNTAIN	WAGON MOUNTAIN	WAGON MOUNTAIN	WAGON MOUNTAIN	
		WAGON MOUNTAIN	WAGON MOUNTAIN	WAGON MOUNTAIN	WAGON MOUNTAIN	WAGON MOUNTAIN	WAGON MOUNTAIN	WAGON MOUNTAIN	WAGON MOUNTAIN	WAGON MOUNTAIN	WAGON MOUNTAIN	
	MISSISSIPPIAN	LEADVILLE LIVESTONE	LEADVILLE LIVESTONE	LEADVILLE LIVESTONE	LEADVILLE LIVESTONE	LEADVILLE LIVESTONE	LEADVILLE LIVESTONE	LEADVILLE LIVESTONE	LEADVILLE LIVESTONE	LEADVILLE LIVESTONE	LEADVILLE LIVESTONE	
DEVONIAN	CHAFFEE GP.	CHAFFEE GP.	CHAFFEE GP.	CHAFFEE GP.	CHAFFEE GP.	CHAFFEE GP.	CHAFFEE GP.	CHAFFEE GP.	CHAFFEE GP.	CHAFFEE GP.		
SILURIAN												
ORDOVICIAN												
UPPER CAMBRIAN												
PRECAMBRIAN												

COMPILED BY RICHARD H. PEARL
COLORADO GEOLOGICAL SURVEY

SOURCE OF DATA: CROSS SECTIONS, ATLAS OF THE ROCKY MOUNTAIN REGION, 1937, AND OTHER PUBLICATIONS FROM ROCKY MOUNTAIN ASSOCIATION OF GEOLOGISTS, SPECIAL PUBLICATION NO. 2, 1937, FIGURE 2, WITH PERMISSION.

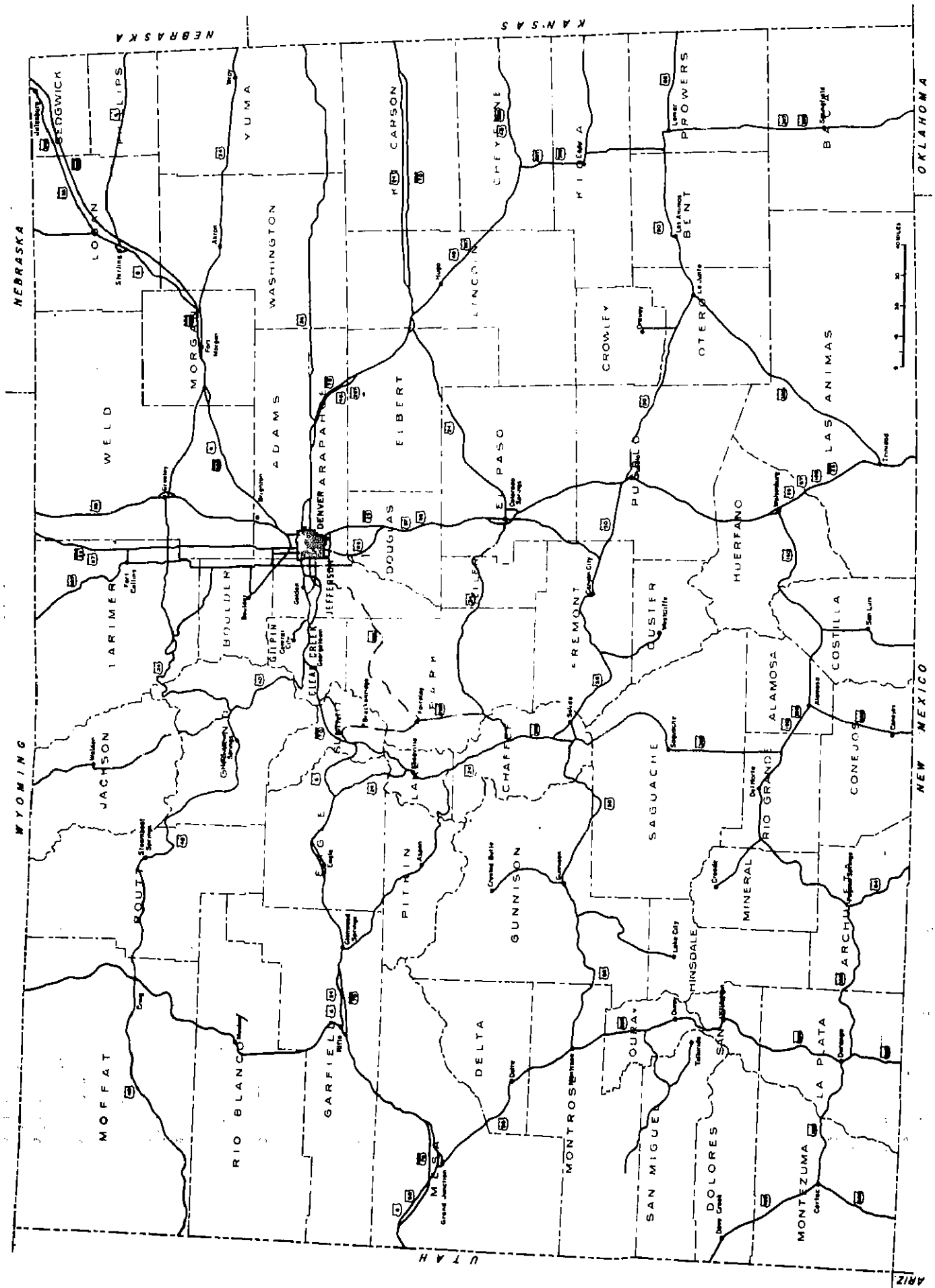


Figure 7. Map of Colorado showing counties, cities, and highways.

PART ONE

Occurrences

Introduction

The following list of occurrences and their descriptions is the most comprehensive set of data on natural radioactive occurrences in Colorado to date. An occurrence for this project was defined as any site with radiation over twice the background rate, or a concentration of uranium or thorium at 0.01% or more. The compilation was carried out from every source of data that could be accessed. The list is as complete as possible to January 1978. The information was arranged to be as useful as possible to all types of readers--geologists, planners, landowners, government agencies, and students.

DESCRIPTION OF COMPILATION METHODS

There were five major sources for compiling the occurrences:

U.S. Atomic Energy Commission Preliminary Reconnaissance Reports (PRR's).

U.S. Atomic Energy Commission Production Records for Colorado.

U.S. Department of Energy Lease Records for Colorado.

U.S. Geological Survey Computerized Resource Information Bank (CRIB).

Personal and Company Communications.

The Preliminary Reconnaissance Reports (PRR's) are a series of one-page documents describing all sites that were examined for possible radioactive occurrences in the United States. These were visited by U.S. Atomic Energy Commission and U.S. Geological Survey personnel from 1945 to 1960. All of the individual examinations made in a county were released as a single county report. These documents are available from the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. Paper copies of all reports on the counties in Colorado are available for inspection at the Colorado Geological Survey, and the Colorado Division of Mines has microfiche copies of these reports for the entire United States. The reports are now outdated, and the reliability of some are questionable. However, they do describe most of the major occurrences in the state, except those in the Uravan mineral belt on the Colorado Plateau. As such, they are a good base from which to begin compiling occurrences.

The second major source of information was the U.S. Atomic Energy Commission's Production Records, on file at the Grand Junction Office of the Department of Energy. A computer printout of a condensed version is also on file at Colorado Geological Survey. The production records list producing mines in the United States with information on the number of tons and the grade of the ore mined. The information is cumulative from January 1, 1948 to January 1, 1971. Government purchasing of uranium ended on December 31, 1970. Certain properties controlled by the Cotter Corporation and Climax Uranium began

production for sales to private industry as early as 1967. Before 1971 all purchases of uranium ore were made primarily by the U.S. Atomic Energy Commission; hence, any of that tonnage and grade information is now public information. These records were kept on all producing properties; therefore, when a mine dump was later reworked and sent to a mill, it received a new production record. As a result, many mine dumps in the Uravan mineral belt are listed as producers. There was even a production record of the cleanings from barrels that contained yellowcake.

The third source of information was the Department of Energy's Lease Tract Records. The lease tracts are areas of land that have been withdrawn at various times from mineral entry or claiming and later leased by competitive bids for uranium and vanadium production. All of the lease tract areas in Colorado are within the Uravan mineral belt. The records are kept current and contain the number of tons mined, the grade of the ore, and the number of pounds of uranium and vanadium produced. Over a period of years, these tracts have changed boundaries, names, owner, etc. They have been known by various names, including "Reserve Blocks", "Lease Tracts", "Mining Leases", "Lease Units", and "Mineral Leases". Occasionally some of these areas have been restored for standard mineral entry. Following this introduction are tables containing information on the Colorado leased areas, relating former lease units to the current lease unit numbers. The production figures are complete only to 1962. For more up-to-date production numbers, the individual property occurrence listings should be consulted.

The fourth source for compilation was the Computerized Resource Information Bank (CRIB) of the U.S. Geological Survey. This computer data base is currently being operated by the University of Oklahoma at Norman for the Geological Survey. It is a data base containing information on all commodities, their occurrences, reserves, mineralogy and other pertinent data. All of the uranium data had been entered into the data base during 1972 and 1973. It was not possible to check the dates of the information closer than 1973. During 1977 some information from the Defense Minerals Exploration Assistance Program (DMEA) was entered into CRIB. We had early access to the DMEA material and used it as a source for compiling our occurrences. The DMEA program was intended to provide assistance to individuals and companies in the exploration and development of strategic minerals, including uranium. Many properties in Colorado were explored with DMEA funds for uranium and other metals. The reports on the properties are confidential, and only the owner of the property and the U.S. Geological Survey have copies. These reports are both accurate and useful if they are available to an occurrence evaluator.

The fifth source of information was personal interviews and company communications. During the period of this project we contacted every major company and individual that had at some time explored for uranium or investigated uranium or thorium in the state. Many people contacted were very helpful and some even opened their submittal files to us.

A computer printout from the U.S. Bureau of Mines Mines Availability System (MAS), another computer data base, was also used for compiling occurrence records. The information for the MAS file had been researched in 1975. We found that the information differed from the U.S. Geological Survey and the U.S. Atomic Energy Commission's information in many instances. As a result, we used the MAS data only as a secondary source of information. When using any occurrence data where the U.S. Bureau of Mines is the only reference, it should be used with discretion.

Other sources of information for compiling the occurrences included published and unpublished literature on uranium, thorium, and radioactive occurrences in the state. References to most of this literature can be found in the accompanying bibliography.

DESCRIPTION OF INFORMATION HEADINGS

When researching the occurrences, we looked for the following 17 types of information. In most cases, all the information was not found and most occurrences will have less than the complete set of data shown below. The four-letter headings used in the occurrence records are mnemonic codes for the information listed below.

NAME---Name. Primary name and any aliases under which the primary occurrence may be found.

LOCATION---Location. Using the land-grid system, the location is given by section, township, and range.

LCST---Location Status. We used either "unsurveyed", "uncertain", or "unlocatable" if we believed there was any question as to the validity of the location. "Unsurveyed" means that the area where the occurrence is located has not been surveyed into the land-grid system; hence, there is a question as to its exact legal description. This is not of great concern to the user since the township and range lines are projected into the area, and most occurrences can be found. "Uncertain" was used when the location, the directions to the occurrence and/or the described geology did not correlate. This status is a more serious problem for the user than "unsurveyed" because the validity of the location is questionable. "Unlocatable" means either no location was given or the location given is obviously incorrect. This category makes the total validity of the occurrence questionable and its value negligible.

QUAD---Topographic Map Quadrangle. The name of the 7 1/2" or 15" U.S. Geological Survey topographic map quadrangle in which the occurrence can be found.

MAP--- 1° x 2° Map Quadrangle. The name of the 1° x 2° map in the pocket of this volume on which the occurrence is plotted.

DEVL---Development. A short description of the type of mining or prospecting that has taken place at the site.

PROD---Tonnage and Grade. The tons and grade of ore mined with the number of pounds of U₃O₈ and V₂O₅ produced.

BKG--- Background Radioactivity---The normal range of the background radiation, reported in either mr/hr (milliroentgens per hour) or cps (counts per second) as measured with a radiation detection device.

RNG--- Range of Radioactivity. Range of the radioactivity that was found at the occurrence, from normal background to a maximum reading. This, like the background, is reported in mr/hr or cps. In a few cases the range is reported as xbg, which means the range of the radioactivity was recorded as a multiplication of the background rate.

HOST---Host Rock. Rock type in which the occurrence is found.

STRT---Structural Controls. Any structure in the rock that may have helped to localize the uranium mineralization.

ALT--- Alteration. Any change in the rock which may be due to emplacement of the uranium or have contributed to the emplacement.

MNZ--- Mineralization. The minerals found at the occurrence and any sample analysis data. The analysis is given as a percentage or as parts per million (ppm) of U (uranium or U₃O₈). The symbol for uranium is given as "U", "eU", and "cU". "U" stands for uranium in its elemental form. "eU" is the symbol for "equivalent uranium" which is the amount of uranium as measured on a radiation detection device such as a scintillometer or gelger counter. There is not necessarily any uranium at an occurrence that has "eU". The radiation seen on a counter can be caused by radon, radium, or other daughter products of uranium, or by thorium. "cU" means "chemical uranium", an amount that has been measured chemically and is a true measure of uranium in the sample.

RMKS---Remarks. Any additional pertinent information.

DOI--- Date of Information. Date that is applicable to most of the information given on the occurrence.

REF--- References. These are given in the short citation format of Author and Date. Using this citation, the reference can be found in the accompanying bibliography. For those references that are not listed in the bibliography, a full citation is given. This is not necessarily a complete listing of references for a given property.

USE OF OCCURRENCES

The following list of occurrences is arranged alphabetically by county and numbered alphabetically by primary name within each county. The numbers are used to plot the occurrence on the 1° x 2° maps in the pocket at the back of this volume. To facilitate finding occurrences, a complete alphabetized list of occurrence names by county follows the Introduction. The names are given only up to 60 characters in length.

MAPS

Sixteen 1° x 2° maps that cover Colorado are shown in the figure on the following page. All natural radioactive occurrences were plotted on these maps, which are included as plates in the pocket at the back of this volume. The La Junta, Lamar, Limon, and Grand Junction sheets were not printed, however,

because there were very few occurrences on these sheets. Maps of those few occurrences were included as figures with the occurrences in the appropriate county occurrence listing. The opposite situation of too many occurrences for the scale of the map appeared with Clear Creek, Gilpin, Mesa, Montrose, and San Miguel Counties. Clear Creek and Gilpin Counties were plotted at 1:125,000 scale and included as figures with their respective county occurrences. Mesa, Montrose, and San Miguel Counties lie within the Ura-van mineral belt and contain about 50 percent of all the occurrences in the state. The area of the Ura-van mineral belt within these three counties was printed as one map at a scale of 1:100,000 and included as a plate in the pocket.

Each occurrence within the county is numbered alphabetically, and plotted on the appropriate 1° x 2° map with a symbol to indicate its host rock, and its number. The host rock symbols were arranged within the following generalized host categories:

- Coal, shale, and limestone
- ▲ Igneous and metamorphic
- Sandstone, arkose, conglomerate, and siltstone, lake sediments
- Spring deposits and ground water
- ◆ Undetermined

This method of plotting the host placed similar rock types together and does not address the question of genesis.

Separate single copies of these maps can be obtained at the office of the Colorado Geological Survey.

EXPLANATION FOR TABLES 2 & 3

HISTORY OF LEASING (G. C. Ritter, personal communication)

1945-55	Atomic Energy Commission obtained mineral rights on 700 square miles of land, and conducted exploration.
1953-57	660 square miles were returned to public domain.
1948-56	Deposits leased for mining to operators selected by the Atomic Energy Commission.
1962	By March 31 all leases had expired.
1962-present	Atomic Energy Commission held mineral rights on 40 square miles
1970-71	Environmental studies made and impact statement prepared on withdrawn lands.
1973	Reestablished leasing program under revised Circular 8--rules and regulations for leasing.
mid 1974	Leases awarded
late 1974	Development began
mid 1975	Ore production began

Abbreviations and Definitions

ML-15	Mineral Lease (or Mining Lease) 15
C-AM-20	Colorado-Atkinson Mesa, Uravan District-DOE Lease Tract 20
C-BL-23	Colorado-Bitter Creek and Long Park areas, Uravan District - DOE Lease Tract 23
C-CM-24	Colorado-Club Mesa, Uravan District-DOE Lease Tract 24
C-G-26	Colorado-Gateway District-DOE Lease Tract 26
C-JD-9	Colorado-Jo Dandy area, Monogram Mesa-DOE Lease Tract 9
C-LP-23	Colorado-Long Park, Uravan District-DOE Lease Tract 23
C-SM-18	Colorado-Spring Creek Mesa, Uravan District-DOE Lease Tract 18
C-SR-10	Colorado-Slick Rock District-DOE Lease Tract 10
C-WM-17	Colorado-Wedding Bell Mountain, Bull Canyon-DOE Lease Tract 17
U-PM-28	Utah-Polar Mesa-DOE Lease Tract 28
"Withdrawn"	An area of land that the Atomic Energy Commission withdrew from standard mineral entry, later leasing parts of it to private companies for development.
"Restored"	An Atomic Energy Commission withdrawn area that was later restored to standard mineral entry.

"Reserve Blocks" Tracts of land held by the government that contain known reserves. They were identified by the USGB prefix, indicating U.S. Government Block, the reserve block number, a two digit code for the general location, and a final two digit code indicating the government agency responsible for evaluating the property.

The location codes include:

USGB-1-JDGS	Jo Dandy area, Monogram Mesa
USGB-9-JDOR	Jo Dandy area, Monogram Mesa
USGB-1-LGGS	Legin Group, Slick Rock
USGB-2-RGGS	Radium Group, Slick Rock
USGB-3-SPGS	Spud Patch Group, Slick Rock
USGB-5-GTLD	Georgetown Group, Slick Rock
USGB-6-RGOR	Lower Group, Radium Group, Slick Rock
USGB-3-SCGS	Spring Creek Mesa, Uravan
USGB-4-SMGS	Spring Creek Mesa, Uravan
USGB-1-AMGS	Atkinson Mesa, Uravan
USGB-18-AMOR	Atkinson Mesa, Uravan
USGB-9-LPGS	Long Park, Uravan
USGB-13-CMGS	Club Mesa, Uravan

The agency codes are:

GS	Block is the responsibility of the U.S. Geological Survey
LD	Block is the responsibility of the Leasing and Development Branch of the AEC
OR	Block is the responsibility of the Ore Reserves Branch of the AEC

TABLE 2

Correlation of current DOE lease unit numbers, locations, and property names with former AEC reserve block and lease numbers
(A. S. J. Taylor, written comm.)

<u>Current Lease Unit Number</u>	<u>Former Reserve Block Number or Lease Number</u>	<u>General Location</u>	<u>Property Name(s) (not necessarily comprehensive)</u>
C-JD-5	USGB-1-JDGS USGB-6-JDGS	Jo Dandy area Monogram Mesa Montrose County	
C-JD-6	USGB-4-JDGS USGB-5-JDGS	Jo Dandy area Monogram Mesa Montrose County	
C-JD-7	USGB-2-JDGS USGB-3-JDGS USGB-9-JDOR USGB-10-JDOR USGB-11-JDOR USGB-12-JDOR	Jo Dandy area Monogram Mesa Montrose County	
C-JD-8	USGB-8-JDOR	Jo Dandy area Monogram Mesa Montrose County	
C-JD-9	USGB-7-JDGS	Jo Dandy area Monogram Mesa Montrose County	
C-SR-10	USGB-1-LGGS ML-1 ML-2 ML-4 ML-18 ML-29	Legin Group Slick Rock District San Miguel County	King, King No. 2, Sam, Frenchy, May, Cowgirl, Block 32 (Black Jack Strip) Eloisa, Otero
C-SR-11	USGB-2-RGGS ML-4	Radium Group Slick Rock District San Miguel County	Tomboy, Beth Emma Lou, Teller, Mercantile; Independence, Avoca, Ike Nos. 1-6, Sibley, Park, Brighton
C-SR-12	USGB-3-SPGS USGB-4-SPGS	Spud Patch area Slick Rock District San Miguel County	

TABLE 2 (Cont.)

Current Lease Unit Number	Former Reserve Block Number or Lease Number	General Location	Property Name(s) (not necessarily comprehensive)
C-SR-13	USGB-5-GTLD ML-28 ML-30 ML-32 ML-42	Georgetown area Slick Rock District San Miguel County	Hawkeye; Little Yolande, Herbert, Vanadium, Ocumpaugh; Ellison, Burrow; Dan
C-SR-13A	ML-12 ML-17 ML-46	Georgetown area Slick Rock District San Miguel County	Veta Mad, Veta Glad, Georgeto
C-SR-14	ML-21 ML-44	Middle and Upper Groups Slick Rock District San Miguel County	Sunnyside, Grant, Big Four; Canyon View, Grants, Black Fox
C-SR-14A	ML-27	Middle and Upper Groups Slick Rock District San Miguel County	Ned Claim
C-SR-15	USGB-6-RGOR ML-6 ML-20	Lower Group Slick Rock District San Miguel County	Cougar, Last Chance, Rainbow, Little Muriel, Chico, Lower Fraction; Knoll, Helen, Cacti, Alice
C-SR-16	ML-3 ML-4 ML-5 ML-8 ML-9 ML-43 ML-45	Charles T. Group Slick Rock District San Miguel County	Nucleus, Easton B., Michael Bray, Michael Bray 1 & 2, Ann No. 1 & 2 and Fraction adjacent to Ann No. 2, Hawk 2, Frankie 2; Charles T. No. 1, 2 & 4, Sunflower, Fraction No. 1, Fraction No. 5, Summit, Benny T. No. 1 & 2, Neomi D. and Neomi D. Angle
C-SR-16A	ML-5 ML-7 ML-22 ML-25 ML-45 ML-48	Golden Rod Group Slick Rock District San Miguel County	Pretty Boy, Golden Rod, Golden Rod No. 1 & 2, Lease Block including Golden Rod No. 5, Fraction 3 & 4, Bush No. 6 & 7

TABLE 2 (Cont.)

Current Lease Unit Number	Former Reserve Block Number or Lease Number	General Location	Property Name(s) (not necessarily comprehensive)
C-WM-17	Wedding Bell Block	Wedding Bell Mountain and Bachelor Draw Groups Bull Canyon San Miguel County and Montrose County	
C-SM-18	USGB-3-SCGS USGB-4-SMGS USGB-5-SCGS USGB-6-SCGS USGB-7-SMGS USGB-8-SCGS	Spring Creek Mesa Uravan District Montrose County	
C-AM-19	USGB-1-AMGS USGB-2-AMGS ML-38 ML-39 ML-47	Atkinson Mesa Uravan District Montrose County	Block C (Dolores Bench), Block A (Atkinson Mesa)
C-AM-20	USGB-18-AMOR USGB-19-AMOR	Atkinson Mesa Uravan District Montrose County	
C-LP-21	USGB-9-LPGS USGB-10-LPGS USGB-11-LPGS USGB-15-LPGS ML-14	Long Park Uravan District Montrose County	Reserve Block B (Virgin Shaft)
C-LP-22	USGB-16-LPGS	Long Park Uravan District Montrose County	
C-LP-22A	ML-15 ML-23	Long Park Uravan District Montrose County	Reserve Block A (adjacent to TNT No. 3); Lease Block (adjacent to Dusty and TNT No. 1 & 2)
C-LP-23	USGB-12-LPGS USGB-17-LPGS	Long Park and Bitter Creek areas Uravan District Montrose County	

TABLE 2 (Cont.)

Current Lease Unit Number	Former Reserve Block Number or Lease Number	General Location	Property Name(s) (not necessarily comprehensive)
C-CM-24	USGB-13-CMGS ML-26 ML-41	Club Mesa Uruavan District Montrose County	South 670 ft of SE/4 sec. 29, T48N, R17W, with certain lands excepted
C-CM-25	ML-10 ML-11 ML-24 ML-37	Club Mesa Uruavan District Montrose County	Lease Block (adjacent to Mill No. 4); Lease Blocks No. 3 & 4 (adjacent to Mill No. 2), Reserve Block No. 6 (NW of LaSalle Mining Company), Block 8 (Club Mesa)
C-G-26	AT(05-1)-36 ML-19	Calamity Mesa Gateway District Mesa County	All Fractions between Government claims leased to U.S. Vanadium under Contract AT(05-1)-36
C-G-26A	AT(05-1)-36 ML-34	Calamity Mesa Gateway District Mesa County	Block of public land adjoining Small Spot claim on the west; Matchless, Queen of the Hills, Calamity Claims
C-G-27	G-2 & G-4 AT(05-1)-36 AT(05-1)-526	Outlaw Mesa Gateway District Mesa County	Neglected, Calamity No. 14 & 15 (Calamity Mesa); Outlaw Mesa G-1
C-G-27A	AT(05-1)-526	Outlaw Mesa Gateway District Mesa County	Outlaw Mesa G-2

TABLE 3

Former AEC mining leases, their producing properties and location with information on annual production and grade (to 1962) of uranium-vanadium ore (A. S. J. Taylor, written comm.)

Former Mining Number	Current Lease Unit Number	Property Name	District(s) Group Name(s) Location	Duration of Lease Production	Calendar Year	Dry Tons	% U ₃ O ₈		Comments
							U ₃ O ₈	V ₂ O ₅	
ML-1	C-SR-10	King No. 2, Sam	Slick Rock District Legin Group SW/4 NW/4 sec. 28, T43N, R19W	7/1/49 to 3/31/62	1949	1,296	0.44		
					1950	1,928	0.42		
					1951	2,679	0.40		
					1952	9,641	0.30		
					1953	10,015	0.28		
					1954	5,174	0.29		
					1955	3,020	0.38		
					1956	3,206	0.29		
					1957	2,709	0.33		
					1958	1,929	0.23		
					1959	1,490	0.30		
					1960	4,525	0.24		
1961	931	0.17							
1962	181	0.23							
TOTAL						48,724	0.31	2.20	
ML-2	C-SR-10	Frenchy, King, Mex. Cowgirl	Slick Rock District Legin Group NE/4 sec. 29, T43N, R19W	7/1/49 to 6/30/52	1949	893	0.35		See ML-29 (ML-2 became ML-29 on 7/1/52)
					1950	4,188	0.29		
					1951	3,934	0.32		
					1952	2,117	0.31		
TOTAL						11,132	0.32	2.33	
ML-3	C-SR-16	Nucleus, Easton B., Michael Bray 1 & 2	Slick Rock District Mignael Bray Group E/2 sec. 16, T43N, R19W	7/15/49 to 5/1/50	1949	944	0.32		See ML-4 (ML-3 was terminated 5/1/50 and absorbed into ML-4)
					1950	918	0.21		
					TOTAL				
ML-4	C-SR-11	Tomboy, Beth Emma Lou, Teller, Mercantile; Independence, Avoca, Ike Nos. 1-6, Sibley, Park, Brighton	Slick Rock District Mercantile Group Michael Bray Group Radium Group secs. 8, 16, 17, 18, T43N, R19W	7/15/49 to 10/31/59	1949	1,820	0.38		*Pinto" property was restored to standard claim procedures. See ML-3
					1950	4,854	0.39		
					1951	8,059	0.20		
					1952	4,918	0.28		
					1953	23,767	0.33		
					1954	19,078	0.26		
					1955	19,027	0.31		
					1956	23,054	0.36		
					1957	4,769	0.34		
					TOTAL				

1958 3,326 0.40
 1959 1,221 0.65
 TOTAL 115,893 0.32 1.35

8 & 2, Fraction adjacent
 to Ann No. 2, Hawk No.
 2, Frankie No. 2
 Block 32 (Black Jack
 Strip)
 Pinto*

ML-5 Charles T. Nos. 2 & 4, } Slick Rock District 10/15/49 See ML-45. ML-5
 Sunflower } Charles T. Group terminated 11/12/52
 Pretty Boy } SW/4 sec. 10, and NE/4 } with part becoming
 sec. 15, T43N, R19W } 11/12/52 ML-45

1949 212 0.24
 1950 3,400 0.51
 1951 4,485 0.23
 1952 1,593 0.53
 TOTAL 9,490 0.34 1.44

ML-6 Cougar, Last Chance, } Slick Rock District 12/1/49
 Rainbow, Little Mariel, } Lower Group
 Chico, Lower Fraction }
 NW/4 SE/4 and NE/4 } 5/31/59
 SW/4 sec. 25, T44N, } R19W

1949 60 0.53
 1950 1,538 0.50
 1951 2,565 0.51
 1952 2,574 0.48
 1953 5,026 0.48
 1954 2,611 0.57
 1955 1,897 0.35
 1956 2,455 0.34
 1957 2,533 0.40
 1958 5,360 0.31
 1959 1,013 0.37
 TOTAL 25,658 0.42 2.44

ML-7 Golden Rod, Fraction 3 } Slick Rock District 10/23/50
 Golden Rod Group } Golden Rod Group
 E/2 NE/4 sec. 14, T43N } 10/23/54
 R19W } TOTAL

1950 339 0.32
 1951 2,717 0.20
 1952 2,425 0.22
 1953 4,415 0.23
 1954 524 0.19
 TOTAL 7,220 0.24 2.43

ML-8 Originally portions of } Slick Rock District 10/25/50 See ML-9
 Fraction No. 1 & Summit } Charles T. Group
 with Charles T. No. 1 } added June 1951, Fraction } 3/31/62
 No. 5, Benny T. Nos. 1 } & 2 and remaining portions }
 of Fraction No. 1 and } Summit added 10/52

1950 84 0.48
 1951 1,415 0.40
 1952 1,160 0.34
 1953 1,545 0.42
 1954 1,204 0.34
 1955 1,137 0.39
 1956 962 0.37
 1957 322 0.43
 1958 633 0.32
 1959 1,242 0.30
 1960 2,097 0.34
 1961 1,720 0.29
 1962 15 0.37
 TOTAL 13,536 0.37 2.15

TABLE 3 (Cont.)

Former Mining Number	Current Lease Unit Number	Property Name	District(s) Group Name(s) Location	Duration of Lease Production	Calendar Year	Dry Tons	U ₃₀₈	\$ V ₂₀₅	Comments
ML-9	C-SR-16	Original lease-remaining portion of Fracture No. 1 and Summit, all of Bennie T. No. 1, Fraction No. 5 and Bennie T. No. 2 added 7/15/51	Slick Rock District Lower San Miguel Mining District sec. 10, T43N, R19W	10/23/50 to 9/9/52	1950 1951 1952 TOTAL	23 1,861 1,671 3,555	0.89 0.42 0.29 0.36	2.62	See ML-8. ML-9 was terminated 9/9/52
ML-10	C-CM-25	Lease Block, adjacent to Mill No. 4	Club Mesa S/2 NE/4 sec. 5, T47N, R17W	1/15/51 to 7/31/60	1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 TOTAL	4,400 13,565 16,627 21,822 21,650 16,853 11,432 8,366 7,603 2,903 125,221	0.34 0.24 0.26 0.27 0.25 0.23 0.23 0.21 0.19 0.18 0.24	1.63	
ML-11	C-CM-25	Blocks 3 & 4, adjacent to Mill No. 2	Club Mesa N/2 NE/4 sec. 5, T47N, R17W	1/1/51 to 3/31/61	1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 TOTAL	736 1,262 1,346 2,047 1,856 1,723 1 1,541 2,594 2,453 1,911 17,270	0.53 0.47 0.40 0.52 0.49 0.36 0.59 0.27 0.34 0.39 0.49 0.42	1.79	
ML-12	C-SR-15A	Veta Mad, Veta Glad	Slick Rock District Georgeto Group NW/4 NW/4 sec. 30, T44N, R18W	12/4/50 to 12/4/53	1951 1952 1953 TOTAL	866 1,223 2,157 4,246	0.74 0.42 0.46 0.50	2.37	See ML-46. Noncompliance on lease. Expired 12/4/53 and reissued as ML-46

ML-13	Restored	Reserve Block 1	Club Mass	5/1/51	1951	2,420	0.31	This lease was restored to standard claim procedures
			NW/4 sec. 31, T48N, R17W	to	1952	5,365	0.29	
					1953	6,789	0.25	
				10/1/55	1954	6,978	0.22	
					1955	5,179	0.24	
				TOTAL	24,731	0.25	1.43	

ML-14	C-LP-21	Reserve Block 3 (Virgin Shaft)	Long Park	10/1/51	1952	272	0.17
			S/2 SW/4 sec. 22, T47N, R17W	to	1953	2,238	0.25
					1954	2,459	0.35
					1955	1,886	0.34
				3/31/61	1956	2,369	0.31
					1957	2,553	0.21
					1958	1,999	0.22
					1959	818	0.50
					1960	15,364	0.28
					1961	2,788	0.29
				TOTAL	33,746	0.28	2.14

ML-15	C-LP-22A	Reserve Block A (adjacent to TNT No. 3)	Long Park	8/1/51	1953	61	0.53
			NW/4 sec. 21, T47N, R17W	to	1954	148	0.36
					1955	-	-
					1956	-	-
				4/30/61	1957	832	0.35
					1958	792	0.27
					1959	865	0.36
					1960	525	0.28
					1961	25	0.28
				TOTAL	3,248	0.52	1.63

ML-16	Restored	Lease Block adjacent to Falcon Claim	Slick Rock District	3/1/51	1951	274	0.23	This lease was restored to standard claiming procedures
			SE/4 SE/4 sec. 20, T43N, R19W	to	1952	-	-	
				2/28/55	1953	7	0.36	
				TOTAL	281	0.23	2.35	

ML-17	C-SR-15A	Georgeto	Slick Rock District	9/26/51	1951	1,319	0.32
			S/2 NW/4 sec. 30, T44N, R18W	to	1952	2,832	0.39
					1953	4,002	0.34
					1954	4,165	0.41
				9/26/55	1955	2,271	0.30
					1956	14	0.50
				TOTAL	13,415	0.36	1.75

TABLE 3 (Cont.)

Former Mining Lease Number	Current Lease Unit Number	Property Name	District(s) Group Name(s) Location	Duration of Lease Production	Calendar Year	Dry Tons	% U-3-8	% V-2-5	Comments
ML-18	C-SR-10	Eloisa, Otero	Slick Rock District Legin Group NW/4 sec. 28, T43N, R19W	12/1/51 to 12/1/55	1952 1953 1954 1955 TOTAL	5,054 2,530 1,123 1,219 9,926	0.32 0.29 0.42 0.21 0.29	1.75	
ML-19	C-G-26	All Fractions between government claims leased to U.S. Vanadium under contract AT(05-1)-36	Gateway District Grand County, Utah and Mesa County, Colorado Polar Mesa*, Calamity Mesa Sec. 12, T50N, R18W Sec. 34, T24S, R25E	12/1/51 to 7/31/57	1955 TOTAL	97 97	0.26 0.26	1.26	*Polar Mesa was covered by Lease Unit No. U-PM-28 which was not leased See ML-AT(05-1)-36
ML-20	C-SR-15	Knoll, Helen, Cacti, Alice	Slick Rock District Lower Group SW/4 SW/4 sec. 25, T44N, R19W	1/14/52 to 1/14/56	1952 1953 1954 1955 TOTAL	3,031 5,276 5,687 1,903 14,797	0.30 0.30 0.34 0.33 0.32	1.74	
ML-21	C-SR-14	Sunnyside, Grant, Big Four	Slick Rock District Upper Group S/2 NW/4 sec. 5, T43N, R18W	1/14/52 to 10/10/52	1952 TOTAL	1,798 1,798	0.26 0.26	1.79	
ML-22	C-SR-16A	Golden Rod No. 1 & 2, Fraction No. 4	Slick Rock District Golden Rod Group SE/4, sec. 11, T43N, R19W	2/15/52 to 2/6/54	1952 1953 1954 TOTAL	1,582 437 29 2,048	0.25 0.28 0.21 0.26	2.35	ML-22 was terminated See ML-48

ML-23	C-LP-22A	Lease Block adjacent to Dusty and TNT No. 1 & 2	Long Park	3/1/52	1952	137	0.39
				to	1953	3,997	0.32
			E/2 sec. 20 and W/2 sec. 21, T4N, R17W	12/31/60	1954	4,637	0.32
					1955	2,784	0.24
					1956	1,707	0.34
					1957	682	0.21
					1958	2,650	0.44
					1959	2,112	0.38
					1960	2,077	0.30
					1961	1,631	0.30
				TOTAL	22,842	0.32	1.68

ML-24	C-CM-25	Résérve Block No. 6 (NW of LaSalle Mining Company property)	Club Mesa	9/1/52	1953	2,880	0.25
				to	1954	--	--
			NE/4 NW/4 sec. 5, T47N, R17W	10/31/58	1955	1,486	0.32
					1956	936	0.22
					1957	944	0.23
					1958	137	0.22
				TOTAL	6,383	0.26	1.86

ML-25	C-SR-16A	Lease Block, including Golden Rod No. 5	Slick Rock District Golden Rod Group	5/1/52	1952	1,788	0.32
				to	1953	2,533 <th>0.28</th>	0.28
			NE/4 NW/4 sec. 14, T43N, R19W	5/1/54	1954	161	0.20
				TOTAL	4,482	0.29	2.77

ML-26	C-CM-24	South 670 ft. of SE/4 sec. 29, T48N, R17W, with certain lands excepted	Club Mesa Near Shamrock Group	5/1/52	NO PRODUCTION		
				to			
			SE/4 sec. 29, T48N, R17W	9/30/52			

ML-27	C-SR-14A	Ned Claim	Slick Rock District	6/15/52	1952	460	0.18
				to	1953	435	0.20
			NW/4 NE/4 sec. 1, T43N, R19W	6/15/54	1954	75	0.33
				TOTAL	970	0.20	1.21

ML-28	C-SR-13	Hawkeye	Slick Rock District	7/1/52	1952	440	0.27
				to	1953	1,016	0.35
			W/2 SW/4 sec. 32, T44N, R18W	10/1/53	TOTAL	1,456	0.33
							1.12

TABLE 3 (Cont.)

Former Mining Lease Number	Current Lease Unit Number	Property Name	District(s) Group Name(s) Location	Duration of Lease Production	Calendar Year	Dry-Tons	\$ U ₃ O ₈	% U ₃ O ₈	Comments
ML-29	C-SR-10	Cowgirl, Frenchy, King, May	Slick Rock District	6/30/52	1952	2,305	0.41		See ML-2
			Legin Group	to	1953	4,093	0.38		
			NE/4 sec. 29, T43N, R19W	3/30/62	1954	4,861	0.31		
					1955	5,823	0.24		
					1956	5,831	0.23		
					1957	6,500	0.21		
					1958	7,843	0.20		
					1959	6,835	0.24		
					1960	6,450	0.23		
					1961	6,750	0.21		
					1962	874	0.16		
					TOTAL	58,162	0.25		1.80
ML-30	C-SR-13	Little Yolande, Herbert, Vanadium, Ocumpaugh	Slick Rock District	7/15/52	1952	2,707	0.17		
			Middle Group	to	1953	4,198	0.23		
			W/2 NE/4 sec. 31, T44N, R18W	3/31/58	1954	1,721	0.25		
					1955	2,180	0.32		
					1956	3,039	0.24		
					1957	554	0.26		
					1958	909	0.24		
					TOTAL	15,308	0.24		1.17
ML-31	Restored	Reserve Block 4, Blue Creek Mesa	Northeast end of Blue Creek Mesa, Mesa County	9/1/52 to 9/1/53	1952	386	0.50		This lease was re-stored to standard claiming procedures
			SE/4 sec. 29 and NE/4 sec. 32, T50N, R17W		1953	293	0.71		
					TOTAL	679	0.60		3.02
ML-32	C-SR-13	Ellison, Burro	Slick Rock District	11/15/52	1952	73	0.23		
			Middle Group	to	1953	775	0.36		
			NE/4 NE/4 sec. 31, T44N, R18W	11/15/57	1954	466	0.45		
					1955	220	0.31		
					1956	198	0.28		
					1957	9	0.33		
					TOTAL	1,741	0.36		1.67
ML-33		Oyler Tunnel Tract	Capitol Reef National Monument						NO PRODUCTION Lease never executed

ML-34	C-G-26A	Block of public land adjoining Small Spot claim on the west	Gateway District Calamity Mesa area NE/4 sec. 9, T50N, R18W	2/1/53 to 1/31/54	1953 TOTAL	15 15	0.15 0.15	0.69
ML-35	Restored	Public land adjoining Last Chance claim on the north	Cottonwood area, west of Blanding, Utah N/2 SE/4 sec. 4, T37S, R21E	1/15/53 to 1/15/55	1953 1954 TOTAL	1,063 1,253 2,316	0.13 0.17 0.15	1.87
ML-36	Restored	Public land adjoining Cottonwood No. 3 claim on the north	Cottonwood area, west of Blanding, Utah NE/4 SE/4 sec. 4, T37S, R21E	3/1/53 to 9/23/54	1953 1954 TOTAL	616 537 1,153	0.25 0.17 0.21	1.51
ML-37	C-CW-25	Block 8 (Club Mesa)	Club Mesa W/2 W/2 sec. 5 and E/2 E/2 sec. 6, T47N, R17W	5/1/53 to 5/1/58	1954 1955 1956 1957 1958 TOTAL	6,735 13,162 9,229 8,555 1,724 39,405	0.42 0.38 0.23 0.37 0.23 0.35	1.76
ML-38	C-AM-19	Block C (Dolores Bench)	Atkinson Mesa Dolores Bench, north of Uravan W/2 NE/4 sec. 24, T48N, R18W	5/15/53 to 2/1/54			NO PRODUCTION	See ML-47 This lease was changed to ML-47 due to death of one of the partners
ML-39	C-AM-19	Block A (Atkinson Mesa)	Atkinson Mesa E/2 NE/4 sec. 24, T48N R18W	5/15/53 to 3/31/62	1954 1955 1956 1957 1958 1959 1960 1961 1962 TOTAL	1,210 6,459 8,158 14,560 21,458 17,824 20,754 21,492 23,088 135,003	0.48 0.24 0.30 0.26 0.26 0.28 0.32 0.28 0.30 0.28	1.61

TABLE 3 (Cont.)

Former Mining Number	Current Lease Unit Number	Property Name	District(s) Group Name(s) Location	Duration of Lease Production	Calendar Year	Dry Tons	% U ₃ O ₈	% V ₂ O ₅	Comments
ML-40	Restored	Lease Block In Cottonwood District	Cottonwood District, west of Blanding, Utah sec. 10, T37S, R21E	6/20/53 to 6/20/54	1952 1953 TOTAL	1,391 47 1,438	0.18 0.14 0.17	1.70	This lease was re-stored to standard claiming procedures
ML-41	C-CM-24	South 670 ft of SE/4 sec. 29, T48N, R17W with certain lands excepted	Club Mesa Near Shamrock Group SE/4 sec. 29, T48N, R17W	11/1/53 to 11/1/55	1954 1955 TOTAL	793 1,035 1,828	0.25 0.19 0.21	1.31	See ML-26
ML-42	C-SR-13	Dan	Slick Rock District SW/4 sec. 30, T44N, R18W	11/15/53 to 11/15/54	1954 TOTAL	14 14	0.23 0.23	1.45	
ML-43	C-SR-16	Charles T. No. 2 & 4	Slick Rock District Charles T. Group SW/4 sec. 10, T43N, R19W	11/15/53 to 11/15/57	1953 1954 1955 1956 1957 1958 TOTAL	40 762 555 497 385 7 2,255	0.27 0.33 0.25 0.15 0.12 0.11 0.23	1.54	
ML-44	C-SR-14	Canyon View, Grants, Black Fox	Slick Rock District Upper Group SW/4 sec. 5, T43N, R18W	11/15/53 to 12/31/57	1953 1954 1955 1956 1957 1958 TOTAL	128 3,232 2,301 802 922 305 7,690	0.33 0.29 0.33 0.32 0.26 0.10 0.30	1.86	

ML-45 was terminated
12/1/54

1953	33	0.22
1954	313	0.14
TOTAL	346	0.15
		1.45

Slick Rock District
Near Golden Rod Group
NW/4 sec. 14 and NE/4
NE/4 sec. 15, T43N,
R19W

C-SR-16 Sunflower
C-SR-16A Pretty Boy, Bush Nos.
6 & 7

ML-45

See ML-12

1954	1,006	0.56
1955	4,586	0.42
1956	4,532	0.35
1957	6,371	0.33
1958	7,513	0.26
1959	3,782	0.22
1960	2,379	0.22
1961	6,115	0.25
1962	6,266	0.25
TOTAL	42,330	0.30
		1.55

Slick Rock District
Georgeto Group
NW/4 NW/4 sec. 30,
T44N, R18W

C-SR-13A Veta Mad, Veta Glad

ML-46

See ML-58

1954	2,045	0.43
1955	9,885	0.38
1956	12,441	0.32
1957	17,201	0.31
1958	21,899	0.29
1959	20,662	0.30
1960	20,565	0.28
1961	15,567	0.25
1962	12,648	0.26
TOTAL	132,884	0.30
		1.43

Atkinson Mesa
Dolores Bench, north
of Uravan
W/2, NE/4 sec. 24,
T48N, R18W

C-AM-19 Block C (Dolores Bench)

ML-47

See ML-22

1954	194	0.21
1955	9	0.18
TOTAL	203	0.21
		2.56

Slick Rock District
West of Golden Rod
Group
SW/4 sec. 11 and NW/4
sec. 14, T43N, R19W

C-SR-16A Neomie D., Neomie D.
Angle, Fraction No. 1
(part)

ML-48

TABLE 3 (Cont.)

Former Mining Lease Number	Current Lease Unit Number	Property Name	District(s) Group Name(s) Location	Duration Of Lease Production	Calendar Year	Dry Tons	U-308	V-205	Comments
ML-AT(05-1)-36	C-G-26A	Matchless, Queen of the Hills, Calamity Claims	Gateway District Outlaw side of Calamity Mesa and Maverick Group	4/13/49 to 4/24/61	1949	1,790	0.59		
	C-G-27	Neglected, Calamity 14, Calamity 15 (Calamity Mesa)			1950	10,695	0.41		
					1951	9,677	0.50		
					1952	8,531	0.61		
					1953	11,348	0.43		
					1954	10,715	0.41		
					1955	11,145	0.33		
					1956	9,577	0.38		
					1957	7,422	0.32		
					1958	3,541	0.42		
					1959	3,473	0.34		
					1960	524	0.21		
					TOTAL	88,438	0.42	1.80	
ML-AT(05-1)-305	Dropped	Cove Mesa and other Navajo tracts of the Wade-Curran Lease	Northeastern Arizona Navajo Reservation	1/13/49 to 6/30/58	1948	10	0.18		Lease was dropped
					1949	3,554	0.14		
					1950	664	0.21		
					1951	931	0.20		
					1952	632	0.24		
					1953	1,242	0.32		
					1954	2,696	0.30		
					1955	2,553	0.29		
					1956	5,875	0.21		
					1957	4,175	0.19		
					1958	3,492	0.22		
					1959	3,632	0.25		
					1960	2,430	0.22		
					1961	695	0.21		
					TOTAL	32,381	0.22	1.63	
ML-AT(05-1)-526	C-G-27	Outlaw Mesa G-1	Gateway District Outlaw Mesa	7/10/50 to 7/22/60	1950	1,630	0.37		
	C-G-27A	Outlaw Mesa G-2			1951	15,811	0.34		
					1952	19,417	0.30		
					1953	17,780	0.27		
					1954	15,472	0.28		
					1955	15,836	0.24		
					1956	11,820	0.20		
					1957	6,268	0.16		
					1958	26,060	0.19		
					1959	27,205	0.22		
					1960	7,098	0.19		
					TOTAL	165,397	0.25	1.09	
					GRAND TOTAL	1,252,000	0.29	1.63	(rounded)

Alphabetical and Numerical List of Occurrences by County

Archuleta	1	Sunetha Claim Group (Sunetha Anticline)
Bent	1	Allen Jones Property
	2	G. R. Acton Property
	3	Unknown No. 1
Boulder	1	Argo
	2	Bat Claim No. 1 (Corona Mine)
	3	Bell Group
	4	Black Cloud
	5	Blue Jay (Mill Tailings)
	6	Brown Spar
	7	Burlington
	8	Caribou Mines (Radium, Elmer and Nelson Veins)
	9	Cerite Prospect
	10	Cloud City (Virginia, Bob, Marilyn)
	11	Copper Blush
	12	Diamond Group
	13	Emmet
	14	Energy
	15	Fairday (Faraday, Collowa, Overland Mountain Group)
	16	Fox Hills Outcrop
	17	Gibson
	18	Gold Lake Claims
	19	Golden Age
	20	Golden Reward
	21	Goldsmith Maid
	22	Grand View Lode
	23	Horseshoe Lode
	24	King Tunnel
	25	Kipp Lease
	26	La Salle Claims
	27	Ladybug Claim (Suzebell, Thunderbolt)
	28	Lease Tailings Pond (Stattendale Dump)
	29	Lehman Lode
	30	Lewis Lode
	31	Lucky Lode
	32	Lulu B. (Victory and Gold Leaf Lodes)
	33	Marc 1
	34	Marion Mill
	35	Miller Lease (Miller Group, Kipp Property)
	36	Miranda A. Johnson Lode
	37	Mountain Goat (Mountain Goat Claim No. 1)
	38	Nations Treasure
	39	No Scoop Claim
	40	North St. Vrain Uranium
	41	Orion
	42	Poorman
	43	Pueblo Belle Mine
	44	Rose Mary 3
	45	Shirley Mine
	46	Sisk Property
	47	Terror-Roseberry
	48	Unknown 1
	49	Unknown 2
	50	Unknown 3
	51	Unknown 4
	52	Unknown 5
	53	Victory
Chaffee	1	Clara May Pegmatite Quarry
	2	Cosmo Claims No. 1 and 2
	3	Gold Bug Claim
	4	Josephine Mine
	5	Little Jimmie 5
	6	Lucky Break Placer (Lucky Break Iron Mine)
	7	Lucky John 2
	8	Madonna Mine
	9	Mica Beryl Claims (Falfar, Gray Hen)
	10	Mount Antero Pegmatites
	11	Newett (Trout Creek, View No. 2, Lucky Jack)

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Chaffee	12	No. 8
	13	Once Again Claim
	14	Pegmatite Quarry
	15	Pegmatites
	16	Ramsey Mines
	17	Silver Crop Mine
	18	Swiss Boy Mine
	19	Unnamed 1
	20	Unnamed 2
	21	Unnamed 3
	22	Yard Mine
Cheyenne	1	Unnamed 1
Clear Creek	1	Alma-Lincoln
	2	Almaden-Blazing Star Tunnel
	3	Alpine Mine
	4	Argo
	5	Arladne
	6	Baltic Tunnel
	7	Beaver Brook
	8	Belle Creole Mine
	9	Bellevue-Rochester
	10	Big Chief
	11	Blameless Mine
	12	Bonanza
	13	Brazil Mine
	14	Cleveland Tunnel
	15	Conqueror Mine
	16	Crazy Girl
	17	Diamond Mountain Mine (Glucky)
	18	Elizabeth M. Lode (Daisey Freeze Claim)
	19	Ella McKinney
	20	Golconda
	21	Gold Anchor
	22	Gold Chloride Mine
	23	Golden Calf Mine
	24	Golden Glen
	25	Gomer Mine
	26	Grover
	27	Highland Lassie Tunnel
	28	Highlander
	29	Hill Top Claims
	30	J. C. Vol Claim
	31	Jo Reynolds
	32	Kitty Emmet
	33	Lake Central Project
	34	Lamartine Tunnel
	35	Lelew No. 1
	36	Little Cub Mine
	37	Little Warrior 1-A (April Fool 1-4, Little Warrior No. 7,
	38	Lone Star (Magic Radon)
	39	Lucania Tunnel
	40	Lucky Strike Claims
	41	M and E Mine
	42	Major C. and Little Colonial
	43	Martha E Mine (Elizabeth M Lode)
	44	Miller Tunnel
	45	Muscovite Mine
	46	New Era
	47	Old Settler Tunnel
	48	Peabody Mine
	49	Polar Star Mine
	50	Robingau Claims
	51	Silverline Mine
	52	Spanish Bar
	53	Standard Mine
	54	Stanley Mines
	55	Star Mine
	56	Sunnyside Tunnel

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Clear Creek	57	Two Brothers Tunnel	
	58	Unknown 1	
	59	Unknown 2	
	60	Unknown 174	
	61	Unknown 357	
	62	Unknown 358	
	63	Unknown 406	
	64	Unknown 419	
	65	Unknown 428	
	66	Unknown FR-118	
	67	Unknown FR-75	
	68	Unknown FR-78	
	69	Unnamed 3 (Mine Dump No. 1)	
	70	Unnamed Mine 4 (Mine Dump No. 2)	
	71	Urad Mine	
	Conejos Costilla	1	Shirley Rae
		1	Black Jack No. 2
		2	Loco Alice Prospect Prospect (Trinchera Ranch)
		3	Unnamed 1
	Crowley Custer	1	Unnamed No. 1
1		18, Airborne Anomaly	
2		Anna Lee (Anna Lee Lode)	
3		Barite Lode 2	
4		Beck Mountain (Beck Mountain Lode)	
5		Big Chief 1 (Star Mine)	
6		Bull Domingo Mine	
7		D. P. Van Nouhuys Property	
8		Damn Fool (see Hopeful 1-3, King Midas 1-25, Macho 1-20,	
9		Darby Extension (Derby Extension)	
10		Fair View Lode	
11		Floyd Watters (Watter's Ranch, Mundy Claim, Lewis C. Mundy,	
12		Franklin Mine (Frankland Mine)	
13		G. W. and Antrim Claims	
14		Gold Crown 2	
15		Hardin Claim Group	
16		Horn Peak Claims (Little Horn Peak Claims, Reese Claims,	
17		John Spalding	
18		King Midas and Bonanza Claims (King Midas No. 8)	
19		Lee Jones Ranch	
20		Lucky Find (Lucky Strike)	
21		Mystery Lode	
22		Nightengale Claim (Atomic Mountain Group, Nightingale,	
23		Pennie Poker	
24		Rare Earth Special 1, 2, 4	
25		Sewell Ranch	
26		Sunshine Valley Lode	
27		Swartz Ranch (Unnamed)	
28	Thorite Mother Lode 1, 4		
Delta	1	Austin Springs	
	2	Colonel Chinn Artesian Well	
	3	Doughty Spring	
	4	Geysers (Lucky Strike Claims 1 - 30)	
	5	Hotchkiss National Fish Hatchery	
	6	L. B. Wyman Property	
	7	Little U Claims	
Dolores	8	Sulfur Gulch	
	1	Arrow Head (Arrowhead Group)	
	2	Barlow Group (Barlow Creek)	
	3	Black Hat (Legion Group)	
	4	Blue Eagle 1	
	5	Blue Eagle Mine	
	6	Broken Thumb 2 (Bottle & Jug)	
	7	Rainy Day (Pack Rat)	
	8	Rico Argentine Mine (Rico Argentine Mining Company,	
	9	Silver Swan	
Douglas	10	South Barlow	
	1	Highland Ranch (Airborn Anomaly No. 1, Phipps Ranch)	
	2	Kaminski Prospect	
	3	Penley No. 1 Lease	

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

- | | |
|-------------------|---|
| Eagle | <ul style="list-style-type: none"> 1 Arrowhead 1 2 Blue-Bell (Lady Bell, Ground Hog 1, Black Eagle Lode, G 3 Dorado Claims (Little Spring Claims, Golden Fleece, Gringo 4 Dortha 1 5 Horse Mountain Uranium Mines 6 Lone Tree Claims 7 Lucky Strike 1 8 Rock Hat Claim 9 Tipton Ranch 10 Unnamed 1 11 Unnamed 2 12 Unnamed 3 13 Unnamed 4 |
| El Paso | <ul style="list-style-type: none"> 1 17, Airborne Anomaly 2 B. F. Reed Claim 3 Bluebird 4 Burgess Claim 5 Dorothy O. Claim 6 Duffields Property (Duffields Deposit, Leyte Claim) 7 Folbre 2 8 Mike Doyle Carnotite Deposit (Lucky Ben Lease) 9 Mobil Oil Corporation Drill Hole 2 10 Mobil Oil Corporation Drill Hole 1 11 Morris Prospect (Antonita Valjean) 12 Rock View Claim 13 St. Peter's Dome 2 14 St. Peter's Dome 1 15 Unnamed 1 16 Unnamed 2 |
| Elbert
Fremont | <ul style="list-style-type: none"> 1 Limon Locality 1 A. E. Jones Claim (Taylor Soda Springs) 2 A. Griffin Ranch 3 Ant Claims 4 Barbara Claims (True Blue No. 1 Claim, Oliver No. 1 Claim) 5 Beaver Creek 6 Big Bear (Big Hole, Cactus Claims) 7 Bill and Bud 2 and 4 8 Brandt Claims 9 Brown Lava Lode (Pink Lady) 10 Cap Rock Claims (Cap Rock 40) 11 Claim 2 12 Colexco No. 1-43 (Red Cliff 30) 13 Conac Minerals, Inc. Mining Claims (Wagner-Grape Creek Lode) 14 Copper Gulch 15 D-C Claims (Owl Claims, Samargar No. 7 Claim of Karl) 16 Deer Ridge Claim 17 Dickson-Snooper Mine (Ponderosa, Rainbow-Moose Ore Bodies) 18 Dillee Lease (Dillee Ranch) 19 East Big Wash (Sputnik No. 1) 20 Felch Creek 1 21 First Chance 22 Good Hope Dreamer (Dreamer Mine, Dreamer, Delano No. 5-12, 23 Gunnison School Section Mine (Colorado Lease 519, Section 24 Hanson Ore Body 25 Hilltop Prospect 26 Homestake 2 & 6 Claims 27 Hoyt Adkins Ranch Anomaly 3 28 James-Taylor Lease (Spring Valley) 29 Jesus Lode 30 Joan 2 Mine (Seattle Chief Mine) 31 Knob Hill Mine (Dipper Mine, Knob Hill OS, Knob Hill Ore 32 Last Chance 33 Lightning 2 (DAC Uranium, Lightning No. 1-8, Honest John 34 Little Abner Mine 35 Mary L. (Mary L. 1-6 Claims) 36 Misery Mines (Red Hill?, Tanner Boy Group?, Joe & Bob 37 Nava Jo (Big Emma) 38 Perry DeLeillis Claim 39 Picnic Tree Mine (Picnic Tree Claims - Hall Homestead) |

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

- Fremont 40 Pine Canyon Lode (Southmost Claim Group)
 41 Rupp Property (Raup Mine 39)
 42 Sand Creek Claims
 43 School Section
 44 Section 36 Mine (Glen Williams Mine)
 45 Shella 1
 46 Smaller Lease
 47 Sunrise Claims 1, 2, 3 (StInkhole Claims)
 48 Sunshine Claims
 49 Tanner Boy Group (Red Hills Group)
 50 Texas Creek
 51 Thome Claims (Thome 1-14)
 52 Unnamed 1
 53 Unnamed 2
 54 Unnamed 4
 55 Unnamed 5
 56 Willis Tuttle
- Garfield 1 Atlas Minerals Corporation Property
 2 Elk Van Tunnel and UV Claims (UV and Elk Van Claims)
 3 End of Trail 1 & 2
 4 Enterprise 1, 2, 3
 5 Garfield Mine
 6 Homestake Mine
 7 Incorporated 1, 2, 3 & 4
 8 Lottl B (Lottl 1-3, Canary, Canary 2 & 3)
 9 Marvola Lode 1-14 (Marvol)
 10 Revelation Group
 11 Rifle Mine (Rifle Creek Mine, Oriole Claims, and North Star
 12 Schulte 1 - SW1/4, Test Well
 13 Ward Gulch
- Gilpin 1 Ashland Mine
 2 Big Bertha Prospect
 3 Black Hawk 2 Claim
 4 Bowman Lease
 5 Buckley Mine
 6 Bullion
 7 Carrol Mine (Carrol, Spur-Daisy Group, Central City,
 8 Cherokee Mine
 9 Copper Queen (Copper King?)
 10 E & H-Jelly Roll Mine
 11 Elliot Mine (Wealthy Lode Mining Claim, Wealthy Lode Claim)
 12 Flack No. 3 Mine (Kirk Mine)
 13 German and Belcher
 14 Gold Chief Mine
 15 Gold-Spring Group
 16 Golder - Passarella Claims
 17 Iron Mine (Pewabic-Iron)
 18 J. P. Whitney
 19 James Peak Anomaly (Tucker #1)
 20 Priscilla Claim (Priscilla Group Claims, Priscilla, Dorothy,
 21 Root Ranch Lease
 22 Smith Hill Gulch Prospect
 23 Spread Eagle (Queen)
 24 Telegraph Mine
 25 Two Sisters Claim (Two Sisters Group)
 26 Unnamed 1
 27 Wood Mine (East Calhoun Mine, Calhoun-Wood)
- Grand 1 Alaska-Humes Group
 2 Corral Creek Occurrence
 3 CPJ Claims (Lucky Jack Prospect)
 4 Engles-Yust Property (Engals Ranch)
 5 First Chance
 6 Jerome Claims (Alkalie Flat Spring)
 7 Julie Johnson 1
 8 Lease #011850
 9 Limestone Occurrence
 10 Lucky Strike 5

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

- Grand
- 11 Lucky Strike Claims
 - 12 Lynn No. 1
 - 13 No Name Claims
 - 14 Phillips 1
 - 15 Phillip Stafford Property
 - 16 Pickering
 - 17 Tucker Mine
 - 18 Undecided Claims (Beaver Group 1-20)
 - 19 Unnamed 2
 - 20 Unnamed 3
 - 21 Unnamed 5
 - 22 Unnamed 7
 - 23 Unnamed 8
 - 24 Unnamed 9
 - 25 Unnamed 10
 - 26 Unnamed 11
 - 27 Unnamed 14
 - 28 Unnamed 15
 - 29 Wheeler Basin (Bennett Mine)
- Gunnison
- 1 Atlantic Richfield Drill Hole
 - 2 Badger 1
 - 3 Big Red 22
 - 4 Big Red 39
 - 5 Black Mica Company?
 - 6 Brown Derby Mine
 - 7 Brush Creek Group (Brush Creek Mining Co.)
 - 8 Buzzard's Roost (Pento)
 - 9 Czar 3
 - 10 Grayjeep Group
 - 11 Jacks Cabin Area (North Star Claims)
 - 12 Jeanie 6 & 2
 - 13 Jenny Claims
 - 14 Lady In Red Shaft (Lady In Red No. 5)
 - 15 Little Indian No. 36
 - 16 Little Johnnie 1 and 2
 - 17 Matchless Group
 - 18 May Queen
 - 19 Mrs. Roberts Deeded Land
 - 20 North Star Group
 - 21 Saverne
 - 22 Silent Friend
 - 23 Sunset Claims
 - 24 Surefire Mining Claims
 - 25 Ten Mile Group (Claims 1, 2, 3, Holman Claims)
 - 26 Wayne Wright Propsect (Adair Group, Dubois Mine)
- Hinsdale
- 1 Bess
 - 2 Beth Group
 - 3 Eagle Claims 1-5 (Eagle, Mary Alice)
 - 4 Golden Fleece
 - 5 Jody Claims 1-5 (Belson-Gibfrey Claim, Ranger No. 2 Claim)
 - 6 Nellie M Mine
 - 7 Rio Grande Claims 1-10
- Huerfano
- 1 Anal No. 1, (Security Exploration Company Claim, Buckhorn,
 - 2 Badito Cone (Stumbling Stud Mine)
 - 3 Bel Aire Claims (Bel Aire 1-6)
 - 4 Black Jack 2 (Black Jack 1-9)
 - 5 City Slicker Claim
 - 6 Columbine Hills
 - 7 Dallas Dottle
 - 8 Delz Ranch
 - 9 Hall Property (School Section)
 - 10 Independent Claim
 - 11 Isabell Group
 - 12 McGuire
 - 13 McGuire Lode (C.E. Wilson Property)
 - 14 McIntire Property
 - 15 Muleshoe (La Yeta Pass)
 - 16 Parks Lode Claim
 - 17 Red Canyon

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

- | | | |
|-----------|----|---|
| Huerfano | 18 | Santa Rosa Claim |
| | 19 | Spanish Peaks |
| | 20 | Virginia-Verna 1-6 |
| | 21 | Washout Claim (Price Ranch) |
| | 22 | Whitecliff 1-26 |
| Jackson | 1 | Bear Creek Mine |
| | 2 | Crystal Fluorspar Mine |
| | 3 | Fielder Prospect |
| | 4 | Fred Brad's Ranch (Spring Claims) |
| | 5 | James Bird Prospect |
| | 6 | Pedad Claims Nos. 1-5 |
| | 7 | Sample No. 7 |
| | 8 | Sheep Mountain Prospect |
| | 9 | Simmons |
| Jefferson | 1 | Appel Lease |
| | 2 | Ascension Mine (Nair Prospect, Nare Lease) |
| | 3 | Aubrey Ladwig Mine (Aubrey Ladwig Lease, Gary Mine) |
| | 4 | Babcock Prospect (Ralston Buttes Uranium Mining Co.) |
| | 5 | Bankers Lode Claim |
| | 6 | Billiken Lode |
| | 7 | Bonzo 1 |
| | 8 | Borazetti Property |
| | 9 | Bray Lease |
| | 10 | Brereton Prospect |
| | 11 | Buckman Property (Golden Gate Canyon No. 2) |
| | 12 | Cervi Lease |
| | 13 | Coors Pegmatite |
| | 14 | F.M.D. Mine |
| | 15 | Fork Prospect |
| | 16 | Gilpin Mine |
| | 17 | Grapevine Mine (Grapevine 1 and Grapevine Lease) |
| | 18 | Grosso |
| | 19 | Hidden Treasure Group |
| | 20 | Ladwig 1 (Ladwig 2 Prospect) |
| | 21 | Ladwig 2 & 3 |
| | 22 | Lindsay Clay Mine |
| | 23 | Little Patsy (Oregon 1 - 3?) |
| | 24 | Mann Ranch (Mann Mine, Vanadium Queen) |
| | 25 | Mena Mine (Hoffmeister Homestead Prospect, Black Judge) |
| | 26 | Morrison Lime |
| | 27 | Noack Pegmatite |
| | 28 | North Star Mine |
| | 29 | Ohman Mine (Nare Lease) |
| | 30 | Old Leyden Mine (Old Leyden Coal Mine, Leyden Mine) |
| | 31 | Oregon 1, 2 & 3 (Little Patsy) |
| | 32 | Pallaora Lease (Morrison Mine, Four Corners) |
| | 33 | Quatman Lease |
| | 34 | Schwartzwalder Mine (Ralston Creek Mine) |
| | 35 | Shale Prospect |
| | 36 | Stevenson Prospect |
| | 37 | Stone Placer (7 Devils Prospect) |
| | 38 | Sunrise Peak Pegmatite |
| | 39 | Union Pacific Prospect 2 |
| | 40 | Union Pacific Shaft (Union Pacific Prospect) |
| | 41 | Unnamed 1 |
| | 42 | Unnamed 2 |
| | 43 | Unnamed 3 |
| | 44 | Unnamed 4 |
| | 45 | Unnamed 5 |
| | 46 | Unnamed 6 |
| | 47 | Unnamed 7 |
| | 48 | Wright Lease (Foothills Mine) |
| La Plata | 1 | Black Hawk |
| | 2 | Cape of Good Hope |
| | 3 | Good Hope-Nevada Group |
| | 4 | Lucky Lepracon |
| | 5 | Schafer Ranch |
| | 6 | Shorty Lode |
| | 7 | Texarado Oil Uranium Co. |
| | 8 | Thunder Mountain (Florida Mountain) |
| | 9 | Tomahawk Mine |

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

- | | | |
|------------|----|---|
| La Plata | 10 | Tripp Gulch Property |
| Lake | 1 | Eclipse Mine |
| | 2 | Griffin Mines |
| | 3 | Huckleberry Mine |
| | 4 | Josie May |
| | 5 | Rosse Tunnel |
| | 6 | Turquoise Chief (Poor Boy) |
| | 7 | Unnamed 1 |
| | 8 | Unnamed 2 |
| | 9 | Unnamed 3 |
| | 10 | Unnamed 4 |
| | 11 | Unnamed 5 |
| | 12 | Unnamed 6 |
| | 13 | Unnamed 7 |
| | 14 | Unnamed 8 |
| | 15 | Wilkesbarre Mine (Wilkes Barre Tunnels) |
| Larimer | 1 | A. L. Stein Ranch (Stein Ranch) |
| | 2 | Batterson Lode |
| | 3 | Big Boulder Prospect (Boulder Rock) |
| | 4 | Carter Lake |
| | 5 | Copper King Shaft (Cherokee Mines, Ismert Property, Black |
| | 6 | Estes Bell (Hilltop) |
| | 7 | Eureka Group |
| | 8 | Hide Above Lode |
| | 9 | Hyatt Ranch |
| | 10 | Lucky Strike Claims |
| | 11 | New Hope Claims |
| | 12 | Red Head Claim |
| | 13 | Robinson Ranch and Boy Scout Camp |
| | 14 | Sheep Creek Prospect |
| | 15 | Soda Springs Group (1-8) |
| | 16 | Spring Claim (Revis Claim, Unnamed Claim, Spring 1 Claim) |
| | 17 | Unnamed Radioactive Spring 1 |
| | 18 | Uranium Queen (Red Hill, Red Hill 1) |
| | 19 | Wahketa Lease (Wahketa Mine) |
| Las Animas | 1 | 16, Airborne Anomaly (B-4-1-1954) |
| | 2 | Booster Claim 1 |
| | 3 | Cliff Martin Claims |
| | 4 | Dave Welsh Claim |
| | 5 | Fan Dyke No. 1 (Fan Dyke 1-15, 17-22; Phebolite 1-8) |
| | 6 | Mike's Mine |
| | 7 | Morning Star 1 |
| | 8 | Unnamed 1 |
| | 9 | Virginia 14 |
| Logan | 1 | Unnamed 1 |
| Mesa | 1 | 31, AEC Mining Lease (Reserve Block 4, Blue Creek Mesa) |
| | 2 | 34, AEC Mining Lease (C-G-26A, DOE Lease Tract) |
| | 3 | Ajax 1 Mine |
| | 4 | Ajax Mine |
| | 5 | Arrowhead 1 & 7 (Arrowhead No. 7) |
| | 6 | Arrowhead 4 |
| | 7 | Arrowhead 5 |
| | 8 | Arrowhead 8 |
| | 9 | Arrowhead 10 |
| | 10 | Arrowhead 11 |
| | 11 | Arrowhead 13 (Arrowhead No. 25) |
| | 12 | Arrowhead 14 |
| | 13 | Arrowhead 16 |
| | 14 | Arrowhead 17 |
| | 15 | Arrowhead 18 |
| | 16 | Arrowhead 19 |
| | 17 | Arrowhead 20 & 20 A |
| | 18 | Arrowhead 21 |
| | 19 | Arrowhead 22 |
| | 20 | Arrowhead 25 |
| | 21 | Arrowhead 26 |
| | 22 | Arrowhead 27 |
| | 23 | Arrowhead 28 |

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Mesa

- 24 Arrowhead 29 (OS)
- 25 Arrowhead 30
- 26 Arrowhead 33
- 27 Arrowhead 34
- 28 Arrowhead Incline 6
- 29 Arrowhead Incline 2
- 30 Arrowhead Incline 12 & 23 (Arrowhead Incline No. 23)
- 31 Arrowhead Incline 24
- 32 AT (05-1)-526, AEC Mining Lease (C-G-27, DOE Lease Tract,
- 33 AT(05-1)-36, AEC Mining Lease (C-G-26A and C-G-27, DOE Lease
- 34 Atlas 1,2,3 (Lone Mesa No. 7, Atlas-Lone Mesa No. 1)
- 35 Austin Mine (Austin and Austin Adit)
- 36 Banco 1-7
- 37 Bar-W-Bar Claims 1-16
- 38 Belmont 1 & 2
- 39 Bessie Group (Jerry Kay)
- 40 Big Indian Lease
- 41 Big Maverick (Juanita Group)
- 42 Big Seven (AEC Mining Lease 31, Reserve Block No. 4)
- 43 Black Mama (Nigger Baby)
- 44 Black Mesa
- 45 Black Rock 2 (Black Rock No. 1 - 20)
- 46 Black Streak (Black Streak - Yellow Bird, Black Jumbo)
- 47 Blackbird
- 48 Blue Canyon
- 49 Blue Creek
- 50 Blue Mesa View
- 51 Blue Ribbon 1 Incline
- 52 Blue Ribbon 3
- 53 Blue Ribbon #7
- 54 Blue Ribbon 17
- 55 Blue Ribbon 32
- 56 Blue Ribbon Group (Blue Ribbon No. 2)
- 57 Bluebird (Blue Bird)
- 58 Bluebird Dump (Blue Bird Dump)
- 59 Bonanza 2 (Bonanza No. 2 and 4, E 1/2)
- 60 Bonanza 3
- 61 Bonanza 5 (Bonanza # 4, 5, 7)
- 62 Bonanza 6
- 63 Bonanza Shaft
- 64 Bonnie
- 65 Buckhorn Claims
- 66 Bud 1 (Outside Sales)
- 67 Buena Vista
- 68 Bulck (Bujan Mine)
- 69 Burcar Mines
- 70 Calamity 1 (AT(05-1)-36), AEC Mining Lease)(C-G-26, DOE
- 71 Calamity 2 (AT(05-U-36, AEC Mining Lease) (C-G-26, DOE
- 72 Calamity 6
- 73 Calamity 7
- 74 Calamity 9
- 75 Calamity 13
- 76 Calamity 14 (AT(05-1)-36, AEC Mining Lease)(C-G-27, DOE
- 77 Calamity 15 (AT(05-1)-36), AEC Mining Lease)(C-G-27, DOE
- 78 Calamity 16
- 79 Calamity 17
- 80 Calamity 20
- 81 Calamity 21
- 82 Calamity 27
- 83 Calamity Homestead
- 84 Calamity Mesa Dump (Queen of the Hills Dump)(AT(05-1)-36),
- 85 Calco (Cedar Cliff Group)
- 86 Captain Jack
- 87 Captain Jinks (Lumsden Group)
- 88 Cave
- 89 Cave Canyon Lode (Linda, Linda-Cave Canyon)
- 90 Cedar Pt 3 (Little Chief)
- 91 Charlie 1 & 2
- 92 Cherokee Shaft (JWL Fraction No. 1)

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Mesa

- 93 Chlco & Chlco Fraction
- 94 Cliff Dweller (Cliff Dweller 1 & 2; Cliff House 1 & 2;
- 95 C-G-26, DOE Lease Tract (Contract No. AT[05-1] - 36 and 19,
- 96 C-G-26A, DOE Lease Tract (34, AEC Mining Lease)
- 97 C-G-27, DOE Lease Tract (AT (05-1) - 36, AEC Mining Lease)
- 98 C-G-27A, DOE Lease Tract (AT[05-1] - 526, AEC Mining Lease)
- 99 Cave No. 1 Adit
- 100 Climax
- 101 Climax Residue
- 102 Coal Town Citation
- 103 Cottonwood 3 & 5 (Little Girl, Pretty Boy)
- 104 Crescent
- 105 Crows Nest (Mineral Channel Group)(Rainbow)
- 106 Cub
- 107 Dallu-Yellowbird
- 108 Deal Group (Last Chance 1-2, Black Jumbo 1, 2, and 3)
- 109 Depression Group
- 110 Depression No. 6
- 111 Depression No. 2 & 3
- 112 Depression No. 4 & 5
- 113 Drum Dust
- 114 Durango No. 2
- 115 Economy
- 116 Elizabeth 17 & 18
- 117 Elizabeth No. 7, 8, 9, 10
- 118 Emerson (Blair, Bluebird, Jumbo)
- 119 Flat Top
- 120 Ford & Fordo Claim Group (Cat Track) (Fordo 6)
- 121 Fountain of Youth
- 122 Fraction
- 123 G-1
- 124 Gateway Tailings
- 125 Gilmore Lode (Lumsden Group)
- 126 Gladys 1-4
- 127 Great Hesper (AT(05-1)-36), AEC Mining Lease)(C-G-26A, DOE
- 128 Hanson-Negus (Hanson Dump)(C-G-27A, DOE Lease Tract)
- 129 Harvey-Pick & Shovel
- 130 Hidden Treasure Shaft (AT-05-1)-36, AEC Mining Lease) and
- 131 Hole 24
- 132 Homestead Patent
- 133 Hope 1 to 4
- 134 Hubbard Homestead and Pack Rat (Shakin Quakle)
- 135 Humdinger
- 136 Hummer (AT(05-1)-36), AEC Mining Lease) and (C-G-26A, DOE
- 137 Incline 1 G 1 (AT[05-1]-526, AEC Mining Lease; now
- 138 Incline 2 G 2 (Now C-G-27A, DOE Lease Tract)
- 139 Incline 3 G 3 (Now C-G-27, DOE Lease Tract)
- 140 Incline 4 G 4 (Now C-G-27, DOE Lease Tract)
- 141 J. W. Lewis (Larsen 1-13, Sampson 1-9)
- 142 J.W.L. Fraction 2
- 143 J.W.L. Fraction 3
- 144 J.W.L. Fraction (Cherokee Shaft)
- 145 Jean 1, 2, & 3
- 146 Jody Group
- 147 Joe
- 148 John Brown
- 149 John Brown 14 & 15 (John Brown Extension, Duffy, Duffy
- 150 John Brown No. 18 (John Brown 16-19; John Brown Annex)
- 151 John Brown No. 21
- 152 Johnnie Mae 2
- 153 Johnnie Mae 3
- 154 Ju Dee 1
- 155 July
- 156 Jumbo 1
- 157 Kanarado 3
- 158 Karns Incline
- 159 King Solomon
- 160 Klondike
- 161 La Plaz 1

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

- Mesa
- 162 La Sal
- 163 La Sal Group (La Salle Group)
- 164 La Sal No. 1 & 2
- 165 La Sal No. 4
- 166 La Sal No. 5 & 7
- 167 Larry & Leslie Claim Group
- 168 Lavada (Lavada 2-7, Mineral Jack 1-3)
- 169 Lee 1-6
- 170 Legal & Lucky Day
- 171 Liberty Bell
- 172 Lincoln
- 173 Little Johnny
- 174 Little Maverick 1, 4, 5 & 6
- 175 Locus 1, 2, & 3
- 176 Lode Claim
- 177 Log Cabin (Homestead)
- 178 Lone Peak
- 179 Look Out
- 180 Lost Dutchman 17
- 181 Lost Indian (Last Indian)
- 182 Lucky Day
- 183 Lucky Hole
- 184 Lucky K
- 185 Lucky Strike
- 186 Lumsden No. 2 & 6
- 187 Lumson 1 (Lumsden 1)
- 188 Mammoth
- 189 Mammoth-Lincoln
- 190 Mark 2
- 191 Matchless (AT(05-1)-36, AEC Mining Lease)(C-G-26A, DOE
- 192 Maverick
- 193 Maverick 6
- 194 Mesa 8
- 195 Mesa No. 5 (Outlaw Mesa)
- 196 Mill Site Lode (June)
- 197 Mineral Channel 10 & 12
- 198 Mineral Channel 3
- 199 Mineral Channel 5
- 200 Monroe 18
- 201 Montezuma
- 202 Neglected (AT(05-1)-36, AEC Mining Lease)(C-G-27, DOE
- 203 Neilson
- 204 Neilson Mother Dee
- 205 New Verde (Horn Group)
- 206 Newhiesel
- 207 October Adit
- 208 Okan
- 209 Outlaw-Economy
- 210 Pack Rat 1 & 2
- 211 Pay Lode (Pay Rock Group)
- 212 Payday 1-7
- 213 Payrock Group (Payrock No. 14 & 16, Payrock Mines)
- 214 Peach 10 Incline 1 & 2 (Peach 7)
- 215 Pond & Schubert Group
- 216 Powder Horn Incline
- 217 PPT. Concentrate
- 218 Protector
- 219 Purple Heart
- 220 Queen of the Hills (AT(05-1)-36, AEC Mining Lease) (C-G-26A,
- 221 Radium 7
- 222 Rae Marie (Rae Marie No. 3)
- 223 Rae Marie Group
- 224 Rainbow
- 225 Rajah 1
- 226 Rajah 11 & 63
- 227 Rajah 30 (Rajah 30 Incline) (Rajah 30 Shaft)
- 228 Rajah 49
- 229 Rajah 67 & 68, 61, 62, and 63
- 230 Rajah 72

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Mesa 231 Rajah No. 2
 232 Rajah No. 4
 233 Rajah No. 9
 234 Ranch View
 235 Raven 3
 236 Rena (Lost Marble)
 237 Roger, Mike, et al claims
 238 Ronnie 1 (C-G-27, DOE Lease Tract)
 239 Ronnie 2 (C-G-27, DOE Lease Tract)
 240 Rosebud
 241 Rudot 1
 242 Salute 3
 243 Scott 2
 244 Shakin Quakie
 245 Shelby Dean 2
 246 Silver Moon
 247 Small Spot
 248 Snow Shoe
 249 Spring
 250 Stormy Treasure
 251 Strobe 1
 252 Sun
 253 Sunflower (AT(05-1)-36), AEC Mining Lease)(C-G-26A, DOE
 254 Sunspot, Cloud 1, Thundercloud
 255 Supply 11
 256 Supply 14
 257 Surprise Group (Surprise No. 1-3)
 258 Teepee Pole
 259 Tenderfoot Group (Payrock Group)
 260 The Cave
 261 The Duke
 262 Thorton Tunnel (Zee Lease)
 263 Thunder Cloud No. 1 Mine
 264 Trojan 18 & 20
 265 Turner
 266 Vanadium King 1 (Vana King No. 1)
 267 Vanadium King 2 (Vana King No. 2)
 268 Wasp 1
 269 Yellow Jacket 9
 270 Yellow Jacket 2
 271 Yellow Jacket 15
 272 Yellow Jacket Incline 1
 273 Yellow Spot Group
 274 Yellowbird 1
 275 Yellowbird 2
 276 Yellowbird 3
 277 Yellowbird 5
 278 Yellowbird 6
 279 Zee Lease Rajah 49

Moffat 1 56- 1, Airborne Anomaly
 2 56- 2, Airborne Anomaly
 3 56- 9, Airborne Anomaly
 4 56-10, Airborne Anomaly
 5 56-11, Airborne Anomaly
 6 56-12, Airborne Anomaly
 7 56-13, Airborne Anomaly
 8 56-15, Airborne Anomaly
 9 56-16, Airborne Anomaly
 10 56-17, Airborne Anomaly
 11 57-10, Airborne Anomaly
 12 Agnes No. 7 Claims
 13 Airborne Anomaly
 14 B17- 15, Airborne Anomaly
 15 B17- 89, Airborne Anomaly
 16 B17- 90, Airborne Anomaly
 17 B17- 93, Airborne Anomaly
 18 B17- 94, Airborne Anomaly
 19 B17-101, Airborne Anomaly
 20 B17-102, Airborne Anomaly

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

- Moffat
- 21 B17-103, Airborne Anomaly
 - 22 B17-104, Airborne Anomaly
 - 23 B17-105, Airborne Anomaly
 - 24 B17-106, Airborne Anomaly
 - 25 B17-107, Airborne Anomaly
 - 26 B17-108, Airborne Anomaly
 - 27 B17-109, Airborne Anomaly
 - 28 B17-110, Airborne Anomaly
 - 29 B17-111, Airborne Anomaly
 - 30 B17-112, Airborne Anomaly
 - 31 B17-113, Airborne Anomaly
 - 32 B17-114, Airborne Anomaly
 - 33 B17-115, Airborne Anomaly
 - 34 B17-117, Airborne Anomaly
 - 35 B17-118, Airborne Anomaly
 - 36 B17-119, Airborne Anomaly
 - 37 B17-120, Airborne Anomaly
 - 38 B17-121, Airborne Anomaly
 - 39 B17-122, Airborne Anomaly
 - 40 B17-123, Airborne Anomaly
 - 41 B17-124, Airborne Anomaly
 - 42 B17-125, Airborne Anomaly
 - 43 B17-126, Airborne Anomaly
 - 44 B17-127, Airborne Anomaly
 - 45 B17-128, Airborne Anomaly
 - 46 B17-129, Airborne Anomaly
 - 47 B17-130, Airborne Anomaly
 - 48 B17-95, Airborne Anomaly (Cedars Mining Company Claim)
 - 49 B17-96, Airborne Anomaly (Cedars Prospect, Cedars Mining)
 - 50 Biles' Shaft
 - 51 Bimbo 1
 - 52 Blue Mountain Group (Blue Mountains 4, Skull Creek)
 - 53 Bob Cat Group
 - 54 Bozo No. 1 (CRIB Unnamed)
 - 55 Breadline
 - 56 Buffalo Head Prospect (Buffalo Head Mining Co. Claim No. 6)
 - 57 Butler Lease
 - 58 Cacey Machelheny Claims
 - 59 Carol J. Claims
 - 60 Claim 1
 - 61 Cleeta Group
 - 62 Coal Ridge
 - 63 Doc Armor Mine
 - 64 Epsilon Claims No. 3, (56-14, Airborne Anomaly)
 - 65 Eskridge Property
 - 66 Farnsworth Uranium Deposit (Housel Gulch Placer, Pardner,
 - 67 Fly Claims (Iles Formation)
 - 68 Gertrude Mine (Gertrude No. 5 and No. 6 Claims)
 - 69 Glory Bee
 - 70 Golden Grain Claims
 - 71 Hazel Whetstone Property
 - 72 Hex Claims
 - 73 Hudson Claim Group
 - 74 Humming Bird Claim (B17-100, Airborne Anomaly)
 - 75 Iron and Copper Claims
 - 76 John D. 11 & 12
 - 77 John D. 8 & 9
 - 78 Johnson Lease (Johnson MCS)
 - 79 Lay-Governor Groups
 - 80 Leon Claims
 - 81 Little Snake No. 2 (B17-36, Airborne Anomaly)
 - 82 Little Star (Little Star Claims, CRIB Unnamed)
 - 83 Lucky Boy (Lucky Claim)
 - 84 Magpie Mine
 - 85 Marge Mine (Marge 1-5, Maybell 1 & 2, Baba 1-3, Bessie 1-3,
 - 86 Olds Claim Group (Olds Group of Claims)
 - 87 Orr Claims (Orr and T and L Claims, Orr Et Al Claims)
 - 88 Oscar No. 1 Claim
 - 89 Owl Group

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

- Moffat 90 Rob Rollo
 91 Sage-Buella
 92 Sec. 16, T. 6 N., R. 94 W.
 93 Sec. 16, T. 7 N., R. 93 W.
 94 Sec. 16, T. 7 N., R. 94 W.
 95 September Morn Claims
 96 Shell Group (Shell Group, Claim No. 1)
 97 Star Prospect (Front Range Star Group)
 98 Sugarloaf (Sugarloaf No. 1, 2, 3, 4, 9, Sugar Loaf Claim
 99 Three Sisters (Three Sisters No. 11)
 100 Trevenen Claims
 101 Unnamed No. 1
 102 Unnamed No. 2
 103 Unnamed No. 3
 104 Unnamed No. 4
 105 Unnamed No. 5
 106 Unnamed No. 6
 107 Unnamed No. 7
 108 Unnamed No. 8
 109 Unnamed No. 9
 110 Unnamed No. 10
 111 Unnamed No. 11
 112 Unnamed No. 12
 113 Unnamed No. 13
 114 Unnamed No. 14
 115 Woodpile No. 1
- Montezuma 1 25, Airborne Anomaly
 2 26, Airborne Anomaly
 3 27, Airborne Anomaly
 4 28, Airborne Anomaly
 5 29, Airborne Anomaly
 6 31, Airborne Anomaly
 7 38, Airborne Anomaly
 8 39, Airborne Anomaly
 9 40, Airborne Anomaly
 10 41, Airborne Anomaly
 11 42, Airborne Anomaly
 12 43, Airborne Anomaly
 13 44, Airborne Anomaly
 14 45, Airborne Anomaly
 15 Broken Bow
 16 CB Claims
 17 Cliff House
 18 Coffin's Prospect
 19 Karlä Kay
 20 Pay Day (?)
 21 Roberta Jean
 22 Surprise
 23 Swallow 1
 24 Veach
 25 Virginia Ann
- Montrose 1 30-30
 2 45-90 (Jullian Group) (Mineral Survey #20473)
 3 10, AEC Mining Lease (C-CM-25, DOE Lease Tract)
 4 11, AEC Mining Lease (C-CM-25, DOE Lease Tract) (Reserve
 5 13, AEC Mining Lease (Reserve Block 1)
 6 14, AEC Mining Lease (C-LP-21, DOE Lease Tract)
 7 15, AEC Mining Lease (Reserve Block A) (C-LP-22A,
 8 23, AEC Mining Lease (C-LP-22A, DOE Lease Tract)
 9 24, AEC Mining Lease (C-CM-25, DOE Lease Tract) (Reserve
 10 37, AEC Mining Lease (C-CM-25, DOE Lease Tract)
 11 39, AEC Mining Lease (C-AM-19, DOE Lease Tract) (Block
 12 41, AEC Mining Lease (C-CM-24, DOE Lease Tract) (Reserve
 13 47, AEC Mining Lease (C-AM-19, DOE Lease Tract)
 14 Abajo 1-5 (Laura, Mustard)
 15 Adak
 16 All Stars - Evening Star
 17 Alta
 18 Altair Capella Vega

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

- Montrose
- 19 American Eagle Group
 - 20 American Eagle No. 4
 - 21 Anchor (Invincible)
 - 22 Andrews and Andrews Claims
 - 23 Angle Mine
 - 24 Anna May 1 (Monogram Group, Bobtail)
 - 25 Anna May 1 Dumps (Happy Thoughts)
 - 26 Annex (Saucer Basin Group)
 - 27 Anomaly 18
 - 28 April (April Group)
 - 29 Arcturus
 - 30 Arrowhead (Colorado Group)
 - 31 Austin (Dolores)
 - 32 AWOL and Pet (AWOL 1-20, Pet 1-20)
 - 33 Aztec (1)
 - 34 Aztec (Silvery, Silvia Group)
 - 35 B.T.M. Claim Group
 - 36 Babe Ruth (Mitchell - Archer Group)
 - 37 Baby Fawn (Big Fawn, Joker)
 - 38 Badger
 - 39 Badger 1 (Badger #3)
 - 40 Badger 2 Dump
 - 41 Badger and Crown Prince
 - 42 Badger Dump
 - 43 Bagger
 - 44 Ball Point
 - 45 Banner
 - 46 Basin Group (Club Mine)
 - 47 Batty (Batty 1-4) (Franklin 1-3 & 5, Ben Frac., Ralph 1 & 2)
 - 48 Beaver
 - 49 Bed Rock (Red Canyon Claim?)
 - 50 Bernard
 - 51 Bertles Beauty Claims 1 - 24 (Hard Rock 1 - 3)
 - 52 Beta Wonder
 - 53 Better B #7 (Better B)
 - 54 Betty Jean (Farmer Girl, Hope #1, Monogram 4-7)
 - 55 Big Bull
 - 56 Big Dick (Dolores)
 - 57 Big Mitt
 - 58 Big Rock (Starlight) (Wedding Bell Group)
 - 59 Big Shot
 - 60 Bill Bady - Lucky Boy
 - 61 Binder Group
 - 62 Birthday 1 (Big Bug, Birthday, Morning Star #1 Group)
 - 63 Bismark
 - 64 Bitter Creek (Radium King) (Easy)
 - 65 Black Bess 2
 - 66 Black Dinah
 - 67 Black Eagle Group
 - 68 Black Gnat
 - 69 Black Hawk
 - 70 Black Jack (Joker, Log Cabin, West)
 - 71 Black Point
 - 72 Black Prince (John C., Morning Star, Midnight)
 - 73 Black Rock
 - 74 Black Tom (Westpart Blackburn)
 - 75 Blackburn (Joe Dandy Group)
 - 76 Blackfoot Rattlesnake
 - 77 Bliss Mine
 - 78 Blonda
 - 79 Blondy (ESA, Martin Mesa)
 - 80 Blue Bell
 - 81 Blue Bird Dump
 - 82 Blue Cap (North Crowley Group)
 - 83 Blue-Atkin Mesa
 - 84 Bluebird
 - 85 Bob 6-7-8
 - 86 Bob 9
 - 87 Bobcat

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Montrose 88 Bobcat (La Porte, Wild Horse)
 89 Bonanza
 90 Bonita 1 (Bonito)
 91 BP 1
 92 Breezy (Wedding Bell Group)
 93 Brooke 1, 2 (Brooks)
 94 Broomstick
 95 Brown Derby
 96 Brushy Basin
 97 Buckeye 4
 98 Buckhorn - Ureka (Applejack, Shuffle)
 99 Buckhorn 1
 100 Buckhorn No. 2
 101 Buckshot (Saucer Basin Group)
 102 Buckskin
 103 Butterfly
 104 Butterfly (Wat Nos. 1, 3, 5, 7, 16; Prayer 13-19)
 105 C-AM-19, DOE Lease Tract
 106 C-AM-19A, DOE Lease Tract
 107 C-AM-20, DOE Lease Tract
 108 C-BL-23A, DOE Lease Tract
 109 C-BL-23B, DOE Lease Tract
 110 C-CM-24, DOE Lease Tract (26, AEC Mining Lease) (41, AEC
 111 C-CM-25, DOE Lease Tract (10, AEC Mining Lease)[Lease Block,
 112 C-JD-5, DOE Lease Tract (Jo Dandy Area)
 113 C-JD-5A, DOE Lease Tract
 114 C-JD-6, DOE Lease Tract
 115 C-JD-7, DOE Lease Tract
 116 C-JD-7A, DOE Lease Tract
 117 C-JD-8A, DOE Lease Tract
 118 C-JD-9, DOE Lease Tract
 119 C-LP-21, DOE Lease Tract (14, AEC Mining Lease) (Reserve
 120 C-LP-22, DOE Lease Tract
 121 C-LP-22A, DOE Lease Tract (15, AEC Mining Lease) (Reserve
 122 C-LP-23, DOE Lease Tract
 123 C-SM-18, DOE Lease Tract
 124 C-WM-17, DOE Lease Tract
 125 C-WM-17A, DOE Lease Tract
 126 Cabin View
 127 Calvert 2 (Calvert 3)
 128 Camel (Camel Group, Leighton-Camel Group)
 129 Canon 4, 5, 7
 130 Canon 738 (Canon 1, 2, 5-9; Wilson 1-3)
 131 Canopus (Monogram Group, Sirius)
 132 Canyon 2 (Sylvey's Pocket Group)
 133 Canyon View
 134 Carpathia
 135 Carpenter Ridge
 136 Cashin Mill
 137 Cedar Ridge #2 - Brushy Basin Member
 138 Cedar Ridge - Brushy Basin Member
 139 Cedars Ridge Group (Cedar Ridge Bill #1-3)
 140 CFC
 141 Checker
 142 Chesterfield Trespass (Pluto, Saturn)
 143 Chipmonk 1
 144 Christie
 145 Christmas Lode
 146 Clifffdweller 2
 147 Clifffdweller
 148 Club 2
 149 Club Group (Club Sandwich)
 150 Clyde J. Wright (Pinion and Cedar Groups)
 151 Coloradium
 152 Columbus
 153 Confusion Mine (Angle)
 154 Copper Jack (Radium King)
 155 Corporation (Lease)
 156 Correct

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

- Montrose
- 157 Cottonwood 1, 2, 3 (Red Bird Group)
 - 158 Cougar (Cougar 1-11, Bobcat 1-4)
 - 159 Crab Orchard
 - 160 Cripple Creek 2
 - 161 Cripple Creek 2 Dump
 - 162 Cripple Creek (Cripple Creek No. 1)
 - 163 Crown Prince
 - 164 Cue Ball
 - 165 Cycle 3
 - 166 D & D 3
 - 167 D & D 5
 - 168 Dads (Carbon King, Shamrock 1-7; Piper 1-3, Kingpin 1-8,
 - 169 Dan Patch
 - 170 Dawn (Down)(Echo Group)
 - 171 Deer (July, Slim)
 - 172 Deer Shaft
 - 173 Diana (Mitchell-Archer Group)
 - 174 Doctor Mine (Yellowbird)
 - 175 Dola
 - 176 Dolores Mine (Pippy)
 - 177 Donald L
 - 178 Donald L Dump
 - 179 Donna K
 - 180 Dorothy (M.U. #141, Grace Chato)
 - 181 Dorothy E
 - 182 Dorothy Jean No. 1
 - 183 Double Jack
 - 184 Dry Creek Prospect
 - 185 Duchess 2, 3 (Duchess Group, Dutchess, Duke 1-3, Persistence
 - 186 Duggan Adit
 - 187 Dusty Dump
 - 188 Eagle Rock 1
 - 189 Echo 2 & 3 (Hatch 1-8, Echo 1-3)
 - 190 Echo 6 (Echo 4-6, Jackrabbit, Dawn)
 - 191 Eclipse
 - 192 Edith Irene (Gypsy Queen)
 - 193 Eight Ball (Julian Group, Eagle Basin)
 - 194 Eight O Clock
 - 195 Elizabeth Ann 1 & 2
 - 196 Elray Mine
 - 197 Equinox
 - 198 Eula Belle Craig
 - 199 Eva Group (Eva Lode, Yellowbird Group)
 - 200 Evening Star Mine (Lion Creek Group)(Incline 2; Slick Rock,
 - 201 Expectant 1 (Rambler)
 - 202 Fairy Queen (Fairy King & Fairy Queen)
 - 203 Farmer Boy
 - 204 Farmer Girl
 - 205 Fawn Springs 3
 - 206 Fawn Springs 4, 10
 - 207 Fawn Springs 5
 - 208 Fawn Springs 9
 - 209 Fawn Springs 15
 - 210 Fawn Springs 13
 - 211 Fawn Springs 18
 - 212 Fawn Springs 11
 - 213 Fawn Springs 12
 - 214 Fawn Springs 29
 - 215 Fawn Springs 21
 - 216 Fawn Springs 30
 - 217 Fifth National Bank
 - 218 Firebird Mine
 - 219 Firecracker
 - 220 First National Bank
 - 221 Flat Top
 - 222 Florence Nellie, 75 50, 50-50, 25 50, 10 50
 - 223 Fossil
 - 224 Fourth National Bank

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY.

Montrose 225 Fox (Little Dick)
 226 Fox Cistern
 227 Fraction (Fraction South)
 228 Franklin
 229 Franklin 1, 2 (Red Bird Group)
 230 Gilbert
 231 Gnome
 232 Golden Eagle
 233 Golden Eagle 14 & 16
 234 Golden Eagle 23
 235 Good Hope Red Fox
 236 Gramlich Group
 237 Grand Dad
 238 Grass Roots
 239 Grass Roots Dump
 240 Gray
 241 Gray Dump
 242 Gray Fox
 243 Greagor Group
 244 Greasy Spoon (Geo No. 7)
 245 Great Western Dump
 246 Great Western (Mineral Survey 20184)
 247 Green Back (Mineral Survey 20233)
 248 Ground Hog Mine
 249 Groundhog
 250 Groundhog #2
 251 Guadalcanal Mine (Long Park 17, Tumls)
 252 Gyp Lease (Gyp 1-3, Surprise)
 253 Happy Jack (Robert Lee #3)
 254 Happy Joe (Happy Joe No. 1, Miracle)
 255 Happy St.
 256 Happy Thought
 257 Happy, Happy West, Happy No. 1
 258 Hard Luck (Hot Dog, Hard Luck 1-5)
 259 Hardrock
 260 Harold (Gilbert Claim)
 261 Harrison-Burnett and Small-Lee
 262 Hatch No. 8 (Echo Group)
 263 Henry Clay Dumps
 264 Henry Clay Mine
 265 Hidden Basin
 266 High Ball 5
 267 Hobo
 268 Homestead
 269 Honeymoon (Phonograph)
 270 Honeymoon Dumps
 271 Horsehair 1
 272 Horsehair Group (Horsehair 2-5)
 273 Hot Rocks, Boomer and Pole Cat (Hot Rock 1-5)
 274 Hot Shot No. 3 (Wedding Bell Group)
 275 Hot Spot
 276 Howling Coyote
 277 Hummer
 278 Hummer Dumps (Joe Dandy Dump)
 279 Ilene (Mexico Group)
 280 Independence
 281 Index
 282 Indians
 283 Invincible
 284 Irene
 285 Island View 1-7 (Island View 2)
 286 J. M.
 287 J. B. Group
 288 J. J.
 289 Jack No. 8-13
 290 Jack Rabbit (Echo Group)
 291 Jackpot Mines No. 2 & 3 (Jackpot Group)
 292 Jeep
 293 Jitterbug

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Montrose 294 Joanne Group (Jo Ann 1-7)
 295 Joe
 296 Joe Ann
 297 Joe Dandy Mine
 298 Joe Jr.
 299 Joe Pete
 300 Joe Riverside, Joe (Skalia) Mine, Joe
 301 John Z
 302 Joker
 303 Joker (Black Jack, Log Cabin, West)
 304 Joker (Joker 1-3)
 305 Judy Ann (Patterson Springs No. 2, Patterson Springs Group)
 306 Jumbo
 307 Jungle Basin (Lone Cedar, Vanadium Bar, Tip Top)
 308 Just Right
 309 Keystone Claims
 310 King
 311 King of Lodes
 312 King Solomon #5
 313 La Salle Mine, La Salle Group (10, AEC Mining Lease)
 314 Lark 7 & 8, 2
 315 Last Chance
 316 Last Chance 1 (Last Chance #1-10)
 317 Last Chance No. 4
 318 Last Chance-Long Shot
 319 Last Dollar
 320 Last Dollar (Doagy 2)
 321 Last Hope
 322 Last Load (Red Rose Group, Lost Lode)
 323 Laura
 324 Lazy Three
 325 Levi
 326 Lilly Love
 327 Little Alice
 328 Little Basin (Grass Roots)
 329 Little Buckhorn Group (Termite 1-12)
 330 Little Chief
 331 Little Dick
 332 Little Dick Dumps
 333 Little Jewel (Black Gem Group)
 334 Little Joe
 335 Little Slip 1
 336 Lo High (Lohl)
 337 Log Cabin
 338 Lone Cedar (Jungle Basin 1-14, Vanadium Bar, Tip Top,
 339 Lone Pine (Big Spruce 1-2, Golo)
 340 Lone Pine No. 2
 341 Long John
 342 Long Park 1
 343 Long Park 2
 344 Long Park 3
 345 Long Park 4
 346 Long Park 5 (Black Dinah Group)
 347 Long Park 6
 348 Long Park 6 Dumps
 349 Long Park 9
 350 Long Park 10
 351 Long Park 11
 352 Long Park 12
 353 Long Park 13
 354 Long Park 16
 355 Lost Horse (Shamrock Group)
 356 Lower Valley View
 357 Lucky Blunder
 358 Lucky Day
 359 Lucky Day
 360 Lucky Group (Lucky No. 1-14, Wray Mesa)
 361 Lucky Marx
 362 Lucky Strike 4

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Montrose 363 Lucky Strike
 364 Lynx
 365 Maggie C
 366 Maggie C Dump
 367 Margie 2
 368 Margie Group
 369 Marjorie Ann Mine
 370 Martha Belle (Martha Belle East)
 371 Mary Ann 4 (Dorothy Jean 2)
 372 Maud Mine
 373 Maybe 1, 2
 374 Maybe 5 & 6
 375 Maybe Dumps
 376 Media (Group)
 377 Merry Christmas (Mesa Creek)
 378 Merry Widow
 379 Mesa
 380 Mesa 2
 381 Mesa 3
 382 Mesa Creek
 383 Midas
 384 Mike 1
 385 Mill 4
 386 Mill No. 1
 387 Mill No. 2 (Mill No. 2 incline)
 388 Mineral Joe Group (Mineral Joe 1-12)
 389 Mineral Park 2
 390 Mineral Park 3
 391 Mineral Park 4, 5, 6
 392 Mineral Park 2-6
 393 MLB-C-JD-8, DOE Lease Tract
 394 Modeen
 395 Modeen 2
 396 Monogram 5, Farmer Girl
 397 Monogram 12
 398 Monogram Claim
 399 Moonbeam
 400 Morning Glory 2
 401 Morning No. 2
 402 Morning Star Mine
 403 Morning Star-Moonlite
 404 Movie Star
 405 Mueker
 406 Mum
 407 Mustard
 408 Nat Group
 409 Naturita 4
 410 Naturita 24
 411 Navajo (Lark 7 & 8 Mine)
 412 New Camp Bird (Starlight Group)
 413 Newton (Bull Canyon Group)
 414 Nil No. 2 (and Dump)
 415 Nil Trace
 416 No Name
 417 Noel
 418 Nora L. Claims
 419 North Star Dump (Mineral Survey 19793)
 420 North Star-Unawep
 421 Nucla (Mineral Survey 19790)
 422 Nucla (VCA)
 423 Old Crow 1 (Greagor Group)
 424 Old Grandad
 425 Old Quaker
 426 Old Salt Lick, (Old Salt Lick Extension, Shamrock Group)
 427 Opera Box
 428 Ophir
 429 Ophir Bluebird (Ophir)
 430 Ophir Dump
 431 Oregon

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Montrose 432 Oversight Mine
 433 Pablo 4 & 5
 434 Pain-Obnoxious
 435 Paradox 4, 5 & 6
 436 Paradox Belle
 437 Paradox C
 438 Paradox D (Reserve Block A)
 439 Paradox Right Of Way (Doe Lease Tract C-JD-7)
 440 Paradox View
 441 Patterson Seep
 442 Patty 4
 443 Patty 5
 444 Patty No. 2
 445 Pay day
 446 Peanut No. 19
 447 Peg Leg 2
 448 Peggy
 449 Picket Corral
 450 Ple Face 1
 451 Pine Face 1
 452 Pinion-Cedar Group
 453 Pluto (Pluto-Saturn)
 454 Point-Empire
 455 Pooch & Pooch 1
 456 Poor Boy
 457 Prayer 11
 458 Prayer No. 8 & 9
 459 Princess
 460 Princess Pat
 461 Probable
 462 Production Dumps
 463 Production West (Production)
 464 Prohibition (American Eagle MS 19852)
 465 Quarrel Group
 466 Quo Vadis
 467 R.A.L. 1 & 2
 468 R.A.M.
 469 R.A.M. Dump
 470 Rabbit Foot 2 (Rimrock Blues Group)
 471 Radium Cycle
 472 Radium Hill 7
 473 Radium Hill 10
 474 Radium Hill 31
 475 Radium Hill Group
 476 Radium King (Bitter Creek Group)
 477 Radium Queen 13
 478 Rainbow
 479 Rainy Day
 480 Rajah (Big Chief 2) (Mineral Survey 19851A and 20019)
 481 Rajah Dump Ore (Roc Creek)
 482 Rambler Dumps
 483 Ratex
 484 Rattler 1
 485 Rattlesnake 1 (Lower Group)
 486 Rattlesnake (Rattlesnake-David)
 487 Rattlesnake Turnover
 488 Raven
 489 Raven
 490 Red Beds
 491 Red Bird No. 1, 2
 492 Red Bird No. 20
 493 Red Cow (Wild Horse Group)
 494 Red Head 1
 495 Red Hill Group
 496 Red Rock
 497 Red Rock 2
 498 Red Rock 5
 499 Red Sox, Yankees
 500 Redbird

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Montrose 501 Redbird, Yellowbird
 502 Ramanent 1
 503 Renegade Group
 504 Republican (Republican-Dusty, Republican and Dusty)
 505 Republican Dump
 506 Rex Mine
 507 Rigel Mine
 508 Rim Claims
 509 Rim Rock
 510 Rimrock 15-17
 511 Rimrock Blues 2
 512 Rimrock Blues 5
 513 Rimrock Blues 6E
 514 Rimrock Blues 9
 515 Rimrock Blues 12
 516 Rimrock Blues 20
 517 Rimrock Blues 6, 14
 518 Rimrock Group
 519 Rimrock No. 5
 520 Riverside
 521 Rock Raven
 522 Rodman No. 8
 523 Roosevelt
 524 Rosebud
 525 Royal Oak
 526 Rubadale (Rubedale)
 527 Rusty 5
 528 Ruth K (Pine Group)
 529 Rye (Rye No. 8)
 530 Salt Lake Extension
 531 Sam
 532 Sandy
 533 Saturn (Pluto - Saturn)
 534 Saucer Basin Group (Rust 3, Peggy)
 535 School Marm
 536 Second National Bank
 537 Sego Lily Lou
 538 September Morn
 539 Sesmo
 540 Shadow
 541 Shadow Rock
 542 Shamrock
 543 Shamrock (Shamrock and Roadside)
 544 Sharkey
 545 Shooting Star
 546 Shriver
 547 Slim Chance
 548 Smoky (Starlight Group)
 549 Socket
 550 Soldier Boy
 551 Spencer-Fairy Princess
 552 Sphinx
 553 Sphinx Dump
 554 St. Patrick
 555 St. Patrick 9
 556 St. Patrick No. 7
 557 Star 3, 4 (Wright Group)
 558 Star No. 3 Dump
 559 Star No. 5 (Star No. 5 & 6, Movie Star, Polar Star)
 560 Star No. 10
 561 Star No. 13, 14 (Wright Group)
 562 Starlight
 563 Starlight 1
 564 Starlight 2
 565 Starlight 4
 566 Starlight 8
 567 Steer 1, 8
 568 Straight Arrow
 569 Summer Mine

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

Montrose 570 Sunbeam Group
 571 Sunflower (Sunflower 2, Brammer Group)
 572 Sunnyside
 573 Sunrise Group (Sunrise No. 2, 3, 4, 5)
 574 Sunset
 575 Surprise (Joe Jr.)
 576 Swindler Dump
 577 Sylveys Pocket (Sylvia's Pocket)
 578 Tango
 579 Teapot Dome 2, 3
 580 Terrible
 581 Three Jacks (Yellow Bird)
 582 Three Musketeers
 583 Thunderbolt
 584 TNT 1, 2
 585 TNT 3
 586 Too High Mine 2
 587 Top Notch
 588 Tornado No. 5 & 6
 589 Town House (Dolores Group)
 590 Tramp 2
 591 Tramp Dumps
 592 Triangulation
 593 Tripod
 594 Tripod Low Grade (Tripod Dumps)
 595 Truscott
 596 Twilight 1-2
 597 Twin Sisters
 598 Two Bits (Joker Group)
 599 Two Shovel
 600 U.S. Grant
 601 Uncle Sam
 602 Upper Valley View
 603 URA
 604 Uranium Girl (Emergency Claim)
 605 Uranus (Dorothy Jean)
 606 Uravan Group No. 5
 607 Uravan No. 2
 608 Ureka (Carpenter Ridge)
 609 Urialah
 610 Ute 4
 611 Vaden View
 612 Valentine
 613 Valley View (N. Star)
 614 Van
 615 Van 1-3 (Tulla 1,3)
 616 Vanablend 47
 617 Vanadite
 618 Vanadium King 1-8
 619 Venture Lode (Venture Lode)
 620 Vernita
 621 Victory 2
 622 Virgin Mine 3
 623 Vista Grande Mine (Lion Creek)
 624 Vonnie 5
 625 Wamba
 626 Wanda 3
 627 Watchman
 628 Waterloo
 629 Wedge 1
 630 Wedge Mine (Pl Warren Mine)
 631 Wednesday & Thursday
 632 West
 633 West Lode
 634 West Martha Belle
 635 Whang Doodle
 636 White Cow
 637 White Crow
 638 White Face

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

- Montrose 639 Whitney
640 Whiz Bang
641 Wild Cat 2
642 Wild Horse (Adak, Colorado)
643 Wildcat 3
644 Wildcat 8
645 Willie Dee
646 Windy Day
647 Woodchuck
648 Woodward
649 Wray Mesa
650 Wright
651 Yellow Bird 1 (Deer Run)
652 Yellow Bird Mines (Center)
653 Yellow Jacket
654 Yellow Spot Group (New Yellow Spot Mine)
655 Yellowbird D
656 Yip Yip
657 Yucca
658 Zebra
659 Zell Group (Zella Group)
- Ouray 1 Bear Creek Falls
2 Bear Creek Mine
3 Campbird Mine
4 Carbonate King Mine
5 Dunmore Mine
6 Genessee Tunnel
7 Guston Mine
8 Larson Property
9 Michael Breen Mine
10 National Bell
11 Ouray Hot Springs
12 Pony Express Mine
13 Robinson Mine
14 Yankee Girl Shaft
- Park 1 Amrine and Perrigue Claims (Lady Elk No. 1)
2 Balfour Mines
3 Blue Bull Claim
4 Boomer Mine (Shamrock-Irish Group)
5 Buckskin Joe Mine (Phillips Mine)
6 Carson Mining and Development (Nina No. 7)
7 Champaign Mine (Treasury Vault)
8 Chumway Park
9 Garo Deposit (DuVall Discovery, Shirley May Mine)
10 Gem Dandy (Jim Dandy)
11 Goermer Lease
12 Gold Star
13 Hartsel Ranch (Airborne Anomaly No. 6)
14 Hass 1-12
15 Hill Top Claims
16 Horn Property
17 Kentucky Belle Mine
18 Last Chance
19 London Butte Tunnel
20 London Extension Mine
21 Lone Star Claim
22 Lucky Jim Claims
23 Mud Claims
24 Muley Gulch
25 Orphan Boy Mine
26 Pegmatite Prospect
27 Redskin Claim
28 Redskin Mines (Shawnee No. 1 and Redskin 1A, 1B, 2A, 2B)
29 Rogers Publishing Co. (Katydid Mine)
30 South London House
31 Spring Claim
32 Sweet Home Mine
33 Tedco and MacGeorge (Mac George 4)
34 Two Bit Claims

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

- | | | |
|------------|----|--|
| Park | 35 | Unnamed No. 1 |
| | 36 | Unnamed No. 2 |
| | 37 | Wheel of Fortune Claim |
| | 38 | Willow Claims (Bell Property) |
| | 39 | Wyandotte Mine |
| Pitkin | 1 | Frying Pan Claims 1-16 (Frying Pan Group, Frying Pan Claims) |
| | 2 | Silver King |
| | 3 | Smuggler Mine, (Nos. 1 & 2 Tunnels) |
| | 4 | Tower Durant Tunnel and Dump |
| | 5 | Unnamed Dump |
| Pueblo | 1 | Dinosaur No. 1 Claim (John Gatley Ranch) |
| | 2 | George Avery Ranch (George Avery Mine, Kathryn No. 2) |
| Rio Blanco | 1 | Allen |
| | 2 | Brown Group (Brown 2) |
| | 3 | Burrell 1, 2 and 3 (Last Day?) |
| | 4 | Burrell 5 |
| | 5 | Butterfly Group (Butterfly No. 1) |
| | 6 | Chris |
| | 7 | Coal Creek 1 |
| | 8 | Columbine 1 - 4 |
| | 9 | Evening Star |
| | 10 | Fawn Springs Group |
| | 11 | Frying Pan 1 |
| | 12 | Iles Formation |
| | 13 | Jerry Zochol (Red Doe Claim) |
| | 14 | Last Day (Urin Mining Claim) |
| | 15 | Lucil 106 |
| | 16 | M & G |
| | 17 | Marvine View 10 |
| | 18 | Midnight Group (Midnight Mine, |
| | 19 | Naomi Ann |
| | 20 | Rio Blanco |
| | 21 | S & G 4 |
| | 22 | Shylo Group (Brown 2, Brown 5) |
| | 23 | St. Lue |
| | 24 | Stealy Claims (Guy Stealy Claims, |
| | 25 | TB |
| | 26 | Twin Star 500 |
| | 27 | Unnamed No. 1 |
| | 28 | Ute Group (Blue Dish Group) |
| | 29 | Windy Point 1 |
| Routt | 1 | Dead Horse Claims |
| | 2 | Dennis D. Claims |
| | 3 | E. C. Ellis Property |
| | 4 | Fair U Claims (Fish Creek Claims) |
| | 5 | Marth Uranesich (Gilpin Falls No. 1 and 2) |
| | 6 | Sample No. 1 |
| | 7 | Sample No. 2 |
| | 8 | Sample No. 3 |
| | 9 | Sample No. 4 |
| | 10 | Sample No. 5 |
| | 11 | Sample No. 6 |
| | 12 | Sample No. 8 |
| | 13 | Sample No. 9 |
| | 14 | Sample No. 10 |
| | 15 | Sample No. 11 |
| | 16 | Sample No. 12 |
| | 17 | Sample No. 13 |
| | 18 | Sample No. 14 |
| | 19 | Twenty Mile Park |
| | 20 | Willow Creek Claims |
| Saguache | 1 | Anna Claim |
| | 2 | Apache No. 4 |
| | 3 | Barlum Lode |
| | 4 | Beginner's Luck Claim (Beginner's Luck 3) |
| | 5 | Belle Lode (Balls Lode, Freeman Claims) |
| | 6 | Big Indian Group of Claims |
| | 7 | Bob Cat |

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

- | | | |
|------------|----|--|
| Saguache | 8 | Bonita Nos. 1 & 2 Claims (Bonita Claim, Bonita Group) |
| | 9 | Dependable Group (Snowshoe Claim) |
| | 10 | DNG 1, 2, 3, and 4 |
| | 11 | Erle No. 33 |
| | 12 | Green Cliff Group |
| | 13 | I. Kreiner |
| | 14 | Judith Claim |
| | 15 | Kerber Creek Prospect |
| | 16 | La Rue Claims (Elisha Group, Elisha-LaRue, La Rue 2, |
| | 17 | Little Indian No. 6 (Indian Creek Group) |
| | 18 | Lookout Claims (Lookout Group, Lookout No. 15-34) |
| | 19 | Los Ochos Group (Kathy Jo, East Mine, Thornburg Mine, T-1, |
| | 20 | M & W Group |
| | 21 | Marshall Pass Group Nos. 1-58 |
| | 22 | Mercury - Alpine Claims |
| | 23 | Mercury Mine |
| | 24 | Millie Luna (Sylvia, Faith Groups) |
| | 25 | Mocking Bird Claim |
| | 26 | Old Rawley Mine |
| | 27 | Pitch Mine (Erle No. 28) |
| | 28 | Rainbow's End |
| | 29 | Ram Lode and Pam Lode (Ram Lode 1) |
| | 30 | Ridgeway No. 3 Claim |
| | 31 | Sage Hen (Friendly Neighbor) |
| | 32 | Shurshot Claims |
| | 33 | T-2 Mine (Sec. 3 Mine) |
| | 34 | Unnamed No. 1 |
| | 35 | Unnamed No. 2 |
| | 36 | Unnamed No. 3 |
| | 37 | Unnamed No. 4 |
| | 38 | Unnamed No. 5 |
| | 39 | Unnamed No. 6 |
| | 40 | Unnamed No. 7 |
| | 41 | Unnamed No. 8 |
| | 42 | Unnamed No. 9 |
| | 43 | Unnamed No. 10 |
| | 44 | Unnamed No. 11 |
| | 45 | Unnamed No. 12 |
| | 46 | Unnamed No. 13 |
| | 47 | Unnamed No. 14 |
| | 48 | Venus 14 (Venus 1-14) |
| | 49 | Whale Mine |
| | 50 | Wild Cherry Creek Area (Beginners Luck Claims) |
| | 51 | Willow Creek Group (Beta Group) |
| San Juan | 1 | Black Hawk Mine |
| | 2 | Bushwacker (B & B No. 1 & 2) |
| | 3 | Carbon Lake Shaft |
| | 4 | Elk Park (Surprise Claims, Clyde Long Property) |
| | 5 | Graysill Mine |
| | 6 | Henrietta Mine |
| | 7 | Hercules |
| | 8 | Koehler Tunnel |
| | 9 | Lark Tunnel |
| | 10 | Longfellow Mine |
| | 11 | Mighty Monarch Mine |
| | 12 | Surprise |
| | 13 | Syracuse Pride |
| San Miguel | 1 | 1, AEC Mining Lease (C-SR-10*, DOE Lease Tract) (King No. |
| | 2 | 4, AEC Mining Lease (C-SR-11, DOE Lease Tract) [Tomboy, |
| | 3 | 6, AEC Mining Lease (C-SR-15, DOE Lease Tract) [Lower |
| | 4 | 7, AEC Mining Lease (C-SR-16A, DOE Lease Tract) (Golden Rod |
| | 5 | 8, AEC Mining Lease (C-SR-16, DOE Lease Tract) (Fraction |
| | 6 | 16, AEC Mining Lease |
| | 7 | 17, AEC Mining Lease (C-SR-13A, DOE Lease Tract) (Georgeto |
| | 8 | 18, AEC Mining Lease (C-SR-10, DOE Lease Tract) [Legin |
| | 9 | 20, AEC Mining Lease (C-SR-15, DOE Lease Tract) (Knoll, |
| | 10 | 21, AEC Mining Lease (C-SR-14, DOE Lease Tract) [Upper |
| | 11 | 22, AEC Mining Lease (C-SR-16A, DOE Lease Tract) [Golden Rod |
| | 12 | 25, AEC Mining Lease (C-SR-16A, DOE Lease Tract) (Golden |

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

San Miguel

13 28, AEC Mining Lease (C-SR-13, DOE Lease Tract) (Hawkeye)

14 29*, AEC Mining Lease (C-SR-10, DOE Lease Tract) [Legin

15 30, AEC Mining Lease (C-SR-13, DOE Lease Tract) [Middle

16 32, AEC Mining Lease (C-SR-13, DOE Lease Tract) [Middle

17 42, AEC Mining Lease (C-SR-13, DOE Lease Tract) (Dan)

18 43, AEC Mining Lease (C-SR-16, DOE Lease Tract) (Charles

19 44, AEC Mining Lease (C-SR-14, DOE Lease Tract) (Canyon

20 45, AEC Mining Lease (C-SR-16, C-SR-16A, DOE Lease Tracts)

21 46, AEC Mining Lease (C-SR-13A, DOE Lease Tract) (Georgetown

22 48, AEC Mining Lease (C-SR-16A, DOE Lease Tract) (Neomie D.,

23 Ada Bell

24 Ajax Lease (Thomas, Richard; Robin 8, 9, 12; Susan 3 and 4)

25 Alchemist (Alchemist #1)

26 April (April 1-13, Rio Grande)

27 Ava Jay Group (Chinnese, Four Fingers, Lost Dutchman,

28 Babe 1-4

29 Bachelor Mine (Bachelor #3)

30 Bald Eagle (Uravan #1, Morning Glory, Keystone #1)

31 Say Mule

32 Bean 2 and 3

33 Bean 4, 5 (Bean 4, Parker Lease)

34 Bean 6

35 Bean 8, 9 (North Slope #2 [E1/2])

36 Bean 10

37 Bean 15, 16, 17

38 Bean No. 1 (Radium No. 9) (Radium Group)

39 Bean Patch (Parker Lease, Bean Patch Incline 3 and 4)

40 Bear Creek

41 Belle

42 Bench

43 Betty Jane 2

44 Betty Ruth

45 Big Buck 1 (Little Buck, Jackie)

46 Big Chief (Mineral Survey #20580)

47 Big Chief (Spud Patch Group)

48 Big Gyp 1-8

49 Big Medicine

50 Big S

51 Black Fox (Upper Group Claims)(44, AEC Mining Lease)

52 Black Jack (Hot Rock)

53 Black King 5 (Weatherly)

54 Black Spider (Red Ant)

55 Blue Horse & Nancy

56 Blue Moon (Lucky #1, 2)

57 Bluebird (Radium Group)

58 Bluff (Mexico Group)

59 Bobtail

60 Breezy

61 Bretton & Norcott

62 Brown Mule

63 Buck Horn

64 Buckhorn (Lone Star 1 & 2, Canary Bird No. 1, Rim, Humming

65 Bugline (Empire Group)

66 Bull Moose

67 Bull Snake No. 1 and No. 2 Claims

68 Burro Point

69 Burro Tunnel (Burro 1-10, Jack 1-5)

70 Butterfly

71 C-SR-10, DOE Lease Tract (1, AEC Mining Lease) [King No. 2,

72 C-SR-11, DOE Lease Tract (4, AEC Mining Lease) (Tomboy,

73 C-SR-12, DOE Lease Tract

74 C-SR-13, DOE Lease Tract (28, AEC Mining Lease) (Hawkeye)

75 C-SR-13A, DOE Lease Tract (12, AEC Mining Lease) (Veta Mad,

76 C-SR-14, DOE Lease Tract (21, AEC Mining Lease) (Sunnyside,

77 C-SR-14A, DOE Lease Tract (27, AEC Mining Lease) (Ned Claim)

78 C-SR-15, DOE Lease Tract (6, AEC Mining Lease) (Lower Group,

79 C-SR-16, DOE Lease Tract (43, AEC Mining Lease) (Nucleus,

80 C-SR-16A, DOE Lease Tract (5, AEC Mining Lease) [Pretty Boy

81 Canyon Group (Snyder Dunning Group)

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

San	82	Canyon View
Miguel	83	Cape Mairs
	84	Cardinal No. 2
	85	Carnation Mine (Carnation 1-5, St. Jude)
	86	Charles T1 (8, AEC Mining Lease)(C-SR-16, DOE Lease Tract)
	87	Charlotte 1
	88	Chesta (Mexico Group)
	89	Chlef 1 & 3
	90	Chile 5 (Old Mexico, New Mexico, Breezy)
	91	Chinnee (Ava Jay Group)
	92	Chipmunk
	93	Chipmunk
	94	Chipmunk 1
	95	Civet Cat Group (Vanadium Queen)
	96	Clear Creek
	97	Clear View
	98	Clear View Claims (Horseshoe Group)
	99	Climb Dwellor (Climb Dwellor Hall)
	100	Colorado Cat
	101	Cone 1-6
	102	Cone No. 14
	103	Cowhand 2
	104	Crucible
	105	Cub 1
	106	Curtis
	107	Cusco
	108	D.U. and Vanderwalker Groups
	109	Dalpaz
	110	Deluxe & Master Deluxe
	111	Deremo (Bigler Shaft, Pup No. 1, W. B. Snyder, Bigler,
	112	Deremo Dumps
	113	Deremo No. 2
	114	Dickle 1 & 3 (Dickle Group)
	115	Dolores River (Horseshoe Group)
	116	Dolores Uranium (Monument Valley, Red Canyon, Deer, Bush
	117	Donald Hill
	118	Donagan Lease
	119	Doss Claim Group
	120	Dragon
	121	Duncan (Mexico Group)
	122	Durango and Las Animas
	123	Early Morn Group
	124	Eaverson Lease
	125	Eclipse
	126	Edna Mae
	127	Empire Group (Tunis, Libia, Sudan, Algiers, Bugwine,
	128	Fair View
	129	Falcon (Bov Ayla, Bob Incline)
	130	Fall Creek Group
	131	Faultless (Faultless Group, Blue Bird Fraction, Faultless
	132	Federal
	133	Fervanite
	134	Firefly 3 (Firefly Mine)
	135	Five Points (Five Points No. 1-3, 5, 6 and Oneta 2 & 3)
	136	Florence (Radium Group)
	137	Fort Knox Claims
	138	Fox Group
	139	Fraction
	140	Fraction 1 (one)
	141	France
	142	Frances (Speed Patch Group)
	143	Frazier (Vanadium No. 1-3, Belvedere)
	144	Frazier Mine (Fall Creek Mine)
	145	Frenchy 2
	146	Fuji Property
	147	Full Moon Group (Full Moon #4, Full Moon #7)
	148	G M D 1 (Little Gyp Group)
	149	Gap
	150	Gelsinger

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

San	151	Gerald T.
Miguel	152	Giant (Giant No. 2)
	153	Glen 24 (Dowdy Lease)
	154	GMG (GMG 4-7, 10-13; GMG South 6 & 7)
	155	Goforth Homestead
	156	Golden Eagle No. 14-16
	157	Golden Rod 1
	158	Golden Rod 2
	159	Golden Rod 4
	160	Gopher (Wedding Bell Group)
	161	Governor Mine
	162	Grass Flats (Phillura Group)
	163	Grassy Hill
	164	Green Arrow
	165	Ground Hog
	166	Ground Hog Dump
	167	Grub Stake
	168	Gypsum Homestead (Big Gyp Homestead)
	169	Gypsum Valley Claims
	170	Hacket
	171	Halloween
	172	Hangover (Hangover No. 3)
	173	Happy Jack (Gypsy Rose)
	174	Hawk - Frankie
	175	Haymaker - Sunset (Sunset, Susan H.)
	176	Hazel (Hazel #3, 4, and 5)
	177	Hogback
	178	Horseshoe 1
	179	Horseshoe 2
	180	Horseshoe 3
	181	Horseshoe 4
	182	Horseshoe 5
	183	Horseshoe 6
	184	Horseshoe 7
	185	Horseshoe Bend 1
	186	Hot Drill 11
	187	Hot Shot
	188	Hot Spot
	189	Hoyman Lease (Gravy Claims, West Group)
	190	I.V.
	191	Independence (Lower Group)
	192	Inspiration 1 (Lost Group)
	193	Inspiration 15
	194	J V Eavenson Lease
	195	J.J.Z.
	196	Jack Knife (Jack Knife No. 1, Wedding Bell Group)
	197	Jack Knife No. 3 (Wedding Bell Group)
	198	Jack-o-lantern
	199	Jackie L
	200	Jackie Walls 3
	201	Jackknife 3 East E
	202	Jackknife 3 West W
	203	Jackknife No. 2
	204	Jackpot Group (Long Ridge Group, Jackpot No. 1-3)
	205	Jim 2
	206	Joe Dandy Group (Edward, Wesley, Lone Wolf)
	207	Jungle Basin
	208	Jupiter
	209	Kate Meyers
	210	Katie
	211	Keystone
	212	Klondike (Lower Group)
	213	La Salle
	214	Lara's Pengent
	215	Larimer Street
	216	Last Chance
	217	Last Chance
	218	Last Hope

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

San Miguel	219	Latricia
	220	Lawton (Fall Creek Group)
	221	Lease 875 N W 16
	222	Lee C
	223	Lee Mack (Lemack)
	224	Leopard Vanadium 2 & 3
	225	Letty Jones (Letty Jones Lease)
	226	Liberty Bell
	227	Little Chief
	228	Little Helen
	229	Little Marie
	230	Little Max
	231	Little Roy
	232	Lizzie Group (Lizzie OS)
	233	Lone Peak 1-3
	234	Lone Star Group
	235	Lonesome 34
	236	Long Ridge and Long Ridge 2 (Mist)
	237	Lookout
	238	Lost
	239	Lost Brothers
	240	Lost Dog
	241	Lucky 1 and Joe Ray 1
	242	Lucky B (Rowena, Nancy 1-4, Blue Horse)
	243	Lucky Day
	244	Lucky Strike
	245	Mac Intyre Claims
	246	Magpie 2
	247	Magpie (Mine)
	248	Mainstreet (Almon Street)
	249	Margaret C. 1-6
	250	Marie
	251	Marie 1 (Legin Group)
	252	Marne Group
	253	Martha Sue
	254	Mary Jane (Broadway)
	255	Mary M
	256	May Day (Speed Patch Group)
	257	Maybe 1 & 2 (Mercantile Group)
	258	Mayflower
	259	Mc Kee Group
	260	Mc Millan
	261	Memphis 1 & 2
	262	Mercantile (4, AEC Mining Lease) (C-SR-11, DOE Lease Tract)
	263	Mesa 7
	264	Mesa Mill
	265	Mickey 3 (Mickey Group)
	266	Midnight
	267	Midnight
	268	Midnight
	269	Mike 1
	270	Mineral Mines
	271	Mineral Mountain 3
	272	Mineral Mountain 3 & 4
	273	Mineral Mountain 4
	274	Mineral Mountain 5
	275	Mineral Mountain 6
	276	Mineral Mountain 7
	277	Mint #1
	278	Mint #13
	279	Mitchel and Archer Group (Baby Ruth, September Horn, Diana)
	280	Montezuma
	281	Monument 4
	282	Moqui Jug (Depression, Dorothy May)
	283	Mortgage Lifter (Radium Group)
	284	Mucho (Grande)
	285	Mule Group (Horseshoe Group)
	286	Muleshoe 6
	287	Murietta

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

San	288	Mystery (Muleshoe Group)
Miguel	289	National
	290	NavaJo
	291	NaveJo
	292	Nellie Gray
	293	New Deal
	294	New Discovery (Barbara Jo Claim, White Spur)
	295	Nigger Head (Radium Group)
	296	Norma Jean No. 1 & 2
	297	North Continent Mill (C-SR-13, DOE Lease Tract)
	298	North Slope 2
	299	Northern 5 & 6
	300	Northern Light
	301	Old Mexico
	302	Omega
	303	Owensby
	304	Painted Rock
	305	Parrot Group
	306	Payday
	307	Paystreak No. 3
	308	Peanut Group (Mines)
	309	Pecas No. 1
	310	Penigal
	311	Penju
	312	Phillips 66 1 (one)
	313	Phlura Group
	314	Pine Bug (Legin Group, Pine Berg)
	315	Pinto #1
	316	Pioneer
	317	Pitchfork
	318	Pointed Rock
	319	Polaris 1
	320	Pond
	321	Pour Off
	322	Prospectors Fortune Group
	323	Queen of Spades
	324	R. L. Duncan Mining Property
	325	Radar, Early Morning
	326	Radio
	327	Radium
	328	Radium 1 (one)
	329	Radium 3
	330	Radium 4
	331	Radium 5 & 6
	332	Radium 6
	333	Radium 7
	334	Radium 8
	335	Radium 9, 10 & 11
	336	Radium 12
	337	Radium 19
	338	Radium 22
	339	Radium 24
	340	Radium 25
	341	Radium 26 & 27
	342	Radium GP (Blackbird)
	343	Radium Hills
	344	Radium No. 29
	345	Rainy Day
	346	Rainy Day
	347	Rambler
	348	Rambler
	349	Rat Hole
	350	Rattlesnake 2
	351	Rattlesnake 2
	352	Red Ant
	353	Red Horse
	354	Red Rock 4
	355	Red Rock 5
	356	Red Snake

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

San Miguel	357	Red Top 1 (Horseshoe Group)
	358	Red Top 2
	359	Red Wing
	360	Retribution
	361	Rex Claim
	362	Rim (Buckhorn, et al)
	363	Riverview
	364	Robert M
	365	Roberta Jean
	366	Rosa L
	367	Rose June
	368	Roy Lee
	369	S. B. Group
	370	Sage II
	371	Saint Jude
	372	San Miguel (Radium Group)
	373	Santa Maria (Charles T and Golden Rod Group)
	374	Sarah Ellen (Muleshoe Group)
	375	Sarah Jane
	376	Sarah M. (Muleshoe Group, Mystery Group)
	377	Schlee (Golden Rod Group)
	378	Sibley
	379	Silver Chief
	380	Single Jack
	381	Slick Rim
	382	Slick Rock Mill
	383	Snyder (Snyder and Peterson)
	384	Spring
	385	Spud Patch
	386	Star
	387	Start
	388	State Line
	389	Strawberry Roan
	390	Summit Incline 1 (Summit No. 21)
	391	Suncup (Puckett)
	392	Sunday Group
	393	Sundown
	394	Sundown Group
	395	Sunnyside
	396	Sunrise
	397	Sunrise 1 (one)
	398	Sunrise 3, 4 and 5
	399	Sunrise and Patented Land
	400	Sunshine 6
	401	Tallholt
	402	Texas Chief 1
	403	Tiny
	404	Topaz Group
	405	Two Bar
	406	Utah
	407	Utah 2 Lode
	408	Uncle Sam 1
	409	Uncle Sam 2
	410	Valley View
	411	Van
	412	Vanadium 7
	413	Vanadium (Middle Group)
	414	Vanadium Queen
	415	Vanura Claims
	416	Veta Med Mine
	417	Victor
	418	Victor 2
	419	Virginia
	420	Wally (Wally 1, Double Jack, Double Buck)
	421	Weatherly Claims (Evans Claims, Black King No. 5)
	422	Wedding Bell Group (Ground Hog Claims)
	423	White Star and Black King Claims
	424	Wilmarth

ALPHABETICAL LIST OF OCCURRENCES BY COUNTY

San	425	Windswept
Miguel	426	Windy Day (Bell)
	427	Wyoming
	428	Yellow Girl
	429	Yellow Girl (Lower Group)
	430	Yellowbird (Radium)
	431	Yorkton
	432	Zebra Claims AN (Yellow Jacket, D. Hattie Claims)
Summit	1	Como Claims
	2	Loveland Pass
	3	Unnamed No. 1
Teller	1	Abril Nos. 2,6,8
	2	Carl Claim No. 1
	3	Curtis, Thorpe & Green Lease (Tree No. 3)
	4	Fluorine Mine
	5	Genevieve Lode (Phonolite Mountain)
	6	High Park Prospect
	7	Hilda May Claim No. 3
	8	Lady Stith Claim (Globe Hill Group)
	9	McVey Lease
	10	Rhyolite Mountain
	11	School Section (Park City No. 1)
	12	Summit Claims; (Dandy Dollar; McDonough; Breen Extension
	13	SWQ NEQ SEC. 36
Weld	1	Eastman Basin
	2	Grover Deposit
	3	Indian Creek
	4	King Solomon
	5	Pawnee Buttes N.E.
	6	Unnamed No. 1
	7	Unnamed No. 2
	8	Unnamed No. 3
	9	Unnamed No. 4
	10	Unnamed No. 5
	11	Unnamed No. 6
	12	Unnamed No. 7
	13	Unnamed No. 8
	14	Unnamed No. 9
	15	Unnamed No. 10
	16	Unnamed No. 11
	17	Unnamed No. 12
	18	Unnamed No. 13
	19	Unnamed No. 14
	20	Unnamed No. 15
	21	Unnamed No. 16
	22	Unnamed No. 17
	23	Unnamed No. 18
	24	Unnamed No. 19
	25	Unnamed No. 20
	26	Unnamed No. 21
	27	Unnamed No. 22
	28	Unnamed No. 23
	29	Unnamed No. 24
	30	Wildhorse

Occurrences

1950

ADAMS COUNTY

There has been no production of uranium from Adams County, nor are any occurrences noted in the county.

The county is mostly covered by Quaternary alluvium, with the Cretaceous Laramie and Fox Hills Formations cropping out in the eastern part of the county.

The potential for uranium resources to be found in the county is small. The Laramie and Fox Hills do contain uranium ore bodies farther north in Weld County, and the possibility exists that these formations might contain sandstone-type uranium occurrences similar to those in Weld County.

ALAMOSA COUNTY

No occurrences of uranium have been reported in the county.

Almost the entire county is underlain by the late Tertiary Alamosa Formation, which consists of unconsolidated gravels, sands and silts. A small part of eastern Alamosa County consists of Precambrian gneisses and granitic rocks. The county lies astride

the San Luis Valley Graben, which is filled with many thousands of feet of gravels and sands similar to the Alamosa Formation.

The potential for occurrences in the county is small. The San Luis Valley sediments show the greatest potential for uranium mineralization, most probably in the form of sandstone-type occurrences.

ARAPAHOE COUNTY

No uranium occurrences have been reported in Arapahoe County. The geology of the county is relatively simple. Quaternary sands and gravels cover the western part of the county, and the Cretaceous Laramie and

Fox Hills Formations crop out along the eastern edge. These formations contain uranium in Weld County, and the same type of occurrence may be found in Arapahoe County. However, the potential for resources is small.

ARCHULETA COUNTY

Although no production is reported from Archuleta County, one occurrence has been recorded.

Archuleta County, located in the southwestern part of the state, is dominated by sedimentary rocks ranging from Pennsylvanian in the northwestern corner to Quaternary in the eastern part of the county. Three major structures dominate the county: the northwest-trending San Juan Basin in the southwest, the Archuleta Anticlinorium paralleling the San Juan Basin in the southwest, and the Chama Basin, which in turn parallels the Archuleta Anticlinorium.

No uranium production has taken place in the county, but some exploration and underground work was carried out on the Sunetha Claim Group (Sunetha Anticline). This is the only known uranium prospect in the county and is located on the Sunetha Anticline southwest of Pagosa Springs. The host for the deposit is reported to be the Jurassic Morrison Formation.

Potential for additional uranium resources in the county is small. Areas in the county that may be favorable for such resources include the northwestern section where sandstone-type occurrences may be found in the exposed Jurassic Morrison Formation.

ARCHULETA COUNTY

Sunetha Claim Group (Sunetha Anticline)

LOCATION: sec. 34, T. 35 N., R. 2 W.
LCRM The CRIB file lists this location as sec.
21, 28, T. 38 N., R. 2 W.
QUAD Pagosa Junction 15'
MAP DURANGO
DYEL Exploration and some underground work has
been carried out.
HOST The deposit occurs in beds of the Jurassic
Morrison Formation.
MNZ Uranium and vanadium mineralization were
detected, and carnotite was identified.
RMKS The CRIB reference shows this as being in
Archuleta County; however, the location
falls in Mineral County. Also there are
Tertiary volcanics at the CRIB location
and no Morrison Formation.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S.
Geol. Survey, 1977, CRIB file.

BACA COUNTY

No production of uranium and no uranium occurrences have been reported from Baca County.

The rocks exposed in Baca County are primarily of sedimentary origin, ranging in age from Permian to Quaternary. Although the surface geology of the county is largely dominated by unconsolidated Quaternary and Tertiary sediments, some Tertiary dikes and lava flows occur in the southwest. Most of the formations are flat-lying, but small monoclines and anticlines do occur.

Uranium resource potential is limited in the county. Water sampling in the central Great Plains, however, has shown some increase of uranium from the

waters in certain parts of the county. Analyses in the county from wells, streams, and springs range from less than 1 ppb to 35 ppb, with most samples ranging between 2 and 20 ppb. Values of the water samples increase near the northwest part of the county on the flank of the Las Animas Arch near Two Butte Creek and Hackberry Creek.

The most favorable formation for uranium resources in the county is the Triassic Dockum Group, which is exposed along Two Butte Creek and in the southwestern part of the county. In the past, minor gold, silver, and copper were mined from the Jurassic Entrada Sandstone, and it may also warrant further investigation for uranium occurrences.

BENT COUNTY

No uranium production has been recorded from this county. Bent County is located in the southeastern part of the state and is underlain by sedimentary rocks ranging in age from Jurassic to Tertiary. The majority of these rocks are the Lower Cretaceous Dakota Sandstone and the Upper Cretaceous Colorado Group. Surficially, the county is dominated by the flood-plain deposits of the Arkansas River.

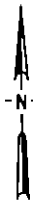
Although no uranium production has come from the county, several uranium occurrences are known. Probably the most important of these is the Allen Jones Property, which is an old copper prospect in the Jurassic Morrison Formation.

Uranium occurrences are known in the area south of the Arkansas River and in the southwestern part

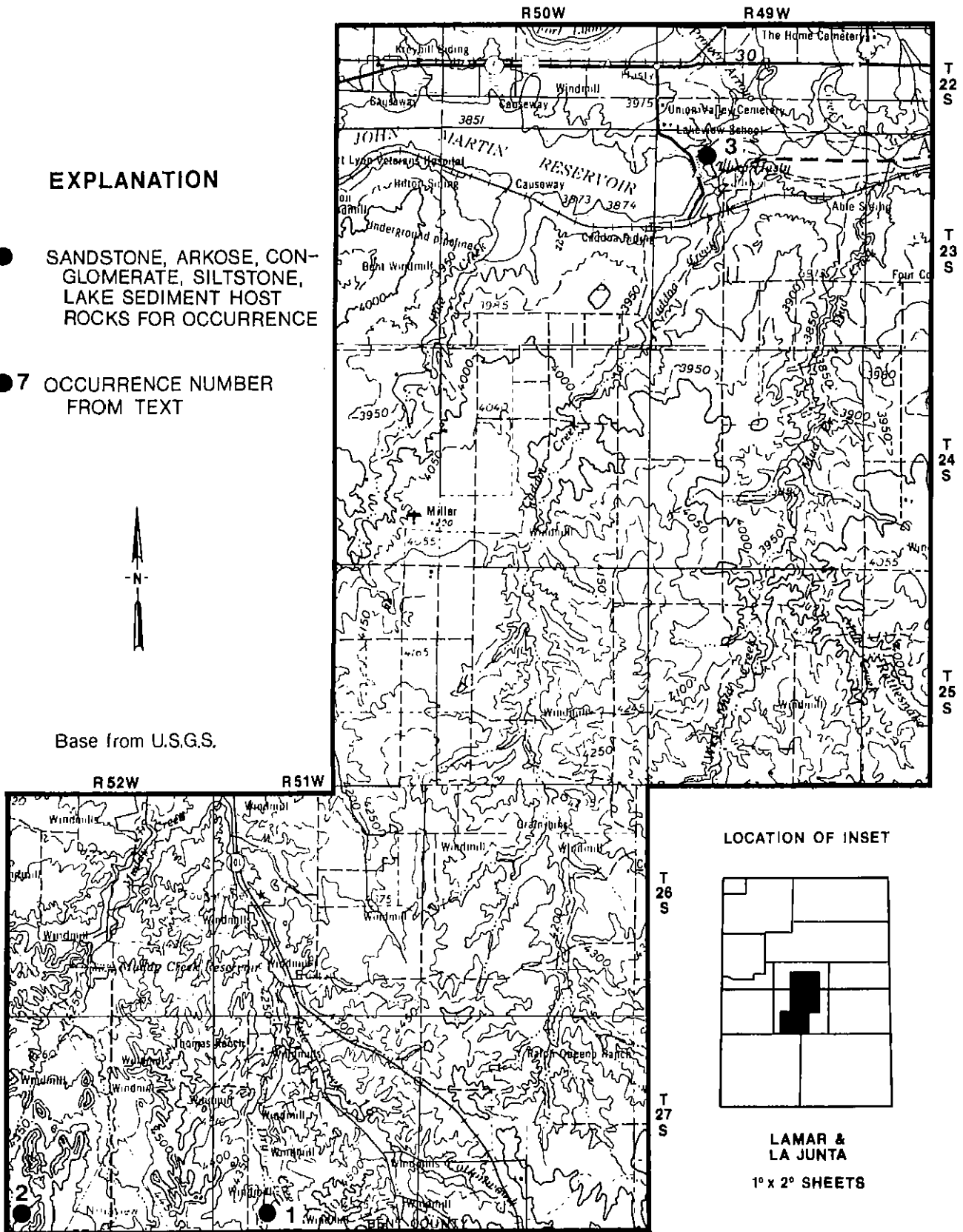
of the county. These are found in facies of the Dakota Sandstone and the Morrison Formation. These formations are also favorable for further discoveries of uranium. Due to the low topography in the county, much exploration is done by sampling wells, springs, and streams. Water sampling done by the U.S. Geological Survey showed higher than average uranium values in the Rule Creek drainage basin, especially in those areas draining the Cheyenne Sandstone Member of the Purgatoire Formation. The highest values come from samples taken on the north flank of the Las Animas Arch. Water from the Ogallala Formation north of the Arkansas River also shows high uranium values, and may warrant further study.

EXPLANATION

- SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE, LAKE SEDIMENT HOST ROCKS FOR OCCURRENCE
- 7 OCCURRENCE NUMBER FROM TEXT

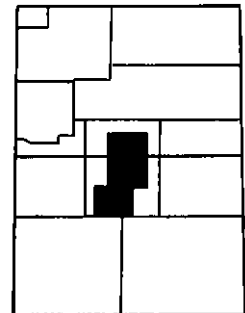


Base from U.S.G.S.



R 52W R 51W

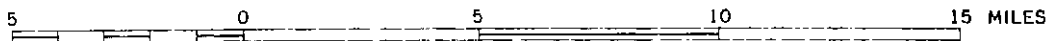
LOCATION OF INSET



LAMAR & LA JUNTA

1° x 2° SHEETS

SCALE 1:250 000



CONTOUR INTERVAL 200 FEET

Figure 9. Radioactive mineral occurrences in Bent County, Colorado.

BENT COUNTY

Allen Jones Property

LOCATION: sec. 32, T. 27 S., R. 51 W.

QUAD Ninavlew 7 1/2'

DVEL This is an old copper prospect with a pit. There was also some shallow core drilling carried out. Some copper production occurred in the past, but the mine is not now operational.

BKG .16 mr/hr

RNG .01 to .1% eU

HOST The host is upper Jurassic Morrison Formation. The mineralized horizon is a fine- to medium-grained sandstone member about ten ft thick, underlain by gray shale.

MNZ Probable secondary copper minerals and iron minerals are present. A possible uranium mineral could not be identified. Sample values are as follows: grab sample sandstone - .01 eU estimated; grab selected sandstone - .1 to .3% eU estimated; grab selected sandstone - .01 to .05% estimated; grab selected sandstone - .01% eU estimated (represents approximately 80% to 90% of deposit); grab high grade sample - 1% eU.

DOI 1954

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Bent County, Colorado.

G. R. Acton Property

LOCATION: sec. 31, T. 27 S., R. 52 W.

LCRM Three miles west of Ninavlew store.

DVEL There is one prospect pit which is now caved in.

BKG .015 mr/hr

RNG To .028 mr/hr

HOST The host is the Jurassic Morrison Formation and primarily the greenish gray shales near the top of the formation.

ALT Calcium carbonate and iron oxide are present.

MNZ A grab sample of silicified bone registered .01% estimated eU.

RMKS Bone fragments (1 x 1 1/2 ft) contain the mineralization.

DOI 1954

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Bent County, Colorado.

Unknown No. 1

LOCATION: NW1/4SW1/4 sec. 5, T. 23 S., R. 49 W.

LCRM On small scarp on north side of Arkansas River basin just east of John Martin Dam spillway; about 15 yds left of road; PRR location in error.

QUAD Hasty

BKG .008 mr/hr

RNG .032 mr/hr

HOST The host is Cretaceous Dakota Sandstone. (?) with a black, carbonaceous shale lens 3 in to 2 ft thick.

MNZ Chip sample up to 4 x b.g.

DOI 1954

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Bent County, Colorado.

BOULDER COUNTY

As of 1971, 22,127 tons containing 188,648 lb of U_3O_8 had been mined in Boulder County, making it one of the major uranium-producing counties in the state. The potential for more reserves to be found in the county is quite favorable.

The county is divided into two different geologic terranes. The eastern part of the county is underlain by sedimentary rocks, ranging from Pennsylvanian to Quaternary in age. The strata are flat-lying except near the mountain front where they are upturned to the east. West of the mountain front the Precambrian metamorphic rocks are most abundant rock type. They are cut by numerous northwest-southeast trending faults or breccia systems. They are also the hosts for the uranium producers. The most important producers in the county were the Fairday Mine and the Victory Mine.

Both of these mines lie in the Jamestown mining district, which produced gold, silver, and fluorite.

The Fairday produced 20,934 tons containing 182,679 lb of U_3O_8 , and the Victory produced 595 tons containing 1,908 lb of U_3O_8 . Both mines produced uraninite from Tertiary veins within Precambrian metamorphics and Tertiary Intrusives. The uraninite was associated with the primary precious-metal minerals and found in a number of mines. The one exception was the Fairday Mine where only pyrite and quartz were associated with the uraninite.

There is moderate potential for reserves to be found in the county. Vein-type deposits in the crystalline rocks of the Front Range have the most potential for future reserves in the county. The soda granite on Porphyry Mountain north of Jamestown is an example of alkaline rocks that are being studied as possible hosts for uranium. For further information see Murphy, M., and others, 1978, U.S. Department of Energy GJBX-(78)78, 183 p.

BOULDER COUNTY

Argo

LOCATION: sec. 13, T. 2 N., R. 73 W.
 LCRM Occurrence noted in reference as being on south central edge of the section.
 QUAD Raymond 7 1/2'
 MAP GREELEY
 DVEL This is a fluorite mine with extensive underground workings.
 PROD There has been no production of uranium.
 HOST Host is a vein in the Precambrian Silver Plume Granite.
 ALT The granite is sericitized and brecciated.
 MNZ Uranium, fluorite, gold, clay minerals abundant, galena, sphalerite, pyrite, quartz.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.

Bat Claim No. 1 (Corona Mine)

LOCATION: NW1/4NE1/4 sec. 14, T. 3 N., R. 71 W.
 MAP GREELEY
 DVEL The Corona Mine was a copper producer prior to 1900.
 MNZ A selected sample had a value of 0.282% U3O8.
 DOI 1974
 REF U.S. Geol. Survey, 1977, CRIB File.

Bell Group

LOCATION: sec. 1, T. 1 N., R. 71 W.
 LCRM Poorman Hill.
 MAP GREELEY
 HOST Poorman dike (fault zone) in Precambrian Boulder Creek Granite.
 STRC Veins cut fractures in the Poorman fault zone which is 20 to 60 ft wide.
 ALT Silicified.
 MNZ Gold - silver tellurides. Samples range from 0.0006 to 0.041 U3O8.
 DOI 1950
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado.

Black Cloud

LOCATION: sec. 12, T. 1 N., R. 72 W.
 LCRM 2 3/4 miles southeast by road from Gold Hill Village.
 MAP GREELEY
 DVEL Property is a gold silver mine.
 HOST Precambrian Boulder Creek Granite with pegmatites.
 STRC Three ft wide shear zone striking N60°E and dipping 75°NW.
 MNZ Gold, pyrite, galena, shalerite. Channel sample had a value of 17% U3O8.
 DOI 1950
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado. Goddard, E. N., 1940.

Blue Jay (Mill Tailings)

LOCATION: sec. 30, T. 2 N., R. 71 W.
 LCRM Mine is in center of section in McCorkle Gulch, 3,000 ft S20°E of Jamestown.

QUAD Boulder 7 1/2'
 MAP GREELEY
 DVEL Past producer of fluorite. Underground mining.
 PROD In 1951, 7 tons averaging 0.14% U3O8, and containing 20 lbs of U3O8 were shipped by Ozark Mahoney Co. to the mill at Rifle, Colorado.
 HOST Late Tertiary vein in granodiorite.
 ALT Host partly altered to sericite, chlorite, and clay minerals.
 MNZ Pitchblende or uraninite and uranorthorite, fluorite, galena, pyrite, quartz. Values are reported from 0.037% to 0.045% U.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. Sims, P. K., and Sheridan, D. M., 1964. Lovering, T. S., and Goddard, E. N., 1950. Argall, G. O., 1949, Colo. Sch. Mines Quart., v. 44, no. 2. Goddard, E. N., 1946, Colo. Sci. Soc. Proc., v. 15, no. 1, p. 33-34.

Brown Spar

LOCATION: NW1/4SW1/4NE1/4 sec. 24, T. 2 N., R. 72 W.
 MAP GREELEY
 DVEL A past producer of fluorite.
 HOST Vein.
 MNZ Fluorite, galena, pyrite, uranium.
 DOI 1974
 REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K., and Sheridan, 1964. Lovering, T. S., and Goddard, E. N., 1950, p. 278, fig. 77. Goddard, E. N., 1946.

Burlington

LOCATION: NE1/4NE1/4NE1/4 sec. 24, T. 2 N., R. 72 W.
 QUAD Raymond 7 1/2'
 MAP GREELEY
 DVEL A past producing fluorite mine.
 HOST Tertiary vein in (Precambrian?) granite.
 STRC Breccia zone strikes N50°E and dips nearly vertical.
 MNZ Fluorite, galena, pyrite, quartz, clay minerals, uraninite?
 DOI 1974
 REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K., and Sheridan, D. M., 1964.

Caribou Mines (Radium, Elmer and Nelson Veins)

LOCATION: sec. 8, T. 1 S., R. 73 W.
 LCRM U.S. A.E.C. Production Records also show sec. 9.
 QUAD Nederland 7 1/2'
 MAP GREELEY
 DVEL The mine is a past producer of gold and silver. No production of uranium noted.
 HOST Vein in Precambrian metamorphic and igneous rocks and Tertiary monzonite.
 MNZ Uranium content of samples range from 0.001% to 1.45% U. Vein has a quartz, carbonate gangue and ore minerals of silver, galena, pyrite, sphalerite and some uraninite. Pitchblende was produced from the radium vein only. All other veins were noted for only Pb-Ag ore.

BOULDER COUNTY

RMKS These veins are exposed in the 920 and 1,040 levels of the mine.
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). Lovering, T. S., and Goddard, E. N., 1950. Henderson, C. W., 1929.

Cerite Prospect

LOCATION: NE1/4 sec. 17, T. 2 N., R. 71 W.
 MAP GREELEY
 HOST Precambrian gneiss and schist.
 STRC Vein strikes N30°E and is 1 to 2 ft thick.
 ALT Wall rock altered to clay.
 MNZ Cerite.
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado. Goddard, E. N., and Glass, J. J., 1940.

Cloud City (Virginia, Bob, Marilyn)

LOCATION: sec. 29, T. 1 N., R. 71 W.
 QUAD Boulder 7 1/2'
 MAP GREELEY
 HOST Unnamed Precambrian granite.
 MNZ Pitchblende or uraninite and scattered sulfides.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Copper Blush

LOCATION: sec. 17, T. 2 N., R. 71 W.
 MAP GREELEY
 DVEL An inactive mine with extensive workings.
 HOST Tertiary vein in Precambrian Silver Plume Granite.
 MNZ Fluorite, pyrite, chalcopryrite, quartz, chalcedony.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K., and Sheridan, D. M., 1964.

Diamond Group

LOCATION: sec. 34, T. 2 N., R. 72 W.
 MAP GREELEY
 DVEL Two test pits.
 BKG .02 mr/hr
 RNG .02 to 4 mr/hr
 HOST Precambrian orthogneiss and Boulder Creek Granite.
 STRC Vertical shear zone striking N5°W.
 MNZ Uranophane.
 DOI 1956
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado.

Emmet

LOCATION: W1/2NE1/4NE1/4 sec. 24, T. 2 N., R. 72 W.
 QUAD Raymond 7 1/2'
 MAP GREELEY
 DVEL An inactive producer of fluorite. No production of uranium reported.
 HOST Tertiary vein in Precambrian Silver Plume Granite.
 STRC Vein follows or is part of a breccia zone.

MNZ A high grade fluorite vein with pyrite, galena, chalcopryrite, quartz, chalcedony and minor uraninite, and torbernite.
 DOI 1974
 REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K., and Sheridan, D. M., 1964. Lovering, T. S., and Goddard, E. N., 1950, p. 274-277. Argall, G. O., 1949. Goddard, E. N., 1946.

Energy

LOCATION: sec. 19, T. 2 N., R. 72 W.
 MAP GREELEY
 DVEL Pits and trenches.
 HOST Vein in (Cretaceous?) granodiorite.
 MNZ Fluorite, pyrite, quartz, (uraninite?).
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K., and Sheridan, D. M., 1964.

Fairday (Faraday, Collowa, Overland Mountain Group)

LOCATION: NW1/4SE1/4SW1/4 sec. 23, T. 2 N., R. 72 W.
 LCRM About 2 miles west of Jamestown.
 QUAD Gold Hill 7 1/2(?)'
 MAP GREELEY
 DVEL Adit shown on map.
 PROD Prior to 1971, 20,934 tons were mined at a grade of 0.44% U308, containing 182,679 lbs of U308.
 HOST Precambrian Silver Plume Granite and graphic biotite gneiss.
 MNZ Uraninite, coffinite, pyrite, galena, quartz.
 RMKS Mr. Cazier reported this mine was once owned by the La Salle Mining Co.
 DOI 1971
 REF J. H. Cazier, Personal Communication, 1977. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Production Records, Colorado. Sims, P. K., and Sheridan, D. M., 1964. U.S. A.E.C., 1959 (RME-141).

Fox Hills Outcrop

LOCATION: sec. 15, T. 1 S., R. 71 W.
 MAP DENVER
 DVEL Inactive coal mining district.
 BKG .03 - .04 mr/hr
 RNG .1 - .25 mr/hr
 HOST Cretaceous Fox Hills Sandstone.
 MNZ Abundant ilmonite.
 DOI 1953
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado.

Gibson

LOCATION: sec. 12, T. 2 N., R. 72 W.
 MAP GREELEY
 DVEL No production reported.
 MNZ Uranium.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K., and Sheridan, D. M., 1964.

Gold Lake Claims

BOULDER COUNTY

LOCATION: sec. 34, T. 2 N., R. 72 W.
 LCRM 4 miles ENE of Ward. Also in the NE1/4NW1/4 sec. 3, T. 1 N., R. 72 W.; and sec. 237, T. 2 N., R. 72 W.
 MAP GREELEY
 DVEL One shaft.
 PROD Grade reported 0.03% to 0.15% and up to 0.5% U308.
 HOST Pegmatites intruded in biotite schist of Precambrian Idaho Springs Formation.
 STRC In or near a shear zone in Precambrian Boulder Creek Granite.
 MNZ Uraninite with uranophane. Channel samples had values of 0.15% to 0.73% U308.
 DOI 1971
 REF Norman Bennette, Personal Communication, 1977. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File.

Golden Age

LOCATION: NE1/4 sec. 20, T. 2 N., R. 71 W.
 LCRM On high spur of Golden Age hill about 2,000 ft northeast from top.
 QUAD Lyons 7 1/2'
 HOST Vein in Precambrian Silver Plume Granite.
 MNZ Gold, silver, uranium, pyrite, chalcocopyrite.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K., and Sheridan, D. M., 1964.

Golden Reward

LOCATION: sec. 15, T. 1 S., R. 73 W.
 MAP DENVER
 PROD No production reported.
 HOST Vein.
 MNZ Uranium.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K., and Sheridan, D. M., 1964.

Golasmith Maid

LOCATION: sec. 13, T. 1 N., R. 72 W.
 LCRM West of Boulder on Colorado 119, 1/4 mile west of Summerville.
 MAP GREELEY
 DVEL Shaft with several levels.
 BKG .03 mr/hr
 RNG .03 to .1 mr/hr
 HOST Precambrian Boulder Creek granite.
 STRC Brecciation or a breccia reef.
 ALT Argillized, chloritized, and pyritized.
 MNZ Sooty pitchblende, pyrite, quartz, galena, sphalerite, tobernite. Chip sample had a value of 0.3% U.
 RMKS Cemented breccia contains small pods of sulfides about 1/2 in. in diameter. All radioactivity is in hanging wall of vein.
 DOI 1953
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, (Unpubl.) U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado. Sims, P. K., and Sheridan, D. M., 1964. Lovering, T. S., and Goddard, E. N., 1950. Goddard, E. N., 1940.

Grand View Lode

LOCATION: sec. 8, T. 1 N., R. 71 W.
 LCRM In Gold Hill district.
 MAP GREELEY
 BKG .03 mr/hr
 RNG .15 to .2 mr/hr
 HOST Precambrian pegmatite in Boulder Creek Granite.
 MNZ Ferberite, sylvanite, quartz.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado.

Horseshoe Lode

LOCATION: sec. 7, T. 1 N., R. 71 W.
 LCRM 1.4 miles east of Gold Hill.
 MAP GREELEY
 DVEL One tunnel 130 ft in length and one shaft 50 ft deep.
 RNG 2 x bg
 HOST Vein in Tertiary quartz monzonite.
 STRC Vein strikes E-W.
 MNZ Gold, pyrite, chalcocopyrite.
 RMKS It is reported that in 1953 the U.S. Geol. Survey carried out a radiometric survey of the property and the east tunnel.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado.

King Tunnel

LOCATION: sec. 21, T. 1 N., R. 71 W.
 MAP GREELEY
 HOST Vein in Precambrian Boulder Creek Granite.
 MNZ Base metal sulfides, uranium.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K., and Sheridan, D. M., 1964.

Kipp Lease

LOCATION: sec. 12, T. 2 N., R. 72 W.
 LCRM Also sec. 7, 8, T. 2 N., R. 71 W.
 PROD As of 1971, 30 tons were mined at a grade of 0.04% U308, producing 24 lbs of U308, 0.02% V2O5, producing 12 lbs of V2O5.
 HOST Precambrian granite.
 MNZ Uranophane.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

La Salle Claims

LOCATION: sec. 23, T. 2 N., R. 72 W.
 LCST UNLOCATABLE
 QUAD Gold Hill 7 1/2'
 MAP GREELEY
 BKG .03 mr/hr
 RNG .7 to 1.3 mr/hr
 HOST Boulder Creek Granite with gneiss and schist.
 STRC Two shear zones - one striking N11°W dipping 72°NE and the other striking N63°W and dipping 81°E.
 ALT Shear zone highly iron-manganese stained, probably a gossen.
 MNZ No minerals identified.

BOULDER COUNTY

DOI 1956
REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado.

Ladybug Claim (Suzebell, Thunderbolt)

LOCATION: sec. 20, T. 2 N., R. 71 W.
LCRM Mine ls on Golden Age Hill 1.8 miles northeast of Peaceful Valley Road. U.S. A.E.C. Production Records show this location as sec. 20, T. 2 N., R. 70 W.
MAP GREELEY
DVEL Shaft.
PROD In 1956 and 1966, a total of 47 tons averaging 0.25% U3O8 and containing 219 lbs U3O8 were mined.
BKG .05 mr/hr
RNG .05 to 5 mr/hr
HOST Precambrian schist in Silver Plume Granite.
STRC Mineralization seems to parallel near vertical schistosity, striking N50°E.
MNZ Pitchblende, torbernite, pyrite, chalcopyrite.
RMKS An eight ton ore pile was represented by grab sample which gave a reading of .5 mr/hr.
DOI 1977
REF U.S. A.E.C., 1977, Production Records, Colorado. U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado. Sims, P. K., and Sheridan, D. M., 1964.

Lease Tailings Pond (Stattendale Dump)

LOCATION: sec. 36, T. 1 N., R. 71 W.
LCRM Slag and tailings dump in city of Boulder, 200 ft west of intersection of 3rd Street and Walnut Street.
MAP GREELEY
PROD During 1955 through 1959, a total of 93 tons averaging 1.11% U3O8 was shipped to mills at Rifle and Gunnison.
MNZ Uranium recovered for tailings of old vanadium mill which was operated by VCA 1918-1919.
DOI 1973
REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado.

Lehman Lode

LOCATION: sec. 19, T. 2 N., R. 71 W.
MAP GREELEY
DVEL No production reported. Work consists of 67 ft adit.
HOST Vein.
MNZ Uranium.
DOI 1973
REF U.S. Geol. Survey, 1977, CRIB File.

Lewis Lode

LOCATION: sec. 20, T. 2 N., R. 71 W.
LCRM Top of Golden Age Hill near Golden Age Mine.
MAP GREELEY
DVEL An inactive gold mining area.
BKG .03 mr/hr
RNG .03 to 1 mr/hr
HOST Tertiary granite with schist pendants of the Precambrian Idaho Springs Formation.

STRC Joints.
MNZ Autunite, torbernite, fluorite, hematite, ilmonite, gold.
RMKS Secondary uranium minerals were found along joint planes in both lithologies.
DOI 1954
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado.

Lucky Lode

LOCATION: sec. 20, T. 2 N., R. 71 W.
MAP GREELEY
DVEL No production reported.
MNZ Uranium.
DOI 1973
REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K., and Sheridan, D. M., 1964.

Lulu B. (Victory and Gold Leaf Lodes)

LOCATION: SE1/4 sec. 19, T. 2 N., R. 71 W.
LCST UNCERTAIN
LCRM From Jamestown Post Office, go 1/4 mile southeast on county road, then 0.2 miles north on private road. Also reported in NE1/4 sec. 30.
MAP GREELEY
PROD Production for 1955-1956 reported as 400 tons at 0.2% U3O8.
BKG .03 mr/hr
RNG .03 to +5 mr/hr
HOST Tertiary quartz monzonite intrusive (dike?)
STRC Joints with no dominant orientation.
ALT (Granite?) highly weathered.
MNZ Torbernite. Six ft horizontal channel sample in middle pit had a value of 0.21% U3O8. Secondaries were only mineralization found.
DOI 1955
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado.

Marc 1

LOCATION: SW1/4 sec. 24, T. 2 N., R. 72 W.
LCRM Also reported in sec. 13.
MAP GREELEY
DVEL Prospect tunnel and pits. No production reported.
BKG .03 to .05 mr/hr
RNG .05 to 1 mr/hr
HOST Tertiary granite.
MNZ Torbernite, pyrite, bournonite, molybdenite.
RMKS Uranium mineralization occurs in talus on hillside. Source has not been determined.
DOI 1954
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado. Sims, P. K., and Sheridan, D. M., 1964. Goddard, E. N., 1946. Goddard, E. N., 1940.

Marlon Mill

LOCATION: sec. 29, T. 1 N., R. 71 W.

BOULDER COUNTY

QUAD Boulder 15'
 MAP GREELEY
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.)

Miller Lease (Miller Group, Klipp Property)

LOCATION: sec. 12, T. 2 N., R. 72 W.
 LCRM Assumed to be the Miller Group which is reported in the USGS CRIB File.
 MAP GREELEY
 PROD In 1955, 5 tons were mined at a grade of 0.40% U3O8, producing 39 lbs of U3O8.
 HOST Vein in the Precambrian Idaho Springs Formation. Granite is also reported as a host.
 RMKS Autunite.
 DOI 1971
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. Sims, P. K., and Sheridan, D. M., 1964

Miranda A. Johnson Lode

LOCATION: NW1/4 sec. 18, T. 2 N., R. 71 W.
 MAP GREELEY
 DVEL Small workings with no production reported.
 BKG .03 mr/hr
 RNG .03 to .5 mr/hr
 HOST Precambrian Silver Plume granite with pegmatite.
 STRC Fracture surfaces.
 ALT Clay minerals.
 MNZ Meta - autunite. Grab sample of altered granite had a value of 0.055% U3O8.
 DOI 1955
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado. Sims, P. K., and Sheridan, D. M., 1964. Lovering, T. S., and Goddard, E. N., 1950.

Mountain Goat (Mountain Goat Claim No. 1)

LOCATION: NW1/4NW1/4 sec. 2, T. 1 S., R. 74 W.
 LCRM On Middle Fork of North Boulder Creek.
 QUAD East Portal 7 1/2'
 MAP DENVER
 PROD In 1956, 4 tons were mined at a grade of 0.11% U3O8, producing 8 lbs of U3O8.
 BKG .02 mr/hr
 RNG .02 to 1.0 mr/hr
 HOST The host is Precambrian Boulder Creek Granite and Idaho Springs Formation, with pegmatite. The radioactivity is associated with coarse-grained biotite in pegmatites and on joints and fractures in a hornblende gneiss.
 STRC Fractures and joints helped control ore emplacement.
 MNZ Autunite, molybdenite, fluorite, chalcopryrite, and specular hematite are all present. Sample had a value of 0.01 to 0.2% eU3O8.
 DOI 1954
 REF Robert U. King, 1977, Personal Communication. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1977, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado.

Nations Treasure

LOCATION: sec. 24, T. 2 N., R. 72 W.
 MAP GREELEY
 PROD No production reported.
 HOST Vein in Precambrian Silver Plume granite.
 MNZ Torbernite, pyrite, fluorite, galena, quartz, chlorite, clay minerals, chalcedony.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K., and Sheridan, D. M., 1964.

No Scoop Claim

LOCATION: sec. 20, T. 2 N., R. 72 W.
 LCRM From Jamestown, drive 5/8 mile west along Jamestown road. Claim is 1,500 ft south of road.
 MAP GREELEY
 PROD No production reported.
 BKG .04 mr/hr
 RNG .7 to 5 mr/hr
 HOST Tertiary granite (Monzonite?).
 STRC Breccia zone?
 ALT Silicification.
 MNZ Dark quartz, fine-grained pyrite. An 0.8 ft channel sample had a value of 0.16% U3O8.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado. Sims, P. K., and Sheridan, D. M., 1964.

North St. Vrain Uranium

LOCATION: T. 3 N., R. 71 W.
 LCST UNKNOWN
 MAP GREELEY
 MNZ Uranium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.)

Orion

LOCATION: sec. 24, T. 2 N., R. 72 W.
 MAP GREELEY
 PROD No production reported.
 HOST Vein in (Cretaceous?) granodiorite.
 MNZ Uranium, fluorite, quartz.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K., and Sheridan, D. M., 1964.

Poorman

LOCATION: NW1/4 sec. 30, T. 2 N., R. 71 W.
 LCRM On a low flat ridge 1,200 ft S35°W of Jamestown at an elevation of 7,200 ft.
 MAP GREELEY
 DVEL No production reported.
 HOST Vein in (Cretaceous?) granodiorite.
 STRC Vein strikes N25°W and dips 80°NE, width is 2 to 3 ft.
 MNZ Uranium, fluorite, gold, galena, pyrite, quartz, carbonate minerals, clay minerals, biotite.

BOULDER COUNTY

DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K., and Sheridan, 1964. Argall, G. O., 1949. Goddard, E. N., 1946

Pueblo Belle Mine

LOCATION: SE1/4NW1/4 sec. 31, T. 1 N., R. 71 W.
 LCRM Along Black Tiger Gulch.
 QUAD Gold Hills 7 1/2'
 MAP GREELEY
 PROD No production reported.
 HOST Vein in Precambrian Boulder Creek Granite.
 STRC Vein is in a wider breccia zone.
 ALT Wall rock is reported as being altered.
 MNZ Iron, ferberite, gold, uranium, quartz, pyrite. Channel sample 0.008% U308 and grab sample - 0.017% U308.

DOI 1950
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado. State of Colorado Metal Mining Fund Board, 1960. Sims, P. K., and Sheridan, D. M., 1964. Langenheim, 1947, Colorado Univ. M.S. Thesis. Langenheim, R. L., 1947. Goddard, E. N., 1940.

Rose Mary 3

LOCATION: sec. 4, T. 3 N., R. 70 W.
 QUAD Hygiene 7 1/2'
 MAP GREELEY
 BKG .04 mr/hr
 RNG .04 to 17 mr/hr
 HOST Cretaceous Dakota Sandstone, conglomerate at base of formation.
 STRC Mineralization is in overturned limb of isoclinal fold in and adjacent to small sills.
 MNZ Sooty minerals (pitchblende) and limonite. Grab sample had a value of 0.13% U, a one ft channel sample had a value of 0.009% U.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado. Sims, P. K., and Sheridan, D. M., 1964.

Shirley Mine

LOCATION: NW1/4 sec. 19, T. 1 S., R. 73 W.
 LCRM Located about 6 miles west of Nederland.
 MAP DENVER
 DVEL Adit about 600 ft long.
 PROD Values reported of 0.001 to 0.034% U.
 HOST Vein is manzonite intrusive into Precambrian Idaho Springs Formation.
 STRC Vein strikes N10°E and dips 70°SE.
 MNZ Sylvanite, quartz, gypsum, pyrite.
 RMKS Only reference to radioactivity is the following statement: "Radioactive mineral not identified" and an analysis of 0.01% U308."
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado. Sims, P. K., and Sheridan, D. M., 1964.

Sisk Property

LOCATION: S1/2 sec. 2, T. 3 N., R. 71 W.
 LCRM 3 miles northwest of Lyons and 1/4 mile north of State Highway 66.
 MAP GREELEY
 DVEL Several holes drilled by Kerr McGee and Public Service Co. of Oklahoma.
 PROD In 1959 and 1960, a total of 12 tons averaging 0.37% U308 and containing 86 lbs U308 was produced.
 HOST Gneiss and pegmatites - vein?
 STRC A shear zone controls the mineralization in part.
 MNZ 0.05 to 2.8% U308 in drill holes,, minor malachite. Graphite, molybdenum.
 RMKS Public Service Co. of Oklahoma drilled the property in 1975-1976. Primary mineralization is altered fault zone in porphyry and pegmatite. Porphyry is silicified. Mineralization is spotty but was still occurring at 600 ft. Assays have values up to 3% in the brecciated pegmatite zone. "Thin seams of pitchblende occur in subsidiary fractures on the footwall or NE side of a NW striking shear."
 DOI 1976
 REF Norman Bennette, 1977, Personal Communication. Larry Millikan, 1977, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Boulder County, Colorado. Sims, P. K., and Sheridan, D. M., 1964.

Terror-Roseberry

LOCATION: sec. 21, T. 1 S., R. 73 W.
 MAP DENVER
 DVEL 200 ft shaft with 700 ft of drifting.
 MNZ Uranium, quartz, pyrite, telluride.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K., and Sheridan, D. M., 1964.

Unknown 1

LOCATION: sec. 7, T. 1 N., R. 71 W.
 LCRM Sec. 8 also listed in reference.
 MAP GREELEY
 PROD No production reported.
 HOST Precambrian Boulder Creek Granite.
 MNZ Uranium.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K., and Sheridan, D. M., 1964.

Unknown 2

LOCATION: sec. 18, T. 1 N., R. 71 W.
 LCRM Locations 22 and 41 in figure 2 of Campbell, R. H., 1955, USGS TEM 563-A.
 MAP GREELEY
 DVEL Two mines.
 HOST Vein in Precambrian Boulder Creek Granite.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K., and Sheridan, D. M., 1964. Campbell, R. H., 1955.

Boulder County

Unknown 3

LOCATION: sec. 17, T. 1 N., R. 71 W.
LCRM Locations 24 and 49 in figure 2 in Campbell,
R. H., 1955, USGS TEM 563-A.
MAP GREELEY
HOST Vein in Precambrian Boulder Creek Granite.
MNZ Uranium.
DOI 1973
REF U.S. Geol. Survey, 1977, CRIB File. Sims,
P. K., and Sheridan, D. M., 1964. Campbell,
R. H., 1955.

Unknown 4

LOCATION: sec. 12, T. 1 N., R. 72 W.
LCRM This is locality 36 in figure 2 of Campbell,
R. H., 1955, USGS TEM 563-A.
MAP GREELEY
PROD No production reported.
HOST Vein in Precambrian Boulder Creek Granite.
MNZ Uranium.
DOI 1973
REF U.S. Geol. Survey, 1977, CRIB File. Sims,
P. K., and Sheridan, D. M., 1964. Campbell,
R. H., 1955.

Unknown 5

LOCATION: sec. 13, T. 1 N., R. 73 W.
LCRM Location 87 in figure 2 of Campbell, R.
H., 1955.
MAP GREELEY
PROD No production reported.
HOST Vein in Precambrian Boulder Creek granite.
MNZ Uranium.
DOI 1973
REF U.S. Geol. Survey, 1977, CRIB File. Sims,
P. K., and Sheridan, D. M., 1964. Campbell,
R. H., 1955.

Victory

LOCATION: NE1/4 sec. 30, T. 2 N., R. 71 W.
LCRM About 1/2 mile east of Jamestown on southwest
slope of Golden Age hill, also includes
SE1/4 sec. 19.
QUAD Boulder 7 1/2'
MAP GREELEY
PROD In 1955 and 1956, a total of 595 tons were
mined at a grade of 0.16% U308, producing
1,908 lbs of U308.
HOST Veins in a late Tertiary intrusive.
MNZ Uranium, copper, uranium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S.
A.E.C., 1977, Production Records, Colorado.
U.S. Geol. Survey, 1977, CRIB File. Sims,
P. K., and Sheridan, D. M., 1964. U.S. A.E.C.,
1959, (RME-141).

CHAFFEE COUNTY

AEC records show no production of uranium from Chaffee County. Potential for reserves to be found within the county is small.

Chaffee County is situated in the central part of the state. The Arkansas River flows south through the east-central part of the county. Sedimentary rocks of Cambrian to Permian age and Precambrian granites cover the quarter of the county east of the alluvial valley of the Arkansas River. Precambrian gneisses and schists dominate the northwestern, southwestern, and southeastern areas. Later Tertiary (primarily Miocene) extrusives are often found associated with these early Tertiary intrusives. Several base- and precious-metal mining districts are located in the mountainous areas.

Uranium is found in a number of mines in the metal mining districts of the county, but all of the mine production was base- and precious-metals or other products, with none for uranium.

The largest concentrations of radioactive occurrences are located in mines and prospects east of the Arkansas River. Most of the occurrences are clustered in T 14 S, R 77 W (near the Free Gold and Trout Creek districts) and in the Calumet district.

There is some potential for reserves of uranium to be found in the county. The area with the greatest potential for new uranium reserves is the Monarch mining district. Although that part of the district within Chaffee County has had no uranium production, the portions within Gunnison and Saguache Counties have reported some, with new production about to begin. Such basic structures as the Chester Fault, which extends into Chaffee County, may contain mineralization. Any additional areas within the county where Precambrian complexes are intruded by the varied Tertiary intrusives provide favorable areas for prospecting for vein-type uranium deposits.

CHAFFEE COUNTY

Clara May Pegmatite Quarry

LOCATION: NE1/4 sec. 11, T. 14 S., R. 77 W.
 LCRM "South side of Colorado 285. The quarry is five miles west of Trout Creek Pass."
 QUAD Antero Reservoir 15'
 MAP PUEBLO
 DVEL Feldspar has been produced from open cuts. One cut measures 100 x 40 x 30 ft.
 HOST The host is Precambrian Pikes Peak Granite, intruded by pegmatites, and locally capped by Tertiary volcanics and cut by Tertiary dikes.
 STRC The pegmatite strikes N85°E., is relatively flat lying, and measures 175 x 70 x 30 ft.
 MNZ Euxenite and allamite have been found in highly radioactive pods in the pegmatite. Bismutite and bismutinite are present in the quartz - feldspar, zoned pegmatite, along with garnet and rare earths.
 DOI 1953?
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Chaffee County, Colorado. Heinrich, E. William, & Bever, James E., 1957, Colo. School of Mines Quarterly, v. 52, no. 4, p. 18. Argall, George O., Jr., 1949, Colo. School Mine Quarterly, v. 44, no. 2, p. 160-161. Heinrich, E. William, 1948. Heinrich, E. William, 1948.

Cosmo Claims No. 1 and 2

LOCATION: T. 14 S., R. 77 W.
 LCST UNLOCATABLE
 LCRM The claims are about 10 miles S87°E from Buena Vista.
 QUAD Antero Reservoir 15'
 MAP PUEBLO
 DVEL There are several small prospect pits.
 BKG .15 mr/hr
 RNG 2.8 to 3.8 mr/hr
 HOST The occurrence is in pegmatites cutting Precambrian granite.
 STRC The radioactive zone trends due north for 1,500 ft and is 30 to 40 ft wide.
 MNZ The radioactive minerals (not identifiable megascopically) occur as fracture coatings and disseminations in pegmatitic granites. Assays had values of 0.041% to 0.060% U308, and 0.034% to 0.040% U308.
 DOI 1951
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Chaffee County, Colorado.

Gold Bug Claim

LOCATION: sec. 21, T. 51 N., R. 9 E.
 LCRM The claim is 1/2 mile northeast of Turret on the south side of the truck trail.
 QUAD Cameron Mountain 15'
 MAP PUEBLO
 DVEL The Gold Bug shaft was reportedly sunk to a depth of 500 ft. It was originally developed as a gold mine. The underground workings

are now caved and abandoned.
 BKG 60 cps
 RNG 300 to 950 cps
 HOST The shaft is sunk in Precambrian granite.
 MNZ Mineralization is in narrow veins of quartz with scant gold-bearing pyrite and ilmonite. The veins strike N80°W and dip 76°N. A grab sample from the dump shows 0.46% eU, 0.28% U and 0.05% V205. Several other samples assay between 0.002 and 0.012% U308. However, the radioactivity was found in only a small area of the dump. The anomaly could not be located in 1977.
 DOI 1952
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Chaffee County, Colorado.

Josephine Mine

LOCATION: SW1/4 sec. 35, T. 12 S., R. 79 W.
 LCST UNCERTAIN
 LCRM "The mine is ten miles north of Buena Vista on U.S. 285, then cross the Arkansas River on the dirt road at the fire station. The mine is 59 yds east of the river."
 QUAD Buena Vista 15'
 MAP MONTROSE
 DVEL There is one tunnel that is 305 ft long.
 RNG To 3 x bg
 HOST The host consists of Tertiary rhyolite and diabase dikes in gneiss of the Precambrian Pikes Peak Granite. The radioactivity is confined to serpentized diabase in a 2-ft wide shear zone at the contact between the diabase and the granite.
 STRC Minor shears also show some radioactivity in the area of the major shear zone.
 MNZ The radioactive minerals are unknown, but could be associated with ilmonite staining in the shear zone.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Chaffee County, Colorado.

Little Jimie 5

LOCATION: NW1/4NE1/4 sec. 6, T. 49 N., R. 7 E.
 QUAD Poncha Springs 15'
 MAP MONTROSE
 DVEL There is an adit bearing southeast into the hill. It is inaccessible, but was reported to be 600 ft long.
 BKG .1 mr/hr
 RNG To .7 mr/hr
 HOST The mineralization occurs in veins (Tertiary?) cutting Precambrian granite and schist.
 STRC The vein appears to strike E to NE, and dips steeply.
 MNZ Primary ore minerals include chalcopyrite, galena, and thorite (?). Secondary minerals present are malachite and azurite, with quartz and ilmonite forming the gangue. The ores and gangue are intergrown and crudely banded.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Chaffee County, Colorado.

CHAFFEE COUNTY

Lucky Break Placer (Lucky Break Iron Mine)

LOCATION: SW1/4NW1/4 sec. 2, T. 50 N., R. 9 E.
 QUAD Cameron Mountain 15'
 MAP PUEBLO
 DVEL There is an open pit, roughly 150 ft in diameter and 100 ft deep, with a 75 ft adit.
 HOST The host is an undifferentiated limestone composed of Upper Devonian Dyer Dolomite (Chaffee Group) and Mississippian Leadville Limestone.
 STRC The deposit lies on a N to NW trending normal fault which dips steeply to the east.
 ALT Intense alteration has taken place and obscured the fault in the vicinity of the mine.
 MNZ Mineralization consists of massive red and black bands of iron oxides (hematite, goethite) replacing the limestone. Grab samples of these iron oxides assayed between 0.002 and 0.069% eU308, while assay data submitted by the owner to the U.S. A.E.C. showed 0.23 to 0.30% U308. The more radioactive samples show small fractures filled with late quartz. The radioactive specimens are also enriched in Cu, Zn, Co, Be, Y, while being depleted in Al, Ti, Ca, Mg, Na, K, Ba, Sr, Ga, Zr, as compared to the nonradioactive specimens.
 DOI 1959
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Chaffee County, Colorado. Lovering, T. G., and Beroni, E. P., 1959, p. 356-358.

Lucky John 2

LOCATION: sec. 22, T. 51 N., R. 9 E.
 QUAD Cameron Mountain 15'
 MAP PUEBLO
 DVEL The owners sank a small shaft on a 4 ft dike.
 BKG .08 mr/hr
 RNG to .12 mr/hr
 HOST The host rock is Precambrian granite cut by a ferromagnesian dike.
 STRC The dike strikes N76°E and dips 80°NW.
 MNZ The radioactivity is moderate, and is associated with magnetite. Samples collected assayed 0.061 to 0.098% U308, 0.54 to 0.74% ThO2, and 1.02 to 1.58% rare earths.
 DOI 1952-1954
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Chaffee County, Colorado.

Madonna Mine

LOCATION: NW1/4 sec. 4, T. 49 N., R. 6 E.
 LCST UNSURVEYED
 LCRM The deposit also extends to sec. 33, T. 50 N., R. 6 E.
 QUAD Garfield 15'
 MAP MONTROSE
 DVEL There are at least 12,000 ft of workings, most of which are inaccessible. The vertical range of the workings is about 1,525 ft.
 BKG .1 mr/hr
 RNG To .6 mr/hr
 HOST The wallrocks of the mine are Precambrian granite and Ordovician Manitou Dolomite.
 STRC The Madonna Fault cuts through the mine, and strikes N25-50°W, dipping 85 to 90°SW.

The ore occurs as a replacement in the dolomite along the fault.

MNZ The mine was worked for gold, silver, lead, zinc, and copper. Galena and pyrite are present with a gauge of quartz, pyrite, calcite, dolomite, and sparse ilmonite. Samples range from 0.004 to 0.11% eU308 and between 0.012 to 0.15% U308. The most radioactive material is a secondary gauge of carbonate, calcite, and some chlorite.
 REF U.S. Bur. of Mines, 1977, (Unpubl.) U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Chaffee County, Colorado. Dings, M. G., and Robinson, C. S., 1957, Geology and ore deposits of the Garfield Quadrangle, Colorado: U.S. Geol. Survey Prof. Paper 289, 110 p. Crawford, R. D., 1913, Geology and ore deposits of the Monarch and Tomich Districts, Colorado: Colo. Geol. Survey Bull. 4, p. 235-243.

Mica Beryl Claims (Falfar, Gray Hen)

LOCATION: sec. 27, T. 51 N., R. 9 E.
 QUAD Cameron Mountain 15'
 MAP PUEBLO
 DVEL The claim was located in 1942, and produced some feldspar and mica.
 PROD Twenty-one tons of beryl were mined that brought \$203/ton. During 1949-50, the mine produced 5,000 tons of feldspar and 300 tons of scrap mica.
 HOST The host rock is a pink, medium- to coarse-grained Precambrian granite with visible flow structures and a prominent joint set. Pegmatite dikes cut the granite.
 STRC The joint set possibly controlled the emplacement of the pegmatite dikes. They strike N80°E and dip 70°N.
 MNZ Mineralization lies in the zoned pegmatite which consists of extremely coarse-grained quartz (crystals up to 2 ft in diameter) intergrown with a good grade of feldspar and mica. Some beryl is present in crystals up to 6 in. in diameter. Close examination of several areas of abnormal radioactivity revealed small amounts of monazite and samarskite. Assay of three selected samples had values up to 1.29% U308.
 DOI 1950
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Chaffee County, Colorado.

Mount Antero Pegmatites

LOCATION: W1/2 sec. 7, T. 51 N., R. 7 E.
 LCST UNCERTAIN
 QUAD Poncha Springs 15'
 MAP MONTROSE
 HOST The host is Tertiary Antero granite, a stock containing pegmatites and microclitic cavities.
 MNZ Brannerite, beryl, phenakite, bertrandite, fluorite, and titanite - rutile are present in the quartz - microcline pegmatite.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Chaffee County, Colorado. Adams, John W., 1953. Switzer, George, 1939, Am. Mineral.

CHAFFEE COUNTY

Newett (Trout Creek, View No. 2, Lucky Jack)

LOCATION: sec. 1, T. 14 S., R. 77 W.
 LCRM The deposit extends to sec. 2, 3 and 10.
 QUAD Antero Reservoir 15'
 MAP PUEBLO
 HOST Pegmatite.
 MNZ Monazite, euxenite, and other rare earth minerals are present in a pegmatite.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File.

No. 8

LOCATION: sec. 17, T. 14 S., R. 77 W.
 QUAD Buena Vista 15'
 MAP MONTROSE
 DVEL The pegmatite was mined for potash feldspar by a two level open cut and adit.
 STRC The pegmatite is 300 x 40 ft, and is shallow and lenticular with two zones. It strikes N85°E.
 MNZ Quartz, pink microcline, and sericitized plagioclase are the primary minerals with euxenite, allanite, garnet, and biotite.
 DOI 1957
 REF Argall, George O., Jr., 1949, Colo. School Mines Quarterly, v. 44, no. 2, p. 161.

Once Again Claim

LOCATION: SE1/4NE1/4 sec. 31, T. 51 N., R. 9 E.
 LCST UNSURVEYED
 QUAD Poncha Springs 15'
 MAP MONTROSE
 DVEL The mine was worked for copper around 1930. The main workings are caved, but there were probably about 200 ft of drifting.
 BKG .005 mr/hr
 RNG .01 to .015 mr/hr
 HOST The host consists of Precambrian schist and gneiss.
 STRC Small mineralized fractures parallel foliation of the host rocks, with a strike of S80°E and a dip of N40°W.
 MNZ The main vein has gray colored gouge 0.5 to 1.0 ft wide. The footwall is fractured and slightly silicified for a thickness of one ft. Some malachite stain is present in the gouge.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Chaffee County, Colorado.

Pegmatite Quarry

LOCATION: sec. 34, T. 13 S., R. 77 W.
 LCST UNCERTAIN
 LCRM "South side of Colorado 285. The quarry is two miles west of Trout Creek Pass."
 QUAD Antero Reservoir 15'
 MAP PUEBLO
 DVEL Feldspar has been produced from open cuts.
 HOST The host is Precambrian Pikes Peak Granite, intruded by pegmatites and locally capped by Tertiary volcanics and cut by Tertiary dikes.
 MNZ Euxenite has been found in highly radioactive pods in the pegmatite. The pods also contain

bismutite and bismutinite, with quartz - feldspar in typical zones. Tourmaline is present as an accessory mineral.

DOI 1953?
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Chaffee County, Colorado. Heinrich, E. William, 1948.

Pegmatites

LOCATION: sec. 3?, T. 15 S., R. 77 W.
 LCST UNLOCATABLE
 LCRM The deposit is 6 to 7 miles southeast of Buena Vista on the east side of the Arkansas River, on county road #70.
 QUAD Buena Vista 15'
 MAP PUEBLO
 DVEL There are 30 to 50 ft of open-cut workings.
 HOST The radioactive pegmatites cut Pikes Peak Granite. There is a local capping of the granite by rhyolite flows.
 RMKS The radioactivity appears to be caused by rare-earth minerals concentrated in the pegmatites. Minerals found included allanite and euxenite.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Chaffee County, Colorado.

Ramsey Mines

LOCATION: sec. 2, T. 50 N., R. 9 E.
 LCRM Also sec. 3.
 QUAD Cameron Mountain 15'
 MAP PUEBLO
 DVEL There is a 35 ft tunnel from the roadside through a small hogback to an open pit where black manganese-iron ore was mined. Probably about 200 tons were shipped.
 BKG .02 mr/hr
 RNG .04 to .08 mr/hr
 HOST The deposit lies in Precambrian schists about 200 yds west from the contact with a Precambrian granite.
 MNZ Hematite and pyrolusite were noted.
 DOI 1953?
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Chaffee County, Colorado.

Silver Crop Mine

LOCATION: sec. 22, T. 12 S., R. 81 W.
 LCST UNSURVEYED
 LCRM The mine is two miles northeast of Winfield, 800-1,000 ft above the valley floor.
 QUAD Mount Harvard 15'
 MAP MONTROSE
 DVEL The mine is a past producer of silver. It has approximately 500 ft of workings.
 HOST The deposit is of a fissure vein type in a Tertiary monzonite stock.
 ALT The wall rock is argillized and silicified.
 MNZ Samples collected from a pile of ore on the Silver Crop dump assay 15.22% Ag, 0.11% Pb, 0.00X% Mo, and between 0.026 to 2.99% U308. The ore is primarily silver-bearing galena and sphalerite, with small amounts of pyrite and chalcopyrite. Radioactive

CHAFFEE COUNTY

minerals occur in the pyritic ore, some of which is brecciated, and all of which shows hematitic alteration. The latter ore is unlike the rest of the ore on the dump. This mine and the Swiss Boy Mine are close to each other and appear to be very closely related. The same information was given for both mines.

RMKS
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Chaffee County, Colorado.

Swiss Boy Mine

LOCATION: sec. 22, T. 12 S., R. 81 W.
 LCST UNSURVEYED
 LCRM The claim is 1/2 mile east of Winfield, 1,000 ft above the valley floor on the north slope.
 QUAD Mt. Harvard 15'
 MAP MONTROSE
 DVEL The mine was a producer of gold and small amounts of lead and silver around 1900.
 BKG .3 mr/hr
 RNG To 20.0 mr/hr
 HOST The host rock is reported to be a Tertiary Intrusive that is probably quartz monzonite cut by a decomposed quartz porphyry dike.
 MNZ The ore consists of gold-bearing pyrite, some galena, sphalerite and probably argentite and molybdenite. The gangue is quartz, pyrite, with associated pitchblende, chalcopyrite, hematite, and some calcite. Assays show 0.026% to 2.99% U3O8, 15.22 oz/ton Ag, 0.11% Pb, and 0.00X% Mo.
 DOI 1973, 1952
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Chaffee County, Colorado. Howell, J. V., 1919, Twin Lakes District of Colorado: Colo. Geol. Survey Bull. 17, 106 p.

Unnamed 1

LOCATION: NW1/4SW1/4NE1/4 sec. 34, T. 14 S., R. 77 W.
 LCST UNSURVEYED
 QUAD Antero Reservoir 15'
 MAP PUEBLO
 HOST Pegmatite.
 MNZ Monazite, euxenite, and other rare earths all present in a pegmatite.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File.

Unnamed 2

LOCATION: NE1/4NW1/4 sec. 6, T. 14 S., R. 77 W.
 LCST UNSURVEYED
 QUAD Buena Vista 15'
 MAP MONTROSE
 HOST Pegmatite.
 MNZ Monazite, euxenite and other rare earth minerals are present in the pegmatite.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File.

Unnamed 3

LOCATION: S1/2NE1/4 sec. 22, T. 13 S., R. 77 W.
 QUAD Antero Reservoir 7 1/2'
 MAP PUEBLO
 HOST Pegmatite.
 MNZ Monazite, euxenite, and other rare earth minerals are present in a pegmatite.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File.

Yard Mine

LOCATION: sec. 26, T. 13 S., R. 78 W.
 LCRM "5 miles east on Colo. 24 from Junction of U.S. 24 and Colo. 285, thence north on dirt road at McGee Gulch for about 4 miles."
 QUAD Buena Vista 15'
 MAP MONTROSE
 DVEL Feldspar was produced from an open cut, roughly 200 x 50 ft.
 HOST The host rock is Precambrian Pikes Peak Granite, cut by pegmatites. The granite and pegmatites are unzoned.
 STRC The pegmatite strike N43°E with a slight southeasterly dip.
 MNZ The radioactivity is limited to 2 to 3 ft "pods" at a zoned contact between the feldspar core and the quartz-feldspar zone. Minerals are euxenite and monazite in a microcline-quartz pegmatite.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Chaffee County, Colorado. Ballie, William N., 1962, Feldspar occurrences in Colorado: Colo. School of Mines Mineral Industries Bulletin, v. 5, no. 4, p. 4. Argall, G. O., Jr., 1949, Colo. School of Mines Quarterly, v. 44, no. 2, p. 161. Heinrich, E. W., 1948.

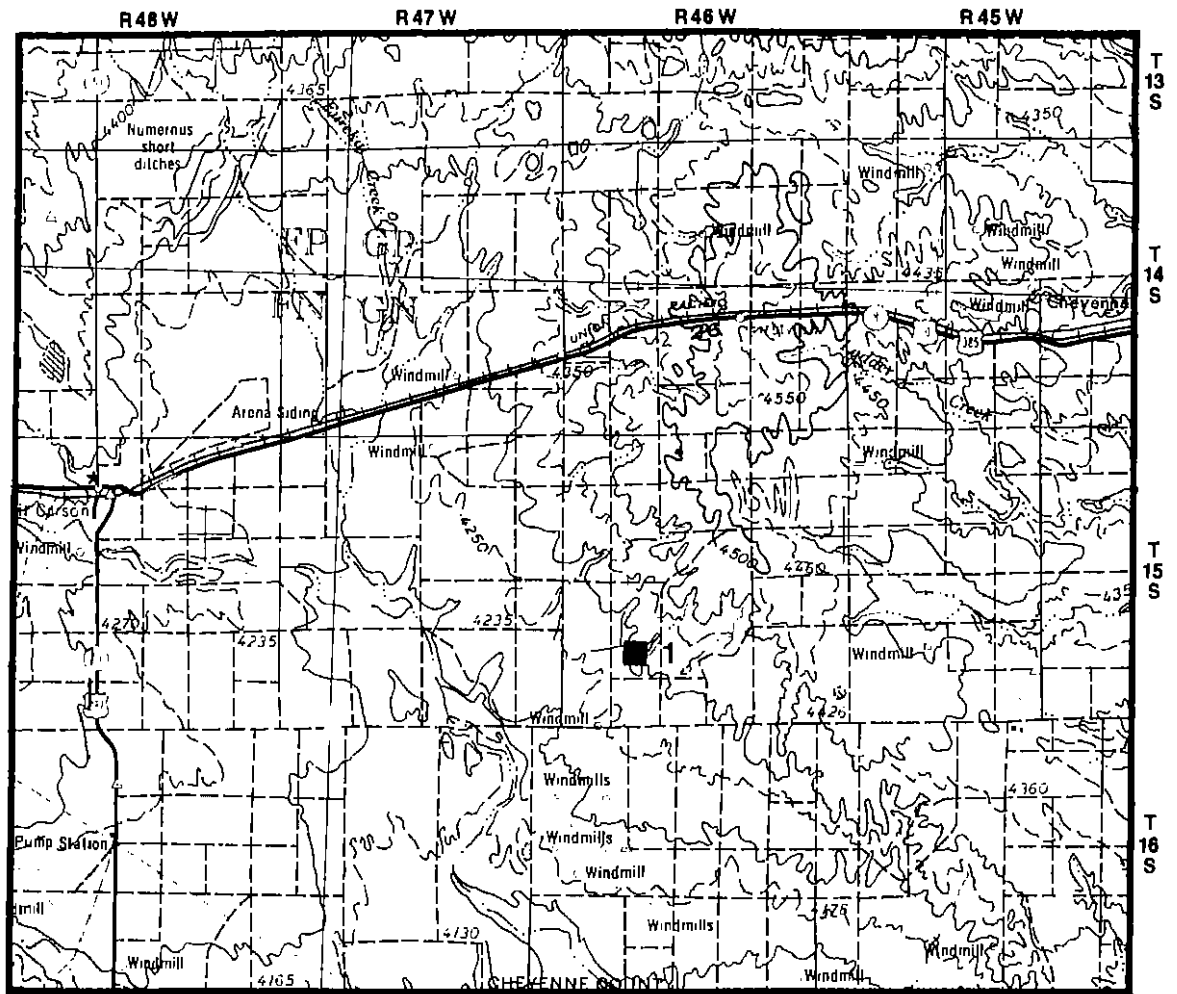
CHEYENNE COUNTY

There has been no uranium production from Cheyenne County. Cheyenne County is located on the eastern plains of Colorado. The county is both topographically and geologically flat-lying, with Upper Cretaceous Pierre Shale surfacing in the western half and Miocene-Pliocene Ogallala Formation in the eastern half. Upper Cretaceous rocks crop out along the stream beds of Rush Creek and Big Sandy River.

The one small uranium occurrence that has been recorded in the county is located in the Sharon Springs Member of the Pierre Shale.

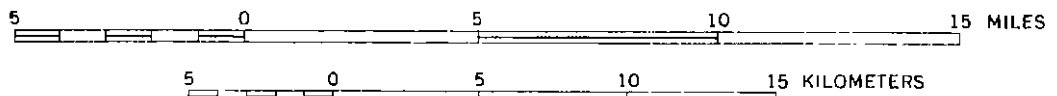
Due to lack of outcrops within the county, much of the exploration to date has been in the form of water sampling of wells, springs, and streams. Higher than average uranium values have come from samples taken from drainages on the northern flank of the Las Animas Arch. Water from the Ogallala Formation shows higher than average uranium values. Both the Sharon Springs Member of the Pierre Shale and the Ogallala Formation are favorable units for further exploration for uranium resources.

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SCALE 1:250 000



CONTOUR INTERVAL 200 FEET

EXPLANATION

- COAL, SHALE, LIMESTONE
HOST ROCKS FOR OCCURRENCES
- 7 OCCURRENCE NUMBER FROM TEXT

LOCATION OF INSET
Cheyenne Co.



LAMAR
1° x 2° SHEET

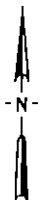


Figure 10. Radioactive mineral occurrences in Cheyenne County, Colorado.

CHEYENNE COUNTY

Unnamed 1

LOCATION: sec. 29, T. 15 S., R. 46 W.

HOST The host is the Sharon Spring Member of the Upper Cretaceous Pierre Shale.

MNZ Uranium is present, although the form of mineralization is unknown. A sample assayed .006% U.

DOI 1973

REF U.S. Geol. Survey, 1977, CRIB File. Landis, E. R., 1959.

CLEAR CREEK COUNTY

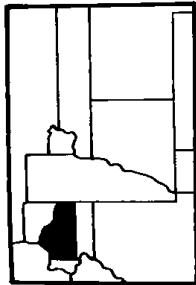
Clear Creek County, located within the Front Range mineral belt, is the site of several famous metal-mining districts that were active during the late 1800's and early 1900's. Precambrian rocks of the Idaho Springs Formation, the Boulder Creek Granite, and the Silver Plume Granite cover much of the county. Sills, dikes, and stocks of early Tertiary age intrude the Precambrian rocks, and many of the county's ore deposits are associated with these intrusive porphyries. Uranium occurs as a localized, minor component of many of these ore deposits.

Of 66 known uranium occurrences within the county, only five have recorded production, and that totalled only 162 tons of ore at an average grade of 0.16 percent U_3O_8 , producing 518 pounds of U_3O_8 .

The Highlander Mine and the Spanish Bar Mine produced the largest amounts of uranium ore in the county. The Jo Reynolds and Almaden Mines are reported

in some literature as containing the most anomalous radioactivity. These mines are typical of occurrences within the county. They are found in Precambrian metamorphics that have been cut by Tertiary intrusive porphyries and Laramide age veins. These mineralized veins were actively mined in the past for base and precious metals. The uranium present in these veins often occurs as uraninite, associated with chalcopyrite, galena, and sphalerite. Uranium mineralization appears to have occurred both before and after base- and precious-metal sulfide mineralization. Secondary minerals and radioactive hydrocarbons have been reported from a number of mines.

It is unlikely that Clear Creek County will ever be a large uranium producer because the vein occurrences are too small and scattered. If any of the old mines are reopened, or if new mines are developed for base- and precious-metals, then it is possible that uranium could be recovered as a by-product.



LOCATION OF COUNTY ON
1' x 2' SHEET

EXPLANATION

HOST ROCKS FOR OCCURRENCES

- ▲ IGNEOUS AND METAMORPHIC
- ◆ UNDETERMINED
- ▲20 OCCURRENCE NUMBER FROM TEXT

BASE MAP FROM U. S. G. S.

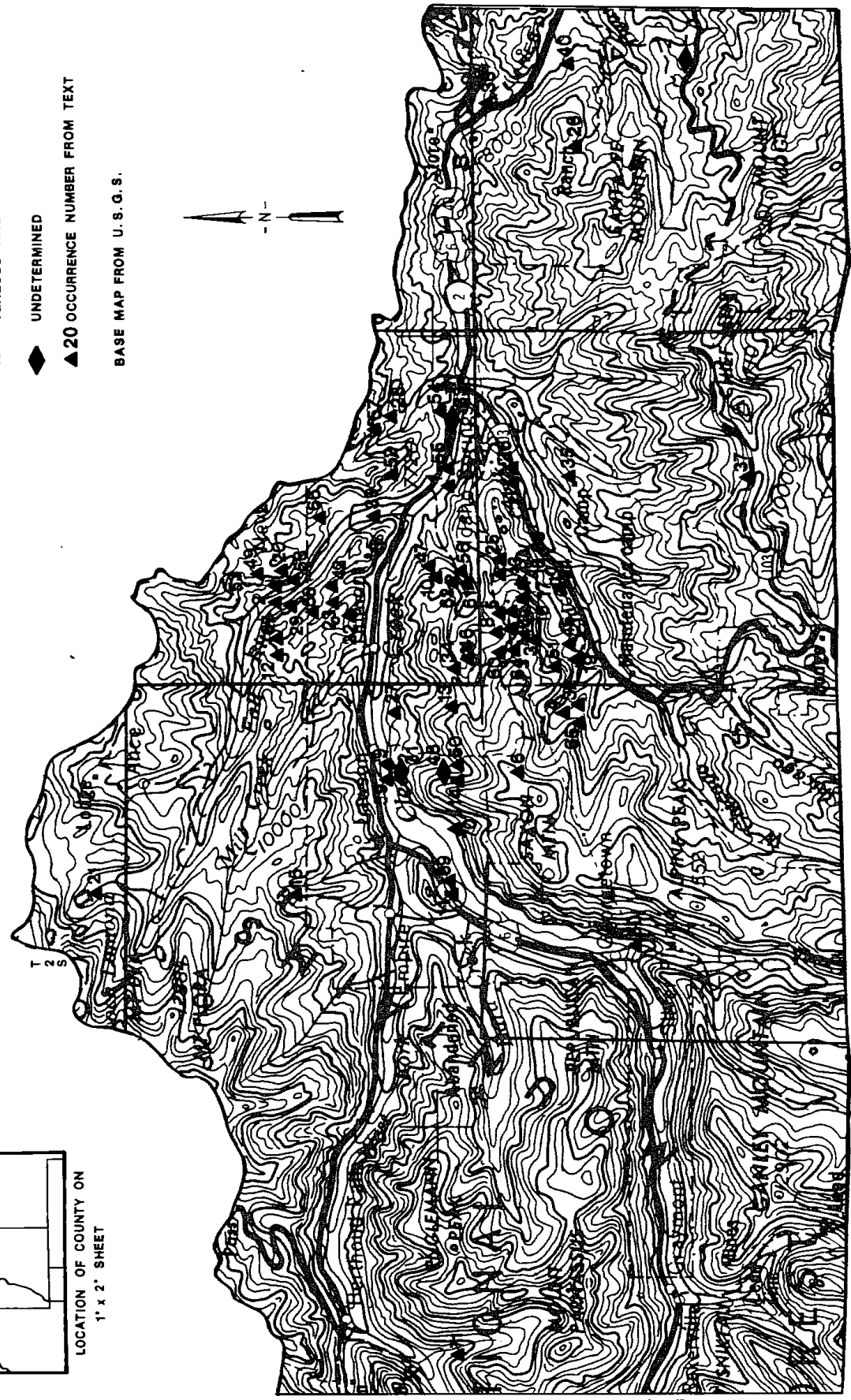
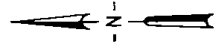
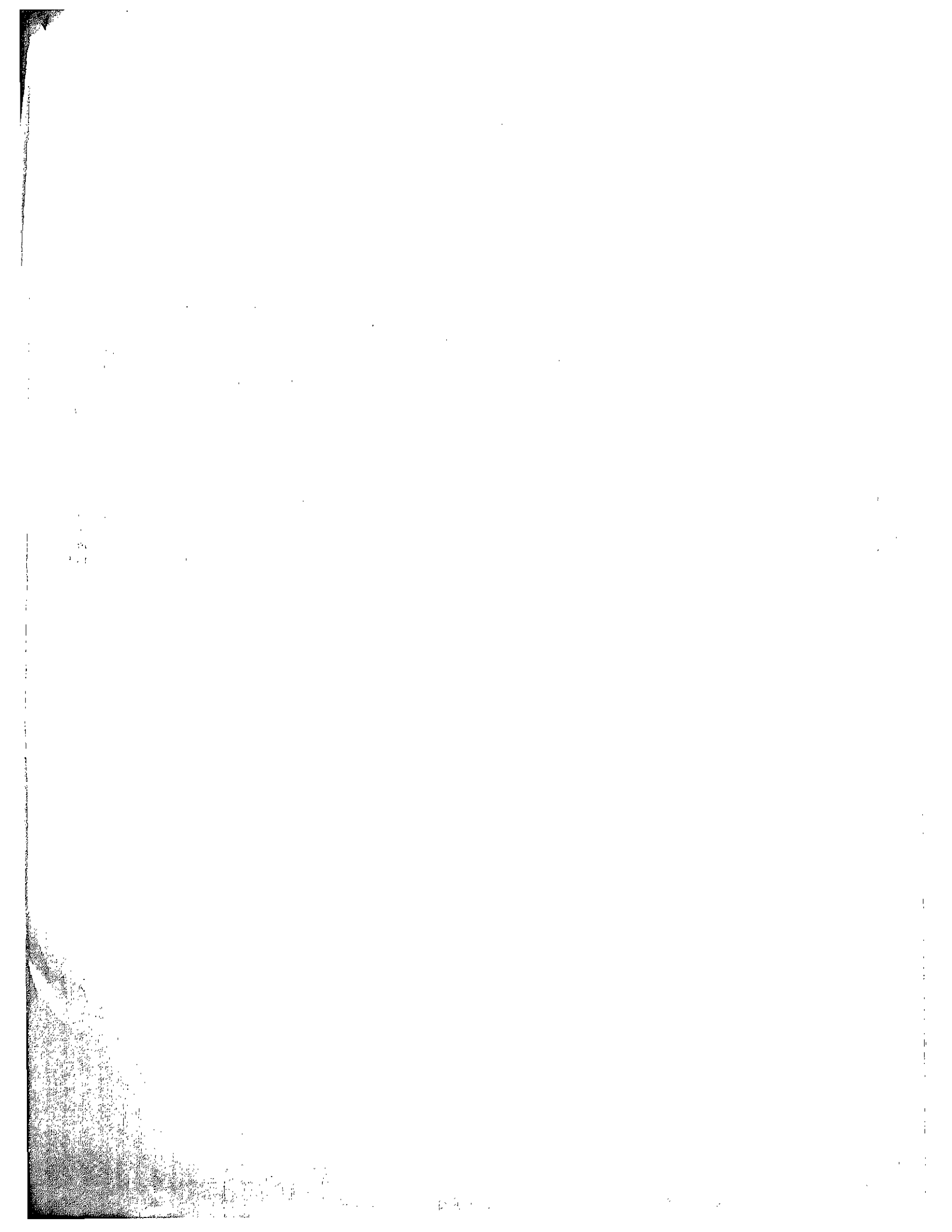


Figure 11. Radioactive mineral occurrences in Clear Creek County, Colorado.



CLEAR CREEK COUNTY

Alma-Lincoln

LOCATION: sec. 34, T. 3 S., R. 73 W.
 LCRM About 1 mile west of Idaho Springs on south side of Clear Creek at road level.
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 DVEL This is an inactive gold-silver mine with extensive workings.
 BKG .05 mr/hr
 RNG To .5 mr/hr
 HOST The deposit lies in veins and pegmatites in the Precambrian Idaho Springs Formation.
 RMKS Radiation was localized near biotite pegmatites.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Almaden-Blazing Star Tunnel

LOCATION: sec. 17, T. 3 S., R. 73 W.
 LCST UNSURVEYED
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL The Blazing Star Tunnel is reported to be 1,300 ft long, but in places is badly caved and inaccessible.
 PROD All production was for gold and silver, and that was small.
 BKG 0.1 mr/hr
 RNG 0.1 to 10 mr/hr
 HOST The host rock is Precambrian Idaho Springs Formation, composed of quartz-biotite schists and gneisses.
 STRC Ore deposition was controlled by veins.
 ALT Supergene.
 MNZ The vein consists of hard, silicified pyritic material, with ore minerals of polybasite, galena, pyrite, chalcopyrite, sphalerite, argentite, proustite in a gangue of quartz, calcite and siderite. Radioactivity is found at 520 and 720 ft from the portal. In those areas, pitchblende? is found coated with secondary green and yellow uranium minerals. Chemical assays of samples taken in the radioactive areas range from 0.0867 to 0.96% U3O8.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Bastin and Hill, 1917.

Alpine Mine

LOCATION: SW1/4SE1/4 sec. 6, T. 4 S., R. 73 W.
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 DVEL Inactive gold-silver mine.
 RNG To 3 x bg
 HOST Vein in Precambrian Silver Plume Granite.
 MNZ Limonite, quartz.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Sims, P. K., and others, 1963. Lovering,

T. S., and Goddard, E. N., 1950. Bastin, E. S., and Hill, J. M., 1917.

Argo

LOCATION: sec. 12, T. 4 S., R. 74 W.
 LCST UNCERTAIN
 LCRM Directions to deposit are as follows: "West from Idaho Springs up Chicago and Ute Creeks approximately 6.5 miles; proceed about 0.3 miles northwest on an abandoned access road, Idaho Springs and Georgetown 7 1/2'
 QUAD IDAHO SPRINGS AND GEORGETOWN 7 1/2'
 MAP DENVER
 RNG To 2.5 x bg
 HOST Vein in Precambrian Idaho Springs Formation.
 MNZ Limonite and an unidentified green mineral.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Sims, P. K., and others, 1963. Lovering, T. S., and Goddard, E. N., 1950. Spurr, J. E., and Garrey, G. H., 1908, U.S. Geol. Survey Prof. Paper 63, 422 p.

Ariadne

LOCATION: SW1/4NW1/4 sec. 5, T. 4 S., R. 73 W.
 LCRM The dump is on the south side of the road.
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 DVEL There is a shaft and several hundred ft of inaccessible workings.
 BKG 130 cps
 RNG To 275 cps
 HOST The host is Precambrian Silver Plume Granite and pegmatite cut by Tertiary veins.
 MNZ Ore minerals include pyrite, ilmonite, torbernite and uranophane (?) or dumontite (?) in a quartz gangue. Assays yield 0.039% Au and 0.032% U.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Harrison, J. E., and Wells, J. O., 1956, U.S. Geol. Survey Bull. 1032-B, p. 79, 80, 87-88, pl. 5. Spurr, Garrey, and Ball, 1908, U.S. Geol. Survey Prof. Paper 63, pl. XVII.

Baltic Tunnel

LOCATION: sec. 2, T. 4 S., R. 74 W.
 LCST UNCERTAIN
 QUAD Georgetown 7 1/2'
 MAP DENVER
 RNG To 10 x bg
 HOST A vein in the Precambrian Idaho Springs Formation contains the occurrence.
 MNZ Minerals present include autunite(?), torbernite, galena, sphalerite, and quartz. The autunite-type mineral was fluorescent and occurred in the vein and hanging wall.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

CLEAR CREEK COUNTY

Beaver Brook

LOCATION: sec. 23, T. 4 S., R. 72 W.
 QUAD Squaw Pass 7 1/2'
 MAP DENVER
 MNZ Uranium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Belle Creole Mine

LOCATION: NE1/4 sec. 6, T. 4 S., R. 73 W.
 LCRM From the forks in the road just west of the eastern section line for sec. 6, take the right fork 0.2 miles to mine access road that switches back right, down the slope. Proceed 0.1 miles to the dump.
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 DVEL The mine consists of at least 540 ft of drift.
 BKG 0.14 mr/hr
 RNG 0.27 to 0.34 mr/hr
 HOST The host rock is Precambrian Idaho Springs Formation and Silver Plume Granite, and is cut by Tertiary veins.
 STRC The veins strike N50°E and dip 75 to 85°NW.
 MNZ The ore minerals are chalcopryrite, galena, sphalerite, chalcocite and limonite in a gangue of quartz and pyrite. Two chip samples were taken from inside the mine. The one of quartz with disseminated pyrite assayed 0.002% Cu and .10% eU, while the one taken of limonitic material assayed 0.033% U and 0.037% eU.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Bellevue-Rochester

LOCATION: sec. 26, T. 3 S., R. 74 W.
 LCST UNCERTAIN
 QUAD Empire 7 1/2'
 MAP DENVER
 HOST A vein in the Precambrian Idaho Springs Formation contains the mineralization.
 MNZ Pitchblende was found along with galena, pyrite, and quartz in a 1 in. stringer about 6 ft long in the Bellevue west drift, 96 ft west of the main crosscut. Three channel samples had values of 0.009, 0.212 and 8.024% U.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Sims, P. K., and others, 1963.

Big Chief

LOCATION: SE1/4NE1/4 sec. 32, T. 3 S., R. 73 W.
 LCST UNSURVEYED
 LCRM The mine is on the west side of the road up Turkey Gulch.
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 BKG 80 to 90 cps
 RNG 250 to 400 cps
 HOST The host is Precambrian Idaho Springs Formation, cut by Tertiary veins.

MNZ Ore minerals consist of galena and sphalerite with secondary ilmonite in a white and gray quartz and pyrite gangue. A grab sample of the ilmonitic material assayed 0.018% eU and 0.002% U.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Blameless Mine

LOCATION: sec. 33, T. 3 S., R. 74 W.
 LCRM Original directions to deposit are as follows: "Mine on north side of U.S. 6, 1.0 miles west of Junction of U.S. 40 and 6. Two story building on dump 100 ft above road".
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 HOST The deposit lies in a vein in the Precambrian Idaho Springs Formation.
 ALT The wall rock is reported to be argillized and sericitized.
 MNZ Pyrite and chalcopryrite in a quartz gangue were identified.
 RMKS Part of the vein, about 40 ft inside the portal, shows radioactivity of up to 3 x bg.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Spurr, J. E., Garrey, G. H., and Ball, S. H., 1908, U.S. Geol. Survey Prof. Paper 63, 422 p.

Bonanza

LOCATION: SW1/4 sec. 18, T. 3 S., R. 73 W.
 MAP DENVER
 DVEL There is a mine along the vein, with a shaft and several hundred ft of tunnels.
 PROD During 1953, there were 7 tons mined at a grade of 0.54% U3O8 and 0.03% V2O5, producing 76 lbs of U3O8 and 4 lbs of V2O5.
 HOST The mineralized vein is in a schist of the Precambrian Idaho Springs Formation.
 STRC There is a two in. fractured, iron stained zone that strikes N65°E and dips 75°SE.
 MNZ Uranium. The mineralization is of the pyritic gold type, with associated pitchblende. The pyrite is both disseminated and fissure-filling in the vicinity of the mine.
 DOI 1950
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado. Bastin, E. S., and Hall, J. M., 1917, U.S. Geol. Survey Prof. Paper 94.

Brazil Mine

LOCATION: sec. 36, T. 3 S., R. 74 W.
 LCRM Original directions to deposit are as follows: "West from Idaho Springs up Clear Creek to Trail Creek approximately 5 miles to where the road leaves the Trail Creek valley; leave main road here and proceed on up the creek on an abandoned mine access road about a mile; it is the lower of 2 mines".
 QUAD Idaho Springs 7 1/2'

CLEAR CREEK COUNTY

MAP DENVER
 BKG 125 cps
 RNG Average 450 cps
 HOST Vein in Idaho Springs Formation.
 ALT The host is reported to be altered.
 MNZ Limonite and unidentified green mineral.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Sims, P. K., and others, 1963. Lovering, T. S., and Goddard, E. N., 1950.

Cleveland Tunnel

LOCATION: sec. 35, T. 3 S., R. 74 W.
 LCST UNCERTAIN
 LCRM Original directions are as follows: "From U.S. 40 in Lawson proceed south across Clear Creek on unnumbered county road for 0.3 miles and turn right, thence 0.4 miles and turn right, thence 0.6 miles to small shack, turn right here on poor road and drive approximately 2 miles to the crest of ridge and walk about 1/4 mile northwest down to mine".

QUAD Empire and Georgetown 7 1/2'
 MAP DENVER
 DVEL One 600 ft adit was driven.
 BKG .05 mr/hr
 RNG To 10 mr/hr
 HOST The occurrence is in a shear biotite schist of the Precambrian Idaho Springs Formation.
 STRC The shear zone localizes ore emplacement.
 MNZ Pyrite and manganese minerals are the primary mineralization. Pitchblende occurs in a 2 ft wide, 10 ft long zone.
 DOI 1956
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Conqueror Mine

LOCATION: SE1/4SW1/4 sec. 16, T. 3 S., R. 74 W.
 LCST UNSURVEYED
 QUAD Empire 7 1/2'
 MAP DENVER
 DVEL There are several prospect pits and three adits on the property.
 HOST Tertiary bostonite dike.
 MNZ Assays of up to 0.5% U3O8 from samples of the dike.
 RMKS Dike reported to be in the Conqueror Mine.
 REF David Wolf, 1977, Personal Communication.

Crazy Girl

LOCATION: SW1/4NW1/4 sec. 5, T. 4 S., R. 73 W.
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 DVEL Incline shaft with 1,200 ft of drifts and stopes on two levels.
 BKG To 150 cps
 RNG To 750 cps
 HOST Vein in Tertiary bostonite dike, and Precambrian Silver Plume Granite, and Idaho Springs Formation.
 MNZ Limonite, chalcocite, azurite, malachite, pyrite, hematite and quartz. A grab from vein material on dump had a value of 0.026% U.

DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Sims, P. K., and others, 1963. Spurr, J. E., Garrey, G. H., and Bell, S. H., 1908.

Diamond Mountain Mine (Glucky)

LOCATION: sec. 5, T. 4 S., R. 73 W.
 LCST UNCERTAIN
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 HOST The host is Precambrian Idaho Springs Formation, consisting primarily of schists and gneisses.
 MNZ The mineralization is associated with a bostonite porphyry intruded into the schists and gneisses. Grab samples range from .16 to .30% eU, and from .046 to .35% U.
 DOI 1950
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Elizabeth M. Loda (Daisey Freeze Claim)

LOCATION: sec. 5, T. 4 S., R. 73 W.
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 HOST Vein in the Precambrian Idaho Springs Formation.
 STRC Vein occurs in shear zone.
 MNZ Uranium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File.

Ella McKinney

LOCATION: sec. 7, T. 4 S., R. 73 W.
 LCRM Original directions to deposit are as follows: "West up Chicago Creek and Ute Creek from Idaho Springs approximately 6 miles; the mine is in the rear vicinity of an abandoned house next to the road on the right".
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 DVEL There are two shafts, one above, and one below the road.
 BKG 150 cps
 RNG To 300 cps
 HOST Vein in Precambrian (Idaho Springs Formation?)
 MNZ Limonite and unidentified green mineral.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Spurr, J. E., Garrey, G. H., and Ball, S. H., 1908.

Golconda

LOCATION: SE1/4 sec. 17, T. 3 S., R. 73 W.
 LCST UNSURVEYED
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL There was a small production of high-grade gold ore. The tunnel extends more than 1,380 ft, but due to caving is partially inaccessible. Examination of the mine by U.S. A.E.C. geologists in 1954 indicated several hundred tons of rock, approaching ore grade, existed in mine.

CLEAR CREEK COUNTY

BKG 0.01 mr/hr
 RNG 0.017 to 0.389 mr/hr
 HOST Vein in Precambrian Idaho Springs Formation, consisting of schists and gneisses with pegmatite intrusions.
 STRC The uranium occurs in two fissure veins located 1,015 ft and 1,190 ft from the portal.
 ALT Supergene alteration is present, with sericitic and clay alteration ranging from moderate to intense.
 MNZ The vein located at 1,015 ft from the portal has been drifted on for 20 ft. It strikes N50°W and dips 75°NE. It is 4 to 8 in. in width, consisting of white and gray quartz, crushed schist, pyrite, galena, chalcopryrite and thin streaks and blebs of pitchblende. The second vein has been drifted on for 290 ft to the SE. It strikes N68°W and dips 55°NE. It ranges from 1 in. to 2 ft in width. It consists of white and gray quartz, pyrite, chalcopryrite and pitchblende. The pitchblende occurs in black lenses 1/3 to 3 in. wide consisting of fine-grained pyrite and sooty pitchblende. Green and yellow secondary uranium minerals have formed since the vein was opened. Chemical assays of samples range from 0.014 to 0.519% U308.
 DOI 1951, 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Bastin and Hill, 1917.

Gold Anchor

LOCATION: sec. 33, T. 2 S., R. 74 W.
 LCST UNCERTAIN
 LCRM Original directions are as follows: "Follow Fall River Road about 0.6 miles from Alice toward St. Marys Glacier. Turn left on old wagon road for about 0.2 miles. Drive to small stream where bridge is out. Mine is on other side of stream". This is probably the mine in Anchor Gulch.
 QUAD Empré 7 1/2'
 MAP DENVER
 DVEL This is an inactive gold mine with about 1,000 ft of workings.
 RNG To 3 x bg
 HOST The host is a vein in the Precambrian Idaho Springs Formation.
 MNZ Pyrite (gold bearing), galena and sphalerite are present. Pitchblende was found associated with pyrite.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Gold Chloride Mine

LOCATION: SW1/4 sec. 20, T. 3 S., R. 73 W.
 LCST UNSURVEYED
 LCRM The mine is on the east side of the gulch and the highest one in the gulch.
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL There is a short crosscut and drift. The dump is roughly 30 x 30 x 10 ft,

BKG 60 to 80 cps
 RNG 200 to 300 cps
 HOST The host is Precambrian Idaho Springs Formation. It is cut by a Tertiary vein, which contains the radioactive deposit.
 STRC The vein strikes N65°E.
 MNZ The only mineral visible was a limonitic material, which assayed at 0.003% U; other spectrographic data for that sample include: 0.16 oz./ton Ag, 0.01% Pb, and 0.04% Cu.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Golden Calf Mine

LOCATION: sec. 20, T. 3 S., R. 73 W.
 LCST UNCERTAIN
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL One 300 ft adit has been driven.
 BKG .03 mr/hr
 RNG .3 to .6 mr/hr
 HOST The occurrence lies in a vein in the Precambrian Idaho Springs Formation.
 STRC The vein strikes S72°W and dips 47°NW.
 MNZ Sooty pitchblende (possibly primary as pitchblende was described as sooty in another property in the county and this characteristic is due to a very fine-grained boytroldal nature), pyrite, chalcopryrite, galena, sphalerite, gold and silver are present. Channel samples had the following values: sample 1, 0.022% eU, 0.021% U, 0.280z./Ton Au, 1.86 Oz./Ton Ag; sample 2, 0.64% eU, 0.020% U, 0.04 Oz./Ton Au, 1.12 Oz./Ton Ag; sample 3, 0.017% eU, 0.007% U, 0.62 Oz./Ton Au, 18.30 Oz./Ton Ag; sample 4, 0.069% eU, 0.047% U, 0.14 Oz./Ton Au, 2.56 Oz./Ton Ag.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Sims, P. K., and others, 1963.

Golden Glen

LOCATION: SW1/4NE1/4 sec. 8, T. 4 S., R. 73 W.
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 DVEL A tunnel was driven on the property.
 BKG 110 to 120 cps
 RNG To 350 cps
 HOST Vein in Tertiary bostonite and Precambrian Idaho Springs Formation.
 MNZ Grab sample from dump had values of 0.18% eU, and 0.22% U.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Sims, P. K., and others, 1963. Spurr, J. E., Garrey, G. H., and Ball, S. H., 1908.

Gomer Mine

LOCATION: SW1/4NW1/4 sec. 4, T. 4 S., R. 73 W.
 LCRM 400 ft east of junction of Spring Gulch road and road going southwest around Alps Mountain, on the south side of the road.
 QUAD Idaho Springs 7 1/2'

CLEAR CREEK COUNTY

MAP DENVER
 DVEL There is an inclined shaft and drifts.
 BKG 6.0 cps
 RNG 18 to 20 cps
 HOST The deposit lies in veins in the Precambrian Idaho Springs Formation which consists of biotite schist and gneiss intruded by pegmatites.
 MNZ Ore minerals are galena, sphalerite, pyrite and chalcopyrite in a quartz gangue. The radioactivity appears to be associated with the sphalerite.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Spurr and Garrey, 1908, U.S. Geol. Survey Prof. Paper 63, p. 351-352.

Grover

LOCATION: SW1/4SW1/4 sec. 10, T. 4 S., R. 72 W.
 LCRM S1/2SE1/4 sec. 9 also included in this patented homestead.
 QUAD Squaw Pass 7 1/2'
 MAP DENVER
 DVEL Two open cuts - 250 and 150 ft long. Mined for feldspar, muscovite and beryl, 1937-1942, produced 1,557 tons.
 HOST Pegmatite in the Precambrian Idaho Springs Formation.
 STRC The pegmatite is zoned and outcrops in an area of 1,000 ft x 40 ft. Pegmatite strikes N85°E.
 MNZ Samarskite, tantalite, monazite, columbite, gadolinite, garnet, beryl.
 DOI 1944
 REF U.S. Geol. Survey, 1977, CRIB File. Gulliot, G. B., 1944.

Highland Lassie Tunnel

LOCATION: sec. 25, T. 3 S., R. 74 W.
 LCST UNCERTAIN
 LCRM Original directions to deposit are as follows: "Drive north out of Lawson for 1/2 mile; make sharp turn to east and go to end of road."
 QUAD Central City and Empire 7 1/2'
 MAP DENVER
 DVEL An inactive gold-silver prospect with a 400 ft long tunnel.
 RNG 2 to 3 x bg
 HOST Vein in Precambrian Idaho Springs Formation.
 MNZ Sphalerite, galena, pyrite, quartz, siderite.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County. Sims, P. K., and others, 1963.

Highlander

LOCATION: sec. 26, T. 3 S., R. 73 W.
 QUAD Central City 7 1/2'
 MAP DENVER
 PROD In 1955, 51 tons were mined at a grade of 0.24% U308, producing 245 lbs of U308.
 HOST Unnamed Precambrian granite.
 MNZ Pitchblende or uraninite, many sulfides in a pegmatite.

DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Hill Top Claims

LOCATION: SW1/4 sec. 17, T. 3 S., R. 73 W.
 LCST UNSURVEYED
 LCRM Original directions are as follows: "Travel west on U.S. 40/6 through Idaho Springs (5.0 mi.). North on Spring Gulch Road. Travel up road 1.6 miles - park car and follow trail 600 ft uphill. Well defined trail leads to mine. (750 ft east).
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL There are several pits and one 20 ft long tunnel.
 BKG .08 mr/hr
 RNG To 1.0 mr/hr
 HOST The occurrence is in a vein in Precambrian Silver Plume Granite with remnants of schist of the Idaho Springs Formation.
 STRC The vein on which pits were dug strikes N45°E.
 MNZ Autunite and torbernite are reported.
 RMKS 1.0 mr/hr occurred over an "oxidized schist" in the tunnel with a maximum reading of 0.4 mr/hr in the surface pits.
 DOI 1955
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

J. C. Vol Claim

LOCATION: sec. 17, T. 4 S., R. 74 W.
 LCST UNCERTAIN
 LCRM Original directions are as follows: "Take road out of Georgetown past old Centennial mill and get onto Public Service Co. of Colorado road following their penstock on way south, up creek to reservoir. Go 100 yds beyond the first wooden bridge. Car cannot cross the bridge. The property comes down to the bridge".
 QUAD Georgetown 7 1/2'
 MAP DENVER
 DVEL There are several pits and small adits.
 BKG .01 mr/hr
 RNG .2 to 2.0 mr/hr
 HOST The deposit occurs in a vein in the Precambrian Idaho Springs Formation.
 MNZ Minerals present include pyrite, ilmonite, hematite.
 DOI 1955
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Jo Reynolds

LOCATION: sec. 26, T. 3 S., R. 74 W.
 QUAD Empire 7 1/2'
 MAP DENVER
 MNZ Uranium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

CLEAR CREEK COUNTY

Kitty Emmet

LOCATION: sec. 12, T. 4 S., R. 74 W.
 LCRM The original directions to mine are as follows:
 "West from Idaho Springs up Chicago and
 Cascade Creeks approximately 7.4 miles;
 proceed about 0.2 miles northeast on a mine
 access road; the dump is up the slope about
 100 yds to the north."
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 BKG 125 cps
 RNG 200 to 250 cps
 HOST Vein in Precambrian Idaho Springs Formation.
 ALT The host is reported to be altered.
 MNZ Limonite and unidentified green mineral.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance
 Reports, Clear Creek County, Colorado.
 Sims, P. K., and others, 1963. Spurr, J.
 E., and Garrey, G. H., and Ball, S. H., 1908.

Lake Central Project

LOCATION: sec. 35, T. 3 S., R. 73 W.
 QUAD Central City 15'(?)
 MAP DENVER
 MNZ Uranium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Lamartine Tunnel

LOCATION: SW1/4 sec. 31, T. 3 S., R. 73 W.
 LCRM Original directions to property are "Follow
 road west from Freeland; road ends at property".
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 DVEL Over 5,000 ft of workings on 10 levels in
 this inactive gold-silver mine.
 HOST Vein in Precambrian Idaho Springs Formation.
 MNZ Gold, galena, spalerite, siderite pyrite,
 hematite in a gangue of quartz, dolomite,
 and rhodochrosite.
 RMKS It was reported that "radon gas in back
 of tunnel made gelger counter useless".
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance
 Reports, Clear Creek County, Colorado.

Lelew No. 1

LOCATION: sec. 10, T. 4 S., R. 73 W.
 LCST UNCERTAIN
 LCRM Original directions to property are as follows:
 "From Miner Street in Idaho Springs, travel
 2.7 miles up Soda Creek to location of property."
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 BKG .08 mr/hr
 RNG To .15 mr/hr
 HOST Tertiary bostonite dike.
 MNZ Uranium minerals were observed.
 RMKS Anomalous radiation was observed over an
 area of 100 x 200 ft.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance
 Reports, Clear Creek County, Colorado.

Little Cub Mine

LOCATION: sec. 3, T. 4 S., R. 73 W.
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 DVEL The mine consists of approximately 800 ft
 of drift along the vein, 90 ft of crosscut
 to the north, 20 ft of crosscut to the south,
 and a two-compartment raise about 22 ft
 to the back.
 RNG To 3 x bg
 HOST The host is a vein in the Precambrian Idaho
 Springs Formation, which consists of quartz-biotite
 schist.
 STRC The deposit is in a quartz-pyrite fissure
 vein striking N63°E and dipping 68°NW.
 MNZ Quartz, pyrite, and possibly some gold are
 present, and the radioactive mineral is
 unknown.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance
 Reports, Clear Creek County, Colorado.

Little Warrior 1-A (April Fool 1-4, Little Warrior No. 7, Warrior Mtn. Claims)

LOCATION: sec. 27, T. 4 S., R. 73 W.
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 PROD In 1960 and 1961, a total of 6 tons were
 mined at a grade of 0.12% U308, producing
 21 lbs of U308.
 HOST Precambrian Idaho Springs Formation.
 MNZ Uranium, autunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S.
 Geol. Survey, 1977, CRIB File. U.S. A.E.C.,
 1971, Production Records, Colorado.

Lone Star (Maglic Radon)

LOCATION: NE1/4NE1/4 sec. 3, T. 4 S., R. 72 W.
 LCRM Located on the north side of Colorado Highway
 119.
 QUAD Squaw Pass 7 1/2'
 MAP DENVER
 DVEL There is one adit.
 BKG .03 mr/hr
 RNG .05 to 2.0 mr/hr
 HOST The host is Precambrian Idaho Springs Formation,
 composed primarily of schists intruded by
 pegmatites.
 MNZ The ore mineral appears to be uranophane
 in a gangue of quartz, pink feldspar, and
 mica. Allanite is sparsely scattered through
 the pegmatite. All mineralization is confined
 to the pegmatites.
 DOI 1949
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance
 Reports, Clear Creek County, Colorado.

Lucania Tunnel

LOCATION: NE1/4 sec. 28, T. 3 S., R. 73 W.
 LCST UNSURVEYED
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL The tunnel extends 6,240 ft, and was designed
 to cut the veins in Quartz Hill at 14,800 ft.

CLEAR CREEK COUNTY

BKG .1 mr/hr
 RNG .3 mr/hr
 HOST The deposit lies in veins in the Precambrian Idaho Formation, which is composed of schist and gneiss and cut by pegmatites.
 MNZ The mineralization is found in quartz and pyrite veins. No radioactive mineral could be seen, and the abnormal count was attributed to radon gas.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Spurr and Garrey, 1908, U.S. Geol. Survey Prof. Paper 94.

Lucky Strike Claims

LOCATION: sec. 11, T. 4 S., R. 72 W.
 LCRM In the Floyd Hill area.
 QUAD Squaw Pass 7 1/2'
 MAP DENVER
 HOST Pegmatite.
 MNZ Minor torbernite and autunite. Sample from the dump of the prospect pit had values of 0.12% to 0.14% U308. The area of anomalous radioactivity does not exceed the pit area.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File.

M and E Mine

LOCATION: sec. 3, T. 4 S., R. 73 W.
 LCST UNCERTAIN
 LCRM Original directions to mine are as follows: "Along Spring Creek gulch for 0.9 miles. Mine portal is on south side of road across Spring Creek gulch and is 80 ft south of Coffindaffer home".
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 DVEL An 800 ft tunnel was driven.
 RNG To 4 x bg
 HOST A Tertiary bostonite dike contains the mineralization.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Major C. and Little Colonial

LOCATION: sec. 20, T. 3 S., R. 73 W.
 LCST UNSURVEYED
 LCRM East from Dumont 0.9 miles to the second gulch; proceed north up the gulch to the first dump on the east.
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL There is a tunnel on the property.
 BKG 75 to 80 cps
 RNG 170 to 175 cps
 HOST The host is Precambrian Idaho Springs Formation, which is cut by Tertiary veins.
 MNZ Ore minerals are chalcopryrite and ilmonite in a gangue of quartz and pyrite. A grab sample of the ilmonitic material assayed 0.001% cU and 0.014% eU.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Martha E Mine (Elizabeth M Lode)

LOCATION: SE1/4NE1/4 sec. 5, T. 4 S., R. 73 W.
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 DVEL The tunnel extended at least 152 ft from the portal.
 PROD In 1954, 1 ton of ore averaging 0.14% U308 and containing 3 lbs U308 was produced.
 RNG 2 to 4 x bg
 HOST The deposit occurs in Tertiary veins within the Precambrian Idaho Springs Formation, which consists primarily of schist with thin seams of pegmatite.
 STRC The ore was deposited in veins following the schist foliation.
 MNZ Mineralization consists of low grade gold ore (reported \$4/ton), which is iron stained and vuggy. No sulfides were visible. A green, radioactive mineral (torbernite?) is present in small fractures in the schist. Channel samples from inside the mine all show weak radioactivity.
 DOI 1950
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. U.S. A.E.C., 1971, Production Records, Colorado. Bastin and Hill, 1917, U.S. Geol. Survey Prof. Paper 94.

Miller Tunnel

LOCATION: SW1/4SE1/4NE1/4 sec. 6, T. 4 S., R. 73 W.
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 DVEL There is at least 900 ft of cross-cut tunnel and drifts.
 PROD Between 1908 and 1940, a total of 160 tons of ore was produced, yielding gold, silver, copper, lead, and zinc. No uranium ore was shipped.
 BKG .01 mr/hr
 RNG .03 to .04 mr/hr
 HOST The host rock is Precambrian in age, and the mine lies near the boundary between the Idaho Springs Formation and the biotite-muscovite Silver Plume granite. Granite gneiss and bostonite also are present.
 STRC The Miller vein strikes N63°E and dips on the average of about 8°NW.
 MNZ Minerals observed include galena, sphalerite, chalcopryrite, and pyrite, with secondary ilmonite and torbernite in scattered disseminated flakes. The gangue is quartz and brecciated bedrock. Grab samples analyzed contain between 0.006 and 0.014% eU and between 0.001 and 0.004% cU.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Harrison and Wells, 1956, p. 79, 82, 113-114. Spurr, Garrey, and Ball, 1908, U.S. Geol. Survey Prof. Paper 63, p. 334-335.

Muscovite Mine

LOCATION: sec. 7, T. 4 S., R. 73 W.
 LCST UNCERTAIN

CLEAR CREEK COUNTY

LCRM Original directions are as follows: "West from Idaho Springs up Chicago Creek and Spring Gulch approximately 3.25 miles; turn left onto a mine access road and proceed about 2.7 miles to end of the road; walk westerly cross creek and up slope about 0.2 mile."

QUAD Idaho Springs 7 1/2'

MAP DENVER

BKG 120 to 125 cps

RNG 250 to 800 cps

HOST Vein in Tertiary bostonite and Precambrian Silver Plume Granite.

MNZ Limonite and unidentified green mineral. Grab sample from dump had a value of 0.046% U.

DOI 1958

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Sims, P. K., and others, 1963. Lovering, T. S., and Goddard, E. N., 1950. Spurr, J. E., Garrey, G. H., and Ball, S. H., 1908.

New Era

LOCATION: SW1/4 sec. 31, T. 3 S., R. 73 W.

LCRM Original directions to deposit are as follows: "County road up Trail Creek about 4 miles southwest of Idaho Springs. Mine is located 1,000 ft east of Lamertine Mine".

QUAD Idaho Springs 7 1/2'

MAP DENVER

DVEL This is an inactive gold-silver mine with approximately 3,000 ft of drifts.

HOST The occurrence is in a vein in the Precambrian Idaho Springs Formation.

MNZ Galena, sphalerite, pyrite, silver and gold were identified.

RMKS It was reported that the mine had a large amount of radon gas in it.

DOI 1948-1958?

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Old Settler Tunnel

LOCATION: NE1/4 sec. 32, T. 3 S., R. 73 W.

LCST UNSURVEYED

QUAD Idaho Springs 7 1/2'

MAP DENVER

DVEL There is one partially caved adit, an inclined shaft and a series of levels and stopes, all inaccessible.

BKG 60 to 70 cps

RNG To 150 cps

HOST The host is Precambrian Idaho Springs Formation, and is cut by Tertiary veins.

MNZ Pyrite, chalcopryite, chalcocite, azurite, malachite, and limonite are present in the veins, with a gangue of white and gray quartz. An assay of the limonitic material yielded 0.006% Cu and 0.009% Au.

DOI 1952

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Spurr & Garrey, 1908, U.S. Geol. Survey Prof. Paper 63, p. 340-341.

Peabody Mine

LOCATION: sec. 35, T. 3 S., R. 74 W.

QUAD Georgetown 7 1/2'

MAP DENVER

MNZ Uranium.

DOI 1975

REF U.S. Bur. of Mines, 1977, (Unpubl.).

Polar Star Mine

LOCATION: NE1/4 sec. 17, T. 3 S., R. 73 W.

LCST UNSURVEYED

QUAD Central City 7 1/2'

MAP DENVER

RNG 2 to 4 x bg

HOST The host rock is Precambrian Idaho Springs Formation, and in this area is primarily schist.

MNZ There is slight radioactivity in a light green travertine that is associated with the vein zone in the area. The original radioactivity was discovered in a museum specimen of pitchblende with pyrite and chalcopryite.

DOI 1950

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Bastin, E. S., and Hill, J. M., 1917.

Robineau Claims

LOCATION: sec. 35, T. 3 S., R. 74 W.

LCRM Original directions are as follows: "By 1 mile of trail from Silver Creek. Mine is located on top of ridge above the Jo Reynolds Mine."

QUAD Empire and Georgetown 7 1/2'

MAP DENVER

DVEL There is one 30 ft shaft and a 30 ft crosscut.

RNG 3 to 10 x bg

HOST The occurrence is in the Peabody vein in Precambrian Idaho Springs Formation(?).

STRC The anomalous zone strikes N70°W.

MNZ The zone of radioactivity was found at surface over an area 6 ft wide and 600 ft long. Samples of float had values from 0.59 to 5.81% U308.

DOI 1950

REF U.S. A.E.C., Preliminary Reconnaissance Reports, Clear Creek County, Colorado. U.S. Geol. Surv., 1950, TEM-24.

Silverine Mine

LOCATION: NW1/4 sec. 7, T. 4 S., R. 73 W.

LCST UNCERTAIN

LCRM Original directions to deposit are as follows: "West from Idaho Springs up Chicago Creek and Spring Gulch approximately 3.25 miles; turn left onto a mine access road and proceed about 2.7 miles to the end of the road; dump is in that immediate vicinity".

QUAD Idaho Springs 7 1/2'

MAP DENVER

DVEL There is a shaft and tunnel on property.

BKG 120 to 125 cps

RNG 300 to 350 cps

HOST Vein in Tertiary bostonite dike.

CLEAR CREEK COUNTY

MNZ Limonite and unidentified green mineral.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Spurr, J. E., Garrey, G. H., and Ball, S. H., 1908.

Spanish Bar

LOCATION: sec. 27, T. 3 S., R. 73 W.

LCST UNCERTAIN
 LCRM Original directions are as follows: "From U.S. 6 in Idaho Springs, drive up Virginia Canyon 2.0 miles to the Two Brothers Mine, turn left following the road across the mine yard. Follow dirt road 1.1 miles around to the south side of the mountain where the property is located. The prospect is on the south slope of Bellview Mountain." U.S. A.E.C. Production Records also show sec. 26.

QUAD Central City 7 1/2'
 MAP DENVER
 DVEL The property has an incline shaft and was prospected for gold.

PROD In 1957, 97 tons of ore averaging 0.10% U308 and containing 196 lbs of U308 was produced.

BKG .02 mr/hr
 RNG To 4 mr/hr

HOST Mineralization occurs in veins in quartz-biotite schist of the Precambrian Idaho Springs Formation. Also graphic granite dikes outcrop nearby and are reported to be radioactive.

STRC The hanging wall of the vein strikes N5°E with a vertical dip. Strike of granite dikes is N70°W.

MNZ Pitchblende, quartz, pyrite, chalcopyrite. A 1.6 ft channel sample across the vein had a value of 0.20% eU308. This sample was taken where wall rock was pegmatite (graphic granite?) The graphic granite is reported to contain syngenetic uranium minerals.

RMKS Radioactivity was found on the hanging wall side of the vein in the shaft and drift.

DOI 1956

REF U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Sims, P. K., and others, 1963. Bastin, E. S., and Hill, J. M., 1917.

Standard Mine

LOCATION: sec. 17, T. 3 S., R. 73 W.

LCST UNSURVEYED
 LCRM The mine is located 1/2 mile south of Woodpecker Gulch on the Fall River.

QUAD Central City 7 1/2'
 MAP DENVER
 DVEL The tunnel is at least 850 ft long, with at least 5 drifts on it.

BKG .04 mr/hr
 RNG .1 to .2 mr/hr

HOST The host is Precambrian Idaho Springs Formation composed of schist and pegmatite. There is also a Tertiary (?) quartz monzonite porphyry.

STRC The deposits are controlled by veins.
 MNZ The minerals present are pyrite, galena and sphalerite in a quartz gangue. A slightly radioactive green carbonate precipitate is also present.

DOI 1951

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Bastin & Hill, 1917, U.S. Geol. Survey Prof. Paper 94.

Stanley Mines

LOCATION: sec. 35, T. 3 S., R. 73 W.

LCRM One mile west of Idaho Springs on south side of road.

QUAD Idaho Springs 7 1/2'

MAP DENVER

DVEL Inactive gold-silver mine with very extensive workings.

BKG 600 cps

RNG To 1200 cps

HOST Vein in a pegmatite and granite gneiss of the Precambrian Idaho Springs Formation.

ALT There is no alteration in the wall rock.

MNZ Pitchblende, galena, sphalerite, chalcopyrite, pyrite in a quartz gangue. Pitchblende occurs as hard botryoidal coatings on pyrite, galena, and quartz, in vugs, and along fractures that apparently cut the galena and pyrite. Channel sample of the vein had values ranging from 0.003% U to 0.14% U.

DOI 1954

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Spurr, J. E., Garrey, G. H., and Ball, S. H., 1908.

Star Mine

LOCATION: sec. 34, T. 3 S., R. 73 W.

LCRM From Idaho Springs go up Chicago Gulch to Spring Creek. Up Spring Creek about 1.3 miles. Portal is on north side of road.

QUAD Idaho Springs 7 1/2'

MAP DENVER

DVEL This inactive gold-silver mine that consists of 200 ft of drifting at road level and a 10 ft deep shaft.

BKG .06 mr/hr

RNG To 5.0 mr/hr

HOST The deposit lies in a pegmatite of the Precambrian Idaho Springs Formation and in a Tertiary monzonite porphyry.

STRC The main vein strikes N46°E and dips 80°NW. A crossing vein that strikes N75°W intersects the main one at about 28 ft from portal. This junction is where the pitchblende occurs.

MNZ Pitchblende and torbernite were identified.

DOI 1954

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Sims, P. K. and others, 1963.

Sunnyside Tunnel

LOCATION: SE1/4 sec. 32, T. 3 S., R. 73 W.

LCRM Original directions to tunnel are as follows: "1.2 miles northwest from west edge of Idaho Springs, turn southwest up Trail Creek,

CLEAR CREEK COUNTY

mine is 1.5 miles. Buildings and portal on north side of creek".

QUAD Idaho Springs 7 1/2'
 MAP DENVER
 DVEL 300 ft of stopes and drifts, 550 ft crosscut.
 BKG 225 cps
 RNG To 550 cps
 HOST Vein in Precambrian Idaho Springs Formation, and Silver Plume granite.

MNZ Galena, sphalerite, chalcopryrite, pyrite, limonite, quartz. A grab sample from vein had a value of 0.019% U.

DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Two Brothers Tunnel

LOCATION: NW1/4 sec. 26, T. 3 S., R. 73 W.
 LCST UNSURVEYED
 LCRM The large dump to the west of the road is from the tunnel.

QUAD Central City 7 1/2'
 MAP DENVER
 BKG 10 to 80 cps
 RNG 150 to 300 cps
 HOST The host is Precambrian Idaho Springs Formation. It is cut by Tertiary veins, which control and contain mineralization.

MNZ Primary ore minerals are galena and sphalerite, with limonite as a secondary ore mineral. Pyrite and white and gray quartz make up the gangue. A grab sample of the limonitic material yielded .009% eU, but less than .001% U by chemical assay.

DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Bastin & Hill, 1917, U.S. Geol. Survey Prof. Paper 94, p. 285.

Unknown 1

LOCATION: SE1/4 sec. 17, T. 3 S., R. 73 W.
 LCST UNSURVEYED
 LCRM The property is near the Golconda Mine and the Blazing Star vein in the Fall River district.

QUAD Central City 7 1/2'
 MAP DENVER
 DVEL Seven small workings in the local area were examined.

BKG .05 Cps
 RNG .1 to .2 Cps
 HOST The host rock is the Precambrian Idaho Springs Formation, consisting of schist and gneiss. Veins control ore deposition.

STRC
 MNZ Reconnaissance work showed radioactivity 2 times background in the mine northeast of the Fall River Power House, 2 to 3 times background in the Blazing Star Vein, and 3 to 4 times background on a vein that lines up with the No. 4 vein of the Golconda Mine. A yellow carbonate mineral was found in the mine NE of the Power House. Quartz, pyrite, and galena were found in all of the workings.

DOI 1951

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Lovering and Goddard, 1950. Bastin and Hill, 1917.

Unknown 2

LOCATION: sec. 26, T. 3 S., R. 74 W.
 QUAD Empire 7 1/2'
 MAP DENVER
 BKG 3 to 4 mr/hr
 RNG 7 mr/hr
 HOST The host is Precambrian Idaho Springs Formation, consisting of schist and gneiss.

STRC The mineralization occurs in a bostonite porphyry dike that is 100 ft wide.

MNZ No uranium minerals were seen, but a composite chip sample showed .008% eU, and radioactivity went about twice background at the contacts of dike and host rock.

DOI 1956
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Unknown 174

LOCATION: sec. 6, T. 4 S., R. 73 W.
 LCRM Original directions to deposits are as follows: "Southwest from Idaho Springs, 0.5 miles to Spring Gulch road, west for 4.6 miles to fork in road, take right fork for .15 miles, dump is uphill in timber on left".

QUAD Idaho Springs 7 1/2'
 MAP DENVER
 DVEL There is one shaft on the property.
 BKG 125 cps
 RNG To 275 cps
 HOST A vein in a Tertiary bostonite dike and Precambrian Silver Plume Granite contains the mineralization.

MNZ Quartz and limonite were the only minerals identified.

DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Unknown 357

LOCATION: SW1/4SE1/4 sec. 32, T. 3 S., R. 73 W.
 LCST UNSURVEYED
 LCRM The mine is the middle one of three mines in that quarter-quarter section.

QUAD Idaho Springs 7 1/2'
 MAP DENVER
 DVEL The mine workings consist of 155 ft of crosscut tunnel and 250 ft of drift and stopes.

BKG .07 mr/hr
 RNG .27 mr/hr
 HOST The host rock is Precambrian Idaho Springs Formation cut by Tertiary veins.

STRC The mineralization is controlled by fault gouge in a shear zone.

MNZ The minerals seen were galena, chalcopryrite, sphalerite and limonite in a gangue of quartz and pyrite. Chip samples of the limonitic material ranged from 0.002 to 0.033% cU.

DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

CLEAR CREEK COUNTY

Unknown 358

LOCATION: SW1/4SE1/4 sec. 32, T. 3 S., R. 73 W.
 LCST UNSURVEYED
 LCRM The mine is the one furthest east in that quarter section.
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 DVEL The workings had 470 ft of drift.
 BKG .07 mr/hr
 RNG To .12 mr/hr
 HOST The host rock is Idaho Springs Formation of Precambrian age. It is cut by Tertiary veins.
 MNZ Limonite was the only mineral identified, and a chip sample taken from 280 ft inside the mine assayed 0.017% eU and 0.013% cU.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Unknown 406

LOCATION: sec. 5, T. 4 S., R. 73 W.
 LCST UNCERTAIN
 LCRM Original directions to mine are as follows: "West from Idaho Springs up Chicago Creek and Spring Gulch approximately 3.25 miles; turn left onto mine access road and proceed about 0.7 miles; the dump is small and about 100 yds up the slope to the right".
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 DVEL There is one shaft on the property.
 BKG 80 to 90 cps
 RNG 180 to 230 cps
 HOST A vein in the Precambrian Idaho Springs Formation contains the deposit.
 ALT The host was reported to be altered.
 MNZ Limonite was the only mineral mentioned.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Unknown 419

LOCATION: sec. 6, T. 4 S., R. 73 W.
 LCRM Original directions are as follows: "West from Idaho Springs up Chicago Creek and Spring Gulch approximately 7 miles to the abandoned town of Lamartine; proceed southeast on a mine access road about 0.6 mile; the dump is small and to the east of the road".
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 DVEL There is one shaft.
 BKG 60 to 80 cps
 RNG 175 to 200 cps
 HOST Vein in Precambrian Idaho Springs Formation.
 ALT Host is reported to be altered.
 MNZ Limonite and unidentified green mineral.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Unknown 428

LOCATION: sec. 12, T. 4 S., R. 74 W.

LCRM Original directions to mine is as follows: "West from Idaho Springs up Chicago and Cascade Creeks approximately 7 miles; the dump is on left near the creek, the lower tunnel is at road level on the right".
 QUAD Idaho Springs 7 1/2'
 MAP DENVER
 DVEL There are two tunnels on the property.
 BKG 100 to 125 cps
 RNG 200 to 300 cps
 HOST Vein in Precambrian Idaho Springs Formation.
 ALT Host is reported to be altered.
 MNZ Limonite and unidentified green mineral, uranium.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Unknown FR-118

LOCATION: NE1/4 sec. 21, T. 3 S., R. 73 W.
 LCST UNSURVEYED
 LCRM The mine dump is on the west side of York Gulch.
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL There is an old shaft and tunnel.
 BKG 40 to 50 cps
 RNG 300 to 400 cps
 HOST The host is Precambrian Idaho Springs Formation composed of gneiss and schist. It is intruded by pegmatites.
 STRC The pegmatites parallel the foliation of the gneiss and schist. Tertiary veins cut the host.
 ALT Supergene.
 MNZ Mineralization appears to be in the granite pegmatites. Two chip samples were submitted for analysis: Results were 0.003% and 0.004% cU.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Unknown FR-75

LOCATION: sec. 18, T. 3 S., R. 73 W.
 LCST UNSURVEYED
 LCRM From U.S. 6-40 go up Spring Gulch approximately 2 miles to a ranch house; turn right and proceed about 0.1 miles.
 QUAD Central City 7 1/2'
 MAP DENVER
 BKG 60 to 80 cps
 RNG 200 to 225 cps
 HOST The host rocks are Precambrian Idaho Springs gneiss, schist, and pegmatite, all cut by Tertiary veins.
 MNZ Limonite was the only visible mineral mentioned. A grab sample of limonitic material from the portal assayed 0.004% eU, 0.001% U, 0.10 oz/ton Ag, 0.01% Pb, & 0.01% Cu.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

CLEAR CREEK COUNTY

Unknown FR-78

LOCATION: NW1/4 sec. 20, T. 3 S., R. 73 W.
 LCST UNSURVEYED
 LCRM The dump is adjacent to, and south of, Spring Gulch road about 1.3 miles northwest of its intersection with U.S. 6 & 40.
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL The mine has one caved adit.
 BKG 60 to 80 cps
 RNG 250 to 300 cps
 HOST The host rocks are Precambrian Idaho Springs Formation, cut by Tertiary veins which contain the mineralization.
 MNZ The only ore mineral seen was limonite, which assayed 0.011 eU and 0.006% U. The sample also contained 0.06 oz/ton of Ag, 0.01% Pb, and 0.01% Cu.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

HOST Vein in Tertiary granite porphyry and Precambrian granite and schist.
 MNZ Molybdenite, quartz, pyrite, fluorite, rhodochrosite. Three grab samples had the following values: #60376 - 0.15% eU308, 0.037% cU308; #60377 - 0.009% eU308, 0.002% cU308; #60378 - 0.069% eU308, 0.021% cU308.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Unnamed 3 (Mine Dump No. 1)

LOCATION: sec. 33, T. 3 S., R. 74 W.
 LCST UNCERTAIN
 LCRM The mine dump is on the north side of U.S. 6 1 mile west of the junction of U.S. 40 and 6 and 100 ft above the road.
 QUAD Georgetown 7 1/2'
 MAP DENVER
 RNG To 5 x bg
 HOST Vein in the Precambrian Idaho Spring Formation.
 ALT Argillization and silicification.
 MNZ Galena, sphalerite, pyrite, quartz (pitchblende?).
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado.

Unnamed Mine 4 (Mine Dump No. 2)

LOCATION: sec. 34, T. 3 S., R. 74 W.
 LCST UNCERTAIN
 LCRM Directions are as follows: "dumps on south side of east end of Douglas Mountain, 1/2 mile west of U.S. 40 and 6 road junction".
 QUAD Empire 7 1/2'
 MAP DENVER
 RNG To 4 x bg
 HOST A vein in the Precambrian Idaho Springs Formation contains the mineralization.
 ALT The wall rock is sericitized and silicified.
 MNZ Pyrite, galena, sphalerite, quartz and (pitchblende) (?) are present in the vein.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Clear Creek County, Colorado. Spurr, J. E., Garrey, G. H., and Ball, S. H., 1908, U.S. Geol. Survey Prof. Paper 63, 422 p.

Urada Mine

LOCATION: sec. 31, T. 3 S., R. 75 W.
 QUAD Berthoud Pass 7 1/2'
 MAP DENVER
 DVEL Active molybdenum mine with extensive workings.
 BKG 117 cps
 RNG To 13 cps

CONEJOS COUNTY

Very limited uranium production has come from this county. In fact the producing deposit is also the only recorded occurrence of uranium.

The county is divided geologically into two terranes. The eastern half is underlain by Tertiary sediments filling the huge San Luis Valley Graben. The western half of the county is mountainous and covered by Tertiary volcanics associated with the two calderas in the northern part of the county--the Summitville and the Platoro Calderas.

The only producing occurrence in the county is the Shirley Rae Deposit, but its location is unknown. By 1971, 4 tons of ore containing one lb of U_3O_8

had been mined from this deposit. The geology of the county is not favorable for the occurrence of uranium, and this fact combined with an unknown location casts doubt on the validity of the occurrence. It is possible that sandstone-type deposits occur in the sediments filling the San Luis Valley, but of more importance is a new type of uranium occurrence that is associated with volcanogenic rocks. The two calderas in northwest Conejos County thus appear to have limited favorability for uranium resources. Also, as more research is carried out, volcanogenic-type occurrences may become economically important in the future. However, from the present state of knowledge this county has very small potential for developable reserves.

CONEJOS COUNTY

Shirley Rae

LOCATION:

LCST UNCERTAIN

DVEL Past producer.

PROD As of 1971, 4 tons were mined at a grade of 0.01% U308, producing 1 lb of U308, 0.05% V205, producing 4 lbs of V205.

MNZ Uranium.

DOI 1971

REF U.S. A.E.C., 1977, Production Records, Colorado.
U.S. Bur. of Mines, 1977, (Unpubl.).

COSTILLA COUNTY

Minor production from Costilla County consisted of 0.75 tons of ore that yielded 3.3 pounds of U_3O_8 .

The geology of the county is complex. The two main structural elements in the county are the Sangre de Cristo Mountains and the San Luis Graben Valley. Precambrian alaskite granites, gneissic granodiorite and other minor gneisses are exposed in the Sangre de Cristo Mountains and Culebra Range in the northern and eastern parts of the county. The Quaternary Alamosa Formation crops out in the San Luis Valley and consists of unconsolidated sands and gravel. Tertiary lava flows and tuffs are widespread in the southeastern half of the county.

The producing deposit in the county was the Black Jack No. 2 Deposit. It produced from sandstone in the Permian Sangre de Cristo Formation. The ore at the mine is reported to be carnotite.

There is potential for reserves to be found in the county. All the occurrences within the county lie in the Permo-Pennsylvanian Sangre de Cristo Formation in the northeastern part of the county. These occurrences are a continuation of a mineralized belt within the Sangre de Cristo Formation.

This belt is continuous along the Sangre de Cristo Range from New Mexico into Custer County. The occurrences are characterized by uranium, vanadium, and copper minerals in silty sandstone and sandy siltstone containing abundant organic material. This type of occurrence has potential but its development is seriously limited by steep dips, high elevations, and rugged topography.

COSTILLA COUNTY

Black Jack No. 2

LOCATION: sec. 36, T. 31 S., R. 70 W.
 MAP TRINIDAD
 PROD During 1959, 0.75 tons of ore average 0.22% U308 and containing 3.3 lbs U308 was shipped to the Canon City mill.
 HOST Permian Sangre de Cristo Formation.
 MNZ Carnotite.
 RMKS This prospect is on or near the section line between the location given and sec. 1, T. 32 S., R. 70 W.
 DOI 1973
 REF U.S. Geol. Survey CRIB File. U.S. A.E.C., 1971, Production Records, Colorado.

Loco Alice Prospect (Trinchera Ranch)

LOCATION: sec. 15, T. 30 S., R. 70 W.
 LCST UNCERTAIN.
 LCRM Located on Blanca Trinchera Ranch. Directions to the deposit are as follow: "From the east edge of Fort Garland, go east on U.S. 160 for 10.7 miles and turn right onto dirt road. Go 0.2 miles to the locked gate. Go 7.3 miles from the gate to an old red gate. Drive through for 2.1 miles then take right fork for 4.7 miles and another right fork for 0.2 miles to the prospect just above the road on the right."
 QUAD Trinchera Ranch 7 1/2' (?)
 MAP TRINIDAD
 DYEL A small prospect pit has been dug and several shallow trenches have been bulldozed. Nine holes have been drilled and six have been probed. Two holes show anomalous radioactivity.
 RNG To 30 X bg.
 HOST The host is arkosic, medium- to coarse-grained conglomeratic red sandstone with some carbon trash within the Permian Sangre de Cristo Formation.
 STRC The beds are vertical and strike N20°W. The radioactivity occurs in a six inch wide shear zone which parallels the bedding.
 MNZ Carnotite, volborthite, malachite, and jarosite are present. A grab sample had a value of 0.24% U308. Two other samples had values as follows: 0.24% eU308, 0.31% U308; 0.068% eU308, 0.071% U308, 0.32% V205, 3.59% Cu, and 0.22 oz/ton Ag.
 RMKS The occurrence is on the east side of a domal structure, and seems to only occur in this small area. The type of mineral holdings are undetermined.
 DOI 1954, 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Costilla County, Colorado.

Unnamed 1

LOCATION: sec. 20, T. 28 S., R. 70 W.
 LCST UNCERTAIN
 LCRM Directions are as follows: "For .4 mile along the west side of U.S. 160, 30.6 miles

west of Walsenburg and a few miles west of La Veta Pass near Sangre de Cristo Creek and Vega Creek".

QUAD Russell 7 1/2'
 MAP TRINIDAD
 BKG .025 mr/hr
 RNG .025 to .15 mr/hr
 HOST The country rocks are dark gray shales and olive colored sandstones in two stratigraphic intervals of the Pennsylvanian Formations.
 STRC The beds are steeply dipping and strike northwest.
 RMKS Anomalous radioactivity was noted over a stratigraphic interval of 700 ft.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Costilla County, Colorado.

CROWLEY COUNTY

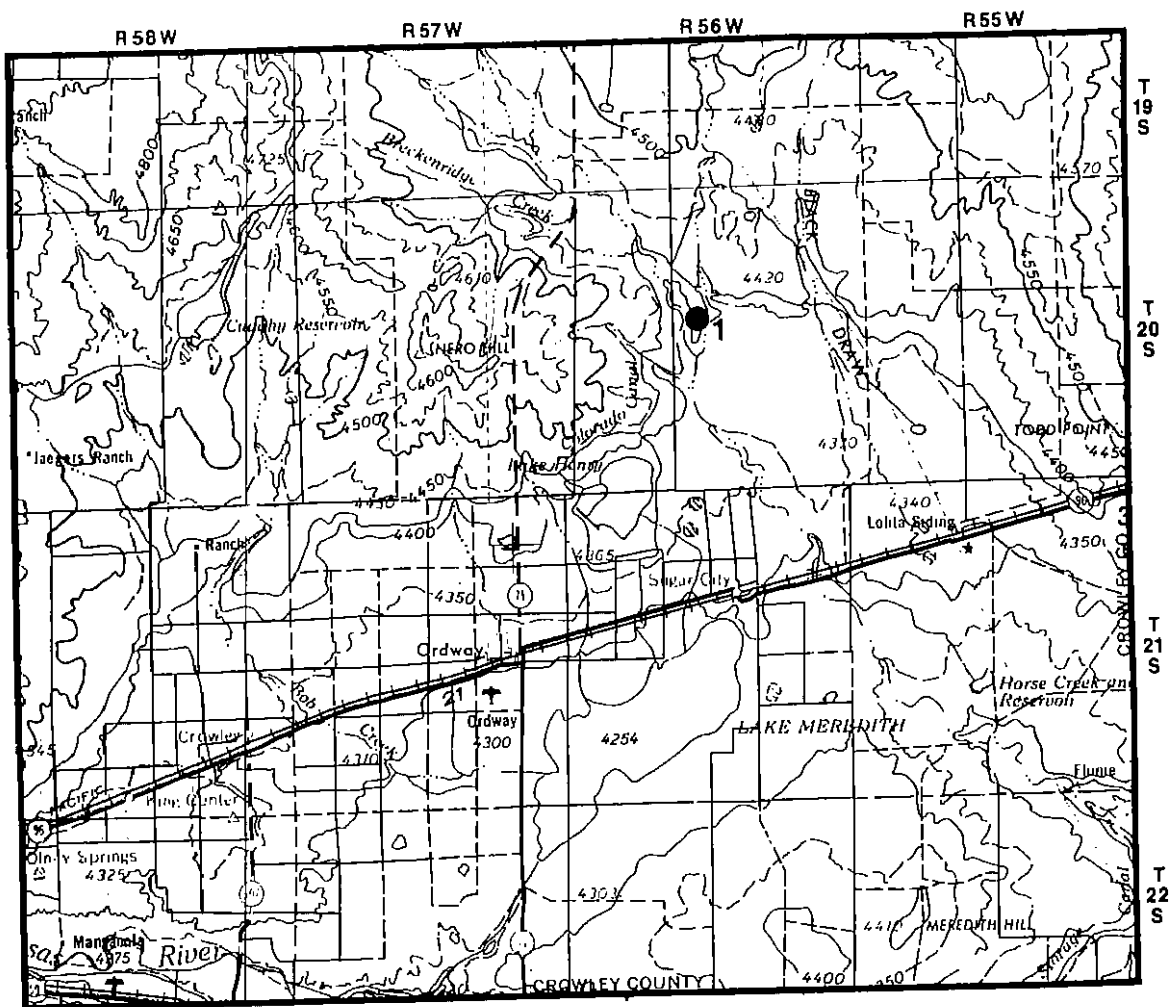
No production has been reported for the county, and potential for uranium resources to be developed in the county is very minor.

Crowley County is entirely surfaced by sedimentary rocks predominantly of the Miocene-Pliocene Ogallala Formation and the Upper Cretaceous Pierre Shale. The southwestern end of the Las Animas Arch extends into the county.

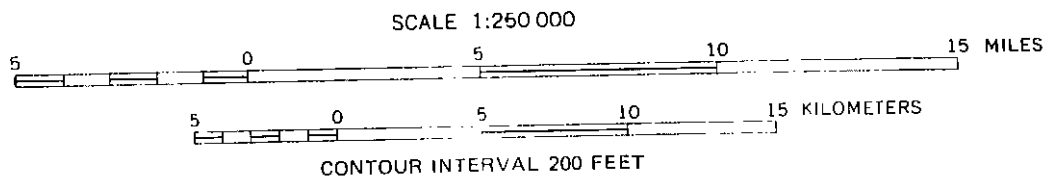
One small uranium occurrence is known within Crowley County. This occurrence is located in the

Sharon Springs Member of the Pierre Shale and is associated with iron carbonate.

The Ogallala Formation has shown higher than average uranium values from water samples taken in the county and in areas adjacent to the county. It could possibly warrant further exploration for uranium. The Sharon Springs Member of the Pierre Shale is known to contain uranium mineralization both in Colorado and adjacent states, and may also be a favorable unit for uranium resources.



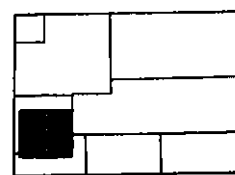
Base from U.S.G.S.



EXPLANATION

- SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE
LAKE SEDIMENT HOST ROCKS FOR OCCURRENCE
- 7 OCCURRENCE NUMBER FROM TEXT

LOCATION OF INSET



LAMAR
1° x 2° SHEET

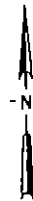


Figure 12. Radioactive mineral occurrences in Crowley County, Colorado.

CROWLEY COUNTY

Unnamed No. 1

LOCATION: sec. 16, T. 20 S., R. 56 W.

HOST The host is the Sharon Springs Member of the Pierre Shale. It is a bentonitic clay in a sandy shale with iron carbonate. The Pierre Shale is Middle to Upper Cretaceous.

MNZ .018% eU and .02% U

RMKS Mineralization is shown on plate #36 in the USGS Bulletin listed below. The mineralized area covers both sec. 16 and 17.

DOI 1959

REF Landis, E. R., 1959.

CUSTER COUNTY

Custer County contains both uranium and thorium occurrences. The Wet Mountain thorium district is one of two in the state, and one of the few in the United States. The potential for reserves to be found in the county are problematic. Thorium is not now a widely sought commodity, and the uranium occurrences are found in an area under study for wilderness designation. Production to date is 8 tons at 0.11 percent U_{308} .

Custer County is situated in the south-central part of the state. It is bounded by the Sangre de Cristo Mountains on the west and by the Wet Mountains on the east with the Wet Mountain Valley between the two ranges. The core of the Wet Mountains is composed of Precambrian igneous and metamorphic rocks, overlain on the west by Miocene volcanics and intrusives and on the east by Pennsylvanian to Cretaceous sedimentary rocks. The Wet Mountain Valley is a graben filled with thick Tertiary and Quaternary sediments. Pennsylvanian and Permian sediments crop out over most of the Sangre de Cristo Range. Recent alluvial fans and torrential wash form a broad apron at the base of the Sangre de Cristo Mountains.

There has not been much uranium or thorium production from the county. A total of about 9 tons of ore was shipped, primarily as test shipments. Most of that ore (8 tons) came from the Floyd Watters Ranch and had an average grade of 0.11 percent U_{308} . This property produced from a limonite carbonate vein in Precambrian gneiss. Thorium was more abundant than uranium, as were rare earth minerals. This prospect is a typical example of radioactive occurrences in the Wet Mountain district.

Important occurrences within the county fall into two categories: thorium deposits in the Wet Mountains and uranium deposits in the Pennsylvanian-Permian sedimentary beds. The most extensively prospected thorium deposits lie in an area about 12 miles long and 6 miles wide, extending from the Haputa Ranch north-northwest into Fremont County. The larger overall thorium-bearing district, discovered by the U.S. Geological Survey, is about 20 miles long and 10 miles wide. The Tertiary-age thorium deposits occur in northwest-

trading shear zones associated with barite-sulfide veins that cut such Precambrian complexes as amphibolite, biotite-granite gneiss, metagabbro, migmatite, microcline granite, pegmatites, white granite, and syenite. Premetamorphic basic dikes occur along the shear zones. The minerals found in the shear zones include thorite, barite, quartz, galena, fluorite, limonite, pyrite, and rare-earth oxides and uranium minerals, but the uranium is minor compared to the thorium. The largest thorium-bearing ore body known is 300 ft long, 26 ft wide, and 400 ft deep, with channel samples that had maximum values of 4.5 percent eThO₂ and 0.002 percent U (Del Rio, 1960, p. 110). The thorite and rare-earths occur as fracture fillings and coatings, and as replacement bodies in sheared rocks. A close association exists with sulfides, barite, and fluorite mineralization, all tentatively classed as Tertiary in age.

In searching for additional thorium deposits of this type, any shear zones in the county should be investigated. The most favorable areas can be recognized by 1) radioactivity, 2) siderite, quartz, and/or barite, 3) basic rocks, often altered completely to limonite, 4) fetid odor of altered rocks, 5) red-stained rocks, and 6) green or blue amphibolite minerals coating fractures.

Uranium occurrences are primarily located in the Crestone Needles area, around Horn Peak, and all along the Sangre de Cristo Range in bedded deposits of Pennsylvanian and Permian age. Most occur in slightly metamorphosed conglomerates, arkosic sandstones, siltstones, and shales in the Maroon Formation. Where the beds are most radioactive they become very dense and black and contain abundant asphaltic material.

In Custer County, mildly metamorphosed mudstones and asphalt-bearing sandstones of Pennsylvanian and Permian age in the Sangre de Cristos are the host rocks with the most potential. The uranium deposits would probably be of a low-grade, bedded type, either oxidized or unoxidized.

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18, Airborne Anomaly

LOCATION: NE1/4NE1/4 sec. 12, T. 21 S., R. 69 W.

QUAD Wetmore 7 1/2'
 MAP PUEBLO
 BKG .01 mr/hr
 RNG .028 to .03 mr/hr
 HOST The host is a gray to black shale formation.
 MNZ There is no visible mineralization, and the radioactivity seems to occur throughout the shale.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado.

Anna Lee (Anna Lee Lode)

LOCATION: SW1/4SE1/4 sec. 21, T. 21 S., R. 75 W.

LCST UNCERTAIN
 LCRM Directions given as follows: "West side of Hwy 143, 1 1/4 miles northwest of junction of Hwy 96". It is probably sec. 21, T. 21 S., R. 71 W.
 QUAD Mount Tyndall 7 1/2'
 MAP PUEBLO
 DVEL There are several shallow prospect pits.
 BKG .6 mr/hr
 RNG 2.0 to 400 mr/hr
 HOST The host rock is Precambrian granite. It is cut by a mineralized Tertiary (?) sheared syenite dike and a thorium-bearing ilmonite vein.
 STRC The mineralized zone trends N60°W with an average width of about 6 in.
 MNZ Thorium is the primary mineralization, with ilmonite as the gangue. Assays show .22 to .72% eU, .003 to .005% chem. U, 1.25 to 4.09% eThO₂, 3.81% chem. ThO₂, and 4.13% rare earths, with Th, Y, La, Ce, Nd, Sm, Pr, Gd and Dy all detected by spectrographic analysis. Manganese accounted for .135% of the sample assayed.
 DOI 1952
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado.

Barite Lode 2

LOCATION: SW1/4 sec. 8, T. 22 S., R. 71 W.

LCRM Located near the road on the east side.
 QUAD Mount Tyndall 7 1/2'
 MAP PUEBLO
 DVEL There is one 5x8x10 prospect shaft and several smaller prospect pits to the northwest and southeast.
 BKG 8.0 mr/hr
 HOST The wall rock is a Precambrian quartz-hornblende gneiss injected by Precambrian granite and cut by a Tertiary vein.
 STRC The mineralized vein strikes N45°W, and dips 85°W on the east wall and 77°E on the west wall. It is approximately 3,000 ft in length and averages 3.5 ft in width.

MNZ Primary ore minerals are thorite (?), galena, chalcopyrite, and reported silver. Gangue minerals are quartz, barite, ilmonite, and hematite. A channel sample assayed .042% eU and .001% U.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Report, Custer County, Colorado.

Beck Mountain (Beck Mountain Lode)

LOCATION: sec. 19, T. 24 S., R. 72 W.

QUAD Beck Mountain 7 1/2'
 MAP TRINIDAD
 PROD Production has been 1 ton in 1955 at an average grade of .10% U3O8, and .24% V2O5, producing 2 lbs of U3O8 and 5 lbs of V2O5. This ore was shipped to the mill at Rifle, Colorado.
 HOST The deposit is a vein-type in the Permian-Pennsylvanian Maroon Formation.
 DOI 1971
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Big Chief 1 (Star Mine)

LOCATION: SW1/4 sec. 6, T. 21 S., R. 70 W.

QUAD Mount Tyndall 7 1/2'
 MAP PUEBLO
 DVEL There are extensive old barite workings throughout the length of the vein.
 BKG 1.0 mr/hr
 RNG To 3.0 mr/hr
 HOST The host rock is Precambrian injection gneiss cut by a Tertiary barite vein.
 STRC The vein strikes N10°W and dips 70°E, with about 400 ft exposed for a width of 2 to 4 1/2 ft. In the shaft it is exposed for 50 ft.
 MNZ The ore minerals are barite, galena, and chalcopyrite, with a gangue of quartz and iron carbonate. A channel sample assayed 0.009% eU and 0.002% U.
 DOI 1951
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado.

Bull Domingo Mine

LOCATION: sec. 33, T. 21 S., R. 72 W.

LCRM Also see sec. 34, T. 21 S.
 QUAD Westcliffe 7 1/2'
 MAP PUEBLO
 DVEL There are two shafts: 1) 80 ft deep - 135 ft of caved drifts; 2) 1025 ft deep - 6 levels; several hundred ft on -250 ft and -550 ft level accessible; water at -570 ft.
 BKG .6 to .8 mr/hr
 RNG 2.2 to 3.4 mr/hr
 HOST The host is a Precambrian granite pegmatite on the footwall, a schist on the hanging wall, cut by Tertiary veins.
 STRC The radioactive minerals occur in a shear zone that is not spatially close to the breccia chimney which contained the gold-

CUSTER COUNTY

silver - lead - zinc ore that was mined before abandonment of the mine. The shear zone trends N60°E with a N80°W dip, and a width of 1 - 4 in.

MNZ The radioactive minerals are not megascopically identifiable. Silver, gold, sphalerite, galena, and uranium minerals were all detected.

DOI 1951

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado. Cross, Whitman, 1896, Emmons, S. R., 1896

D. P. Van Nouhuys Property

LOCATION: sec. 9, T. 22 S., R. 71 W.

QUAD Mount Tyndall 7 1/2'

MAP PUEBLO

MNZ Uranium and thorium have been found.

DOI 1975

REF U.S. Bur. of Mines, 1977, (Unpubl.)

Damn Fool (see Hopeful 1-3, King Midas 1-25, Macho 1-20, Crestone 1-6, Margaret Group)

LOCATION: sec. 10, T. 24 S., R. 73 W.

LCRM Also sec. 11, 14-18, 20-23 (any production would be listed for those individual properties).

HOST Permian Sangre de Cristo Formation.

MNZ Carnotite.

DOI 1971

REF U.S. Geol. Survey, 1977, CRIB File, U.S. A.E.C., 1971, Production Records, Colorado.

Darby Extension (Derby Extension)

LOCATION: sec. 7, T. 21 S., R. 71 W.

QUAD Mount Tyndall 7 1/2'

MAP PUEBLO

DVEL There are two shafts, two adits, and numerous prospect pits.

HOST The host is probably Precambrian granites and gneisses.

MNZ Channel and grab samples assayed show between 0.19 and 0.25% eU, between \$0.001 to 0.003% U, 1.08 to 1.65% eThO2, 1.39% ThO2 & 0.18% (RE)2O3. Minor quantities of Ce, La, Nd, Sm, Th, and Y were detected by semi-quantitative spectrographic analysis.

DOI 1953

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado.

Fair View Lode

LOCATION: sec. 16, T. 23 S., R. 71 W.

LCST UNCERTAIN

LCRM Directions given as follows: "2.5 miles west of Rosita, south 2.5 miles, south through goat farmer's yard, past hematite deposits, northwest of summit of road."

QUAD Rosita 7 1/2'

MAP PUEBLO

DVEL There is one trench.

BKG .02 mr/hr

RNG .35 to 1.0 mr/hr

HOST The host is Precambrian hornblende-plagioclase gneiss and granite gneiss, cut by a Tertiary thorium vein.

MNZ The radioactive minerals were not visible, but are probably minute concentrations of thorite(?). The gangue minerals include quartz, red barite, siderite, and limonite. A grab sample assayed 0.058% eU, less than 0.001% U, and 0.32% eThO2.

DOI 1953

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado.

Floyd Waters (Watter's Ranch, Mundy Claim, Lewis C. Mundy, Walters Ranch)

LOCATION: SW1/4 sec. 33, T. 21 S., R. 70 W.

LCRM Also in sec. 32.

QUAD Hardscrabble Mountain 7 1/2'

MAP PUEBLO

DVEL The area was originally prospected for lead. A trench following the vein was opened after radioactivity was discovered.

PROD 8 tons of ore at a grade of 0.11% U3O8 were shipped to the U.S. A.E.C. ore buying station at Bluewater, NM in July 1953. The ore yielded 17 lbs U3O8 and 8 lbs V2O5 (0.05% V2O5).

BKG 50 cps

RNG To 3500 cps

HOST A Tertiary siliceous carbonate vein cutting Precambrian granite gneiss and hornblende gneiss contains the mineralization. It is a purple-red color, possibly due to manganese or fluorite. The vein minerals have replaced a fine-grained biotite dike (lamprophyre). The calcareous portion of the vein is the only radioactive part, and it occurs in discontinuous lenses.

STRC The vein strikes N70°W, dips vertically, and is from 6 to 24 in. thick. Radiometric examination of the projected extension of the deposit indicates that its lateral extent is only about 150 ft.

ALT Altered limonitic clay material, about one inch thick, lies on either side of the vein.

MNZ The radioactive mineral has not been identified. The vein contains abundant calcite and limonite with hematite, radium, and rare earths reportedly present by assay. Assays show from 0.10% to 0.32% U3O8. Other elements looked for and found were V2O5 (0.05% - 0.19%), ThO2 (0.54%), six rare earths at 0.10% each and radium (1.43 mg/ton).

RMKS One sample submitted to Anaconda Copper Mining Company at Grants, New Mexico in 1953 indicated that the ore from this deposit was not amenable to standard milling practice at Grants.

DOI 1953

REF U.S. A.E.C., 1977, Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado. Brown, L. J., & Malan, R. C., 1954. Troyer, M. L., McKay, E. J., Solster, P. E., & Wallace, S. R., 1953.

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Franklin Mine (Frankland Mine)

LOCATION: sec. 32, T. 21 S., R. 70W.
 QUAD Hardscrabble Mountain 7 1/2'
 MAP PUEBLO
 DYEL There is one shaft, with 300 ft of accessible adit, and an unknown length of inaccessible adits. There are also 2 caved shafts and several prospect pits.
 BKG .6 mr/hr
 RNG To 6.0 mr/hr
 HOST The host is Precambrian granite and gneiss cut by a Tertiary vein.
 STRC Mineralization occurs in a shear zone striking N65°W for 300 ft, dipping 75°NE, with a thickness of more than 50 ft and a width of 5-10 ft.
 ALT In the shear zone, there has been abundant alteration to clay minerals.
 MNZ Galena and thorite(?) are the ore minerals, in a gangue of barite, quartz (some amethyst), siderite, ilmonite, hematite, and minor amounts of copper minerals. Samples assayed ranged from 0.025% to 0.031% eU, 0.13% to 0.17% eThO₂, and contained 0.002% U3O₈.
 DOI 1952
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado.

G. W. and Antrim Claims

LOCATION: sec. 9, T. 22 S., R. 71 W.
 LCRM Also noted in sec. 10.
 QUAD Mt. Tyndall 7 1/2'
 MAP PUEBLO
 DYEL At least 90 ft of trenching and 35 ft of cross cutting were completed under a DMEA Loan.
 HOST The host is Precambrian schists and gneiss.
 STRC The host rock is cut by Tertiary fissure veins.
 MNZ There is widespread radioactivity of low to moderate intensity. Channel samples range from 0.023% to 0.112% eU3O₈, from 0.005% to 0.012% U3O₈, and from 0.11% to 0.49% ThO₂.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.) Singewald, Q. D., Christman, R. A., and Brock, M. R., 1953. Christman, R. A.; and others, 1953.

Gold Crown 2

LOCATION: NW1/4 sec. 30, T. 23 S., R. 69 W.
 QUAD Deer Peak 7 1/2'
 MAP PUEBLO
 DYEL There is one caved, inclined shaft and one 7 ft timbered prospect pit.
 BKG .02 mr/hr
 RNG .1 to .4 mr/hr
 HOST The host is a series of Precambrian metamorphic rocks, including hornblende-plagioclase gneiss cut by Tertiary thorium vein.
 STRC The vein strikes between N75°E and N55°W for more than 500 ft.
 MNZ The primary radioactive ore minerals are not megascopically visible, but are probably minute coatings of thorite(?). Gangue minerals

include barite, red feldspar, quartz, and iron oxides. A grab sample assayed 0.061% eU and less than 0.001% U, with 0.34% eThO₂.

RMKS Also in the same area are the Mt. Day Lode Claim, Hidden Treasury Claim, and Gold Crown No. 1 Claim.
 DOI 1953
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado.

Hardin Claim Group

LOCATION: sec. 30, T. 23 S., R. 69W.
 QUAD Deer Peak 7 1/2'
 MAP PUEBLO
 DYEL There has been underground work done.
 MNZ Uranium and vanadium were detected.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Horn Peak Claims (Little Horn Peak Claims, Reese Claims, Austin Claims)

LOCATION: sec. 19, T. 23 S., R. 73 W.
 LCST UNSURVEYED
 LCRM Also see sec. 30.
 QUAD Horn Peak 7 1/2'
 MAP PUEBLO
 PROD A 50 lb sample shipped yielded 95% recovery of 1.70% U3O₈, 6.90% CaCO₃, and a U3O₈:Y2O₃ ratio of 1:1. Average grade is 0.70% U3O₈.
 BKG 500 to 800 cpm
 RNG To 35,000 cpm
 HOST The host is Permian Sangre de Cristo Formation. It is a fine- to medium-grained, micaceous quartz sandstone. It ranges in color from green to grayish green to red, and where it is radioactive it becomes very dense, and black. The cement is primarily CaCO₃, with some silica. Crinoids and brachiopods can be found in the beds.
 STRC An anticline has uplifted the area. Its axis runs approximately northwest-southeast. A fault cuts the axis, producing jointed, slickensided bedding planes. The mineralized zone can be traced for more than 1,000 ft along the dip.
 MNZ The ore-bearing units are confined to the upper and lower bedding planes. A black material (probably one of the primary uranium minerals) occurs between sand grains. Only minor occurrences of yellow-green, non-fluorescent secondary minerals occur. Sample sent for analysis ranges from 0.55% to 1.70% U3O₈. Grab samples in the field register 0.4 to 1.10 mr/hr.
 DOI 1956
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado.

John Spalding

LOCATION: NE1/4NE1/4 sec. 13, T. 21 S., R. 71 W.
 QUAD Mount Tyndall 7 1/2'
 MAP PUEBLO

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DVEL There is one forty ft shaft and three prospect pits.
 BKG .9 mr/hr
 RNG To 2.8 mr/hr
 HOST The deposit is in a quartz-barite mesothermal vein of unknown age, cutting microcline granite and injection gneiss. The wallrocks strike N45°E and dip 75°W.
 STRC The vein is reported to be 0.5 mile long, but was only observed for 150 ft. Its width is 18-24 in. and it cross cuts the foliation at a strike of N25°W, dipping 85°W.
 MNZ The primary minerals are barite, some galena and a black unknown substance. Gangue minerals include quartz, serpentine(?) chlorite(?), and hematite. The radioactive minerals appear to have been the last ones deposited. A grab sample assayed 0.008% eU, and 0.002% chemical U.
 DOI 1951
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado.

King Midas and Bonanza Claims (King Midas No. 8)

LOCATION: sec. 17, T. 24 S., R. 73 W.
 LCRM Sec. 19, T. 23 S., R. 73 W., sec. 1, T. 45 N., R. 11 E.
 QUAD Horn Peak 7 1/2'
 MAP TRINIDAD
 PROD According to U.S. A.E.C. Records, in 1966, 0.22 tons of ore averaging 0.39% U308 and containing 2 lbs of U308 was produced from the King Midas No. 7 Claim.
 BKG Aver. .15 mr/hr
 RNG To 2.0 mr/hr
 HOST The host is the Permian Sangre de Cristo Formation.
 MNZ In slightly metamorphosed conglomerates, arkosic sandstones and shales - coiffinite and uranophane - richest nearest base of bed from 6 in. to 18 in. - Carbon associated with ore. One sample submitted for analysis assayed 1.17% U308. Some carnotite and tyuyamunite were detected.
 DOI 1977
 REF ARCO, 4/29/77, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.) U.S. A.E.C., 1971, Production Records, Colorado.

Lee Jones Ranch

LOCATION: SE1/4 sec. 34, T. 21 S., R. 71 W.
 QUAD Mount Tyndall 7 1/2'
 MAP PUEBLO
 DVEL There is one three ft prospect pit.
 BKG .90 mr/hr
 RNG To 11.0 mr/hr
 HOST The prospect pit is in microcline granite.
 MNZ No mineralization was visible except some iron minerals. A grab sample assayed 0.089% eU and 0.058% U.
 DOI 1951
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado.

Lucky Find (Lucky Strike)

LOCATION: NW1/4 sec. 33, T. 21 S., R. 71 W.
 QUAD Mount Tyndall 7 1/2'
 MAP PUEBLO
 DVEL Two 15 ft prospect shafts and several smaller pits are present on the property.
 BKG 1.0 mr/hr
 RNG 4.0 to 36.0 mr/hr
 HOST The host is an injection gneiss with pre-mineralization lamprophyre paralleling the vein. The mineralization lies in a Tertiary(?) barite vein.
 STRC The vein strikes roughly N70°W for 1,500 ft, dips vertically and is two to seven ft wide.
 MNZ Thorite, barite and chalcopryrite in a quartz gangue are the ore minerals present. Samples assayed between 0.004% and 0.013% eU308 and 0.001% U308.
 DOI 1951
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado.

Mystery Lode

LOCATION: SE1/4SW1/4 sec. 26, T. 21 S., R. 71 W.
 QUAD Mount Tyndall 7 1/2'
 MAP PUEBLO
 BKG 5.0 mr/hr
 RNG 12.0 to 20.0 mr/hr
 HOST The wall rock is a Precambrian injection gneiss with foliation striking N60°E and dipping 85°NW.
 STRC A vein crosscuts the gneiss with a six in. shear zone on the east side. It strikes N15°W and dips 60°W, with a width of one to two ft.
 MNZ Primary ore minerals include barite, sphalerite, galena, chalcopryrite and rhodochrosite. Gangue minerals are milky and smoky quartz. Grab samples from the dump assayed 0.036% to 0.097% eU, but only 0.001% chemical U.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado.

Nightengale Claim (Atomic Mountain Group, Nightingale, Thorium Mountain)

LOCATION: SW1/4SW1/4 sec. 15, T. 22 S., R. 71 W.
 LCRM The CRIB File lists this in sec. 21 and 22.
 QUAD Mount Tyndall 7 1/2', Rosita 7 1/2'
 MAP PUEBLO
 DVEL There is one 6x8x6 prospect pit and several smaller pits.
 BKG .90 mr/hr
 RNG To 4.0 mr/hr
 HOST The host is a Precambrian amphibolitic granite gneiss, gabbro, migmatite and pegmatite cut by Tertiary(?) barite veins in a shear zone. The exposures are very poor.
 STRC The vein strikes N45°W for at least 500 ft, dips vertically, and is five ft wide.
 MNZ Thorite, galena, fluorite, and pyrite are present in a barite and quartz vein. One sample assayed 0.049% eU308 and 0.001% U308. Rare earths are present.

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RMKS Several claims are in the same area. They include Mystery Claim, Lucky Find, Starbuck, General-like and Thorium Mountain Claims.

DOI 1972

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado. Christman, R. A., and others, 1953.

Pennie Poker

LOCATION: NE1/4 sec. 7, T. 21 S., R. 71 W.

QUAD Mount Tyndall 7 1/2'

MAP PUEBLO

DVEL There is a 25 ft shaft and a tunnel. The shaft is cut in the gouge and shear zone.

BKG 5.0 mr/hr

RNG 30.0 mr/hr

HOST The deposit lies in a mesothermal vein of unknown age, cutting an injection gneiss that strikes N20°W and dips 80°N for a distance of 1,800 ft.

STRC The deposit is controlled by a 4.5 ft shear zone with 8 - 12 in. gouge on the footwall.

MNZ Galena and the unknown radioactive substance are the primary ore minerals. Quartz, hematite-ilmonite, barite, and iron carbonate are the secondary minerals. A grab sample from the dump assayed 0.064% eU and 0.001% chemical uranium.

DOI 1951

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado.

Rare Earth Special 1, 2, 4

LOCATION: sec. 4, T. 22 S., R. 71 W.

LCRM Also listed in sec. 3 by U.S. Bur. of Mines.

QUAD Mount Tyndall 7 1/2'

MAP PUEBLO

DVEL There is one small shaft, and several prospect pits.

BKG .02 mr/hr

RNG 2.5 av., .1-.7 mr/hr

HOST The host is Precambrian microcline granite and hornblende-plagioclase gneiss trending N85°E and dipping 45°NW, cut by a Precambrian(?) thorium vein.

STRC The ore is in a three foot andesite dike trending N10°W filling a shear zone.

ALT The andesite dike is completely altered to a psittic-like rock.

MNZ Ore minerals include ilmonite, calcite, and iron oxides, and possibly some barite. Samples assayed ranged from 0.078% to 0.20% eU, 0.002% to 0.005% U, and 0.43% to 1.09% eThO2. The gangue is a red feldspar and quartz combination.

RMKS The claims also lie in sec. 3, T. 22 S., R. 71 W.

DOI 1953

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado. Christman, R. A., Brock, M. R., Pearson, R. C., and Singewald, Q. D., 1954.

Sewell Ranch

LOCATION: N1/2 sec. 4, T. 22 S., R. 70 W.

QUAD Hardscrabble Mountain 7 1/2'

MAP PUEBLO

DVEL Two adits, one shaft, and several prospect pits were dug.

BKG .6 mr/hr

RNG To 2.4 mr/hr

HOST The occurrence is in a Tertiary thorium vein cutting Precambrian granite and hornblende gneiss.

STRC The mineralized vein strikes N45°W, and dips 80°E. It is roughly 1,000 ft long, averages 8 ft wide, and is at least 40 ft deep.

MNZ Thorite and a trace of galena could be visually identified, with quartz, barite, and ilmonite forming the gangue. The thorite appears to be more recent than the quartz and barite. Assays show eU ranging from 0.010% to 0.11%, chemical U ranging from 0.001% to 0.002%, eThO2 ranging from 0.051% to 0.516%, and chemical ThO2 ranging from 0.00 to 0.02%. Rare earths comprise from 0.03% to 0.06% of the vein, with Th, Y, La, Ce and Nd all present. Manganese account for 0.309% of the vein.

DOI 1952

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado.

Sunshine Valley Lode

LOCATION: sec. 32, T. 22 S., R. 71 W.

LCST UNCERTAIN

LCRM Also see sec. 33. This should probably be T. 21 S., R. 71 W., sec. 32 or 33, because the deposit is described as being "north of Brush Hollow road".

QUAD Mount Tyndall 7 1/2' or Rosita 7 1/2'

MAP PUEBLO

DVEL There is one prospect pit.

BKG .02 mr/hr

RNG .15 to 1.8 mr/hr

HOST The host consists of metamorphic Precambrian gneisses, cut by Tertiary thorium veins.

MNZ Radioactive minerals are not visible, but are probably disseminated thorite primarily. The gangue is composed of quartz, red barite, and ilmonite.

DOI 1953

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado. Christman, R. A., Brock, M. R., Pearson, R. C., and Singewald, Q. D., 1954.

Swartz Ranch (Unnamed)

LOCATION: SW1/4 sec. 9, T. 22 S., R. 71 W.

LCRM The deposit is north of the Schwartz ranch buildings down Tyndall Gulch.

QUAD Mount Tyndall 7 1/2'

MAP PUEBLO

DVEL There are two prospect pits.

BKG .6 mr/hr.

RNG To 24.0 mr/hr

CUSTER COUNTY

HOST The host is Precambrian metasediments and minor granite cut by Tertiary(?) veins. The mineralized area is in a silicified dike that fills the shear zone.

STRC The shear zone (and dike) strikes N28°W for a length of 1,800 ft.

MNZ The ore mineral is thorite(?), with a gangue of silicified dike rock, limonite, and hematite. Samples assayed between 0.40% and 1.2% eU, 0.005% U, and between 1.71% and 6.51% ThO₂.

DOI 1952

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado.

Thorite Mother Lode 1, 4

LOCATION: sec. 34, T. 21 S., R. 71 W.

QUAD Mount Tyndall 7 1/2'

MAP PUEBLO

DVEL There are several prospect pits.

BKG .02 mr/hr

RNG To 1.5 mr/hr

HOST The host is a series of Precambrian metamorphics cut by a Tertiary thorium vein.

ALT The vein appears to be a replacement of a syenite dike.

MNZ No visible radioactive minerals are present, but probably occur as disseminated thorite(?). Barite, red feldspar, and iron oxides make up the gangue.

DOI 1953

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Custer County, Colorado. Christman, R. A., Brock, M. R., Pearson, R. C., and Singewald, Q. D., 1954. Survey TE1-354.

DELTA COUNTY

There has been no production of uranium from Delta County, and the potential for reserves within the county is small.

The county is largely underlain by Cretaceous and Tertiary sediments. A large portion is covered by three formations, the Upper Cretaceous Mancos Shale and Mesaverde Group, and the Tertiary Wasatch Formation. On the northern edge of the county volcanic rocks cover Grand Mesa.

Six of the eight occurrences in the county are radioactive springs. The other two occurrences are of the sandstone type, but the validity of one is

questionable. One reason for the low uranium potential is that most spring occurrences do not indicate ore bodies. Secondly, the Upper Cretaceous and Tertiary rock units in the county are not considered favorable hosts for uranium. Although host rocks that characterize the Uravan mineral belt are found in the subsurface of Delta County, the projected trends from that belt do not point to Delta County. One final point, however, is that some springs in the county are radioactive due to uranium. Most radioactive springs are anomalous due to radium and radon. This difference may indicate possible uranium mineralization at depth in the area of the springs.

DELTA COUNTY

Austin Springs

LOCATION: NW1/4SE1/4SE1/4 sec. 31, T. 14 S., R. 94 W.
 LCRM NW1/4NE1/4NE1/4 sec. 6, T. 15 S., R. 94 W. - Southern Spring.
 QUAD Orchard City 7 1/2'
 MAP MONTROSE
 HOST Radioactive spring deposit in Dakota Sandstone.
 STRC N-S Fault with Dakota on eastern upthrown side.
 MNZ 60 ppm, (eU).
 RMKS Reportedly not as radioactive as springs to east.
 DOI 1976
 REF Cadigan, R. A., and others, 1976.

Colonel ChInn Artesian Well

LOCATION: SW1/4NE1/4NE1/4 sec. 14, T. 14 S., R. 92 W.
 QUAD Hotchkiss 7 1/2'
 MAP MONTROSE
 RMKS Cased oil test well filled with warm water (104°F) near farm house. Not anomalous in comparison to other water. However, the radium/uranium disequilibrium is high. Radium is enriched by a factor of 880 times.
 DOI 1976
 REF Cadigan, R. A., and others, 1976.

Doughty Spring

LOCATION: NE1/4NW1/4NW1/4 sec. 11, T. 15 S., R. 93 W.
 LCRM Small spring that drains into Bathtub Spring.
 QUAD Lazear 7 1/2' and Hotchkiss 7 1/2'
 MAP MONTROSE
 HOST Radioactive spring deposit in Dakota Sandstone.
 STRC Bedding planes (?)
 MNZ Maximum of .55% (eU308). Probably due to radium. This measurement taken on travertine deposit around spring.
 RMKS Area contains at least 7 springs over a length of 50 ft. These include Thorium, Drinking, Bathtub, Alum, and Black Springs, among others.
 DOI 1976
 REF Cadigan, R. A., and others, 1976.

Geysers (Lucky Strike Claims 1 - 30)

LOCATION: SE1/4NW1/4 sec. 5, T. 15 S., R. 94 W.
 LCRM South terrace of Gunnison River.
 QUAD Orchard City 7 1/2'
 MAP MONTROSE
 HOST Radioactive spring deposits.
 MNZ 90 ppm (eU).
 RMKS Travertine is a bright rust color.
 DOI 1976
 REF Cadigan, R. A., and others, 1976. U.S. A.E.C., Preliminary Reconnaissance Reports, Delta County, Colorado (open-filed).

Hotchkiss National Fish Hatchery

LOCATION: NE1/4SW1/4SE1/4 sec. 3, T. 15 S., R. 93 W.
 LCRM Spring in old adit.
 QUAD Lazear 7 1/2'
 MAP MONTROSE
 HOST Radioactive spring deposit in Cretaceous Dakota Sandstone.
 MNZ 2500 ppm (eU).
 DOI 1976
 REF Cadigan, R. A., and others, 1976.

L. B. Wyman Property

LOCATION: sec. 15, T. 51 N., R. 13 W.
 LCRM "11 miles west of Delta on U.S. Highway 50, then 3.8 miles south to Gunnison River bridge, then 8 miles south of bridge up Escalante Canyon."
 QUAD Good Point 7 1/2'
 MAP MOAB
 HOST Dinosaur bone in sandstone lens and mud galls in a basal conglomeratic lens of the Salt Wash Member of the Morrison Formation of Jurassic age.
 STRC Channels.
 MNZ Carnotita? Mineralized zone estimated to 5 ft by 10 ft.
 DOI 1954
 REF U.S. A.E.C., Preliminary Reconnaissance Reports, Delta County, Colorado (open-filed).

Little U Claims

LOCATION:
 LCST UNLOCATABLE
 LCRM Original directions to occurrence are as follows: "Approximately 15 miles due east of Delta, off Ute trail up Gunnison Canyon, 1/2 mile from Montrose County line".
 DVEL Claim owners were given as follows: E. L. Ensley, J. C. Ensley, Dave Builgh, Kenneth Cole.
 MNZ 1 sample described as float and submitted by owner had a value of .15% U308.
 RMKS Location was not visited and all information is from owners. Only way to verify location would be to check Delta County Claim records.
 DOI 1954
 REF U.S. A.E.C., Preliminary Reconnaissance Report, Delta County, Colorado (open-filed).

Sulfur Gulch

LOCATION: NE1/4SW1/4SE1/4 sec. 36, T. 14 S., R. 94 W.
 QUAD Lazear 7 1/2'
 MAP MONTROSE
 HOST Radioactive Spring Deposit in Dakota Sandstone.
 STRC Joint faces.
 MNZ 60 ppm (eU).
 RMKS Travertine accumulated as a cement of old gravel beds. Abundant Sulfur has resulted in rocks being quarried for soil conditioner.
 DOI 1976
 REF Cadigan, R. A., and others, 1976.

DENVER COUNTY

Although no occurrences of uranium have been reported in the county, a slight possibility exists that occurrences may be found in the subsurface. However, the probability that they would ever be exploited is extremely small.

DOLORS COUNTY

Production from the county has not been great. About 285 tons of uranium/vanadium ore were mined in the county as of 1971. Nearly half of that came from the South Barlow Mine, which produced ore from the Jurassic Entrada Sandstone. Several of the smaller mines were listed with production from the Jurassic Morrison Formation. Potential for reserves to be found in the county is favorable even though the county lies south of the Uravan belt.

Dolores County is in the southwestern part of the state in typical sedimentary terrane of the Colorado Plateau. The western part of the county is dominated by plateaus and mesas capped by Cretaceous Dakota Sandstone, with Pennsylvanian to Jurassic sediments exposed in the canyons between the mesas. The central part of the county is largely covered by the Upper Cretaceous Mancos Shale and the Mesaverde Group, with older formations exposed along the flanks of the drainages. The Rico Uplift and its associated features dominate the structural picture in the eastern part of the

county. The uplift was caused by laccolithic and sheet intrusion of magmas into the sediments and by vertical uplift. The Dolores River and its tributaries deeply dissect the uplifted rocks.

The two most important occurrences in the county are the Blue Eagle Mine and the South Barlow Mine. The Blue Eagle Mine produced ore from the Salt Wash Member of the Jurassic Morrison Formation. The South Barlow Mine produced from the Jurassic Entrada Sandstone. These mines, as well as the others, lie primarily in two areas, near Dunton, and along the Dolores River.

The county lies southeast of the primary uranium-producing areas of the Colorado Plateau, but carnotite deposits are found in many exposures of the Jurassic Morrison and Entrada Formations. Areas with potential for further reserves include exposures of these two formations, especially along the course of the Dolores River and along the county's northwestern borders where mining is still taking place.

DOLORES COUNTY

Arrow Head (Arrowhead Group)

LOCATION: sec. 18, T. 41 N., R. 17 W.
 QUAD Secret Canyon 7 1/2'
 MAP CORTEZ
 PROD By 1971, 25 tons had been mined at a grade of 0.16% U308 and 2.62% V205, producing 78 lbs of U308 and 1,310 lbs of V205.
 HOST The host is the Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Uranium mineralization with carnotite and tyuyamunite recognized.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. Shawe, D. R. and others, 1961, U.S. Geol. Survey Map MF-203.

Barlow Group (Barlow Creek)

LOCATION: sec. 10, T. 40 N., R. 10 W.
 QUAD Hermosa Peak 7 1/2'
 MAP DURANGO
 PROD By 1971, 38 tons of ore had been mined at grades of 0.07% U308 and 1.94% V205, producing 56 lbs of U308 and 1,477 lbs of V205.
 HOST The host is the Jurassic Entrada Sandstone.
 MNZ The principal mineral identified is roscoelite.
 RMKS The outcrop of the Entrada Sandstone is reported to be continuous from the Graysill Mine.
 DOI 1967
 REF U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S. Geol. Survey Prof. Paper 538, p.14.

Black Hat (Legion Group)

LOCATION:
 LCST UNCERTAIN
 PROD By 1971, there were 10 tons of ore mined at grades of 0.32% U308 and 0.65% V205, producing 65 lbs of U308 and 131 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uraninite and/or coffinite were recognized.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Blue Eagle 1

LOCATION: sec. 7, T. 38 N., R. 19 W.
 PROD There had been 62 tons mined by 1971, at grades of 0.18% U308 and 2.36% V205, producing 226 lbs of U308 and 2,929 lbs of V205.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Mineralization is of the carnotite - tyuyamunite type.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Blue Eagle Mine

LOCATION: sec. 36, T. 41 N., R. 11 W.

QUAD Dolores Peak 7 1/2'
 MAP CORTEZ
 DVEL There had been 62 tons mined by 1971, at grades of 0.18% U308 and 2.36% V205, producing 226 lbs of U308 and 2,929 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, uranium and vanadium are present.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Broken Thumb 2 (Bottle & Jug)

LOCATION: W1/2 sec. 19, T. 41 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show E1/2 sec. 4, T. 41 N., R. 78 W.
 QUAD Secret Canyon 7 1/2'
 MAP CORTEZ
 DVEL Surface and underground workings are present.
 PROD As of 1971, there had been 13 tons of ore mined at grades of 0.20% U308 and 2.48% V205, producing 53 lbs of U308 and 644 lbs of V205.
 HOST The deposit occurs in the Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Uranium mineralization with carnotite and tyuyamunite identified.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Shawe, D. R. and others, 1961, U.S. Geol. Survey Map MF-203.

Rainy Day (Pack Rat)

LOCATION: sec. 13, T. 41 N., R. 18 W.
 LCRM The deposit also extends to sec. 14, 22, and 23. The main production was from sec. 22 (Rainy Day). It lies on the northwest side of the Dolores River.
 QUAD Secret Canyon 7 1/2'
 MAP CORTEZ
 DVEL There were underground workings.
 PROD As of 1971, the Rainy Day yielded 22 tons of ore at grades of 0.13% U308 and 3.09% V205, producing 55 lbs of U308 and 1,360 lbs of V205.
 HOST The deposit lies in a vein cutting the Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Uranium and vanadium mineralization are present.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Shawe, D. R. and others, 1961, U.S. Geol. Survey Map MF-203.

Rico Argentine Mine (Rico Argentine Mining Company, Blaine Tunnel, Argentine Tunnel, Black Hawk Level, Mountain Springs Mine, Revenue Mine, Atlantic Cable Mine, Yellow Jacket Mine, Falcon Mine, Pro Patria Mine, Shamrock and Atlantic Cable Mine, Silver Swan Mine)

LOCATION: sec. 24, T. 40 N., R. 11 W.
 LCST UNSURVEYED

DOLOROS COUNTY

LCRM About 3 miles north of Rico on east side of Dolores River.
QUAD Rico 7 1/2'
MAP CORTEZ
DVEL The mine has extensive underground workings, including the Blaine Tunnel, Argentine Tunnel, and Black Hawk level.
BKG .02 to .04 mr/hr
RNG .1, .15, to .2 mr/hr
HOST The workings at the Blaine Tunnel are in the Pennsylvanian Hermosa Formation.
STRC The tunnel is cut by the Black Hawk vein, which strikes ESE, and dips nearly vertically.
MNZ The radioactivity is associated with a pyrite-quartz aggregate, massive in character, in a sandstone adjacent to the Black Hawk vein in the Blaine tunnel. Other minerals present include galena, sphalerite, chalcopryite, silver, gold, secondary copper minerals, and pyrite crystals. A grab sample collected from the floor to the back in the area of highest radioactivity of the Blaine Tunnel assayed 0.017% eU and 0.009% U. This sample was taken in an area approximately 1,750 ft in from the portal.
DOI 1953
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Dolores County, Colorado (Two reports, Blaine Tunnel and Rico Argentine mine).

Silver Swan

LOCATION: sec. 2, T. 39 N., R. 11 W.
QUAD Rico 7 1/2'
MAP CORTEZ
DVEL Mining was carried out from underground workings, no record of uranium production.
HOST The host is probably Jurassic Entrada Sandstone.
MNZ Silver, gold, zinc and uranium mineralization are all present.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.).

South Barlow

LOCATION: sec. 10, T. 40 N., R. 10 W.
LCST UNCERTAIN
LCRM The location assigned for this was the same as for the Barlow Group. It is assumed that they are close, although each had its own production figures.
QUAD Hermosa Peak 7 1/2' (?)
MAP DURANGO
PROD 115 tons of ore were mined as of 1971 at grades of 0.11% U3O8 and 2.79% V2O5, producing 254 lbs of U3O8 and 6,419 lbs of V2O5.
HOST The host is the Jurassic Entrada Sandstone.
MNZ Mineralization is probably roscoelite.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

DOUGLAS COUNTY

There has been no production of uranium from Douglas County. Few occurrences have been reported within the county.

The county is divided into two geological terranes. The eastern part of the county is underlain by flat-lying Tertiary sediments. The western half is a complex area of Precambrian rocks, including the Pikes Peak Granite and gneisses, schists and quartzite of the Idaho Springs Formation. The northern end of the Woodland Park Graben extends into the southern part of the county.

Two occurrences are associated with shear zones and pegmatites in the Precambrian rocks. A third

occurrence is found in clay in the sediments of the Dawson Formation from the northeastern section of the county.

There is some potential for resources to be found in both geological environments. The eastern part of the county is in the Denver Basin. There has been considerable interest in the basin as a host for sandstone type occurrences, especially in the Tertiary Dawson Arkose. However, no commercial deposits are known within the formation. The Precambrian rocks of the Idaho Springs Formation are the hosts for uranium at the important Schwartzwalder Mine near Golden, and the potential exists for a similar type of deposit in Douglas County.

DOUGLAS COUNTY

Highland Ranch (Airborn Anomaly No. 1, Phipps Ranch)

LOCATION: sec. 12, T. 6 S., R. 68 W.
QUAD Highland Ranch 7 1/2'
MAP DENVER
BKG .03 mr/hr
RNG .03 to .4 mr/hr
HOST The host is a plastic clay in the Eocene Dawson Arkose.
MNZ A yellow mineral was found in small amounts. The zone of radioactivity is about 4 in. thick and lies 12 in. below the surface.
DOI 1955
REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Douglas County, Colorado.

Kaminski Prospect

LOCATION: E1/2 sec. 23, T. 7 S., R. 69 W.
QUAD Kassler 7 1/2'
MAP DENVER
BKG .05 to .07 mr/hr
RNG .07 to 2 mr/hr
HOST Precambrian pegmatite in quartz mica schist of the Idaho Springs Formation.
MNZ Euxenite type in seams and pods in pegmatite.
DOI 1954
REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado.

Penley No. 1 Lease

LOCATION: SW1/4 sec. 32, T. 7 S., R. 68 W.
QUAD Kassler 7 1/2'
MAP DENVER
DVCL One 120 ft shaft has been sunk. Four test pits and six holes were drilled.
BKG .017 mr/hr
RNG .017 to 1.0 mr/hr
HOST The host is Precambrian granite and the Pennsylvanian Fountain Formation.
STRC Radioactivity also occurs in the shear zone between the rock types.
ALT The granite is described as being altered and radioactive.
MNZ A yellow mineral thought to be carnotite was observed with iron oxides.
RMKS An outcrop north of the shaft also had anomalous radioactivity.
DOI 1955, 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Douglas County, Colorado.

EAGLE COUNTY

Production from Eagle County has been negligible. Records show that by 1971 5 tons of ore had been mined, producing 29 lb of U_3O_8 . There is potential for more ore to be produced from Eagle County.

The geology of the county is complex. Rocks and structures of all types and ages are found within its boundaries. The four major structures in the county are the White River Uplift, the Sawatch Uplift, the Eagle Basin, and the Homestake Shear Zone. The Homestake Shear Zone is a major zone of dislocation in Precambrian rocks of the Sawatch Uplift. In southeastern Eagle County the uplift exposes Precambrian granite gneisses and migmatites. The Eagle Basin is a late Paleozoic depositional trough that contains large volumes of gypsum, anhydrite, and salt. Uranium occurrences are recorded in many of these rocks types in or adjacent to Eagle County.

Of the 13 occurrences noted in the county, the only two that have recorded production are the Arrowhead 1 and Dorado Claims.

The Arrowhead 1 Claim, located on Red and White Mountain in the center of the county, produced ore from the

Triassic Chinle Formation. Another nonproducing occurrence lies in the same area.

The Dorado Claims, located 6 miles west of Vail Pass, produced from the Permo-Pennsylvanian Maroon Formation. Drilling was carried out on the property during the 1950's; however, the area where the drilling delineated some reserves is now covered by Interstate Highway 70.

Eagle County has some potential for uranium reserves. As noted before, many of the rock types contain occurrences within the county or adjoining counties. The Morrison Formation and the Chinle Formation show potential for sandstone-type deposits. Many occurrences in the northern part of the county that have no recorded production are all associated with the Cambrian Sawatch Quartzite and appear to be unconformity-related types of occurrences. A number of occurrences are found in the Tertiary Troublesome Formation and the North Park Formation in the counties to the north. This suggests some potential for similar deposits in the northeastern part of Eagle County.

EAGLE COUNTY

Arrowhead 1

LOCATION: NE1/4NE1/4 sec. 14, T. 4 S., R. 82 W.
 QUAD Edwards 7 1/2'
 MAP LEADVILLE
 PROD In 1955, 3 tons were mined at a grade of 0.22% U308, and 0.15% V205, producing 13 lbs of U308 and 9 lbs of V205.
 BKG .015 mr/hr
 RNG .01 to 5.0 mr/hr
 HOST Triassic Chinle Formation, conglomerate sandstone of the Shinarump Member.
 MNZ Carnotite - type mineralization associated with carbon trash.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Eagle County, Colorado. Kuehnel, F. W., 1956.

Blue-Bell (Lady Bell, Ground Hog 1, Black Eagle Lode, 6 Claims)

LOCATION: sec. 30, T. 5 S., R. 83 W.
 LCRM On Horse Mountain.
 QUAD Fulford 7 1/2'
 MAP LEADVILLE
 DYEL 3,500 ft of drifts, various shafts, winzes and cuts.
 PROD Assay value of 0.5% U308.
 BKG .05 mr/hr
 RNG .05 to .7 mr/hr
 HOST Jurassic Entrada Sandstone.
 MNZ Secondary uranium minerals reported from dump of Ground Hog #1 Claim and Black Eagle Lode. Other minerals occurring at the site are chalcopryrite, azurite, malachite, chalcocite, roscoelite, cerargyrite, Au, V.
 RMKS Any interested persons should read the Preliminary Reconnaissance Reports on the Brush Creek Mining District (especially the Black Eagle Lode) before visiting area.
 DOI 1951
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Eagle County, Colorado. Hubert, J. F., 1954, Structure and stratigraphy of an area east of Brush Creek, Eagle County, Colorado, Thesis, Univ. of Colorado. Gableman, J. W., 1949, Geology of the Fulford and Brush Creek Mining Districts, Eagle County, Colorado School of Mines [Doctoral Thesis]. Vanderwilt, John W., 1947, Mineral Resources of Colorado, Colorado Mineral Resources Board Bulletin, p. 77. George, R. D., 1913, Geologic Relations in the Brush Creek Region, Colorado; Mining Sci., v. 67, pp. 148-149.

Dorado Claims (Little Spring Claims, Golden Fleece, Gringo Claims)

LOCATION: sec. 21, T. 5 S., R. 79 W.
 LCRM About 6 miles west of Vall Pass at the confluence

of Gore Creek and Miller Creek.
 QUAD Red Cliff 7 1/2'
 MAP LEADVILLE
 DYEL Exploration of this area was carried out during the 1950's under a DMEA loan. Work, including drilling of 14 holes in 1957-1958, and the driving of an adit approximately 80 ft long, was carried out by the Gaddis Mining Company.
 PROD In 1966, 2 tons were mined from the Dorado Claims at a grade of 0.40% U308 producing 16 lbs of U308.
 BKG 130 to 180 cps
 RNG 600 to 10,000 cps
 HOST Permo-Pennsylvanian Maroon Formation, gray to reddish, fine- to medium-grained micaceous sandstone with interbedded limestone and shale.
 STRC None apparent although the Gore Fault is nearby. The beds are on the east flank of an asymmetrical syncline.
 ALT Sandstone appears to be more reddish in areas of mineralization.
 MNZ Uranophane, torbernite, pyrite, uraniferous coal, azurite, malachite.
 RMKS Interstate 70 now covers much of the area where drilling was carried out.
 DOI 1976
 REF Atlantic Richfield, 1977. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Eagle County, Colorado.

Dortha 1

LOCATION: T. 2 S., R. 84 W.
 LCST UNCERTAIN
 LCRM On State highway 301 about 5 miles west of McCoy.
 MAP LEADVILLE
 BKG .02 mr/hr
 RNG .1 to .25 mr/hr
 HOST Triassic red beds and Paleozoic siltstone.
 STRC Fault controlled.
 MNZ No minerals identified.
 RMKS Radioactivity follows fault zones and fractures. It is of unknown thickness.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Report, Eagle County, Colorado.

Horse Mountain Uranium Mines

LOCATION: sec. 25, T. 5 S., R. 84 W.
 QUAD The Seven Hermits 7 1/2'
 MAP LEADVILLE
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Lone Tree Claims

LOCATION: sec. 34, T. 4 S., R. 80 W.
 LCST UNCERTAIN
 LCRM Directions to occurrence are as follows: "From junction of US Highway 6 and 24 drive about five miles east on US Highway 6; turn left and drive for 3.9 miles on dirt road.

EAGLE COUNTY

Walk 2,000 ft to the west where limestone is exposed."
 MAP LEADVILLE
 HOST Paleozoic limestone, black, fossiliferous, petroliferous.
 STRC Major thrusts in area.
 MNZ A green mineral was observed. A 2 ft channel sample had a value of 0.01% U308.
 RMKS Occurrence appears to be in headwaters of Spreddle Creek under Bald Mountain.
 DOI 1955
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Eagle County, Colorado.

Lucky Strike 1

LOCATION: SE1/4NW1/4 sec. 18, T. 4 S., R. 81 W.
 LCST UNSURVEYED
 LCRM Directions are as follows: "2.4 miles north of Walcott on Colo. 131. Take right fork for 5.8 miles, take left fork for 2.3 miles. Walk east to rim 400 yds to cut."
 MAP LEADVILLE
 BKG .015 mr/hr
 RNG .01 to .5 mr/hr
 HOST Triassic Chinle Formation, conglomerate sandstone in the Shinarump Member.
 MNZ Carnotite.
 RMKS Mineralization has been found on talus slope. None was found in place.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Eagle County, Colorado. Kuehnle, F. W., 1956.

Rock Hat Claim

LOCATION: sec. 7, T. 2 S., R. 82 W.
 LCRM Directions to occurrence as follows: "At RR crossing on State Highway 11, 3.5 miles northeast of State Bridge; park car and follow RR 3/4 mile northeast to abandoned prospectors cabin on northwest side of track. Follow the arroyo past the cabin stay in main channel. Continue for 1/2 mile and you will come to workings."
 MAP LEADVILLE
 BKG .03 mr/hr
 RNG .03 to .15 mr/hr
 HOST Sawatch Formation, micaceous shale at base of formation composed of vermiculite, mica, silt, fine sand, possibly Cambrian in age.
 STRC Angular unconformity.
 MNZ Some carbonaceous material.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Eagle County, Colorado.

Tipton Ranch

LOCATION: sec. 6, T. 2 S., R. 83 W.
 MAP LEADVILLE
 HOST Pennsylvanian shale that is carbonaceous and about 1 ft thick. It is overlain and underlain by red arkosic sandstones.
 STRC The minerals were found along fractures and bedding planes in association with asphaltic material. The bluish gray shale is possibly

altered to red in area of mineralization.
 MNZ Liebigite, limonite, manganese stains, asphaltite. Grab samples had values of 0.05 to 0.19% U308.
 DOI 1955
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Eagle County, Colorado.

Unnamed 1

LOCATION: T. 5 S., R. 79 W.
 LCST UNCERTAIN
 LCRM Directions to occurrence are as follows: "Roadcut U.S. Highway 6; 15.2 miles east of the highway bridge at Dowds."
 MAP LEADVILLE
 HOST Pennsylvanian Maroon Formation, 4 ft black shale zone in upper part of formation. Shale is gray micaceous and sandy with thin black carbonaceous layers and is interlayered with red arkosic sandstone.
 MNZ 2 ft channel 0.09% U, 1.2 ft channel 0.21% U.
 RMKS The upper part of the Maroon Formation was examined extensively up to 10 miles from this locality. No other radioactivity was found and it is thought the anomalous shale lies lenticular. Possible duplicate of the Dorado Claims.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Eagle County, Colorado.

Unnamed 2

LOCATION: sec. 1, T. 1 S., R. 84 W.
 LCRM Location was given as near highway. The original location would be in Grand County. It was sec. 36, T. 2 S., R. 84 W.
 MAP LEADVILLE
 RNG 5 x bg
 HOST Micaceous black shale lying below Sawatch Formation.
 MNZ 0.003% U308 on analysis; no uranium minerals seen.
 REF Charles Line, 1977, Personal Communication.

Unnamed 3

LOCATION: S1/2N1/2 sec. 12, T. 2 S., R. 84 W.
 LCST UNCERTAIN
 LCRM Also sec. 13. Off jeep trail to east. Possibly same as PRR-DEB-(C-1523) #1761 Unnamed 34
 MAP LEADVILLE
 BKG 3 x bg
 HOST Black limestone.
 MNZ No uranium minerals were identified.
 REF Charles Line, 1977, Personal Communication.

Unnamed 4

LOCATION: sec. 12, T. 2 S., R. 84 W.
 LCRM One mile west of McCoy on Colo. 131, thence one mile south into general area of outcrop of Sawatch Formation.
 MAP LEADVILLE
 BKG .03 mr/hr
 RNG .03 to .15 mr/hr

EAGLE COUNTY

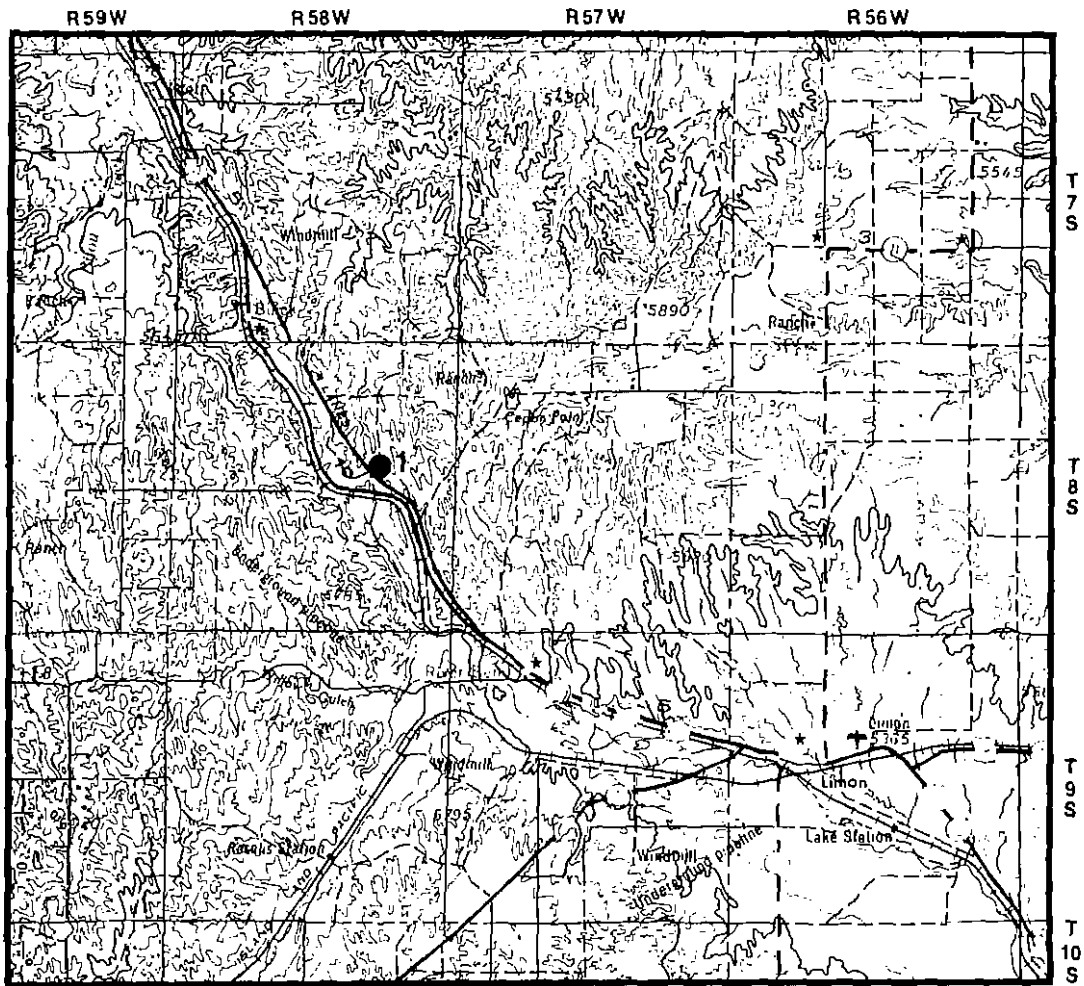
HOST A 12 ft micaceous shale at the bottom of
the Cambrian Sawatch Formation composed
of vermiculite, mica, silt, fine sand.
STRC Angular unconformity on Precambrian rocks.
MNZ No uranium minerals identified.
DOI 1954
REF U.S. A.E.C., 1966, Preliminary Reconnaissance
Reports, Eagle County, Colorado.

ELBERT COUNTY

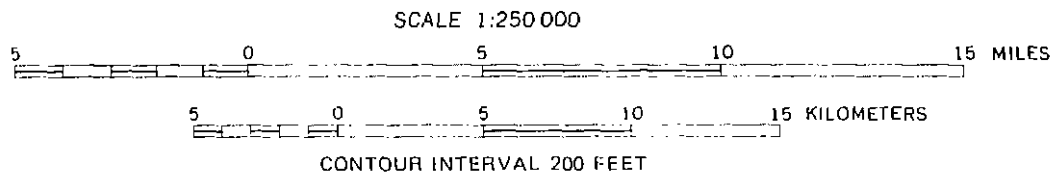
No production has been recorded from Elbert County, which lies in north-central Colorado on the Great Plains. Only one occurrence is reported.

The county is within the structural Denver Basin. The Tertiary Dawson Arkose, Denver Formation, and the Cretaceous Laramie Formations and Fox Hills Sandstone that crop out within the county dip gently toward the center of the basin. Exploration has been sporadic in the county. Although the Dawson Arkose has been a favorable exploration target, apparently no significant anomalies have been found.

The one radioactive occurrence in the county is of thorium and not uranium and consists of an ancient placer deposit of heavy-mineral black sand. The probability that this deposit will become economic is small. Potential uranium reserves could be found in sandstone-type deposits in the Tertiary Dawson Arkose and Cretaceous Laramie-Foxhills Formations host rocks. Much water sampling has identified anomalies in Douglas County and in El Paso.



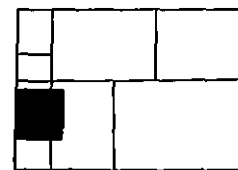
Base from U.S.G.S.



EXPLANATION

- SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE
LAKE SEDIMENT HOST ROCKS FOR OCCURRENCE
- 7 OCCURRENCE NUMBER FROM TEXT

LOCATION OF INSET



LIMON
1° x 2° SHEET

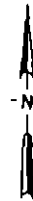


Figure 13. Radioactive mineral occurrences in Elbert County, Colorado.

ELBERT COUNTY

Limon Locality

LOCATION: sec. 14, T. 8 S., R. 58 W.

LCRM Also sec. 23 and 32.

DVEL The anomalies were located in 1956 as part of a U.S. A.E.C. airborne radiometric program. Some shallow drilling was carried out on one anomaly.

PROD No production.

HOST Brown to black friable sandstone of the lower part of the Upper Cretaceous Laramie Formation. This bed was deposited as a heavy minerals beach placer in a regressive sandstone series similar to placer deposits of the same age in New Mexico and southwest Colorado.

MNZ Minerals include garnet, zircon, and magnetite. These minerals are concentrated in thin bands separated by sandstone with lesser amounts of minerals. Drill cuttings had the following values: %U308 .014-.020; %U308 .005; %ThO2 .05-.07.

DOI 1959

REF R. C. Malan, 1978, Personal Communication.

EL PASO COUNTY

Production from the county has been small with only 108 tons of recorded production containing 277 lb of U_3O_8 . There is potential for more reserves to be found in the county.

El Paso County lies in the east-central part of the state. The geology is divided into Precambrian rocks in the Front Range and Rampart Range on the west and sedimentary rocks in the Denver Basin on the east. Through the center of the county lie steeply upturned beds along the western edge of the Denver Basin abutting the eastern margin of the mountains. A complete range of Paleozoic through Cenozoic rocks are exposed in the county.

Five hundred tons of ore yielding both uranium and thorium are reported to have come from the St. Peters Dome 1, a mine in the Precambrian Mt. Rosa Granite. However, no production for this mine was recorded in the AEC Production Records. The second (?) largest producer in the county was the Lucky Ben Lease. The deposit, found in the Cretaceous Dakota Sandstone, yielded 108 tons of uranium ore containing 277 lb of U_3O_8 .

Important radioactive occurrences within the county fall into two broad categories: uranium, thorium, and rare earths in the Precambrian rocks, and uranium in the sedimentary rocks along the front of the Rampart Range. The Precambrian rocks around St. Peters Dome and Mount Rosa area contain uranium, thorium, and rare earths in veins, stringers, and pegmatites, with some possible segregation of the various elements. Uranium occurrences have been reported in the Pennsylvanian Fountain Formation, Jurassic Morrison Formation, Lower Cretaceous Dakota Sandstone, Upper Cretaceous Fox Hills Sandstone, and the Tertiary Dawson Formation

and Ogallala Formation. The Dakota Sandstone on the east flank of the Turkey Creek anticline, southwestern El Paso County, contains coffinite and uraninite ore. The ore, approximately 80 ft deep, is concentrated in irregular but concordant bodies up to a few hundred tons in size. These are deposits similar to those found in the George Avery Mine in El Paso County, and are examples of the types of ore bodies being sought in the Dakota Sandstone.

Much exploration has taken place and is continuing in El Paso County. Uranium and radioactive occurrences have been found in many of the formations, but those with the most potential are the upturned continental sedimentary rocks along the front of the Rampart Range. These rocks have the best potential because the largest known and highest grade ore bodies found so far in the United States (95%) have occurred in sedimentary formations. Of these, particular attention should be paid to the Dakota Sandstone in the southwestern part of the county, where occurrences are found.

Another rock type with some potential is the Mount Rosa Granite. As mentioned before, it contains uranium and thorium in shears and veins. The granite is an alkaline granite, a rock type just now receiving attention as a new type of uranium host. A report on the subject of alkaline rocks was published as this report went to press. Those who are interested should consult Murphy, M., and others, 1978, Uranium in Alkaline Rocks, U.S. Department of Energy, Grand Junction Office, GJBX-(78)78, 185 p.

17, A
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DVEL
BKG
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MNZ
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EL PASO COUNTY

17, Airborne Anomaly

LOCATION: sec. 28, T. 12 S., R. 62 W.
 LCRM From Calhan go west on U.S. 24 for 1.8 miles and turn left onto dirt road. Go for 1.0 mile and continue straight ahead at crossroad for 2.1 miles. Now turn right onto old dirt track road about 200 yds past house and go for 0.6 miles to the edge of the pit. The anomaly is in the pit.
 QUAD Holcolm Hills 7 1/2'
 MAP PUEBLO
 DYEL There is an old pit that was mined for clay.
 BKG .02 mr/hr
 RNG To .05 mr/hr
 HOST The deposit is in a sandstone of the Tertiary Ogallala Formation with interclated multi-colored clay members and conglomerate. The sandstone is coarse-grained, loosely cemented, and white in color. A black, carbonaceous clay accounts for the radioactive anomaly.
 MNZ Caliche, hardpan and iron staining.
 RMKS Several small prospect pits were dug to determine if the radioactivity increases with depth, but the results were negative.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, El Paso County, Colorado.

B. F. Reed Claim

LOCATION: NE1/4 sec. 8, T. 15 S., R. 67 W.
 LCRM North of St. Peter's Dome.
 QUAD Manitou Springs 7 1/2'
 MAP PUEBLO
 HOST The deposit occurs in pegmatite dikes of the Precambrian Pikes Peak Granite.
 STRC Narrow fissures within the pegmatite dikes appear to control the radioactivity.
 MNZ No radioactive minerals were visible, but radioactivity appears to be in a pegmatite dike. Quartz, fluorite and iron oxide stains and coatings are present.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, El Paso County, Colorado. Cross, Whitman, 1894.

Bluebird

LOCATION: sec. 9, T. 15 S., R. 67 W.
 QUAD Manitou Springs 7 1/2'
 MAP PUEBLO
 DYEL The prospect produced ore in the past.
 HOST The host is Precambrian Idaho Springs Formation.
 MNZ The uranium occurs in a pegmatite.
 DOI 1971, 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Burgess Claim

LOCATION: NE1/4 sec. 22, T. 12 S., R. 66 W.
 LCRM The occurrence is at the Diamond J. Ranch.
 QUAD Pikeview 7 1/2'
 MAP PUEBLO
 PROD A grade of 0.52% U3O8 has been reported.

HOST The host is the Eocene Dawson Arkose.
 MNZ The ore occurs as a uraniferous ilmenite.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. Lovering, T. G., and Beroni, E. P., 1956, U.S. Geol. Survey, TEI-427.

Dorothy O. Claim

LOCATION: sec. 8, T. 15 S., R. 67 W.
 LCRM Northeast of St. Peter's Dome.
 QUAD Manitou Springs 7 1/2'
 MAP PUEBLO
 DYEL There has been some underground mining carried out.
 BKG .04 mr/hr
 RNG To .5 mr/hr
 MNZ Some uranium mineralization was found.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Duffields Property (Duffields Deposit, Leyte Claim)

LOCATION: NE1/4 sec. 20, T. 15 S., R. 67 W.
 QUAD Mt. Big Chief 7 1/2'
 MAP PUEBLO
 DYEL Some underground mining has been carried out. Seven (?) tons of fluor spar and uranium ore were produced in 1945.
 PROD
 HOST The deposit is of a vein type in the Precambrian Pikes Peak Granite.
 STRC A north-trending series of shear joints and minor faults cut across the area.
 MNZ Fluorite and uranium minerals were both found.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. Geol. Survey, 1962, Map, MR-21. Colo. Sci. Soc., 1949, Proceedings, V. 15, no. 6, p. 278-279.

Folbre 2

LOCATION: sec. 15, T. 17 S., R. 67 W.
 QUAD Mt. Big Chief 7 1/2'
 MAP PUEBLO
 DYEL One trench, 7 ft x 3 ft, has been opened in the side of the hill. It strikes S70°E.
 HOST The radioactive zone is in a black shale about 12 in. thick and 5 ft wide at the top of the Jurassic Morrison Formation.
 MNZ Uranium mineralization was detected.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, El Paso County, Colorado.

Mike Doyle Carnotite Deposit (Lucky Ben Lease)

LOCATION: SW1/4 sec. 2, T. 16 S., R. 67 W.
 QUAD Cheyenne Mountain 7 1/2'
 MAP PUEBLO
 DYEL In 1955, 108 tons of ore were mined with an average grade of 0.13% U3O8 and containing 277 lbs of U3O8.
 HOST The host is the Cretaceous Dakota Sandstone.
 MNZ Carnotite was the principal mineral noted.
 RMKS Ore was shipped under name "Lucky Ben Lease".
 DOI 1975
 REF U.S. Geol. Survey, 1977, CRIB Files. U.S.

EL PASO COUNTY

Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. King, R. U., and others, 1955.

Mobil Oil Corporation Drill Hole 2

LOCATION: SE1/4 sec. 12, T. 15 S., R. 62 W.
 LCRM This is the main hole. There are offsets to the north, south, east, and west.
 QUAD Big Springs Ranch 7 1/2'
 MAP PUEBLO
 DYEL Exploration holes have been drilled.
 RNG To 2,050 cps
 HOST The Upper Cretaceous Fox Hills Sandstone is the host. Mineralization is near the top of the formation, and coaly beds are generally associated with it.
 ALT No alteration or oxidation is present.
 MNZ A section of the formation about 6 ft thick is mineralized, with count to 2,050 cps (0.01 to 0.02% eU308).
 RMKS This deposit appears to be an impounded playa or some similar feature, rather than a roll front deposit. It is thought that the mineralization is syngenetic.
 DOI 1977
 REF Ken Holmes, 1977, Personal Communication.

Mobil Oil Corporation Drill Hole 1

LOCATION: NW1/4 sec. 22, T. 15 S., R. 62 W.
 LCRM There are offsets to the main hole to the north, south, east, and west.
 QUAD Hanover NE 7 1/2'
 MAP PUEBLO
 DYEL Exploration holes have been drilled.
 RNG 600 to 900 cps
 HOST The Upper Cretaceous Fox Hills Sandstone is the host. Mineralization is near the top of the formation and is generally associated with coaly beds.
 ALT No alteration or oxidation is present.
 MNZ Three to six ft of the formation gave a count of 600 to 900 cps.
 RMKS This deposit appears to be an impounded playa or similar feature rather than a roll front. It appears that mineralization is syngenetic.
 DOI 1977
 REF Ken Holmes, 1977, Personal Communication.

Morris Prospect (Antonita Valjean)

LOCATION: S1/2 sec. 17, T. 15 S., R. 67 W.
 LCRM South of St. Peter's Dome.
 QUAD Mount Big Chief 7 1/2'
 MAP PUEBLO
 HOST These are primarily thorium deposits in pegmatites of the Precambrian Pikes Peak Granite.
 MNZ Thorite, hematite, feldspar, mica, riebeckite, and monazite are present. Assays of grab samples range from 0.001 to 0.025% U308.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, El Paso County, Colorado. Lovering, T. S. and Goddard, E. N., 1950.

Rock View Claim

LOCATION: SW1/4 sec. 10, T. 16 S., R. 67 W.
 QUAD Mount Big Chief 7 1/2'
 MAP PUEBLO
 BKG .005 mr/hr
 RNG To .012 mr/hr
 HOST The deposit lies in a shale unit near the base of a red arkosic conglomerate of the Pennsylvanian Fountain Formation. The Fountain directly overlies Cambrian and Precambrian rocks in this locality.
 MNZ No mineralization was visible.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, El Paso County, Colorado.

St. Peter's Dome 2

LOCATION: sec. 17, T. 15 S., R. 67 W.
 LCST UNSURVEYED
 QUAD Mount Big Chief 7 1/2'
 MAP PUEBLO
 HOST The host is Precambrian granite cut by pegmatites.
 DOI 1977
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Geol. Survey, 1960, Map I-309.

St. Peter's Dome 1

LOCATION: S1/2 sec. 7, T. 15 S., R. 67 W.
 QUAD Manitou Springs 7 1/2'
 MAP PUEBLO
 PROD Five hundred tons were mined for thorium and uranium.
 HOST The host is the Precambrian Mt. Rosa granite.
 MNZ Thorium and uranium mineralization were found.
 DOI 1977
 REF U.S. Geol. Survey, 1977, CRIB File. Gross, 1962, Univ. of Michigan, Ph.D. Thesis.

Unnamed 1

LOCATION: sec. 9, T. 15 S., R. 67 W.
 LCRM Northeast of St. Peter's Dome.
 QUAD Manitou Springs 7 1/2'
 MAP PUEBLO
 DYEL Several small, shallow pits have been dug in the area.
 RNG 0.09 to 0.55% eU.
 HOST The deposits lie in pegmatite dikes of the Precambrian Pikes Peak Granite.
 MNZ Thorite with quartz, perthite, and muscovite are present. The uranium mineral is not known, but assays range from 0.006 to 0.04% U.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, El Paso County, Colorado.

Unnamed 2

LOCATION: sec. 2, T. 15 S., R. 67 W.
 LCST UNCERTAIN
 MAP PUEBLO
 RMKS Radioactivity reported where Morrison Formation overlies the Precambrian.
 REF Lou Reimer, 1977, Personal Communication.

FREMONT COUNTY

Production of either uranium or thorium in the county has been largely limited to uranium from the Tallahassee Creek district. Of 93,949 tons of uranium ore mined and shipped from the county as of 1971, approximately 85,000 tons came from the Tallahassee Creek district. The average grade for the county was 0.25 percent U_3O_8 and total production yielded 464,203 lb of concentrate.

Fremont County encompasses a broad variety of geologic terranes. In the eastern part of the county an extension of the Colorado plains section forms the Canon City Embayment. Here sedimentary rocks ranging from Cambrian to Upper Cretaceous are exposed. West and north of the embayment, Precambrian crystalline rocks of the Front Range and the Wet Mountains cross the county. The northwestern edge of the county borders the Tertiary sedimentary and volcanic sequences in southern South Park. Small, upland, Tertiary Intermontane basins found along the edges of the mountains are associated with the extensive Tertiary intrusives and extrusives of the Thirtynine Mile volcanic field. Because of the geologic variety within the county, mineral resources are also varied, ranging from sand and gravel deposits to gemstones, petroleum, base and precious metals, coal, thorium, and uranium.

Besides the Tallahassee Creek area, small amounts of ore were mined from the High Park area, from the Dakota Sandstone in the Canon City Embayment, and from the shear zones in the Precambrian Granites near Cotopaxi.

The Tallahassee Creek mining district is located on the southeastern edge of the Thirtynine Mile volcanic field. The uranium deposits lie in fluvial arkosic and volcanic detritus of late Eocene age occupying paleodrainages in the pre-volcanic erosional surface. The deposits are generally stratiform and less than 200 ft deep. The primary ore is dominantly uraninite in unoxidized sediments, but some secondary, oxidized uranium minerals are also found. These basins and the sediments are nearly identical to those in Wyoming, where extremely large uranium deposits are mined.

The first deposits of this type in Fremont County were discovered in 1954 because of two strong radiometric anomalies. Many ore bodies lacked any surface expression, but further drilling and exploration revealed numerous ore deposits. The largest producing mines in the county are in this area and include the Colorado Lease 519, the Dickson-Snooper and Thorne 9 and 10, the First Chance and the Last Chance, the Mary L., Joan 2, Little Abner #1, the Picnic Tree, and Knob Hill. Extensive exploration and drilling have been carried on for the past several years with the result that recently, several larger ore bodies have been found with proven reserves of 30 million pounds of U_3O_8 . The major discovery is the Hanson Ore Body belonging to Cyprus Mines. The companies involved in this exploration

effort believe that these deposits are the largest uranium deposits ever found in the Rocky Mountain province. This area should become the major uranium mining district of the state in future years.

Geologically similar to the Tallahassee Creek district is the High Park area. Only small prospects and developments are known within the area, but these are fairly numerous, and are currently being evaluated. The deposits lie in interbedded arkosic sandstone and conglomerate, shaly siltstone, and tuffaceous sediments. The deposits range from 4 to 13 ft in thickness and lie at depths of 4 to 80 ft. The average grade is generally less than 0.2 percent U_3O_8 .

Other areas of interest include the Canon City Embayment, the Wet Mountain thorium district, and the Precambrian Granites near Cotopaxi. The uranium deposits in the Canon City Embayment are found in the Dakota Sandstone. Although they are fairly numerous, none large enough to warrant development have yet been found. The thorium occurrences of the Wet Mountains occur primarily to the south in Custer County, but some minor anomalies can be found in Fremont County. The Cotopaxi area contains small uraninite occurrences with minor autunite in veins in the mineralized shear zones in Precambrian granites. Some drilling has been done, but no development has followed.

The Texas Creek area is geographically close and geologically similar to the Cotopaxi area. There, the mineralization primarily occurs disseminated in the shear zones of both the Precambrian granites and Precambrian biotite gneisses. Uraninite, the primary uranium mineral, is found closely associated with fluorite and minor chalcopyrite. Although most of the mineralization is located in the shear zones, some minor anomalies and scattered uraninite grains can also be found disseminated throughout the nearby unshattered granite. Minor development work has taken place in this area, but no large ore bodies have been reported. The Lightning No. 2 is one of the larger prospects, and it is interesting to note that the mineralized zone plunges beneath a cover of volcanics that lie to the south.

The units with the most potential for uranium reserves within the county lie in the Tertiary fluvial arkosic and volcanic detritus of the Intermontane basins abutting the Thirtynine Mile volcanic field. The most promising of these lie in and adjacent to South Park and the Tallahassee Creek-High Park areas. These areas have produced in the past and have been shown to contain large reserves of uranium. The shear zones in the Precambrian granites and biotite gneisses near Cotopaxi, and the Dakota Sandstone in the Canon City area, however, should not be overlooked as potential areas, both because large deposits are known to occur in geologically similar strata in other parts of the state, and because proven uranium occurrences have already been found within these areas in this county.

FREMONT COUNTY

A. E. Jones Claim (Taylor Soda Springs)

LOCATION: NW1/4 sec. 3, T. 17 S., R. 73 W.
 QUAD Black Mountain 15'
 MAP PUEBLO
 DYEL There is a shallow pit with a maximum depth of four ft; now filled with water. Some underground work was carried out.
 BKG .03 mr/hr
 RNG To 3.0 mr/hr
 HOST The deposit is in caliche, travertine, and iron deposited around mineral springs. One of the springs is still active, with gas continually bubbling up from it. The spring comes through the Tertiary Echo Park Alluvium.
 MNZ Chip and grab samples range from 33 to 65 times background. The radioactive material which may be thorium, appears to be more concentrated in red streaks near the springs. Water analyses show 960 ppb U, 460 pc/l radium, and 13,000 pc/l radon.
 DOI 1976
 REF U.S. Bur. of Mines, 1977, (Unpubl.). Young, P., and Mickie, D. G., 1976. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado. Chapin, C. E., 1965.

PROD The cut exposed a log replaced by carnotite, and 3.5 ft layer of sandstone with values of 0.10% U308, with pods up to 0.30% U308.
 HOST The host is a sandstone of the Jurassic Ralston Creek Formation.
 MNZ The mineralization is localized by carbonaceous trash in channel sands in fluvial sediments.
 RMKS The property as of April, 1977, was leased by Minerals Engineering Company from Trites Exploration of Denver.
 DOI 1977
 REF Atlantic Richfield Company, 1977, Personal Communication.

Barbara Claims (True Blue No. 1 Claim, Oliver No. 1 Claim)

LOCATION: NW1/4 sec. 5, T. 18 S., R. 72 W.
 LCRM This deposit may also be in the NE1/4 of sec. 6.
 QUAD Cover Mountain 15'
 MAP PUEBLO
 DYEL Pits have been dug on a small ridge by bulldozer.
 PROD There are no more than a few tons in place.
 BKG .04 mr/hr
 RNG .4 to 6.0 mr/hr
 HOST The host is a very tuffaceous conglomerate; probably Tallahassee Creek Conglomerate, of Oligocene age. The radioactivity is concentrated in the petrified logs present in the formation.
 ALT The deposit is oxidized except around a mineralized tree.
 MNZ The main mineralization is in an opalized tree approximately 20 ft long. The grade of the tree is probably 1% + U308. The tree is embedded in a light yellow-white, ilmonitic, very tuffaceous conglomerate. Surrounding the tree the sediments contain some autunite mineralization, which was very low grade; probably less than .05% U308.
 DOI 1977
 REF U.S. Bur. of Mines, 1977, (Unpubl.). Gulf Mineral Resources, 1977, Personal Communication. Young, P., and Mickie, D. R., 1976. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

A. Griffin Ranch

LOCATION: NE1/4SW1/4 sec. 23, T. 20 S., R. 71 W.
 LCST UNSURVEYED
 QUAD Royal Gorge 15'
 MAP PUEBLO
 DYEL There are six prospect pits. Some underground mining has been carried out.
 BKG 14.0 to 22.0 cps
 HOST The host is a Precambrian injection gneiss with intruded paralleling lamprophyre. The lamprophyre is secondarily silicified and contains some pyrite. The rocks are cut by barite veins.
 STRC There are two veins on the property. One strikes N80°W, and dips 75°S; the other strikes N67°W and dips vertically. They are long and narrow, and extend at least 600 ft along strike.
 MNZ Barite, galena, and a red, radioactive mineral are the primary ore minerals. In a gangue of quartz, siderite, and specularite. Samples assayed between 0.005 and 0.089% eU, with between 0.001 and 0.058% U by chemical assay.
 DOI 1951
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

Beaver Creek

LOCATION: sec. 17, T. 17 S., R. 68 W.
 QUAD Phantom Canyon 7 1/2'
 MAP PUEBLO
 MNZ Uranium mineralization is present.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File.

Big Bear (Big Hole, Cactus Claims)

LOCATION: sec. 27, T. 18 S., R. 73 W.
 LCST UNSURVEYED
 LCRM Occurrence extends from secs. 21 & 22 and extends into sec. 28. Directions are as follows: "From Echo Station of the D & RG W.R.R. turn north for one mile along road to claims."
 QUAD Cotopaxi 15'
 MAP PUEBLO

Ant Claims

LOCATION: sec. 30, T. 17 S., R. 70 W.
 LCRM Sec. 30 extends into sec. 31. The property is located on the Dillee Ranch.
 QUAD Cover Mountain 15'
 MAP PUEBLO
 DYEL There is a 600 ft rim cut.

FREMONT COUNTY

DVEL Discovery pits were dug, and drilling was carried out in 1954.
 BKG .015 to .05 mr/hr
 RNG .1 to .27 mr/hr
 HOST The radioactivity occurs in terrace and channel fillings in arkosic, carbonaceous, sandy siltstones and sandstones that are probably of early Tertiary age. There are late Miocene flows in the area, but no reworked ash material occurs in the radioactive beds, indicating that they are younger than the flows.
 MNZ Schoepite was found associated with bedded carbonaceous material. Samples taken had values ranging from .05 to .3 mr/hr.
 DOI 1955
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

Bill and Bud 2 and 4

LOCATION: sec. 34, T. 48 N., R. 11 E.
 MAP PUEBLO
 DVEL Small open cut.
 PROD Between 1955 and 1960, a total of 12 tons of ore were mined at a grade of 0.09% U308, and 0.07% V205, producing 21 lbs of U308, and 16 lbs of V205.
 HOST The host is a Precambrian pegmatite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Brandt Claims

LOCATION: sec. 31, T. 17 S., R. 68 W.
 LCRM U.S. A.E.C. Production Records also show sec. 32 and sec. 5 and 6, T. 18 S., R. 68 W.
 QUAD Phantom Canyon 7 1/2'
 MAP PUEBLO
 DVEL There are several exploration pits, and 16 ten ft drill holes, a small ore body was developed, no production.
 BKG .03 mr/hr
 RNG To .4 mr/hr
 HOST The deposit occurs in the Cretaceous Dakota Sandstone.
 ALT There is a cap of altered montmorillonite (?) over the Dakota Formation.
 MNZ Carnotite and/or tyuyamunite are visible along joint planes and in iron stained zones in poorly consolidated sandstone. Samples taken range from 0.002 to 0.29% eU308 and from 0.12 to 0.34% U308. The drill cuttings showed between 0.0004 and 0.004% eU.
 DOI 1950-1958?
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

Brown Lava Lode (Pink Lady)

LOCATION: sec. 5, T. 20 S., R. 72 W.
 QUAD Royal Gorge 15'
 MAP PUEBLO

DVEL There are two shallow shafts on the property, and a shallow prospect pit.
 BKG .4 to 2.0 mr/hr
 RNG 2.4 to 11.0 mr/hr
 HOST The rhyolitic host has been fractured and weathered to a brown earthy mass. Mineralization occurs in the fracture zones.
 STRC The fracture zones strike N80°W and dip 80°S. They are narrow (about 2 ft) and their length is unknown.
 ALT Limonitic alteration occurred in the rhyolite.
 MNZ No uranium or thorium minerals could be identified. Samples assayed .019 and .045% eU, and .007 and .027% U.
 DOI 1950
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado. U.S. Geol. Survey, 1975, Misc. Inv. Ser. Map 1-869.

Cap Rock Claims (Cap Rock 40)

LOCATION: NW1/4 sec. 29, T. 17 S., R. 72 W.
 QUAD Cover Mountain 15'
 MAP PUEBLO
 DVEL There are several prospects and pits in the area, and drilling was reported in the area.
 PROD In 1962, 30 tons of ore were mined at grades of 0.11% U308 and 0.02% V205, producing 68 lbs of U308 and 12 lbs of V205.
 BKG 200 cps
 RNG 200 to 5000 cps
 HOST The host is volcanic tuffs and conglomerate in the Oligocene Tallahassee Creek conglomerate.
 STRC Cracks in the flows below the conglomerate have a high count and some autunite occurring in them.
 MNZ There is an small amount of autunite.
 DOI 1977
 REF E. P. Beroni, 1978, Personal Communication. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Western Nuclear Submittal file.

Claim 2

LOCATION:
 LCST UNLOCATABLE
 MAP PUEBLO
 PROD In 1955, one ton of ore averaging 0.40% U308 and 0.10% V205 and containing 8 lbs of U308 and 2 lbs of V205 were shipped to the mill at Rifle.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Colexco No. 1-43 (Red Cliff 30)

LOCATION: sec. 18, T. 17 S., R. 70 W.
 LCRM South of Red Canyon Park. This deposit also extends to sec. 7-8 and 17-18.
 QUAD Cover Mountain 15'
 MAP PUEBLO
 DVEL Some prospecting and surface work have been carried out.

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PROD 1,407 tons were mined from the Red Cliff 30 during the period 1960-1967, at an average grade of 0.08% U308, producing 2,326 lbs of U308. Totals include 19 tons at 0.22% U308 mined in 1960.

BKG .05 mr/hr
 RNG .10 to .60 mr/hr
 HOST The radioactivity was found in a member of the Cretaceous Dakota Sandstone over an area 2,000 ft x 3,000 ft and 1 to 6 ft thick. Where the radioactive member outcrops, counts of 30 to 60 times background were observed.

STRC Silicified vertical fractures, later silicified localized or provided access for the mineralizing solutions.

MNZ The radioactivity is associated with silica, iron, and manganese. Uranophane and carnotite were identified. Assays show from .010 to .094% eU and 0.080 to 0.92% U. About 0.1% V2O5, and from 0.010 to 0.521% Mn was reported. The mineralization is often found in nodules and concretions in the sandstone.

RMKS Range of radioactivity averages .10 to .15 mr/hr with a maximum of .20 to .60 mr/hr.

DOI 1954
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1971, Preliminary Reconnaissance Reports, Fremont County, Colorado.

Conac Minerals, Inc. Mining Claims (Wagner-Grape Creek Lode)

LOCATION: SW1/4 sec. 7, T. 20 S., R. 71 W.

LCST UNSURVEYED
 QUAD Royal Gorge 15'
 MAP PUEBLO
 DVEL Several old test pits, shallow mine shafts, and adits that were prospected for base metals, gold and silver.

RNG .30 to 1.60 mr/hr
 HOST The host is Precambrian granite gneiss, and hornblende gneiss with granite pegmatites.

STRC Five moderate shear zones, two to five ft wide cut the the granite, with surface expressions traceable for 1/4 to 1/2 mile.

MNZ The oxide zone contains heavy iron oxide with abundant yellow ochre, hematite, limonite, and thorite. Also present in the vein zone are calcite, barite, siderite, galena, quartz, thorite, and copper minerals. The radioactivity is primarily due to thorium.

DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado, Singewald, Q. D., Christman, R. A., and Brock, M. R., 1953, Christman, R. A., and others, 1953, TEM-218. Christman, R. A., and others, 1953, U.S.G.S. Circular 290.

Copper Gulch

LOCATION: sec. 25, T. 18 S., R. 72 W.

LCRM Also in sec. 27.
 QUAD Royal Gorge 15'
 MAP PUEBLO

PROD The average grade of the deposit is 0.28% U308.

STRC The deposit occurs along a fault zone that is approximately 20 ft wide and a mile long.
 MNZ Ore minerals include autunite, meta-autunite, and tobernite.

DOI 1977
 REF Atlantic Richfield Company, 1977, Personal Communication.

D-C Claims (Owl Claims, Samargar No. 7 Claim of Karl Pinnet on Dilley Ranch.)

LOCATION: sec. 33, T. 17 S., R. 70 W.

LCRM These claims also extend to sec. 34, T. 17 S., R. 70 W., and sec. 3, 4, T. 18 S., R. 70 W.

QUAD Cooper Mountain 7 1/2'
 MAP PUEBLO

DVEL Bennett Nuclear drilled seven holes. In 1952, three core holes were drilled, showing grades of 0.023% at 38.0 ft.

PROD Average grade ranged from 0.003 to 0.007% U308.

BKG 80 to 100 cps
 RNG 200 to 7000 cps

HOST The host is the Cretaceous Dakota Sandstone. Mineralization was found in slump blocks downhill from the outcrop, and traced to the outcrop itself.

STRC The mineralization is localized along the numerous fractures in the sandstone.

ALT The fractures are surrounded by heavy iron staining with which the radioactivity is found.

MNZ The minerals are primarily oxidized. Samples submitted by the owner in the 1950's assayed 0.052% eU308 and 0.043% cU308.

RMKS As of April 1977, the property was being evaluated by Bennett Nuclear, Denver, Colorado. Part of it, at least, is owned by Trites Drilling and Exploration, Denver, Colorado.

DOI 1977
 REF Atlantic Richfield Company, 1977, Personal Communication. Harry Granger, 1977, Personal Communication. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

Deer Ridge Claim

LOCATION: sec. 33, T. 20 S., R. 71 W.

LCST UNSURVEYED
 QUAD Royal Gorge 15'
 MAP PUEBLO

DVEL Several prospect pits have been opened.
 BKG .04 mr/hr
 RNG .52 to 1.8 mr/hr

HOST The country rock is Precambrian granite and gneissic granite.

ALT The rock is weathered with limonitic alteration and kaolinization present and visible.

MNZ Limonite and kaolinite are the only identifiable minerals but the highest radioactive count is associated with them.

RMKS Also in the same area are the Billy Joe, Blue Ridge, and Red Bird Claims, which are only slightly radioactive.

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DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1975, Misc. Inv. Ser. Map 1-859. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

MAP PUEBLO
 HOST The host is a late Tertiary sediment, possibly of the Tallahassee Creek Conglomerate.
 MNZ Uraninite and coffinite were identified.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Dickson-Snooper Mine (Ponderosa, Rainbow-Moose Ore Bodies)

LOCATION: NW1/4 sec. 26, T. 17 S., R. 73 W.
 LCRM Ben Dickson fee land and claims.
 QUAD Black Mountain 15'
 MAP PUEBLO
 DVEL Three open pits: Snooper, Dickson, Rainbow-Moose. Average depth to ore is 45 ft.
 PROD During the period 1956-1961, a total of 9,664 tons of ore averaging 0.22% U3O8 and containing 43,149 lbs U3O8 was mined from the Snooper and Dickson pits. Also, 2,247 lbs of V2O5 were recovered. In 1961, 1,071 tons averaging 0.20% U3O8 and containing 4,211 lbs U3O8 were mined from the Rainbow-Moose pit.
 HOST Arkosic carbonaceous conglomerate and tuffs in the Oligocene Tallahassee Creek Conglomerate.
 MNZ Autunite has been identified.
 DOI 1978
 REF E. P. Beroni, 1978, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). Young, P. and Mickle, D. G., 1976. U.S. A.E.C., 1971, Production Records, Colorado. McPherson, B. A., 1959.

Dillee Lease (Dillee Ranch)

LOCATION: sec. 28, T. 17 S., R. 70 W.
 QUAD Cooper Mountain 7 1/2'
 MAP PUEBLO
 DVEL A 180 ft bench cut was made, and a 14 ft adit driven S85°E.
 PROD U.S. A.E.C. records show 19 tons mined at a grade of 0.10% U3O8, producing 232 lbs of U3O8 during 1959 and 1960.
 RNG .4 to 1.5 mr/hr
 HOST The mineralized area is near the base of the Jurassic Morrison Formation. The mineralized zone is a gypsiferous, carbonaceous, black shale bed approximately two ft thick and limonite or jarosite stained. The bed strikes N85°W, and dips 12°S. The coal and carbonaceous material appears to have localized the radioactivity.
 MNZ Channel and grab samples examined show .11 to .50 mr/hr radioactivity. Uraninite and coffinite were identified.
 DOI 1975
 REF Harry Granger, 1977, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

East Big Wash (Sputnik No. 1)

LOCATION: sec. 27, T. 17 S., R. 73 W.
 QUAD Black Mountain 15'

Felch Creek 1

LOCATION: sec. 26, T. 17 S., R. 70 W.
 QUAD Cooper Mountain 7 1/2'
 MAP PUEBLO
 BKG .05 mr/hr
 RNG To .17 mr/hr
 HOST The host is the Cretaceous Dakota Sandstone.
 MNZ Boulders of Dakota Sandstone have a manganese coating which is associated with the anomalous radioactivity.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

First Chance

LOCATION: NW1/4 sec. 31, T. 17 S., R. 72 W.
 QUAD Black Mountain 15'
 MAP PUEBLO
 DVEL Small open pit. Average depth to ore is 45 ft.
 PROD During 1959 and 1960, a total of 606 tons of ore were mined having an average grade of 0.19% U3O8 and containing 2,303 lbs of U3O8.
 HOST Conglomerates and arkosic sandstone in the Oligocene Tallahassee Creek Conglomerate.
 MNZ Uraninite and autunite have both been identified here.
 DOI 1978
 REF E. P. Beroni, 1978, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. Young, P. and Mickle, D. G., 1976. U.S. A.E.C., 1971, Production Records, Colorado.

Good Hope Dreamer (Dreamer Mine, Dreamer, Delano No. 5-12, Minnesota No. 1)

LOCATION: S1/2 sec. 30, T. 18 S., R. 73 W.
 LCST UNCERTAIN
 LCRM The CRIB File lists this as being in sec. 2, T. 47 N.; R. 12 E., and in sec. 34, 35, T. 48 N., R. 12 E.
 QUAD Cotopaxi 15'
 MAP PUEBLO
 DVEL One small adit has been dug.
 PROD One ton of ore at a grade of 0.20% U3O8 was shipped to the mill at Canon City in 1959.
 BKG .01 mr/hr
 RNG .4 to 1.0 mr/hr
 HOST The host rocks are Precambrian mica schists & hornblende schists, with a siliceous reef cutting them at a steep angle. The schist dips 30°E at the ore occurrence.
 MNZ The radioactive mineral is black, probably uraninite or pitchblende, and is associated with pyrite, limonite, and hematite. Accessory minerals include mica, magnetite, fluorite, and secondary copper minerals. Assays show 0.032 and 0.053% U3O8.

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RMKS Other areas nearby in the wash are also radioactive, and drilling has shown mineralization at a depth of 6 to 8 ft.

DOI 1955.
REF U.S. Geol. Survey, 1977, CRIB File, U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

Gunnison School Section Mine (Colorado Lease 519, Section 36 Mine)

LOCATION: NE1/4 sec. 36, T. 17 S., R. 73 W.
QUAD Black Mountain 15'
MAP PUEBLO
DVEL Surface and underground mining were carried out on this lease. Average depth to ore is 75 ft.
PROD Between 1957 and 1967, the cumulative total was 14,308 tons mined at a grade of 0.24% U308, producing 68,116 lbs of U308.
HOST The host is a volcanic, arkosic, conglomerate within the Oligocene Tallahassee Creek Conglomerate.
MNZ Mineralization is of the uraninite/coffinite type.
RMKS This was a state lease.
DOI 1976
REF U.S. Geol. Survey, 1977, CRIB File, U.S. Bur. of Mines, 1977, (Unpubl.) Young, P., and Mickle, D. G., 1976. U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1959, (RME-141).

Hanson Ore Body

LOCATION: E1/2 sec. 21, T. 17 S., R. 73 W.
DVEL As of 1978, this ore body had been drilled out with reserves at 30,000,000 lbs of U308. Area is an old uranium mining district (Tallahassee Creek). Production to date is from the same and similar horizons. See other occurrences in same area for more geologic information. Production is planned to begin in 1983.
HOST Eocene Echo Park Conglomerate.
MNZ Uraninite.
RMKS This mine will be an important producer in the state in the future. The property is being developed by Rampart Exploration Corp. It is owned by Cypress Mines Corp. Westinghouse Corp. has recently bought 49% interest in the property for approximately \$68.6 million.
DOI 1978
REF Cyprus Mines, 1978, Personal Communication. Nucleonic's Week, April 20, 1978.

Hilltop Prospect

LOCATION: SE1/4 sec. 29, T. 17 S., R. 72 W.
MAP DENVER
DVEL There are two prospect pits.
HOST Conglomerate sand in the Oligocene Tallahassee Creek Conglomerate.
MNZ Uranium has been identified.
DOI 1978
REF E. P. Beroni, 1978, Personal Communication.

Homestake 2 & 6 Claims

LOCATION: sec. 3, T. 20 S., R. 73 W.
LCRM Sec. 3 extends into sec. 4.
QUAD Cotopaxi 15'
MAP PUEBLO
DVEL There is a shaft at Homestake No. 2, and prospect pits at Homestake No. 6.
BKG .02 mr/hr
RNG .2 to .8 mr/hr
HOST The host is a Precambrian microcline granite cut by Tertiary shear zones.
STRC A shear zone localized the ore. The shears extend considerable distances but are poorly exposed and are irregularly radioactive.
MNZ The radioactivity appears to be associated with ilmonite, but siderite, barite, quartz, fluorite, galena and copper carbonates are also present. Grab samples show between 0.016 and 0.13% eU308, and 0.0004 and 0.0013% U308. The samples have calculated ranges of 0.086 to 0.72% eThO2. Spectrographic analyses showed the presence of Th, Be, Zr, P, La, Ce, Nd, Sm, Y, Yb, Ay, and Er.
DOI 1953
REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

Hoyt Adkins Ranch Anomaly 3

LOCATION: sec. 13, T. 18 S., R. 69 W.
LCRM Extends into sec. 14.
QUAD Florence 7 1/2'
MAP PUEBLO
BKG 20 cps
RNG To 1000 cps
HOST The radioactive material is found in a limestone which contains siliceous inclusions in the form of stringers and nodules.
MNZ No radioactive mineral is visible, but the radioactivity seems to be associated with travertine and calcite.
DOI 1953
REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

James-Taylor Lease (Spring Valley)

LOCATION: sec. 2, T. 17 S., R. 73 W.
QUAD Black Mountain 15'
MAP PUEBLO
PROD According to U.S. A.E.C. Records in 1956, six tons averaging 0.10% U308, 0.12% V205, and containing 12 lbs U308 and 14 lbs V205 were mined.
BKG .07 cps
RNG .4 to .7 cps
HOST The host is a series of lenses of black, carbonaceous, shaly sandstone in a ilmonite stained, medium- to coarse-grained arkosic sandstone of early Tertiary age. The beds strike north-south, and dip 11° to the east. The largest carbonaceous lens observed was 14 ft long and 2 ft thick.
MNZ No uranium minerals were identified, but primary uranium minerals may be present in the carbonaceous lenses.
DOI 1971

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REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

Jesus Lode

LOCATION: sec. 28, T. 18 S., R. 72 W.
 LCST UNSURVEYED
 QUAD Royal Gorge 15'
 MAP PUEBLO
 DYEL Two bulldozer cuts are present on the property.
 HOST The host is Cretaceous Dakota Sandstone.
 STRC Joint planes appear to localize the mineralization.
 MNZ Torbernite occurs sparsely disseminated as crystal aggregates on the joint planes. Samples assayed ranged from 0.004 to 0.037% eU and from 0.008 to 0.034% chemical U.
 DOI 1950
 REF U.S. Geol. Survey, 1975, Misc. Inv. Ser. Map I-869. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

Joan 2 Mine (Seattle Chief Mine)

LOCATION: SE1/4NE1/4 sec. 14, T. 17 S., R. 73 W.
 LCRM Property adjoins the Smaller Lease and Little Abner Mine.
 QUAD Black Mountain 15'
 MAP PUEBLO
 DYEL Open pit mine with underground workings off the walls of the pit. Average depth to ore is 125 ft.
 PROD During the period 1958-1963, a total of 10,286 tons of ore averaging 0.23% U308 and containing 47,801 lbs of U308 were mined.
 HOST Arkosic carbonaceous sandstone containing lenses of conglomerate and siltstone in the Eocene Echo Park Alluvium.
 STRC The ore body is bounded on the east by the northwest trending Mary L thrust fault which dips 30° to the northeast. The highest grade ore bodies occur along northeast trending normal faults especially where they intersect the Mary L fault.
 MNZ Uraninite replacing carbonized vegetated material has been identified. Limonite staining is abundant.
 DOI 1978
 REF E. P. Beroni, 1978, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). Young, P. and Mickle, D. G., 1976. U.S. A.E.C., 1971, Production Records, Colorado. McPherson, B. A., 1959. U.S. A.E.C., 1959. (RME-141).

Knob Hill Mine (Dipper Mine, Knob Hill OS, Knob Hill Ore Body)

LOCATION: SW1/4S1/2 sec. 22, T. 17 S., R. 73 W.
 LCRM Lease on Ben Dickson fee land.
 QUAD Black Mountain 15'
 MAP PUEBLO
 DYEL Surface and underground mining has been carried out. Open pits with underground workings off the walls of the pits. Average depth to ore is 45 ft.

PROD From the Knob Hill Ore Body as of 1-1-67, 2,901 tons had been mined at a grade of 0.20% U308 and 0.01% V205, producing 11,681 lbs of U308 and 801 lbs. of V205. Between 1967 and 1971, Knob Hill produced 434 lbs of U308 from 146 tons of ore at a grade of 0.15% U308.
 HOST Eocene Tallhassee Creek Conglomerate composed of andesite breccia, volcanic conglomerates and carbonaceous tuff beds.
 STRC The mineralization occurs in lenticular shape masses.
 MNZ Uraninite and autunite.
 DOI 1978
 REF E. P. Beroni, 1978, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado.

Last Chance

LOCATION: NE1/4NE1/4 sec. 31, T. 17 S., R. 72 W.
 LCRM Mined area extends into SE1/4SE1/4 sec. 30, T. 17 S., R. 72 W.
 QUAD Black Mountain 15'
 MAP PUEBLO
 DYEL Open pit with underground workings extending off walls of pit. Average depth to ore is 90 ft.
 PROD During the period 1958-1966, a total of 18,575 tons of ore averaging 0.31% U308 and containing 114,765 lbs of U308 were mined.
 HOST Carbonaceous tuff and volcanic conglomerate of the Oligocene Tallhassee Creek Conglomerate.
 MNZ Autunite has been identified. Uraninite is probably present in the deeper parts of the ore body.
 DOI 1978
 REF E. P. Beroni, 1978, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado.

Lightning 2 (DAC Uranium, Lightning No. 1-8, Honest John No. 1-15)

LOCATION: sec. 11, T. 47 N., R. 11 E.
 LCST UNSURVEYED
 LCRM Directions given as follow: "From Cotopaxi go 3.2 mi. west on U.S. 50, turn left, go 0.2 mi., turn right, go 0.9 miles, turn left through gate and proceed through farmyard, go 0.2 mi., turn right, go 0.2 mi., turn right, go 0.1 mi., turn left, go 0.3 mi. to the claim." These claims also lie in sec. 14.
 QUAD Cotopaxi 15'
 MAP PUEBLO
 DYEL The operators drilled 49 non-core holes to totalling 3,180 ft, one 120 ft core hole, and bulldozed about 1,000 cubic yds of material. An adit had been driven by June, 1956.
 PROD In 1956, 102 tons of 0.09% U308 ore were mined, producing 193 lbs of U308.
 BKG .03 mr/hr
 RNG .6 to 3.0 mr/hr
 HOST The host is Precambrian Pikes Peak Granite. It has been cut by a shear zone, which localized vein filling.

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STRC The altered shear zone trends northwest and may be related to two major faults in the area: one on the east flank of the Sangre de Cristos, trending NW-SE and terminating in the vicinity of the deposit; the other north of Cotopaxi; trending north-south and also terminating near the deposit. The fracturing and small cross faults in this shear zone appear to have localized the uranium ore.

ALT The rock has been altered along the shear zone. Kaolinization of the feldspars in the porphyritic granite has occurred.

MNZ The uranium mineral identified megascopically was autunite, which occurs as disseminations and fracture coatings. Individual samples range from .08 to .6 mr/hr when tested for radioactivity, or from 0.100 to 0.177% U308.

DOI 1955

REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

Little Abner Mine

LOCATION: SE1/4NE1/4 sec. 14, T. 17 S., R. 73 W.

LCRM Property adjoins Smaller Lease and Joan No. 2 Mine.

QUAD Black Mountain 15'

MAP PUEBLO

DVEL Open pits with underground workings off pit walls. Average depth to ore is 55 ft.

PROD During the period 1962-1963, a total of 1,647 tons averaging 0.36% U308 and containing 11,651 lbs U308 were mined. Mine was also active in 1968-1971 to produce uranium for outside sales by the Cotter Corporation.

HOST Carbonaceous arkosic sandstone and conglomerate in the Eocene Echo Park Alluvium.

MNZ Autunite has been identified in the shallow parts of the ore body and uraninite in the deeper portions.

DOI 1978

REF E. P. Beroni, 1978, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mary L. (Mary L. 1-6 Claims)

LOCATION: SW1/4NW1/4 sec. 13, T. 17 S., R. 73 W.

QUAD Black Mountain 15'

MAP PUEBLO

DVEL Open pit mine. Ore extends from the surface to a depth of 50 ft.

PROD During the period 1955-1962, a total of 2,402 tons of ore averaging 0.24% U308 and containing 11,610 lbs of U308 were mined.

HOST Arkosic carbonaceous sandstone and conglomerate in the Eocene Echo Park Alluvium.

STRC The Mary L. fault forms a structural trap thrusting the Precambrian granite over the Echo Park. Fault strikes N40-45°W and dips to the northeast. Numerous small faults and fractures have increased the permeability of the sediments.

MNZ Uraninite has been identified.

DOI 1978

REF E. P. Beroni, 1978, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). Young, P. and Mickle, D. G., 1976. U.S. A.E.C., 1971, Production Records, Colorado. McPherson, B. A., 1959.

Misery Mines (Red Hill?, Tanner Boy Group?, Joe & Bob Claims, Satan Group, Misery Mine 7)

LOCATION: sec. 22, T. 18 S., R. 73 W.

LCRM These claims extend into parts of sec. 9-11, 13-16, 24-25, according to various references.

QUAD Cotopaxi 15' and/or Royal Gorge 15'

MAP PUEBLO

DVEL Surface mining has been carried out.

PROD In 1956, three tons of ore were mined from the Misery Mine 7, at an average grade of 0.17% U308 and 0.08% V205, producing 10 lbs of U308 and 5 lbs of V205.

HOST The host is a sandstone and mudstone probably in the Oligocene Tallahassee Creek Conglomerate. The mineralization occurs as disseminations within the beds, primarily in the carbonaceous areas.

MNZ Autunite was identified.

DOI 1973

REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

NavaJo (Big Emma)

LOCATION: sec. 17, T. 19 S., R. 73 W.

MAP PUEBLO

HOST The host is a Precambrian biotite schist and gneissic granite cut by pegmatites.

MNZ Magnetite and uranium minerals have been found as accessories in a pegmatite. The magnetite itself shows anomalous radioactivity.

DOI 1973

REF U.S. Geol. Survey, 1977, CRIB File.

Perry DeLellis Claim

LOCATION: sec. 15, T. 47 N., R. 11 E.

LCST UNSURVEYED

LCRM The claim is about 300 yds up Butter Creek and about 30 ft up on the south side of the creek.

QUAD Cotopaxi 15'

MAP PUEBLO

DVEL A very small excavation was started in the side of the hill.

BKG .03 mr/hr

RNG .45 to .46 mr/hr

HOST The host rocks are arkosic sandstones of the Permian red beds. The sandstones vary from gray to brown to red.

MNZ The radioactivity, in the form of minute spots of carnotite, occurs in the black, carbonaceous, woody fragments in the sandstone. Minor amounts of copper minerals are present.

DOI 1954

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

FREMONT COUNTY

Picnic Tree Mine (Picnic Tree Claims - Hall Homestead)

LOCATION: SW1/4 sec. 26, T. 17 S., R. 73 W.
 QUAD Black Mountain 15'
 MAP PUEBLO
 DYEL Open pits. Average depth to ore is 50 ft.
 PROD During the period 1958-1967, a total of 13,525 tons of ore averaging 0.20% U3O8 and containing 52,776 lbs U3O8 were mined. Also, 2,222 lbs of V2O5 were recovered.
 HOST Carbonaceous water laid tuffs and volcanic conglomerates in the Oligocene Tallahassee Creek Conglomerate.
 MNZ Autunite has been identified. Uraninite (?) is also present.
 DOI 1978
 REF E. P. Beroni, 1978, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado.

Pine Canyon Lode (Southmost Claim Group)

LOCATION: NW1/4 sec. 34, T. 49 N., R. 10 E.
 LCRM The deposit is 100 ft south of the road in steeply dipping red beds. The CRIB file lists a deposit located on sec. 28, 29, 32, & 33, T. 49 N., R. 10 E. that occurs like this one. They are probably the same or connected occurrences.
 QUAD Howard 15'
 MAP PUEBLO
 DYEL A 30 ft tunnel was driven along bedding. To 3 x background.
 HOST The deposit lies in a black shale member of the Permian-Pennsylvanian red beds (possibly Maroon or Minturn Formations). The beds strike S8°E, and dip 42°NE. A volcanic intrusive lies about 100 ft off the radioactive prospect. Three radioactive black shale beds lie within 15 ft of the red bed section. A coal seam is also nearby.
 MNZ Malachite is associated with the radioactive black shales, along bedding planes and fractures. Assays of samples range from 0.006 to 0.016% eU3O8.
 DOI 1954
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

Rupp Property (Raup Mine 39)

LOCATION: W1/2 sec. 18, T. 17 S., R. 70 W.
 QUAD Cover Mountain 15'
 MAP PUEBLO
 DYEL There is one small open pit, approximately 100 x 70 x 30 ft; also, some drilling has been carried out.
 PROD There is no record of production with the U.S. A.E.C.
 BKG 150 cps
 RNG 300 to 2000 cps
 HOST The host is the Cretaceous Dakota Sandstone, primarily a lenticular layer high in the formation.

STRC There appears to be some relationship to fracturing and faulting. The deposit is on the west side of a shallow N-S striking anticline.
 ALT There are abundant leached clay galls and limonite staining.
 MNZ Autunite and carnotite occurs in clay seams and vugs, the vugs being the casts of plant debris. The uranium minerals are oxidized, and associated with manganese and iron oxide-stained, silicified fractures on the surface. The relationship of mineralization to the fractured rocks is not as obvious in the pit.
 RMKS As of 1976, the property was being drilled by Rampart Exploration Company of Denver, Colorado.
 DOI 1977
 REF Maurice Brady, 1977, Personal Communication. Atlantic Richfield Company, 1977, Personal Communication. Harry Granger, 1977, Personal Communication.

Sand Creek Claims

LOCATION: NE1/4 sec. 1, T. 16 S., R. 71 W.
 QUAD Cover Mountain 15'
 MAP PUEBLO
 DYEL Small surface cut.
 PROD In 1958, one ton of ore averaging 0.20% U3O8 and containing 44 lbs of U3O8 were produced from the Sand Creek No. 4 Claim.
 HOST Carbonaceous tuffs in the Oligocene Tallahassee Creek Conglomerate.
 MNZ Uraninite and autunite were both identified.
 DOI 1978
 REF E. P. Beroni, 1978, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado.

School Section

LOCATION: sec. 16, T. 19 S., R. 71 W.
 LCRM This may possibly be the same deposit as the Tanner Boy and Red Hill Groups.
 QUAD Royal Gorge 15'
 MAP PUEBLO
 DYEL Small open cut.
 PROD U.S. A.E.C. Records show one ton of ore averaging 0.36% U3O8, containing 7 lbs U3O8 produced in 1956.
 HOST Vein in Precambrian granite.
 MNZ Uraninite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Section 36 Mine (Glen Williams Mine)

LOCATION: NE1/4NW1/4 sec. 36, T. 17 S., R. 73 W.
 LCRM Lease includes S1/2 sec. 36.
 QUAD Black Mountain 15'
 MAP PUEBLO
 DYEL Surface and underground mining has been carried out on this lease. Average depth to ore is 130 ft.
 PROD Between 1959 and 1962, a total of 3,379 tons were mined averaging 0.28% U3O8. A total of 18,834 lbs have been produced by this mine.

FREMONT COUNTY

HOST Fine-grained volcanic clastic unit of the
Oligocene Tallahassee Creek Conglomerate.
MNZ Uraninite.
RMKS This is a state lease.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

from 0.028 to 0.03% eU, 0.15 to 1.70% eThO₂,
and 0.001% eU₃₀₈.
DOI 1951
REF U.S. Geol. Survey, 1977, CRIB File. U.S.
Geol. Survey, 1975. U.S. A.E.C., 1966, Preliminary
Reconnaissance Reports, Fremont County,
Colorado.

Sheila 1

LOCATION: sec. 21, T. 48 N., R. 12 E.
QUAD Cotopaxi 15'
MAP PUEBLO
DYEL Exploration has developed a small ore body,
no production.
HOST The deposit lies in Precambrian meta-sediments.
MNZ Uraninite and/or coffinite were identified.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Smaller Lease

LOCATION: SE1/4NE1/4 sec. 14, T. 17 S., R. 73 W.
LCRM Property adjoins the Little Abner and Joan
No. 2 Mines.
QUAD Black Mountain 15'
MAP PUEBLO
DYEL Open pit with underground workings off pit
walls. Average depth to ore is 45 ft.
PROD Between 1957 and 1961, a total of 4,871
tons of ore averaging 0.30% U₃₀₈ and containing
29,322 lbs of U₃₀₈ had been mined. In addition,
113 lbs of Y₂₀₅ were recovered.
HOST Conglomeratic arkosic sandstone in the Eocene
Echo Park Alluvium.
MNZ Uraninite has been identified.
DOI 1976
REF E. P. Beroni, 1977, Personal Communication.
Young, P., and Mickle, D. G., 1976. U.S. A.E.C.,
1971, Production Records, Colorado. McPherson,
B. A., 1959.

Sunrise Claims 1, 2, 3 (Stinkhole Claims)

LOCATION: sec. 20, T. 20 S., R. 71 W.
LCST UNSURVEYED
LCRM This also extends to sec. 21.
QUAD Royal Gorge 15'
MAP PUEBLO
DYEL This is an old shaft and numerous small
cuts and prospect pits.
PROD No production according to U.S. A.E.C. records.
BKG .6 mr/hr
RNG 1.0 to 3.4 mr/hr
HOST The deposit lies in a Tertiary vein cutting
Precambrian granite, gneiss, and a silicified
basal dike.
STRC The tabular vein can be traced more than
1/2 mile, striking N33°-40°W, and dipping
55°SW. It is 3 ft wide, more than 100 ft
thick, and horsetails at depth.
ALT The dike within the shear zone is partially
altered to clay minerals.
MNZ The vein contains barite, galena, and thorite,
with minor amounts of quartz, siderite,
hematite and limonite. Samples assayed showed

Sunshine Claims

LOCATION: NE1/4SW1/4 sec. 30, T. 17 S., R. 72 W..
LCRM Claims also extend to sec. 29, T. 17 S.,
R. 72 W.
QUAD Black Mountain 15'
MAP PUEBLO
DYEL Open pit mine. Average depth to ore is 90 ft.
PROD During the period 1953 to 1955, a total
of 1,145 tons of ore averaging 0.27% U₃₀₈
and containing 6,235 lbs of U₃₀₈ were mined.
Also, 46 lbs of Y₂₀₅ were recovered. All
production is credited to the Sunshine No.
2 Claim.
HOST Rhyolite boulder conglomerate and carbonaceous
ash beds in the Oligocene Tallahassee Creek
Conglomerate.
STRC The highest grade portion of the ore body
is near a fault.
MNZ Autunite has been identified. Uraninite
probably occurs in the deeper parts of the
ore body.
DOI 1978
REF E. P. Beroni, 1978, Personal Communication.
U.S. Geol. Survey, 1977, CRIB File. Young,
P., and Mickle, D. G., 1976. U.S. A.E.C.,
1971, Production Records, Colorado. McPherson,
B. A., 1959.

Tanner Boy Group (Red Hills Group)

LOCATION: sec. 15, T. 19 S., R. 71 W.
QUAD Royal Gorge 15'
MAP PUEBLO
HOST The host consists of Precambrian gneisses
and granites cut by diabase dikes.
DOI 1973
REF U.S. Geol. Survey, 1977, CRIB File.

Texas Creek

LOCATION: SE1/4 sec. 35, T. 49 N., R. 12 E.
LCRM Also extends to T. 18 S., R. 73 W.
QUAD Cotopaxi 15'
MAP PUEBLO
DYEL There is a shaft (less than 100 ft deep)
in the east side of the wash.
PROD A few tons of fluorite ore were produced.
BKG 150 to 200 cps
RNG 150 to 8000 cps
HOST The host is a series of undifferentiated
Precambrian hornblende and biotite gneisses
with garnet and fluorite; possibly a quartz
reef in gneiss.
STRC Quartz veins and fractures have localized
the mineralization.
ALT Some limonite is present and the vein is
highly weathered.
MNZ Radioactivity in the area is associated
with fluorite, with uranium the only mineral

FREMONT COUNTY

Identified. Assays of the vein material show 0.032, 0.083, and 0.10% eU308. Spectrographic analysis show 0.05% Thorium.

DOI 1977
 REF Maurice Brady, 1977, Personal Communication.
 Norman Bennette, 1977, Personal Communication.
 Ken Hodgason, 1977, Personal Communication.
 Western Nuclear, 1977, Company reports, 1977.

Thome Claims (Thome 1-14)

LOCATION: SE1/4 sec. 26, T. 17 S., R. 73 W.
 QUAD Black Mountain 15'
 MAP PUEBLO
 DVEL Open pit. Average depth to ore is 70 ft.
 PROD During the period 1960 to 1965, a total of 2,593 tons averaging 0.27% U308 and containing 13,771 lbs of U308 were mined from the Thome 9 and 10 Claims. Also, 1,342 lbs of V205 were recovered.
 HOST Boulder and cobble conglomerates and carbonaceous tuffs in the Oligocene Tallahassee Creek Conglomerate.
 MNZ Uraninite.
 DOI 1978
 REF E. P. Beroni, 1978, Personal Communication.
 U.S. A.E.C., 1971, Production Records, Colorado.

Unnamed 1

LOCATION: sec. 12, T. 19 S., R. 71 W.
 LCRM Directions given as follow: "About 2 mi. southwest of Canon City, follow right split in road along Grape Creek about 1 mi. out of Canon City to end of road. Walk on water pipe for about 1/2 mile. Large pegmatites, exposed just beyond contact of Precambrian and sediments in the Precambrian".
 QUAD Royal Gorge 15'
 MAP PUEBLO
 DVEL Some underground mining was done on this property.
 BKG .04 mr/hr
 RNG .08 to .12 mr/hr
 HOST The deposit lies in a large pegmatite located near the bottom of Grape Creek gulch. The dike cuts the Precambrian Idaho Springs Formation.
 MNZ The pegmatite is composed of pink feldspar, biotite mica, and minor quartz.
 DOI 1953
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1975. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

Unnamed 2

LOCATION: sec. 9, T. 20 S., R. 71 W.
 LCST UNCERTAIN
 QUAD Royal Gorge 15'
 MAP PUEBLO
 RMKS Described as a "wide radioactive shear zone that trends slightly east of north, about 0.1 mile to the west-northwest locality "6" page 20-24 in Journal listed below.
 REF Singewald, Q. D., 1966.

Unnamed 4

LOCATION: sec. 11, T. 47 N., R. 11 E.
 LCST UNCERTAIN
 QUAD Cotopaxi 15'
 MAP PUEBLO
 DVEL There are several small prospects.
 BKG 50 to 150 cpm
 RNG 600 average cpm
 HOST The host is a red sandstone, possibly of the Pennsylvanian-Permian Maroon Formation. The radioactive minerals are associated with carbonaceous debris in the sandstone.
 MNZ There are three unidentified radioactive minerals visible; one bright yellow, one yellow-green and one turquoise in color. They may be carnotite and volborthite. Samples read between 4 and 12 times background.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

Unnamed 5

LOCATION: SW1/4 sec. 21, T. 49 N., R. 10 E.
 QUAD Howard 15'
 MAP PUEBLO
 DVEL There is an inclined adit about 70 ft down the dip of a coal bed.
 HOST The host is a Permian-Pennsylvanian coal.
 STRC The coal bed dips 35°N, with a thickness of 16 to 20 in.
 MNZ No minerals were noted, but assays showed 0.003 to 0.004% eU and 0.002% chemical U.
 DOI 1950
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

Willis Tuttle

LOCATION: NE1/4SW1/4 sec. 26, T. 20 S., R. 71 W.
 LCST UNSURVEYED
 QUAD Royal Gorge 15'
 MAP PUEBLO
 DVEL Four shallow pits have been dug.
 HOST The host is a Precambrian complex intruded by a granite dike which was faulted, fractured, and mineralized.
 MNZ Thorium is responsible for the radioactivity, with thorite and its secondary alteration products probably the major radioactive minerals. The gangue is of quartz. Samples assayed showed 0.007 to 0.31% eU, and 0.001 to 0.002% chemical U.
 DOI 1950
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Fremont County, Colorado.

GARFIELD COUNTY

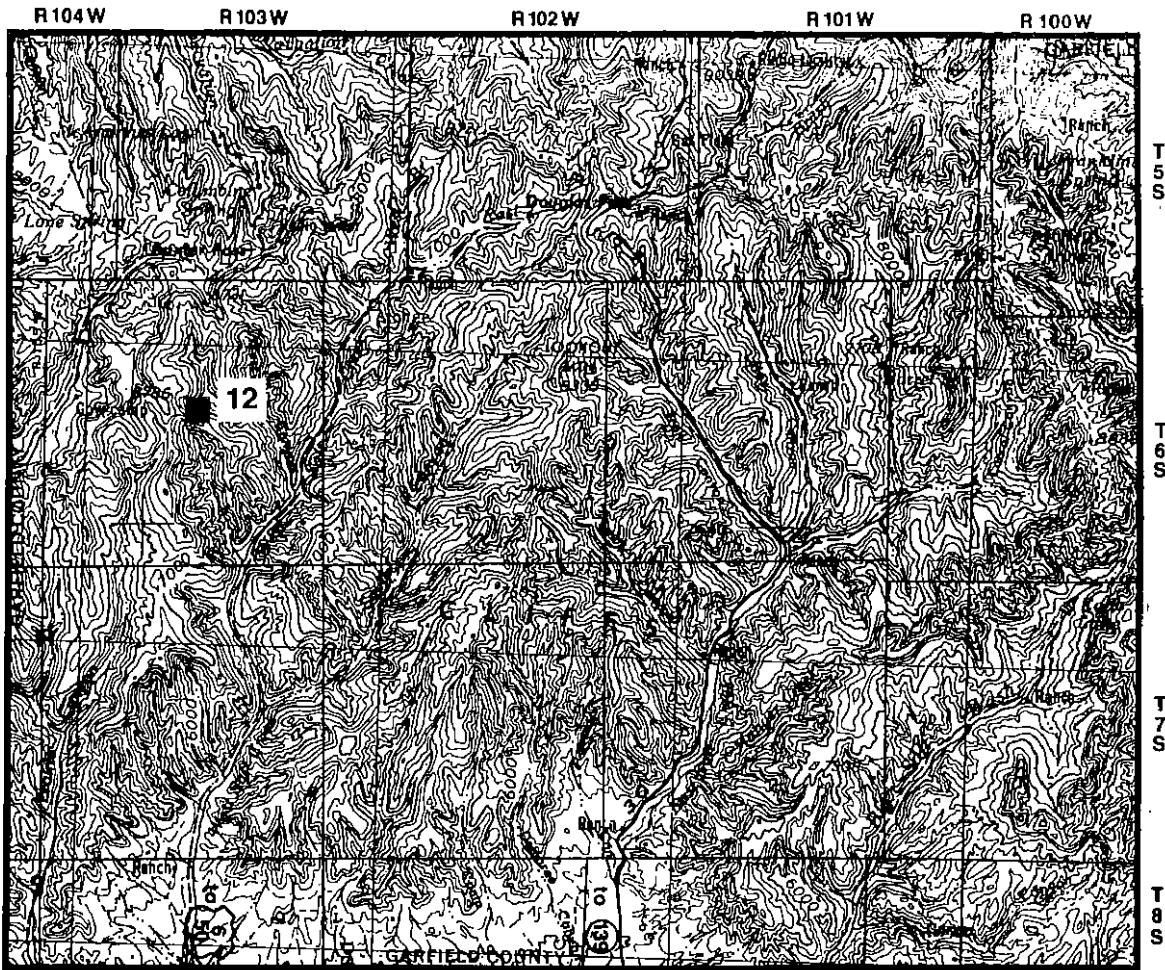
Production from Garfield County is large. The county is approximately fifth in production in the state. As of 1971, 394,154 tons of ore had been mined containing 553,444 lb of U_3O_8 , and 11,928,419 lb of V_2O_5 .

Garfield County, which lies in westernmost Colorado, typifies much of the Colorado Plateau terrane with relatively flat-lying sedimentary beds covering most of the county. The eastern third of the county is structurally more complex and is dominated by the Grand Hogback Monocline and the White River Uplift. The extreme northeastern part of the county is surfaced by Late Tertiary and Quaternary andesites and basalt flows that form the Flat Tops, a mountainous area now designated as Flat Tops Wilderness Area.

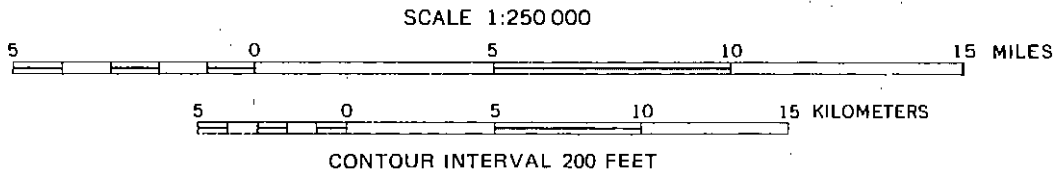
Nearly all the county's uranium production came before 1954. A total of about 394,000 tons of uranium-vanadium ore was mined, and most of that came from the Rifle and Garfield mines. The Rifle Mine yielded 387,613 tons of that ore, and the Garfield Mine produced 6,230 tons. Both mines are situated on extensions of the same ore body. One source estimates at least 50,000 tons of ore still are in reserve at the Rifle Mine. A mill at Rifle processed the ore from the mines and still operates as a secondary recovery system for vanadium from Uranium mineral belt ores. Plans are in progress to reactivate the plant as a uranium mill.

The Rifle Mine and the Garfield Mine are the most important occurrences in the county. Mines in the Rifle district and most other occurrences in the county lie in the Jurassic Morrison and Entrada Formations, and Triassic-Jurassic Navajo Sandstone, or the Triassic Chinle Formation. The largest mines (including the Rifle and Garfield mines) all produce from the Entrada Sandstone, with minor extensions into the Morrison Formation or the Navajo Sandstone. An interesting occurrence, different from any of the other known occurrences in the county, was discovered in a test well that was drilled for oil. The Schulte 1 occurrence is a highly radioactive black shale horizon in a 1-ft-thick alternating shale-quartzite zone near the base of the Cambrian Sawatch Quartzite. The major drawback, for this area at least, is that the deposit lies at a depth of 8,455 ft. However, it is similar to occurrences found near Burns and State Bridge in Eagle County. This enlarges the area of these unconformity-type occurrences and makes them more interesting exploration targets.

Favorable beds with high potential in the county include the Morrison Formation, the Entrada Sandstone, the Navajo Sandstone, and the Chinle Formation. These beds are all known to contain uranium and vanadium deposits, both in this county and in the Colorado Plateau in general.



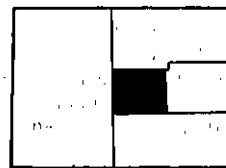
Base from U.S.G.S.



EXPLANATION

- COAL, SHALE, LIMESTONE
HOST ROCKS FOR OCCURRENCE
- 7 OCCURRENCE NUMBER FROM TEXT

LOCATION OF INSET



GRAND JUNCTION
1° x 2° SHEET

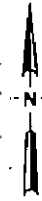


Figure 14. Radioactive mineral occurrences in part of Garfield County, Colorado.

GARFIELD COUNTY

Atlas Minerals Corporation Property

LOCATION: T. 5 S., R. 93 W.
 LCST UNCERTAIN
 QUAD Rifle 7 1/2' or Horse Mountain 7 1/2'
 MAP LEADVILLE
 DVEL There was some minor production with underground workings. As far as can be determined, no ore was shipped.
 HOST The host is probably the Jurassic Entrada Sandstone.
 MNZ Uranium and vanadium mineralization were found.
 DOI 1975
 REF U.S. Bur. of Mines, 1977 (Unpubl.).

Eik Van Tunnel and UV Claims (UV and Eik Van Claims)

LOCATION: sec. 30, T. 4 S., R. 91 W.
 LCRM The deposit extends to sec. 31 and 32. It lies 15 miles northeast of Rifle.
 QUAD Rifle Falls 7 1/2'
 MAP LEADVILLE
 DVEL This was an underground mine.
 PROD As of 1971, 22 tons had been mined at a grade of 0.16% U3O8 and 1.6% V2O5, producing 72 lbs of U3O8 and 737 lbs of V2O5.
 HOST The host is uncertain. It is either the Jurassic Entrada Sandstone or the Morrison Formation. The deposit occurs as massive tabular bodies.
 MNZ Uranium and vanadium mineralization are present, with carnotite and tyuyamunite as the main ore minerals.
 DOI 1975
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Fischer, R. P., 1960. Finch, W. I., 1946, U.S. A.E.C. RMO-0442.

End of Trail 1 & 2

LOCATION: sec. 10, T. 5 S., R. 91 W.
 LCRM Also sec. 15. The mine lies 5 1/2 miles north of Newcastle on the east slope of Eik Creek Valley.
 QUAD Deep Creek Point 7 1/2' or Newcastle 7 1/2'
 MAP LEADVILLE
 DVEL The End of Trail #1 had all of the production for these claims during 1953.
 PROD As of 1971, a total of 200 tons of ore had been mined at a grade of 0.22% U3O8 and 1.96% V2O5, producing 891 lbs of U3O8 and 7,850 lbs of V2O5.
 HOST The host rock is the Jurassic Morrison Formation.
 MNZ Carnotite and tyuyamunite were recognized in the mine, associated with a carbonaceous material.
 DOI 1960
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Fischer, R. P., 1960.

Enterprise 1, 2, 3

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Rifle area.
 DVEL Eight tons of ore had been mined by 1971 at a grade of 0.09% U3O8 and 0.51% V2O5, producing 155 lbs of U3O8 and 81 lbs of V2O5.
 HOST The host is probably the Jurassic Entrada Sandstone.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Garfield Mine

LOCATION: NW1/4NE1/4SW1/4 sec. 34, T. 4 S., R. 92 W.
 LCRM The deposit also extends to sec. 33. U.S. A.E.C. Production Records also show sec. 28, 33 and 35.
 QUAD Rifle Falls 7 1/2'
 MAP LEADVILLE
 PROD As of 1971, 6,230 tons of ore had been mined at a grade of 0.05% U3O8 and 1.51% V2O5, producing 6,756 lbs of U3O8 and 188,498 lbs of V2O5.
 HOST The host is primarily the Jurassic Entrada Sandstone, but in some places the ore also crosses into the Triassic-Jurassic Navajo Sandstone. The deposit occurs as massive tabular ore bodies.
 MNZ The mine was worked for uranium and vanadium, but lead, selenium, and chromium are also present in small amounts. The mineralization is distinctive because of the "fractionation" of these minor and the ore minerals roscoelite, montroselite, pascolite, carnotite, tyuyamunite, galena, mariposite and clausthalite are among the minerals recognized at the mine.
 RMKS For more detail, see the "Rifle Mine", also in this county. They are spatially close and geologically nearly identical, being genetically related.
 DOI 1951
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Garfield County, Colorado. Fischer, R. P., 1960. Smith, C. T., 1946.

Homestake Mine

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Rifle district.
 PROD As of 1971, 27 tons of ore had been mined at grades of 0.16% U3O8 and 2.70% V2O5, producing 88 lbs of U3O8 and 1,459 lbs of V2O5.
 HOST The host is probably the Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Incorporated 1, 2, 3 & 4

LOCATION:
 LCST UNLOCATABLE

GARFIELD COUNTY

LCRM This deposit lies in the Rifle district.
 PROD As of 1971, five tons of ore had been mined at grades of 0.15% U308 and 2.28% V205, producing 15 lbs of U308 and 228 lbs of V205.
 HOST The host is probably the Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Lottl B (Lottl 1-3, Canary, Canary 2 & 3)

LOCATION: sec. 14, T. 5 S., R. 91 W.
 LCRM Also sec. 13,
 QUAD New Castle 7 1/2'
 MAP LEADVILLE
 PROD By 1971, six tons of ore had been mined at grades of 0.13% U308 and 0.43% V205, producing 151 lbs of U308 and 52 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Carnotite and tyuyamunite are the ore minerals.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Marvola Lode 1-14 (Marvol)

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Rifle district.
 PROD By 1971, 20 tons of ore had been mined at grades of 0.13% U308 and 1.04% V205, producing 50 lbs of U308 and 418 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Revelation Group

LOCATION: S1/2 sec. 35, T. 5 S., R. 90 W.
 QUAD Storm King Mountain 7 1/2'
 MAP LEADVILLE
 DVEL A six ft adit was driven at the best exposure along the outcrop.
 BKG .02 mr/hr
 RNG To .25 mr/hr
 HOST The host is the Salt Wash Member of the Jurassic Morrison Formation. It is a medium-grained sandstone both massive and cross-bedded in thin series. There are some carbon seams and siltstone pebble conglomerate. The deposit strikes N55°W., and dips 30°SW. It is about 125 ft long, with an average thickness of 8 in.
 MNZ Radioactive mineralization occurs in the sandstone and in bone fragments. Sparse malachite is present, with calcite as a gangue minerals. Grab sample assays range from 0.12% to 0.33% eU, with one chemical assay of a bone being 0.20% U308.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Report, Garfield County, Colorado. MacQuown, W. C., 1945, Structure of the White River Plateau near Glenwood Springs, Colorado: Geol. Soc. Am. Bull. v. 56 no. 10.

Rifle Mine (Rifle Creek Mine, Oriole Claims, and North Star Claims)

LOCATION: NW1/4NE1/4NW1/4 sec. 35, T. 4 S., R. 92 W.
 QUAD Rifle Falls 7 1/2'
 MAP LEADVILLE
 DVEL The occurrence was discovered about 1909, and mining began around 1922. Little production has taken place since 1954, although the CRIB File estimates that there are probably at least 50,000 tons of ore still in reserve. The deposit was mined for 7,000 ft along the trend of the ore.
 PROD As of 1971, 387,613 tons of ore had been mined at grades of 0.07% U308 and 1.51% V205, producing 545,260 lbs of U308 and 11,728,996 lbs of V205.
 HOST The mineralization is primarily in the Jurassic Entrada Sandstone, and the Triassic-Jurassic Navajo Sandstone Formation.
 STRC The Grand Hogback and several other sets of eastward and northwestward trending faults are prominent in the area, but these do not have any apparent control over the ore deposition. The faults are all post-ore, and offset the veins.
 MNZ The primary minerals in the deposit are micaceous vanadium silicates (roscoelite) and montroseite, with some carnotite, tyuyamunite, galena-clausthalite, bayleyite, and mariposite. The ore occurs in three tabular layers (Nos. 1, 2, 3) each of which is bounded on one side by a thin (1/8 in.) layer of 4 galena-clausthalite, which is in turn bordered by a 11 to 2 ft layer of greenish sandstone containing a micaceous chromium - bearing mineral. These galena - clausthalite and chromium - bearing layers lie about No. 1 and No. 3 veins, but below No. 2 vein. If the veins were connected they would form an "S" shaped curve.
 DOI 1960
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Fischer, R. P., 1960.

Schulte 1 - SW1/4, Test Well

LOCATION: SW1/4 sec. 15, T. 6 S., R. 103 W.
 LCST UNSURVEYED
 QUAD Baxter Pass 7 1/2'
 MAP GRAND JUNCTION
 DVEL The radioactive horizon was discovered in the Schulte No. 1 test well for oil. The well was drilled at least to 8,455 ft.
 RNG Average 0.1% (est.)
 HOST A highly radioactive black shale occurs near the base of the Sawatch quartzite of upper Cambrian age. The black shale appears as thin 0.1 ft beds in a dolomitic quartzite. A zone of interbedded shale and quartzite about a foot thick at a depth of 8,455 ft in the well is radioactive, with the greatest count in the lowest 0.1 ft shale bed.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Garfield County, Colorado. General Petroleum Company, Schulte No. 1, Gamma-ray

GARFIELD COUNTY

log. Erdmann, C. E., 1934, Book Cliffs
Coal Field: U.S. Geol. Surv. Bull. 851.

Ward Gulch

LOCATION:

LCST UNLOCATABLE

PROD As of 1971, three tons of ore at grades
of 0.10% U308 and 1.67% V205 had been mined,
producing 6 lbs of U308 and 100 lbs of V205.

HOST The host is probably the Jurassic Morrison
Formation.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado.

GILPIN COUNTY

Production of uranium from Gilpin County has been small in spite of the fact that the county was the first uranium mining district in the U.S. A little over 400 tons of ore was shipped between 1871 and 1960, and most of that was high-grade, hand-sorted ore mined for its radium content. Production noted after the AEC began to keep records amounted to 49.25 tons, which yielded 391 lb of U_3O_8 .

Gilpin County is located in the north-central Colorado Front Range. Precambrian schists and gneisses of the Idaho Springs Formation are exposed throughout the county. Extensive bodies of granite, granite-gneiss, quartz-monzonite gneiss, and granite pegmatite intrude the Idaho Springs Formation.

The first pitchblende in the United States was found in Gilpin County on the dump of the Wood Mine in 1871. As a result of the Curies' work with this ore in Paris, the area attracted many uranium (radium) prospectors.

The uranium occurrences in Gilpin County are found in metal mines of the Front Range mineral belt in the Central City district, largely in the Quartz

Hill area. The two largest producers were the Wood Mine and the Carroll Mine. The mineralization occurs in Tertiary veins that cut Precambrian metasediments of the Idaho Springs Formation. In most, if not all, of the mines in the district, the pitchblende is concentrated in small, discontinuous pods and stringers in fissure veins. The uranium is subordinate to base- and precious-metals, which have been actively mined in the district. None of the known uranium occurrences are economically mineable for uranium under current market conditions.

Gilpin County probably does not have a great potential for future uranium mining in the known mining districts within the mineral belt. Major deposits of uranium ore are found outside but near to the mineral belt in veins cutting garnet biotite gneiss and quartz biotite schists. Most of these veins and productive ore deposits occur in northeastward- and eastward-trending faults or fault zones. One such deposit is the Schwartzwalder Mine in Jefferson County. There is some minor potential for discovering similar deposits in parts of Gilpin County.

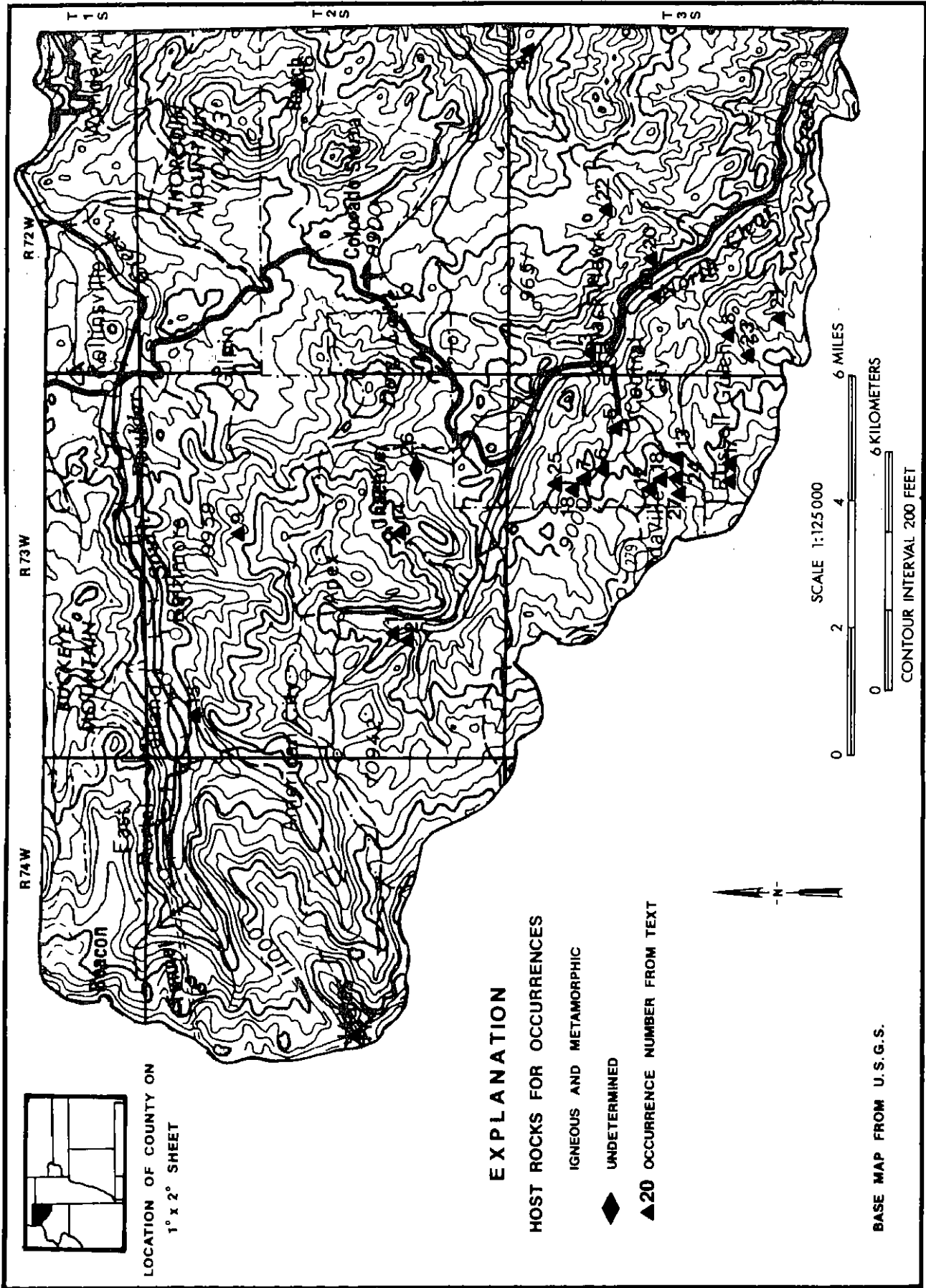


Figure 15. Radioactive mineral occurrences in Gilpin County, Colorado.

GILPIN COUNTY

Ashland Mine

LOCATION: sec. 23, T. 3 S., R. 73 W.

LCST UNCERTAIN

LCRM Location description is as follows: "Travel 4.1 miles south of Central City along upper Virginia Canyon road. Turn left at intersection of two jeep roads and Gulch road. Take poorly defined jeep road for a distance of 0.3 miles and park on old mine dump. Mine is located 2,000 ft due north and uphill." Central City 7 1/2'

QUAD MAP DENVER

DVEL The mine was operative until 1942. There is a shaft 90 ft deep, an adit 200 ft long, and three pits above the mine.

BKG .03 mr/hr

RNG .076 to .3 mr/hr

HOST Precambrian schist and gneiss, of the Idaho Springs Formation, predominate in the area, with several north-south trending pegmatites in the proximity of the mine.

ALT The pegmatites are slightly altered.

MNZ Free milling gold occurs in the vein. Uranium mineralization occurs in the cracks and small vugs in the pegmatites. The principal uranium mineral is autunite, which impregnates the slightly altered pegmatites.

DOI 1955(?)

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado.

Big Bertha Prospect

LOCATION: S1/2NE1/4 sec. 29, T. 2 S., R. 73 W.

LCST UNSURVEYED

QUAD Central City 7 1/2'

MAP DENVER

DVEL There is a single adit. Its portal is caved.

BKG .4 to 1.0 mr/hr

RNG 3.0 to 4.0 mr/hr

HOST The host is a pink to gray granite gneiss with local schlieren of biotite gneiss and amphibolite. It is a unit of the Idaho Springs Formation. It is cut by Tertiary veins, which contain the mineralization.

MNZ Primary ore minerals include pyrite (auriferous?), chalcopyrite, galena, and specularite. These are found as lenses, disseminated grains, veinlets, and local sheared aggregates in a gangue of milky to cherty quartz and creamy barite (?). A grab sample of radioactive material from the dump contains 0.017% eU, 0.0009% U, 0.03 oz/ton of gold, and 18.49 oz/ton of silver.

DOI 1952

REF U.S. Bur. of Mines, 1977 (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado.

Black Hawk 2 Claim

LOCATION: NW1/4 sec. 7, T. 3 S., R. 72 W.

QUAD Black Hawk 7 1/2'

MAP DENVER

DVEL There is a partly caved adit, and numerous pits and dumps.

BKG .02 mr/hr

RNG To .3 mr/hr

HOST The host is a Precambrian biotite schist of the Idaho Springs Formation.

STRC The schist is cut by a Tertiary quartz vein that strikes N30 - 35°E and dips S8°W. Its length is 500 ft, width is 2 ft, and its general shape is tabular.

MNZ Quartz and limonite are present in the vein. Autunite(?) coats fracture surfaces and is sparsely disseminated through the biotite schist. Samples collected range from 0.08 to 0.15% eU.

DOI 1954

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado.

Bowman Lease

LOCATION: NW1/4 sec. 1, T. 3 S., R. 72 W.

QUAD Black Hawk 7 1/2'

MAP DENVER

DVEL There are several old prospect pits in the area. This property had a pit 8 ft by 15 ft by 13 ft opened.

BKG .03 mr/hr

RNG To .6 mr/hr

HOST The host rock is a Precambrian granite gneiss of the Idaho Springs Formation. The rock in the pit is regolithic in appearance to a depth of 8 ft.

STRC A pronounced, iron-stained shear zone trends N70°W.

MNZ Limonite, hematite, and an unidentified black mineral (pyrolusite?) are present. The uranium mineral was not identified, but ore grade assays were obtained privately.

DOI 1955

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado.

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Buckley Mine

LOCATION: W1/2SW1/4 sec. 12, T. 3 S., R. 73 W.
 LCST UNSURVEYED
 LCRM The deposit extends to, or very near, sec. 11.
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL The size of the dump indicates several hundred feet of workings.
 BKG 65 cps
 RNG 175 cps
 HOST The Tertiary veins were intruded into Precambrian granite gneiss, amphibolite, and meta-sediments, probably of the Idaho Springs Formation.
 STRC The mineralized vein strikes N70°E, and extends for 500 ft.
 ALT Pyrite and pitchblende are both present, with quartz as a gangue material. The mine was worked for gold.
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado. Sims, P. K., 1955. Sims, and others 1964. Bastin, E. S., and Hill, J. M., 1917, U.S. Geol. Survey Prof. Paper 94.

Bullion

LOCATION: sec. 11, T. 3 S., R. 73 W.
 LCST UNSURVEYED
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL There is an inaccessible shaft on the property.
 BKG .8 mr/hr
 RNG 100 mr/hr
 HOST The host is a Precambrian granite gneiss, with biotite-quartz-plagioclase gneiss, biotite gneiss, and pegmatite.
 STRC Tertiary veins control the ore.
 MNZ Sphalerite, galena, and pitchblende are present as the primary ores, and the gangue is quartz. A grab sample of the dump material assayed 6.7% eU, and 6.87% U.
 DOI 1953
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado. Bastin, E. S., and Hill, J. M., 1917, U.S. Geol. Survey Prof. Paper 94, 379 p.

Carrol Mine (Carrol, Spur-Daisy Group, Central City, Cherokee, Woodlire, Rara Avis)

LOCATION: NE1/4NW1/4 sec. 11, T. 3 S., R. 73 W.
 LCST UNSURVEYED
 LCRM This deposit extends to the N1/2S1/2 sec. 2
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL There is one inaccessible shaft. The Carrol was worked for uranium. The other mines were worked for gold, silver, lead and zinc.
 PROD During 1955, 16 tons of ore were mined at a grade of 0.68% U3O8 and 0.02% V2O5, producing 218 lbs of U3O8 and 5 lbs of V2O5.
 BKG .8 mr/hr
 RNG 36 to 100 mr/hr
 HOST The host is a Precambrian granite gneiss, pegmatite, and biotite-quartz-plagioclase

gneiss, of the Idaho Springs Formation. It is cut by Tertiary bostonite porphyry dikes.
 STRC Tertiary lead-zinc veins cut the Precambrian host rocks. One of these is the Rara Avis vein. The mineralization occurs in pods in the veins.
 MNZ Sphalerite, pyrite, galena and pitchblende are present as primary mineralization, and quartz is the predominant gangue. Dump samples assayed between 0.17 and 1.7% eU, and between 0.03 and 0.94% U.
 DOI 1953
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado. Bastin, E. S., and Hill, J. M., 1917, U.S. Geol. Survey Prof. Paper 94, 379 p.

Cherokee Mine

LOCATION: sec. 19, T. 3 S., R. 72 W.
 LCST UNCERTAIN
 LCRM This deposit may also extend into sec. 29.
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL Some underground mining was carried out.
 HOST The deposit lies in a quartz biotite schist of the Precambrian Idaho Springs Formation.
 ALT The rock shows silicification and minor sericitization.
 MNZ Pitchblende and Johannite are in association with galena, pyrite, sphalerite, copper sulfides, and minor silver minerals. The age of mineralization is probably Tertiary.
 DOI 1955
 REF U.S. Bur. of Mines, 1977 (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Page and others, 1956.

Copper Queen (Copper King?)

LOCATION: sec. 10, T. 2 S., R. 73 W.
 LCST UNCERTAIN
 QUAD Nederland 7 1/2'
 MAP DENVER
 DVEL There is a 26 ft shaft.
 BKG .01 to .05 mr/hr
 RNG To .15 mr/hr
 HOST The deposit is in a quartz vein with altered feldspar within the Precambrian biotite gneiss of the Idaho Springs Formation.
 MNZ The mineralization lies in a quartz-pyrite vein, with small stringers of galena. The radioactive mineral was not identified, but may be pitchblende.
 DOI 1953
 REF U.S. Bur. of Mines, 1977 (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado.

E & H-Jelly Roll Mine

LOCATION: NW1/4 sec. 17, T. 3 S., R. 72 W.
 QUAD Black Hawk 7 1/2'
 MAP DENVER
 DVEL Underground work was carried out, but no actual production took place.

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HOST The faults acted as a locus for ore deposition in veins.
 MNZ Uranium mineralization was recognized, along with iron oxide.
 DOI 1973
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File.

Elliot Mine (Wealthy Lode Mining Claim, Wealthy Lode Claim)

LOCATION: NE1/4 sec. 29, T. 2 S., R. 73 W.
 LCST UNSURVEYED
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL There are 270 ft of drifting along a shear zone, with a few small stopes also developed.
 BKG .6 to 1.4 mr/hr
 RNG To 80 mr/hr
 HOST The host rock is a sheared, locally altered granite pegmatite with chlorite and an amphibolite also present. It is in the Precambrian Idaho Springs Formation.
 STRC Tertiary veining cuts the granite pegmatite and localizes the ore.
 MNZ Primary minerals include pyrite, chalcopyrite, galena, and uraninite. Secondary copper stains are localized in small area. The gangue is quartz.
 DOI 1952
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado. Sims, P. K., and Sheridan, D. M., 1964.

Flack No. 3 Mine (Kirk Mine)

LOCATION: NW 1/4 sec. 14, T. 3 S., R. 73 W.
 LCST UNSURVEYED
 LCRM This mine is about 800 ft south of the Gold Coin Mine.
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL The size of the dump indicates several hundred ft of underground workings.
 BKG 80 cps
 RNG 175 cps average
 HOST The host is a granite gneiss with pegmatite and meta-sediments of the Precambrian Idaho Springs Formation, cut by Tertiary bostonite dikes.
 STRC A Tertiary vein cuts the host and strikes N80°E for 1,700 ft. The mineralization occurs in veins as pods and lenses.
 MNZ Galena, sphalerite, pyrite, and pitchblende are all present in a quartz gangue. The mine was originally worked for gold, silver and lead.
 DOI 1954
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado. Sims, P. K., and others, 1963. Bastin, E. S., and Hill, J. M., 1917, U.S. Geol. Survey Prof. Paper 94, 379 p. Hill, J. M., 1945, (RMO-47). Gullotte, G. B., 1944, (RMO-48).

German and Belcher

LOCATION: sec. 14, T. 3 S., R. 73 W.
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL There was reportedly some gold and silver production from these mines, but no uranium.
 HOST The host is a Precambrian microcline gneiss with biotite and quartz - plagioclase. It is intruded by pegmatite and bostonite porphyry of Tertiary age.
 STRC The deposit occurs as pockets and lenses in a vein.
 MNZ Uranium, gold, silver and copper minerals were recognized with pitchblende, galena, pyrite, and sphalerite.
 DOI 1977
 REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K. and others, 1963. Gullotte, G. B., 1944, (RMO-48).

Gold Chief Mine

LOCATION: NE1/4NW1/4 sec. 27, T. 2 S., R. 73 W.
 LCST UNSURVEYED
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL There is 1,000 ft of drifting with considerable stoping on the "We Got Em" vein. There is a winze to sublevels at 40 and 100 ft (now flooded to 65 ft). Some stoping is present on the Reform vein.
 BKG .4 to .15 mr/hr
 RNG To 20.0 mr/hr
 HOST The host is a gray granite gneiss that is probably a unit of the Precambrian Idaho Springs Formation. Tertiary veining cuts this, and contains the mineralization.
 STRC The radioactivity appears to be associated with cross fractures on the "We Got Em" vein, and is in the form of fracture coatings.
 MNZ Pyrite, chalcopyrite and some free copper have been reported. Secondary minerals include secondary copper minerals and the radioactive material. Grab and chip samples range from 0.002 to 0.051% eU and from 0.001 to 0.002% U. Other samples assay between a trace and 11.76 oz/ton of silver, and 0.0922% Mn, 0.16% Cu, 0.07% Pb, and 0.22% Zn.
 DOI 1952
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado.

Gold Spring Group

LOCATION: SW1/4SE1/4 sec. 6, T. 2 S., R. 73 W.
 LCST UNSURVEYED
 LCRM The U.S. A.E.C. P.R.R. location is incorrect.
 QUAD Nederland 7 1/2'
 MAP DENVER
 DVEL The workings on the property consist of 550 ft of adit, and 15 ft of drifting that were opened around 1900.
 BKG .01 mr/hr
 RNG To .4 mr/hr
 HOST The host is an older Precambrian quartz - biotite schist that strikes N45°W and

GILPIN COUNTY

dips N 33°. It is a member of the Idaho Springs Formation.

STRC There are three thin veins, all mineralized with uranium. The first vein is 100 ft south of the portal, striking N68°W and dipping N85°. The second is 200 ft from the portal and strikes N70°W and dips N86°. The third vein is 500 ft south of the portal and strikes N60° and dips 50°N.

ALT A propylitized zone extends 10 - 15 ft on both sides of the veins. Three types of alteration are present: silicification, epidotization, and pyritization, in that order.

MNZ The veins range up to three in. thick and contain the following minerals, in their order of deposition: pyrite, quartz, and pitchblende.

DOI 1956
REF U.S. Bur. of Mines, 1977 (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado. Lovering, T. S., and Goddard, E. N., 1950.

Golder - Passarella Claims

LOCATION: sec. 14, T. 2 S., R. 72 W.
QUAD Black Hawk 7 1/2'
MAP DENVER
DVEL A 15 ft shaft has been dug.
BKG .035 mr/hr
RNG .5 to 1.3 mr/hr
HOST The country rock is Precambrian Boulder Creek granite and a granite-gneiss, also Precambrian.

STRC The shaft exposes an altered breccia in a northwest trending shear zone.

MNZ Minor amounts of torbernite are visible in the profusely iron-stained breccia.

DOI 1954
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado.

Iron Mine (Pewabic-Iron)

LOCATION: sec. 23, T. 3 S., R. 73 W.
LCST UNSURVEYED
QUAD Central City 7 1/2'
MAP DENVER
DVEL There is a shaft and several hundred ft of drifts associated with the Iron Vein.

HOST The wall rock is quartz - biotite gneiss of the Precambrian Idaho Springs Formation. It is intruded by Tertiary quartz bostonite porphyry.

STRC The Iron Vein strikes N85°W and dips 75 - 80°N. It varies in width between 6 and 30 in.

MNZ Uranium mineralization occurs south of the Iron Vein, and on the hanging wall of the vein. The gangue is primarily galena, sphalerite, and marmatite. The hanging wall portion of the vein consists of a main streak 2 to 8 in. wide, containing quartz, pyrite, clay, sericite, and thin laminated streaks less than 1/4 in. wide of pitchblende. Samples taken from the mine range from 0.003 to 1.57% eU, 0.001 to 1.71% U, 0.0 to 10.31%

Pb, 0.08 to 8.96% Zn, 0.0 to 0.36 oz/ton Au, and 0.0 to 27.56 oz/ton Ag.

DOI 1957
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado. Sims, P. K., and others, 1963.

J. P. Whitney

LOCATION: SE1/4NW1/4 sec. 11, T. 3 S., R. 73 W.
LCST UNSURVEYED
QUAD Central City 7 1/2'
DVEL The size of the dump indicates that there are probably several hundred ft of workings.

BKG 100 cps
RNG average of 400 cps
HOST The host is a Precambrian series of granite gneiss, pegmatite, and metasediments of the Idaho Springs Formation.

STRC A tertiary vein cuts the Precambrian host.
MNZ A quartz gangue contains galena - sphalerite, pyrite, and pitchblende.

DOI 1958
REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado. Bastin, E. S., and Hill, J. M., 1917, U.S. Geol. Survey Prof. Paper 94, 379 p.

James Peak Anomaly (Tucker #1)

LOCATION: sec. 20, T. 2 S., R. 74 W.
LCST UNSURVEYED
LCRM Directions to occurrences are as follows: "follow the Ute Pack Trail northeast of Little Echo Lake for 500 yds. The entire slope is anomalously radioactive. The Tucker #1 prospect is at an elevation of about 11,500 ft and is within 1/4 mile of the Continental Divide."

QUAD Empire 7 1/2'
MAP DENVER
BKG .02 to .04 mr/hr
RNG .08 to 0.8 mr/hr
HOST The host is hard, banded Precambrian Idaho Springs Formation with numerous small pegmatites paralleling and cutting its foliation.

STRC The Tucker #1 prospect is located on a fault striking N64°E and dipping 60°N which cuts through the gneiss and the injected pegmatite.

ALT The pegmatites, in places, have been partially altered to orthoschist.

MNZ The predominant minerals are biotite, orthoclase, and plagioclase. Limonite staining is common on the weathered face of the gneiss. A minor amount of a green uranium secondary mineral occurs on the fractured face of the shattered rock near the fault.

RMKS The property was discovered by airborne reconnaissance in 1953.

DOI 1956
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado.

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Priscilla Claim (Priscilla Group Claims, Priscilla, Dorothy, and Sunshine)

LOCATION: NE1/4 sec. 17, T. 3 S., R. 72 W.
 QUAD Black Hawk 7 1/2'
 MAP DENVER
 DVEL There is an abandoned shaft 6 by 8 ft by 25 ft deep, and three trenches 20 ft long by 2 ft wide by 2 ft deep. There are several old caved adits.
 BKG .03 mr/hr
 RNG .04 to .7 mr/hr
 HOST The occurrence is in a Tertiary breccia reef surrounded by Precambrian granite. It is roughly tabular in shape, with 500 ft exposed along its length, 25 ft of depth exposed, and a width of 6 ft.
 STRC The breccia strikes N50°W with a vertical dip.
 ALT Alteration is noticeable around the breccia reef.
 MNZ Gangue minerals include pyrite and hematite. Grab samples from the dump contained an estimated 0.01% to 0.05% eU. Selected pieces also taken from the dump assayed at 0.278% U308. Possible uranophane coats the fractures at the Sunshine discovery cut.
 DOI 1955
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado.

Roof Ranch Lease

LOCATION: NE1/4 sec. 30, T. 3 S., R. 72 W.
 LCRM U.S. A.E.C. P.R.R. also show sec. 19, 20 and 29.
 QUAD Black Hawk 7 1/2'
 MAP DENVER
 DVEL The deposit was worked as both a surface and an underground property.
 PROD Eight tons were mined during 1959, at a grade of 0.17% U308 producing 29 lbs of U308.
 HOST The deposit occurs in veins and pegmatites which cut the Precambrian Idaho Springs Formation.
 MNZ Autunite was recognized, along with iron oxide.
 DOI 1974
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado.

Smith Hill Gulch Prospect

LOCATION: sec. 9, T. 3 S., R. 72 W.
 QUAD Black Hawk 7 1/2'
 MAP DENVER
 DVEL These claims were staked by Western Nuclear within the last five years.
 RNG 2-3 x bg
 HOST The occurrence lies in a Tertiary(?) bostonite dike within a shear zone which cuts the Precambrian Idaho Springs Formation.
 STRC The Ralston Shear zone has localized ore emplacement.
 MNZ No visible uranium minerals were reported, but the anomalous radioactivity is associated with specular hematite and copper.
 REF Alan Reid, 1977, Personal Communication.

Spread Eagle (Queen)

LOCATION: SW1/4 sec. 19, T. 3 S., R. 72 W.
 QUAD Black Hawk 7 1/2'
 MAP DENVER
 DVEL There is a shaft and an adit. The adit is open, and the shaft is in good condition, but filled with water to within 35-40 ft of the collar.
 BKG .02 to .2 mr/hr
 RNG 5.0 or above mr/hr
 HOST The host rock is Precambrian Idaho Springs schist and gneiss with some megmatite, gneissic granite, and granite pegmatite.
 STRC The host rock is cut by Tertiary veins which contain the mineralization. The main vein is possibly an extension of the Little Annie vein.
 MNZ Primary ore minerals include pyrite, chalcopyrite, sphalerite, galena, minor gold and pitchblende. Gangue minerals are quartz and minor barite. There are parallel bands of ore and gangue minerals, with quartz bands and some pitchblende bands showing colloform textures to the unaided eye. Pitchblende is disseminated in the gangue, in other metallics, and in the altered wall rocks. Assays of grab samples range from 0.40% to 1.97% U308.
 DOI 1952
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado. Lovering, T. S., and Goddard, E. H., 1950. Bastin, E. S., and Hill, J. M., 1917, U.S. Geol. Survey Prof. Paper 94.

Telegraph Mine

LOCATION: sec. 14, T. 3 S., R. 73 W.
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL The property was worked from a shaft which is now inaccessible.
 BKG .03 mr/hr
 RNG To .2 mr/hr
 HOST The occurrence was a Tertiary vein deposit intruded into Precambrian granite gneiss.
 MNZ The primary ore minerals are pyrite, gold, and pitchblende. The main gangue material is quartz.
 DOI 1951
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado. Bastin, E. S., and Hill, J. M., 1917, U.S. Geol. Survey Prof. Paper 94, 379 p.

Two Sisters Claim (Two Sisters Group)

LOCATION: N1/2 sec. 11, T. 3 S., R. 73 W.
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL The size of the dumps indicates a total of about 500 ft of workings. The main(?) shaft is caved. The small shaft at the east end of the claim is 40 ft deep and connects with a 100 ft drift.

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PROD In 1954, 0.25 tons of ore were mined at a grade of 1.80% U308, producing 9 lbs of U308.
 BKG 75 cps
 RNG Average 300 cps
 HOST The deposit is in Tertiary veins and bostonite porphyry dikes intruded into Precambrian mica - quartz schist, granite pegmatite, and granite gneiss of the Idaho Springs Formation.
 STRC Tertiary veins provided the major ore control. They strike predominantly N80°E, with branching veins striking N80°W.
 MNZ The mine was originally worked for gold, silver, and lead. Galena, sphalerite, chalcopryite, some pyrite, pitchblende and uraninite are present, with torbernite(?) and uranophane(?) as secondary minerals. The gangue mineralization is quartz. The torbernite(?) is in veinlets with quartz, disseminated in a mica schist, and coats fracture surfaces. The uranophane(?) coats vugs in a limonitic gossan on the dump. A vein sample assayed at 0.92% eU and 1.42% U. A grab sample assayed 0.027% eU and 0.017% U.
 DOI 1954
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gilpin County, Colorado. Sims, P. K., and others, 1963. Bastin, E S., and Hill, J. M., 1917, U.S. Geol Survey Prof. Paper 94, 379 p.

1957. Page, L. R., and others, 1956. King, R. U., 1951, U.S. Geol. Survey TEM-102A. Gullilotte, G. B., 1944, (RMO-48).

Unnamed 1

LOCATION: sec. 26, T. 2 S., R. 73 W.
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL No production occurred at this location.
 MNZ Pitchblende was found at the occurrence.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K., and Sheridan, D. M., 1964.

Wood Mine (East Calhoun Mine, Calhoun-Wood)

LOCATION: NW1/4SW1/4 sec. 14, T. 3 S., R. 73 W.
 QUAD Central City 7 1/2'
 MAP DENVER
 DVEL There was production for gold and silver.
 PROD During 1953 and 1954, 18 tons were mined at a grade of 0.204% U308, containing 59 lbs U308.
 HOST The host is a vein in Precambrian granite gneiss with quartz, biotite and microcline.
 MNZ The mine was worked principally for gold and silver, and later on a smaller scale for uranium. Pitchblende, galena, and sphalerite were all found.
 RMKS The first discovery of pitchblende in the U.S. was in 1871 on the dump of the Wood Mine.
 DOI 1950
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. Sims, D. K., and others, 1963. Drake, A. A., Jr.,

GRAND COUNTY

Uranium production from the county has been limited. Records show that by 1971, 218 tons of ore had been mined, and 837 lb of U_3O_8 were recovered. Excellent potential exists for more reserves to be found within the county.

The county is bounded on the west by the Park Range and on the east by the Front Range. Middle Park covers the rest of the county between the two ranges. Precambrian granites, gneisses, migmatites and minor basin rocks comprise the cores of the two ranges. Middle Park is an intermontane basin filled with recent sediments. The county lies north of the mineral belt, and uranium is the only mineral that has been produced in any quantity.

The three deposits that have produced uranium in Grand County are the Alaska-Humes Group, CPJ Claims, and Undecided Claims. The Alaska-Humes Group, located near Rabbit Ears Pass, produced ore from the Cretaceous Dakota Sandstone. The ore occurred as discontinuous pods or lenses of carnotite(?) in the sandstone, associated with carbonaceous layers.

The CPG Claims are located near the town of Hot Sulphur Springs. The property produced from the Coalmont Formation at the point where the formation rests on eroded Boulder Creek Granite and may be an unconformity-related type of occurrence.

The Undecided Claims, also known as the Beaver Group, lie near the town of Hot Sulphur Springs and are found in the Coalmont Formation. The mineralization, which is very similar to that at the CPG Claims, not only is associated with the contact between the Coalmont and the Boulder Creek Granite, but also is found in cracks and joints in the granite.

Potential for reserves to be found in the county is very good. Of the ten different rock types containing occurrences, those having the greatest potential are the Tertiary Troublesome Formation for sandstone-type occurrences; the basal Coalmont Formation, which may contain sandstone or unconformity-related types; and the Precambrian Idaho Springs Formation which contains occurrences that may be contact-metamorphic or anatectic.

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Alaska-Humes Group

LOCATION: SE1/4 sec. 20, T. 5 N., R. 82 W.
 LCRM Also in sec. 16, 21, 28, 29.
 QUAD Mount Werner 7 1/2' and Rabbit Ears Peak 7 1/2'
 MAP CRAIG
 DVEL Small open pit and trenches. Voss Oil Co. has drilled an estimated 150 holes for a total of 7,500 ft in 1955 - 1956.
 PROD In 1960 and 1964, a total of 47 tons of ore averaging 0.20% U308 and containing 192 lbs of U308 were produced. During 1963, 71 tons averaging 0.06% U308 and containing 81 lbs of U308 was also shipped but no payment was received.
 RNG To 10 x bg
 HOST Fine grained, upper sandstone member of the Cretaceous Dakota Sandstone.
 MNZ Carnotite is concentrated along close spaced "varve-like" carbonaceous laminae. Autunite is locally present in the silicified Dakota near contact with Mancos shale.
 RMKS Carbon is partly removed leaving layered vuggy casts. The mineralization is in these casts. Near the surface autunite is main mineral. 2.5 ft below surface only carnotite is present.
 DOI 1956
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Grand County, Colorado. Malan, R. C., 1957. Schlotmann, J. D., 1957 (DAO-5-TM-45).

Corral Creek Occurrence

LOCATION: sec. 36, T. 2 N., R. 79 W.
 QUAD Hot Sulphur Springs 15'
 MAP CRAIG
 DVEL There are numerous prospect pits in the area.
 RNG To 4 x bg
 HOST Miocene Troublesome Formation, white to brown, fine- to medium-grained, crossbedded, carbonaceous sandstone.
 MNZ Abundant jarosite stains.
 RMKS Source of radioactivity could not be determined.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Grand County, Colorado.

GPJ Claims (Lucky Jack Prospect)

LOCATION: S1/2SE1/4 sec. 15, T. 1 N., R. 78 W.
 QUAD Hot Sulphur Springs 15'
 MAP CRAIG
 DVEL There are trenches and a 38 ft long tunnel. Property was explored by Newmont Exploration.
 PROD 10 tons at a grade of 1.33% U308 is reported on the PRR. The Production Records show that in 1954, 10 tons mined at a grade of 0.35% U308 and 0.05% V205 producing 66 lbs of U308 and 10 lbs of V205.
 HOST The host is Paleocene Coalmont Formation, carbonaceous arkose, sandstone and conglomerate.

STRC Mineralization occurs in the regolith of the Coalmont where it rests on the Boulder Creek granite. There is faulting in the area.
 ALT Granite is shattered along fault and contains chlorite up to 2 ft away from the fault.
 MNZ Autunite in small lens of coaly material.
 RMKS Section was withdrawn from mineral entry by U.S. Dept. of Interior, Fish and Wildlife Service, October 1953 for a winter range for elk and moose.
 DOI 1956
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. Izett, G. A., 1968. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Grand County, Colorado. Malan, R. C., 1957.

Engles-Yust Property (Engals Ranch)

LOCATION: sec. 26, T. 1 N., R. 81 W.
 QUAD Kremmling 7 1/2'
 MAP CRAIG
 DVEL There is a 40 ft tunnel.
 HOST A basal black mudstone channel in the Cretaceous Dakota.
 MNZ Carnotite, a grab sample, had a value of 0.21% U308, a 3 ft channel sample had a value of 0.037% U308. There is abundant carbonaceous coaly matter in the host.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Grand County, Colorado.

First Chance

LOCATION: sec. 16, T. 1 N., R. 74 W.
 QUAD Monarch Lake 7 1/2'
 MAP GREELEY
 DVEL Small ore body developed, but no production.
 HOST The host is a Precambrian Idaho Springs Formation.
 MNZ Pitchblende or uraninite, scattered sulfides.
 RMKS This may be the Wheeler Basin occurrence as the description is very general.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Jerome Claims (Aikalle Flat Spring)

LOCATION: NW1/4NE1/4 sec. 32, T. 2 N., R. 79 W.
 LCRM Description notes a strong sulphur smell at the spring. This is probably Sulphur Spring noted on the topo map.
 QUAD Junction Butte 7 1/2'
 MAP CRAIG
 BKG ?
 RNG To 2.5 m/hr
 HOST Spring in Cretaceous Dakota (?) Sandstone.
 STRC Vertical fracture in sandstone strikes N30°E. Sandstone has been uplifted around a small Precambrian batholith 1/2 mile southeast of spring.
 MNZ Black material is being precipitated on sandstone and is radioactive. Grab sample had a value of 0.113% U308.
 RMKS Spring is warm, has strong sulphur smell, and a flow of 30 gal/min.
 DOI 1958 (?)
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Grand County, Colorado.

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Julie Johnson 1

LOCATION: SE1/4 sec. 29, T. 1 N., R. 74 W.
 QUAD Monarch Lake 7 1/2'
 MAP GREELEY
 RNG maximum of 0.2 mr/hr
 HOST Schist and apilite pegmatite dike in Precambrian Idaho Springs Formation. Dike is 8 ft wide.
 STRC Fractured zone along schist - pegmatite contact. Strike of dike is N70°E., dip 72°N.
 MNZ Uranium secondaries were found on a schist boulder downslope from the prospect.
 RMKS At the prospect radioactivity is confined to a fracture zone on the contact. Note occurrence in Wheeler Basin 3 miles to the northeast, and the Phillips #1 occurrence 1/4 mile to the west.
 DOI 1956
 REF U.S. A.E.C., 1956, Preliminary Reconnaissance Reports, Grand County, Colorado.

Lease #011850

LOCATION: sec. 15, T. 1 N., R. 78 W.
 LCRM Also sec. 21, 22.
 QUAD Hot Sulphur Springs 7 1/2'
 MAP CRAIG
 MNZ Uranium.
 RMKS Probably a similar occurrence to CPJ Claims.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File.

Limestone Occurrence

LOCATION: sec. 31, T. 1 S., R. 81 W.
 QUAD Gore Pass 7 1/2'
 MAP LEADVILLE
 RNG 3 x bg
 HOST Jurassic Morrison Formation, fracture petroliferous limestone, 2 - 4 ft thick.
 MNZ Manganese and iron stains on fractures.
 RMKS Outcrop traced for 400 yds, equally radioactive on all parts of the outcrop.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Grand County, Colorado.

Lucky Strike 5

LOCATION: sec. 29, T. 2 N., R. 79 W.
 QUAD Junction Butte 7 1/2'
 MAP CRAIG
 DVLE There are 5 test pits.
 BKG .03 mr/hr
 RNG 5.0 max. mr/hr
 HOST Miocene Troublesome Formation, fluvial clays and sands.
 MNZ Autunite, carnotite, jarosite. Channel samples had values from 0.01% to 0.14% U308. A 0.5 channel sample from an ore pile had a value of 0.20% U308.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Grand County, Colorado.

Lucky Strike Claims

LOCATION: sec. 31, T. 2 N., R. 79 W.
 LCRM Also sec. 32.

QUAD Junction Butte 7 1/2'
 MAP CRAIG
 DVLE There are some prospect pits.
 HOST Cold spring water deposits of iron and manganese oxides on Tertiary North Park Formation, sandstone and shale.
 MNZ Iron and manganese stains. Grab sample had a value of 0.11% eU.
 DOI 1950
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Grand County, Colorado.

Lynn No. 1

LOCATION: sec. 1, T. 1 N., R. 79 W.
 QUAD Parshall 7 1/2'
 MAP CRAIG
 DVLE There is a cut blasted in side of mountain.
 BKG .03 mr/hr
 RNG .03 to .1 mr/hr
 HOST Precambrian pegmatite in Boulder Creek Granite.
 STRC Pegmatite on upper thrust block of the Basques thrust fault system.
 MNZ Biotite, quartz, and orthoclase, radiation coming from biotite.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Grand County, Colorado.

No Name Claims

LOCATION: T. 3 S., R. 76 W.
 LCST UNSURVEYED
 LCRM Prospect is 0.5 miles west of Jones Pass and consists of cut in road bank.
 QUAD Byers Peak 7 1/2'
 MAP DENVER
 BKG .04 mr/hr
 RNG .04 to .3 mr/hr
 HOST Shear in Precambrian Silver Plume Granite.
 STRC Shear zone strikes S85°E, dip 45°-60°N.
 ALT Somewhat silicified and iron stained.
 MNZ Autunite, uranophane, 3.5 ft horizontal channel across ore zone gave reading of 0.3 mr/hr.
 DOI 1955
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Grand County, Colorado. Lovering, T. S., and Goddard, E. N., 1950.

Phillips 1

LOCATION: SW1/4 sec. 29, T. 1 N., R. 74 W.
 QUAD Monarch Lake 7 1/2'
 MAP GREELEY
 BKG .03 mr/hr
 RNG .03 to 1.0 mr/hr
 HOST Coarse-grained Tertiary monzonite dike in Precambrian Idaho Springs Formation.
 STRC Fracture.
 MNZ Autunite in fractures.
 RMKS All of dike gave readings of greater than 0.15 mr/hr.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Grand County, Colorado.

Phillip Stafford Property

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LOCATION: SW1/4 sec. 34, T. 1 S., R. 80 W.
 LCRM Spring is at edge of the Blue River.
 QUAD Mount Powell 15'
 MAP LEADVILLE
 RNG 4 x bg
 HOST Spring in river bottom alluvium near the
 Cretaceous Mancos Shale outcrop.
 RMKS Water has CO2 gas.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance
 Reports, Grand County, Colorado.

Pickering

LOCATION: sec. 30, T. 2 N., R. 79 W.
 QUAD Junction Butte 7 1/2'
 MAP CRAIG
 DVEL Auger drilling has been carried out behind
 outcrop. Little additional mineralization
 was found.
 BKG .03 mr/hr
 RNG 0.3 to 1.0 mr/hr
 HOST Mineralization is in a fluvial arkosic sandstone
 interfingered with tuffaceous clay. The
 sandstone is approximately 20 ft thick.
 STRC Impermeable clay occurs over sandstone containing
 mineralization.
 MNZ Carnotite, gypsum, jarosite, abundant carbon
 trash. A 1.2 ft channel sample had a value
 of 0.04% U308.
 RMKS Uranium occurs in rolls from 1 in. to 1
 ft in size. The rolls cross lens of sandstone
 and clay.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance
 Reports, Grand County, Colorado.

Tucker Mine

LOCATION: S1/2SW1/4 sec. 31, T. 2 N., R. 79 W.
 LCST UNSURVEYED
 QUAD Junction Butte 7 1/2'
 MAP CRAIG
 BKG .02 mr/hr
 RNG .2 - .25 mr/hr
 HOST The mineralization occurs in the Miocene
 North Park Formation, which is a white to
 tan, fine- to coarse-grained crossbedded
 sandstone.
 MNZ There is carbonaceous material and marcasite
 concretions in the host rock but no uranium
 minerals were identified.
 RMKS Ten other anomalies occur within 1/4 of
 a mile. Also a radioactive spring is 1/2
 mile east, and 2 anomalies are two miles away.
 DOI 1950-1958 (?)
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance
 Reports, Grand County, Colorado.

Undecided Claims (Beaver Group 1-20)

LOCATION: sec. 15, T. 1 N., R. 78 W.
 LCRM Also sec. 14, 21, 22.
 QUAD Hot Sulphur Springs 7 1/2'
 MAP CRAIG
 DVEL Discovered in 1954. This property was explored
 by Newmont Explorations, Ltd., Montrose,
 Colorado. There are trenches, tunnels and
 one shaft.

PROD For the Undecided 4 the U.S. A.E.C. Production
 Records show that in 1957, 161 tons were
 mined at a grade of 0.18% U308 producing
 579 lbs of U308.
 BKG .1 mr/hr
 RNG .1 - 4.0 mr/hr
 HOST Paleocene Coalmont Formation, carbonaceous
 arkose and sandstone. Ore occurred in a
 regolith of the Coalmont where it rests
 on Precambrian granite.
 STRC Radioactivity also occurs on joint planes
 in Precambrian granite below the unconformity.
 MNZ Autunite, limonite, carbonaceous matter.
 Samples had values from 0.27 to 0.076% U308.
 RMKS Area now closed to mineral entry by the
 U.S. Department of the Interior, Fish and
 Wildlife Service as a winter range for elk
 and moose.
 DOI 1954
 REF U.S. Geol. Survey, 1977, CRIB File. U.S.
 A.E.C., 1971, Production Records, Colorado.
 Izett, G. A., 1968. U.S. A.E.C., 1966, Preliminary
 Reconnaissance Reports, Grand County, Colorado.
 Malan, R. C., 1957.

Unnamed 2

LOCATION: NW1/4 sec. 23, T. 1 S., R. 82 W.
 LCRM Occurrence is near where the railroad crosses
 Blacktail Creek.
 QUAD Radium 7 1/2'
 MAP LEADVILLE
 BKG .03 mr/hr
 RNG .03 to .5 mr/hr
 HOST Mineralization occurs in the Jurassic Morrison
 Formation, in a channel arkosic pebble conglomerate
 in fluvial sandstone.
 MNZ Carnotite, brown carbon.
 RMKS The occurrence is in a railroad cut.
 DOI 1950-1958?
 REF U.S. Geol. Survey, 1977, CRIB File, U.S.
 A.E.C., 1966, Preliminary Reconnaissance
 Reports, Grand County, Colorado.

Unnamed 3

LOCATION: sec. 33, T. 1 1/2 N., R. 80 W.
 QUAD Junction Butte 7 1/2'
 MAP CRAIG
 RNG Maximum of .25 mr/hr
 HOST Miocene Troublesome Formation. An interbedded
 sandstone and clay with abundant carbonaceous
 material.
 STRC Paleostream channel.
 MNZ Jarosite, gypsum, iron sulfide, uranium?
 RMKS Reported as high radioactivity, no uranium
 minerals reported.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance
 Reports, Grand County, Colorado.

Unnamed 5

LOCATION: sec. 14, T. 1 N., R. 74 W.
 LCRM Also sec. 28, 29, T. 1 N., R. 75 W.
 QUAD Monarch Lake 7 1/2'
 MAP GREELEY
 HOST Vein in Precambrian metamorphics.
 RMKS This is a very general description. It

GRAND COUNTY

possibly covers the Wheeler Basin, Julie Johnson, and Phillips #1 occurrences.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File.

Unnamed 7

LOCATION: sec. 1, T. 3 S., R. 75 W.
 LCST UNSURVEYED
 LCRM Also in sec. 11. Occurrence is near the Continental Divide and Clear Creek County line.
 QUAD Empire 7 1/2'
 MAP DENVER
 HOST Vein in Precambrian metamorphics.
 MNZ Uranium.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File.

Unnamed 8

LOCATION: sec. 32, T. 2 N., R. 76 W.
 QUAD Granby 7 1/2'
 MAP GREELEY
 HOST Bedded type of mineralization.
 MNZ Uranium.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File.

Unnamed 9

LOCATION: NE1/4SW1/4 sec. 26, T. 1 N., R. 81 W.
 LCRM This is near the Engles - Yust property.
 QUAD Kremmling 7 1/2'
 MAP CRAIG
 HOST Vein.
 MNZ Uranium.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File.

Unnamed 10

LOCATION: NW1/4NW1/4 sec. 1, T. 1 N., R. 79 W.
 LCRM At an elevation of 7,980-8,000 ft.
 QUAD Hot Sulphur Springs 15'
 MAP CRAIG
 HOST Miocene Troublesome Formation.
 MNZ Uranium.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. Malan, R. C., 1957.

Unnamed 11

LOCATION: NW1/4 sec. 1, T. 1 N., R. 79 W.
 QUAD Junction Butte 7 1/2', Parshall 7 1/2'
 MAP CRAIG
 PROD Reported 700 lbs mined at a grade of 1.34% U308, and 3.25 V205, no record with U.S. A.E.C.
 MNZ Uranium, vanadium.
 RMKS This is a continuation of the Corral Creek mineralization.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. Schlottmann, J. D., and Smith, L. E., 1954, (RME-1042).

Unnamed 14

LOCATION: N1/2S1/2SE1/4 sec. 21, T. 2 N., R. 79 W.
 QUAD Hot Sulphur Springs 15'
 MAP CRAIG
 HOST Miocene Troublesome Formation.
 MNZ Uranium.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. Malan, R. C., 1957.

Unnamed 15

LOCATION: sec. 6, T. 2 S., R. 74 W.
 LCST UNSURVEYED
 LCRM The deposit lies 2 1/2 miles northwest of Apex.
 QUAD East Portal 7 1/2'
 MAP DENVER
 DYEL No production took place on this property.
 HOST The deposit lies in a vein cutting a Precambrian quartz biotite gneiss, probably of the Idaho Quartz Formation.
 MNZ Pitchblende was discovered at the occurrence.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K., and Sheridan, D. M., 1964.

Wheeler Basin (Bennett Mine)

LOCATION: sec. 23, T. 1 N., R. 74 W.
 LCST UNSURVEYED
 QUAD Monarch Lake 7 1/2'
 MAP GREELEY
 DYEL One 32 foot adit was opened in 1956. Prospect has been evaluated by various companies, Texas Gulf Sulphur was mentioned in Young and Hauff, 1975.
 BKG 380 to 600 cps
 RNG 10,000 cps
 HOST Precambrian Idaho Springs Formation, migmatized gneiss, mixed gneiss and pegmatite, and pegmatite. All closely associated with the Silver Plume Granite.
 STRC The pegmatites do not conform to the regional foliation.
 MNZ Curite, fourmarierite, uranophane, monazite, uraninite, and zircon.
 RMKS Mineralization is concentrated in biotite rich areas. Wheeler Basin has been compared to the Rossing uranium deposit in S.W. Africa, and is an important type of occurrence to be found in Colorado.
 DOI 1977
 REF Nishimori, and others, 1977. Young, and Hauff, 1975. Ludwig, and Young, 1975.

GUNNISON COUNTY

Uranium production from Gunnison County has been large relative to most other counties in the state. By 1971, 8,679 tons of ore had been mined that contained 72,557 lb of U_3O_8 . Excellent potential exists for more reserves in the county.

The geology of the county is quite diverse. Extrusive and intrusive rocks of the Elk Mountains dominate the northern part of the area. The Sawatch Range with its Precambrian rocks, Tertiary Intrusives, and interspersed lower Paleozoic rocks lies along the eastern side. Precambrian, lower Paleozoic and Tertiary extrusives are found along the valley of the Gunnison River which flows generally westward through the center of the county. The San Juan Mountains extend into the southern panhandle of the county, exposing Precambrian alkalic rocks in the Powderhorn area and Tertiary extrusives farther south.

The three deposits in the county that have produced uranium include Big Red 22, Brown Derby Mine, and Little Indian 36. The most important producer (95 percent of total) within the county is the Little Indian 36 Mine. Production from this deposit totaled 8,679 tons of ore and 7,762 lb of U_3O_8 . The Little Indian Mine, located in the Marshall Pass uranium

district, is associated with the Chester Fault and lies near the Pitch Mine in Saguache County. Production from the Little Indian was from a vertical dipping zone in the Ordovician Harding Quartzite. The most abundant ore mineral was uranophane.

Potential for more reserves to be found within the county is very good. The Cochetopa and Marshall Pass areas show favorable potential for new reserves, especially along extensions of ore bodies from the uranium-producing area in Saguache County. Another very important type of radioactive occurrence is found in the Powderhorn region where thorium, with uranium in subordinate amounts, is concentrated in veins within Precambrian rocks. Powderhorn is one of the two thorium districts in the state; the other is in Custer County. These are also two of the few thorium districts in the United States. If the demand for thorium increases drastically in the future, Powderhorn will become a major area of exploration for, if not production of, thorium. The alkaline rocks of this district are now being studied in conjunction with potential uranium resource rocks throughout the world. (See Murphy, M., and others, 1978, Uranium in Alkaline Rocks, U.S. Department of Energy, GJBX-(78)78, 185 p. which was published as this publication went to press).

GUNNISON COUNTY

Atlantic Richfield Drill Hole

LOCATION: sec. 28, T. 13 S., R. 90 W.
 QUAD Somerset 7 1/2'
 MAP MONTROSE
 DVEL This was an anomaly from a core hole.
 PROD Anomaly was reported to be 15.0 ft at a grade of 0.017% U308.
 HOST The host is a sandstone in the Cretaceous Mesaverde Group.
 MNZ The mineralization occurs within a gray, medium- to fine-grained sandstone above the lower coal and between two thin coal seams 200 ft above the Rollins Sandstone.
 RMKS The core hole was drilled during a coal evaluation on Atlantic Richfield's properties.
 DOI 1977
 REF Atlantic Richfield, 1977.

Badger 1

LOCATION: sec. 5, T. 47 N., R. 2 W.
 LCST UNCERTAIN
 LCRM Original directions are as follows: "From US 50, south on Colorado 149 10 miles, then northwest 2 miles to sec. 5 along Jeep road."
 QUAD Powderhorn 7 1/2'
 MAP MONTROSE
 DVEL There is one small open cut reported.
 BKG .04 mr/hr
 RNG To .2 mr/hr
 HOST Vein in Precambrian granite, schists and gneisses contains the anomalies.
 STRC Structure trends northwest.
 MNZ Abundant quartz, barite and hematite - ilmenite staining, some thorite(?) and rare earths. No sulfides were observed.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gunnison County, Colorado.

Big Red 22

LOCATION: SW1/4 sec. 10, T. 49 N., R. 5 E.
 QUAD Garfield 15'
 MAP MONTROSE
 DVEL Production at this property was from underground workings via an incline shaft.
 PROD In 1959 and 1960, 127 tons were mined at a grade of 0.22% U308, and containing 557 lbs U308.
 HOST Ordovician Harding Quartzite contains the mineralization. The quartzite is a remnant on a fault surrounded by Precambrian granite.
 STRC The remnant occurs in the footwall of a reverse fault.
 MNZ Autunite. One mile north, Paleozoic rocks on the same fault contain Pb-Zn deposits.
 DOI 1972
 REF R. C. Malan, 1978, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. J. Olson, 1977, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado.

Big Red 39

LOCATION: NW1/4 sec. 10, T. 49 N., R. 5 E.
 QUAD Garfield 15'
 DVEL No reported production to date.
 HOST Cambrian Sawatch Quartzite Inlier surrounded by Precambrian granite of Boulder Creek granite age (1700 MY).
 STRC The remnant lies on the footwall of a reverse fault.
 MNZ Thorium is 3 times as abundant as uranium at this prospect. One-half mile south at Big Red 22 uranium was the only important mineral. One-half mile north Paleozoic rocks along the fault contain Pb-Zn deposits.
 RMKS Big Red 22 and 39 are on separate remnants of Sawatch Quartzite.
 DOI 1959
 REF R. C. Malan, 1978, Personal Communication.

Black Mica Company?

LCCATION: sec. 12, T. 46 N., R. 2 W.
 LCST UNCERTAIN
 QUAD Powderhorn 7 1/2'
 MAP MONTROSE
 DVEL Occurrence is a vermiculite mine.
 HOST Mineralization occurs in carbonate vein in Precambrian pyroxenite.
 MNZ Thorite? One sample had a value of 0.03% ThO2.
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gunnison County, Colorado. Larsen, E. S., 1942.

Brown Derby Mine

LOCATION: NE1/4 sec. 3, T. 49 N., R. 3 E.
 LCRM SE1/4 sec. 34, T. 49 N., R. 3 E. is also covered by claims. The mine is east of Quartz Creek.
 DVEL An open cut with an inclined shaft and underground workings.
 PROD In 1944, 400 tons of finished lepidolite and microlite containing 4,000 lbs of Ta2O5 and 238 lbs of U308 were produced.
 HOST Large zoned pegmatite in a Precambrian meta-diorite. Three parallel dikes strike N10° - 45°E and dip 20°-30° to the southeast. Dikes are 11 ft wide and extend for as much as 1,300 ft. Average distance between dikes is 75 ft.
 MNZ Quartz, microlite, lepidolite, topaz, albite, beryl, tourmaline, muscovite, minor biotite, magnetite, monazite, and columbite. Uranium is associated with the microlite. Hand samples assayed 5.44% to 6.04% U308.
 DOI 1945
 REF Heinrich, E. W.; and others, 1958. Heinrich, E. W., and Dahlem, D. H., 1957. Guillolette, G. B., 1945.

Brush Creek Group (Brush Creek Mining Co.)

LOCATION: sec. 13, T. 13 S., R. 85 W.
 LCRM In the CRIB report, the location is noted as section ?, T. 12 S., R. 85 W.
 QUAD Pearl Pass 7 1/2'
 MAP MONTROSE
 DVEL This is an explored prospect.

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MNZ Uranium, copper, lead, zinc, gold, silver, germanium were found at the prospect.
 RMKS Patented claim.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File.

Buzzard's Roost (Pento)

LOCATION: sec. 36, T. 48 N., R. 3 W.
 LCST UNCERTAIN
 LCRM ORIGINAL directions are as follows: "From town of Ida, travel south on Colorado 149 for 9 miles, then west 3 miles down very steep jeep road. Deposit is on side of very steep stream valley." Location was given as sec. 12, T. 47 N., R. 3 W. Only mine on the map in the area is in section given above. There is a building located on Cabolla Creek in the SW1/4 sec. 7, T. 47 N., R. 2 W. which might be the occurrence also. The Pento property was described on a different reconnaissance report. However, the location and direction to the deposit are the same as the Buzzard's Roost. Three tunnels are reported from the Pento locality.
 QUAD Gateview 7 1/2'
 MAP MONTROSE
 DVEL There are some old workings that are now caved. They were worked for gold.
 BKG None reported.
 RNG To .7 mr/hr
 HOST Vein in Precambrian granite and schists.
 MNZ Quartz, barite, abundant ilmonite, hematite, calcite.
 RMKS Radioactivity probably due to thorium.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Report, Gunnison County, Colorado.

Czar 3

LOCATION: sec. 6, T. 47 N., R. 2 W.
 LCST UNCERTAIN
 QUAD Gateview 7 1/2'
 MAP MONTROSE
 DVEL There are no previous workings.
 BKG .25 mr/hr
 RNG To .5 mr/hr
 HOST Vein in Precambrian granite, schist, and gneiss overlain by felsic volcanics.
 MNZ Hematite, ilmonite, quartz, barite, and rare earths.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gunnison County, Colorado.

Gray Jeep Group

LOCATION: NW1/4 sec. 19, T. 48 N., R. 2 W.
 QUAD Big Mesa 7 1/2'
 MAP MONTROSE
 DVEL There are two shafts and several trenches.
 BKG .02 mr/hr
 RNG .08 to 2.0 mr/hr
 HOST Vein in Precambrian biotite schist.
 STRC Vein strikes N47°W and dips 38°SE.
 ALT Mafic minerals have been altered and kaolinized near the vein.

MNZ Pyrolusite and a reddish brown mineral (thorite?).
 DOI 1955
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Report, Gunnison County, Colorado. Hunter, J. F., 1925.

Jacks Cabin Area (North Star Claims)

LOCATION: SW1/4 sec. 17, T. 15 S., R. 84 W.
 QUAD Almont 7 1/2'
 MAP MONTROSE
 DVEL There are several prospects and one adit.
 HOST Paleozoic sedimentary rocks in fault contact with Precambrian granite and metasediments. Uranium occurs in both the sediments and the Precambrian rocks. Area was first prospected for copper.
 STRC Fault or shear zone (thrust fault), North Star Fault.
 MNZ A 0.015% U308 assay is reported.
 RMKS Geology of this occurrence is very similar to Marshall Pass area. This area should not be confused with the "North Star Group" which is an occurrence in the Powderhorn area.
 REF R. C. Malan, 1978, Personal Communication. David Wolf, 1977, Personal Communication. Maurice Brady, 1977, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado.

Jeanie 6 & 2

LOCATION: sec. 16, T. 47 N., R. 2 W.
 LCST UNCERTAIN
 LCRM Probably in the center of the section, 1,000 ft west of the highway.
 QUAD Powderhorn 7 1/2'
 MAP MONTROSE
 DVEL Area was most likely prospected for gold.
 HOST The vein is in a pink quartzite. A 5-ft wide dike lies along one side of the vein for 400 ft.
 MNZ Quartz, ilmonite, (thorite?). Two samples had values of eU308 of 0.014 and 0.018 but cU308 of 0.001.
 RMKS Reported in two Preliminary Reconnaissance Reports.
 DOI 1950
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gunnison County, Colorado.

Jenny Claims

LOCATION: sec. 7, T. 12 S., R. 86 W.
 LCRM Also reported in sec. 18.
 QUAD Snowmass 7 1/2'
 MAP LEADVILLE
 HOST Bedded replacement in Cretaceous Mancos and Dakota Formations.
 MNZ U, Pb, Zn, Cu.
 DOI 1977
 REF U.S. Geol. Survey, 1977, CRIB File.

Lady in Red Shaft (Lady in Red No. 5)

LOCATION: SW1/4 sec. 8, T. 47 N., R. 2 W.
 LCST UNCERTAIN
 LCRM There are two reconnaissance reports, one

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location is in sec. 7, the other is given above.

QUAD Powderhorn 7 1/2'
 MAP MONTROSE
 BKG .05 mr/hr
 RNG To .4 mr/hr
 HOST Vein in Precambrian granite, schists and gneiss.
 STRC Vein strikes N45°W.
 MNZ Hematite, ilmonite, quartz, barite, rare earths, (thorite?).
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gunnison County, Colorado.

Little Indian No. 36

LOCATION: sec. 9, T. 48 N., R. 6 E.
 QUAD Pahlone Peak 7 1/2'
 MAP MONTROSE
 PROD Prior to 1971, 8,152 tons had been mined at a grade of 0.44% U3O8 producing 71,762 lbs.
 HOST The host is the Ordovician Harding Quartzite. The mineralization is contained in a 4.5 ft carbonaceous zone in a fossiliferous silty sandstone.
 STRC The quartzite is very steeply dipping and the ore occurs in a vertical interval from surface to 250 ft.
 MNZ The ore was mostly oxidized. Uranophane was the most abundant mineral. Other minerals found were autunite, gummite, boltwodite, and uraninite. The uraninite was tentatively dated at 40 to 60 million years in age.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. Malan, R. C., and others, 1961. Malan, R. C., 1959. Ranspot, H. W., 1958.

Little Johnnie 1 and 2

LOCATION: sec. 15, T. 47 N., R. 2 W.
 LCST UNCERTAIN
 QUAD Powderhorn 7 1/2'
 MAP MONTROSE
 DYEL Area was originally prospected for gold.
 HOST Vein in Precambrian schist.
 MNZ Quartz, ilmonite. One sample had values of 2.29% ThO2, 0.50% rare earths 203.
 DOI 1950
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gunnison County, Colorado.

Matchless Group

LOCATION: sec. 19, T. 13 S., R. 82 W.
 LCST UNSURVEYED
 LCRM "Pits can be seen from road near Dinner Station Campground on the opposite side of the creek located in the center of sec. 19."
 QUAD Pieplant 7 1/2'
 MAP MONTROSE
 BKG .02 mr/hr
 RNG .04 to .45 mr/hr
 HOST Quartz vein in Precambrian complex of igneous and metamorphic rocks.

STRC Vein is two ft thick and strikes N300°W and dips 37°- 57°E.
 MNZ Abundant copper minerals (Chalcopyrite, malachite, azurite), autunite?. Owner reported values of 2% U and 6% Cu.
 DOI 1956
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gunnison County, Colorado.

May Queen

LOCATION: sec. 18, T. 47 N., R. 2 W.
 LCST UNCERTAIN
 QUAD Gateview 7 1/2'
 MAP MONTROSE
 DVEL Reported mined for lead.
 BKG .05 mr/hr
 RNG To .8 mr/hr
 HOST Vein in Precambrian schists, gneiss, and granite.
 MNZ Thorite?, galena in a quartz, barite gangue.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gunnison County, Colorado.

Mrs. Roberts Deeded Land

LOCATION: NW1/4 sec. 15, T. 47 N., R. 2 W.
 LCST UNCERTAIN
 LCRM Original directions to deposit are as follows: "From the junction of US 50 and state highway 149, 10 miles west of Gunnison, go south on 147 for 10.5 miles; turn left and go 0.1 mile; take left fork and go 0.9 mile; proceed past ranch house on road trending south and go 0.1 mile to area of dozed trenches". The occurrence was originally located in sec. 10.
 QUAD Powderhorn 7 1/2'
 MAP MONTROSE
 DVEL Dozing and trenching have been carried out over a distance of 250 ft.
 BKG .02 mr/hr
 RNG .5 to 1.5 mr/hr
 HOST Shear zone in Precambrian biotite gneiss.
 STRC Strike of shear zone is N72°E and dip is near vertical.
 ALT Zone is reported to be heavily altered.
 MNZ Thorite, no visible uranium minerals. Following is data on channel samples: sample 1.3 ft long, 1.0 mr/hr, 0.072% eU3O8, 0.048% U3O8, 0.11% eThO2; sample 1.1 ft long, 0.7 mr/hr, 0.119% eU3O8, 0.28% U3O8; sample 1.2 ft long, 2.0 mr/hr, 1.11% eU3O8, 0.002% U3O8, 5.35% eThO2, 4.77% ThO2; sample 1.7 ft long; 0.6 mr/hr, 0.097% eU3O8, 0.056% U3O8, 0.20% eThO2; sample 1.3 ft long, 1.6 mr/hr, 0.087% eU3O8, 0.078% U3O8, 0.046% eThO2; sample 1.1 ft long, 1.0 mr/hr, 0.17% eU3O8, 0.012% U3O8, 0.74% eThO2.
 RMKS The radioactive highs are very localized and spotty along strike.
 DOI 1955
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gunnison County, Colorado.

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North Star Group

LOCATION: SW1/4 sec. 4, T. 48 N., R. 2 W.
 LCRM Near Dutchman Gulch.
 QUAD Big Mesa 7 1/2'
 MAP MONTROSE
 DVEL Pits.
 HOST Quartz veins and granitic dikes in Precambrian schist and amphibolite gneiss.
 RMKS Also mentioned as uranium occurrence in Colorado Bureau of Mines Annual Report for 1959 by G. A. Franz, Jr. on page 72.
 DOI 1977
 REF Maxwell, J. C., 1977, U.S. Geol. Survey, 1977, CRIB File.

Saverne

LOCATION: NE1/4NW1/4 sec. 24, T. 14 S., R. 85 W.
 QUAD Cement Mountain 7 1/2'
 MAP MONTROSE
 DVEL There has been reported a small amount of production of gold. There is one 150 ft tunnel and a 30 ft winze. There is another adit 600 ft uphill on the same fault.
 BKG .12 mr/hr
 RNG .12 to .35 mr/hr
 HOST Fault in Precambrian granite.
 ALT There is abundant kaolinization.
 MNZ Quartz and carbonate gangue, purple fluorite, the radioactive materials are unidentified. There were no sulfides observed.
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gunnison County.

Silent Friend

LOCATION: SW1/4 sec. 25, T. 51 N., R. 4 E.
 LCRM Original directions to deposit as follows: "at point 3/4 miles south of Halls Gulch on Colorado State Highway 162 proceed due west up steep slope for 1,000 ft raise in elevation."
 QUAD Garfield 15'
 MAP MONTROSE
 DVEL This is an old silver, gold mining district. There are an estimated 2,000 ft of underground workings in the mine.
 RNG To 4 x bg
 HOST Ordovician Fremont Formation, vein in dolomite with carbonaceous shale lenses.
 MNZ Galena, sphalerite, chalcopyrite, pyrite, anglesite, cerussite, malachite, smithsonite, calcite, and quartz. Two samples had the following values: grab including country rock, 0.038% eU308, 0.038% U308, selected radioactive shale with minor dolomite country rock, 0.089% eU308, 0.067% U308.
 RMKS Radioactivity is closely associated with ore and gangue.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Gunnison County, Colorado.

Sunset Claims

LOCATION: sec. 7, T. 47 N., R. 1 W.
 QUAD Powderhorn 7 1/2'
 MAP MONTROSE

HOST Vein fractures in Precambrian granite.
 MNZ Uranium, thorium, gold, pyrite.
 DOI 1977
 REF U.S. Geol. Survey, 1977, CRIB File.

Surefire Mining Claims

LOCATION: sec. 25, T. 49 N., R. 2 E.
 LCRM The claims also cover sec. 30 N., R. 3 E.
 QUAD Houston Gulch 7 1/2'
 MAP MONTROSE
 PROD Collected float samples had a va to 2.0% U308.
 HOST Sandstone of the Jurassic Morrison
 STRC Fractures.
 MNZ Autunite.
 REF Atlantic Richfield Co., 1977.

Ten Mile Group (Claims 1, 2, 3, Holman Cla

LOCATION: sec. 22, T. 48 N., R. 3 W.
 LCST UNCERTAIN
 LCRM Original directions to deposit are: "From Blue Mesa service station near on US 50 turn south on dirt rd ml. Take right road fork 1.1 ml #3. Take left fork, from main #2 claim, continue 1.5 ml. on to #1 claim."
 QUAD Carpenter Ridge 7 1/2'
 MAP MONTROSE
 DVEL Claim #1 is on site of an abandon mine.
 BKG .02 mr/hr
 RNG .02 to .15 mr/hr
 HOST Silicified brecciated iron-sta in Precambrian schists. There are quartz dikes throughout the area.
 STRC Vein is 5 ft wide and strikes N30°W.
 MNZ Thorite?
 DOI 1955
 REF U.S. A.E.C., 1966, Preliminary Recon Reports, Gunnison County, Colorado J. F., 1925.

Wayne Wright Propsect (Adair Group, Dubols I

LOCATION: sec. 2, T. 47 N., R. 3 W.
 LCST UNCERTAIN
 LCRM Original location was with R. 3 Included in this reconnaissance 3 and 10.
 QUAD Gateview 7 1/2'
 MAP MONTROSE
 DVEL Gold mining area with limited p reported in the 1880's.
 BKG .04 mr/hr
 RNG To 2.5 mr/hr
 HOST Vein zones in Precambrian schist and granite.
 STRC Veins strike in a northerly direction
 MNZ Veins are highly iron stained with ilmonite, quartz, barite, small of rare earth minerals, and thorite sulfides were observed.
 RMKS Two Preliminary Reconnaissance Report this area.

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DOI 1954
REF U.S. A.E.C., 1966, Preliminary Reconnaissance
Reports, Gunnison County, Colorado.

HINSDALE COUNTY

Production from this county has been extremely small. Between 1958 and 1961, 18 tons of ore were mined that yielded 68 lb of U_3O_8 . Potential for more reserves in the county is also small.

The county is entirely within the San Juan Mountains uplift. This uplift and the accompanying Tertiary volcanic activity resulted in extensive extrusive and intrusive rocks. Along the southern edge of the county Paleozoic and Mesozoic rocks dip away from the uplift and into the San Juan Basin. The volcanic activity created several large volcanic caldera systems that contain important producers of base and precious metals within the county.

The one producer of uranium in the county was the Beth Group, located in the northwestern part of the county north of Henson Creek. Production was

from veins and disseminations in a fractured rhyolite porphyry stock that had intruded the Tertiary volcanic rocks. This intrusive stock is one of a series that forms a belt 1.5 mile wide and 8 miles long. Fifteen uranium occurrences have been reported in this belt, but they are not documented.

The potential for uranium reserves within the county is low. The volcanic rocks that cover most of the county are not considered favorable hosts for uranium deposits. However, some deposits are known in volcanogenic rocks, but they will require more study. The belt of rhyolite intrusives that contain the Beth Group has the highest potential for reserves. A major company has explored the claims but has taken no action.

HINSDALE COUNTY

Bess

LOCATION: T. 44 N., R. 5 W.
 LCST UNLOCATABLE
 QUAD Uncompahgre Peak 7 1/2', Lake City 7 1/2'
 MAP MONTROSE
 MNZ Uranium.
 RMKS Because of paucity of data and name, it is possible this is really the Beth Group.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. Franz, G. A., 1961.

Beth Group

LOCATION: NW1/4 sec. 19, T. 44 N., R. 5 W.
 LCST UNSURVEYED
 LCRM Located on the south slope of Uncompahgre Peak. The location is further described as being 38°03'N, 107°27'W.
 QUAD Uncompahgre Peak 7 1/2'
 DVEL Exxon has carried out diamond drilling on the property in 1974-1975? A small amount of ore is reported shipped from the occurrence about 1960.
 PROD In 1958 and 1961, a total of 18 tons had been mined at a grade of 0.20% U3O8, containing 68 lbs of U3O8.
 HOST Veins and fractures in rhyolite porphyry intruded into Tertiary volcanics. The rhyolite is reported to be deficient in mafic minerals and almost an alaskite in composition.
 STRC Rhyolite intrusions form a belt about 1/2 mile wide by 8 miles long. The mineralization is located in fractures or stockworks in the rhyolite near the margin of the intrusion.
 MNZ Uranophane, pitchblende. It is reported there are 15 uranium prospects in this belt. Other prospect names mentioned for which we have no location data are El Paso and Red Rocks.
 RMKS The claims are owned by Joe Hersey of Gunnison, Colorado as of 1977.
 DOI 1977
 REF R. C. Malan, 1978, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C.; 1971, Production Records, Colorado. Fischer, R. P., and others, 1968.

Eagle Claims 1-5 (Eagle, Mary Alice)

LOCATION: sec. 33, T. 44 N., R. 6 W.
 LCST UNSURVEYED
 LCRM Directions to occurrences are as follows: "From Lake City go west up Henson Creek road for 10.7 miles, turn right (about 1/4 mile west of large brick bldg. at Capitol City) and follow main traveled road for 2.7 miles, the prospect lies 200 yds immediately ahead." The prospect is at an elevation of 11,000 ft on the steep slope on the north side of the north fork of Henson Creek.
 QUAD Wetterhorn 7 1/2'
 MAP MONTROSE
 DVEL Access road and two small pits have been built by the American Uranium Corp. of Moab,

Utah. Also some shallow drilling has been reported.

BKG .02 mr/hr
 RNG .02 to .3 mr/hr
 HOST Breccia of intruded rhyolite porphyry and well rock.
 MNZ At shallow depths the breccia contains local large irregular pockets of abundant uranophane.
 DOI 1959
 REF R. C. Malan, 1978, Personal Communication. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Hinsdale County, Colorado.

Golden Fleece

LOCATION: NE1/4SW1/4 sec. 15, T. 43 N., R. 4 W.
 QUAD Lake San Cristobal 7 1/2'
 MAP DURANGO
 HOST Vein in Tertiary volcanics.
 MNZ Gold, silver, copper, lead, zinc, and uranium.
 RMKS "Wherever there was high count on the gelger counter gold and silver were found."
 DOI 1977
 REF U.S. Geol. Survey, 1977, CRIB File. Charles Maritz, 1977, Personal Communication. Franz, G. A., 1963, Colo. Bur. Mines Ann. Rept. Irving, J. D., and Bancroft, H., 1911.

Jody Claims 1-5 (Belson-Gibfrey Claim, Ranger No. 2 Claim)

LOCATION: sec. 17, T. 44 N., R. 5 W.
 LCST UNCERTAIN
 LCRM The original directions are as follows: "Proceed west from Lake City on Henson Creek Road 6 miles to Uncompahgre Trail. Follow trail 5 miles to prospect". From the description it is possible the trail and occurrences are on or near Nellie Creek.
 QUAD Uncompahgre Peak 7 1/2'
 MAP MONTROSE
 DVEL Small amount of ore developed, no production.
 BKG .06 mr/hr
 RNG .4 to 7.0 mr/hr
 HOST Yug fillings and fracture fillings in the Burn Quartz Latite of Tertiary age.
 STRC The mineralization occurs near the contact of the latite with a thin bedded sandy shale, a member of the Burn Quartz Latite.
 MNZ Uranophane, no other minerals noted.
 DOI 1956
 REF U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Hinsdale County, Colorado. Larsen, E. S., Jr., Cross, Whitman, 1956.

Nellie M Mine

LOCATION: SE1/4SW1/4 sec. 33, T. 44 N., R. 4 W.
 LCST UNCERTAIN
 LCRM Mine in above location is named the Fancy Fern Mine; however, there are two other prospects nearby.
 QUAD Lake City 7 1/2'
 MAP MONTROSE
 HOST Vein in Tertiary volcanic rocks.
 MNZ Merely noted as being an uranium occurrence, with zinc, copper, and silver.
 RMKS Occurrence reported by Walter E. Scott,

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Jr. In Colorado Bureau of Mines Annual Report 1958, p. 24 and was owned by the Gunnison Mining Company.

DOI 1958
REF U.S. Geol. Survey, 1977, CRIB File. Franz, G. A., 1958, Colo. Bur. of Mines Ann. Rept., p. 63. Burbank, W. S., 1947.

Rio Grande Claims 1-10

LOCATION: sec. 35, T. 41 N., R. 5 W.

LCST UNSURVEYED

LCRM Directions to occurrence are as follows: "Travel on Colorado 149 for 20.0 miles west of Creede to road junction. Take left fork and follow improved dirt road past Rio Grande Reservoir for 2.1 miles to prospect. Prospect lies 100 yds south of road." A prospect which may be this one is shown near the Rio Grande River in the southwest corner of the Pole Creek Mountain map.

QUAD Pole Creek Mountain 7 1/2', Finger Mesa 7 1/2'
MAP DURANGO

DVEL There were two small pits at time of examination. Owner at time of reconnaissance report was C. C. Wetherill of the nearby Lost Trail Ranch.

BKG .05 gr/hr

RNG .2 to .3 gr/hr

HOST Fractures? In a small outcrop of Precambrian Eolus Granite which is surrounded on all sides by Tertiary volcanics.

MNZ Autunite.

DOI 1955

REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Hinsdale County, Colorado.

HUERFANO COUNTY

Production in the county has been small. Records show that 517 tons of ore were mined, but only 33 lb of U_3O_8 were produced. This low yield was due to the fact that a large amount of the mined ore was not amenable to processing methods at the time. Still the potential for reserves to be found in the county is high.

Complicated structures and varied rock types characterize the geology of the county. Precambrian rocks are exposed in the Sangre de Cristo and Culebra Ranges on the west side and in the Wet Mountains on the north side. A full section of Paleozoic through Cenozoic rocks are exposed on the sides of the ranges and in the Raton Basin. The famous Spanish Peaks, remnants of Middle Tertiary intrusives, lie on the border between Las Animas and Huerfano Counties.

The three deposits that have recorded production are Anal No. 1, Badito Cone, and Columbine Hills. The Anal No. 1 Deposit produced from beds within the

Tertiary Farasita Conglomerate. Although many occurrences are known in the Farasita Conglomerate, this is the only deposit that produced any uranium.

Badito Cone, or Stumbling Stud Pit as the mine is known, is on the south side of the Badito Cone phonolite intrusion. Production at the site has come from inliers of the Cretaceous Dakota and Jurassic Morrison Formations. The mined ore yielded no U_3O_8 because the uranium was chemically bound to a refractory mineral. Dark purple fluorite and metallic zirconium are associated with the uranium.

The last producer is the Columbine Hills Property, for which no location is known. Only one ton of ore was mined from this property.

High potential exists for new reserves of uranium in this county. The Farasita Conglomerate is the most favorable unit in the county and would contain sandstone-type occurrences.

HUERFANO COUNTY

Anal No. 1, (Security Exploration Company Claim, Buckhorn, Mitzy, M.P. Nos. 1-9)

LOCATION: sec. 17, T. 25 S., R. 70 W.
 LCRM Other sections quoted in references were 4, 5, 8, 9, 10 and 16.
 MAP TRINIDAD
 PROD In 1955 and 1956, a total of 6 tons were mined at a grade of 0.28% U308, producing 33 lbs of U308 and 0.55% V205, producing 6 lbs V205.
 BKG .03 mr/hr
 RNG 2.5 to +5 mr/hr
 HOST Grayish, ilmonite-stained, carbonaceous, medium-grained shale, interbedded with small lenses of medium- to coarse-grained, ilmonite-stained, quartzitic, arkosic sandstone in the Eocene Fortsita Conglomerate.
 MNZ Autunite was the only uranium mineral identified.
 DOI 1956
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Huerfano County, Colorado.

Badito Cone (Stumbling Stud Mine)

LOCATION: sec. 20, T. 26 S., R. 68 W.
 QUAD Badito Cone 7 1/2', Hayden Butte 7 1/2'
 MAP TRINIDAD
 DVEL Production was all from the Dakota Sandstone.
 PROD The U.S. A.E.C. Preliminary Reconnaissance Reports show that 510 tons were mined at a grade of 0.13% U308 and 0.009% V205.
 HOST The mineralization occurs as veins and disseminations in a Tertiary rhyolite intrusion and Cretaceous Dakota Sandstone and Jurassic Morrison Formation.
 STRC The intrusion is in the crest of the Greenhorn anticline.
 ALT The sandstone is baked and silicified and contains abundant fluorite.
 MNZ The mineralization is associated with fluorite and metallic zirconium. Uranium mineral possibly coffinite. The rhyolite has an average value of 12 ppm (U).
 DOI 1977
 REF R. C. Malan, 1978, Personal Communication. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. Atlantic Richfield Corporation, 1977. U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Huerfano County, Colorado. Boyer, R. E., 1961. Wright and Everhart, 1960, p. 362.

Bel Aire Claims (Bel Aire 1-6)

LOCATION: sec. 21, T. 26 S., R. 68 W.
 LCRM This deposit occurs 1/2 to one mile southeast of Badito Cone.
 PROD Reserves, no production.
 HOST Stratiform deposit similar to the Stumbling Stud Mine except the uranium occurs at the base of the Purgatoire Formation in unsilicified,

non-fluorite bearing sandstone.
 MNZ Uraninite occurs in pods.
 DOI 1971
 REF R. C. Malan, 1978, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado.

Black Jack 2 (Black Jack 1-9)

LOCATION: sec. 1, T. 32 S., R. 70 W.
 LCRM Also in sec. 36, T. 31 S., R. 70 W.
 PROD No production according to reference.
 HOST Undivided Pennsylvanian red beds.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

City Slicker Claim

LOCATION: sec. 6, T. 29 S., R. 69 W.
 LCST UNCERTAIN
 QUAD La Veta Pass 7 1/2'
 MAP TRINIDAD
 DVEL Adit at least 100 ft in length.
 PROD 40 tons of carbonaceous material is stockpiled. Composite sample of the stockpile has values of 0.046% eU308, 0.07% U308.
 HOST The host is carbonaceous sandstone in Permian Sangre de Cristo Formation.
 MNZ Carnotite or volborthite on surface changes to black uranium ore at face. 30 in. sample taken at face had values of 0.077% eU308, and 0.12% U308.
 RMKS Background in adit is 0.13 mr/hr. A 2 1/2 ft bed in face had reading of 0.6 mr/hr.
 DOI 1954
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Huerfano County, Colorado. Emerson, J. F., 1943, (RMO-842).

Columbine Hills

LOCATION:
 LCST UNLOCATABLE
 LCRM Small open pit.
 DVEL U.S. A.E.C. Production Records show one ton of material averaging 0.06% U308 and 0.35% V205 was shipped to the VCA mill at Durango in 1953.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Dallas Dottle

LOCATION: SW1/4 sec. 27, T. 30 S., R. 69 W.
 MAP TRINIDAD
 BKG 150 cps
 RNG 150 to 2,000 cps
 HOST Conglomerates in Permian Sangre de Cristo Formation.
 STRC Beds dip 45°E
 MNZ Carnotite, azurite, carbon trash and logs. Sample had the following values: 2.5 ft chip sample - 0.11% eU308, 0.20% U308, 3.69% V205, 0.94% Cu; 0.018% eU308, 0.94% Cu; 0.027% eU308, 0.94% Cu; 1.40% eU308, 0.74% U308, 4.0% V205, 7.50% Cu;

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DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Huerfano County, Colorado.

Delz Ranch

LOCATION: sec. 7, T. 25 S., R. 70 W.
 MAP TRINIDAD
 BKG .02 mr/hr
 RNG .6 to 5.0 mr/hr
 HOST Carbonaceous, iron-stained, arkosic sandstone about 1.5 ft thick in the Eocene Farisita Conglomerate.
 DOI 1955
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Huerfano County, Colorado.

Hall Property (School Section)

LOCATION: S1/2 sec. 36, T. 28 S., R. 70 W.
 LCST UNCERTAIN
 LCRM Directions to occurrence are as follows: "From western junction of Colo. 111 with U.S. 160 proceed west on U.S. 160 for 8.8 mi. Take a left turn on dirt road and cross cattleguard and Veta Creek going to fork in road (0.6 mi.) Take left fork in road and continue 0.7 mi. to fork in road. Take right fork and continue to trench."
 QUAD La Veta Pass 7 1/2'
 MAP TRINIDAD
 DVEL Two trenches.
 BKG .04 mr/hr
 RNG .12 to .2 mr/hr
 HOST Arkosic red sandstone in Permian Sangre de Cristo Formation.
 STRC Mineralized zone is 2 ft wide and trends S12°W.
 MNZ Carnotite, secondary copper and vanadium minerals. One sample had values of 0.017% eU, 0.013% U, 2.34% V2O5.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Huerfano County, Colorado. Emerson, J. F., 1943, (RMO-842).

Independent Claim

LOCATION: NE1/4SE1/4 sec. 9, T. 30 S., R. 69 W.
 QUAD Cuchara 7 1/2'
 MAP TRINIDAD
 DVEL Trench and shaft at occurrence. Vanadium Corporation of America carried out drilling on the property.
 RNG 3 x bg
 HOST Reddish sandstone in Permian Sangre de Cristo Formation.
 STRC Beds strike N10°W and dip 82°W.
 MNZ Thin coatings on fractures of yellow and chartreuse colored minerals, malachite, native copper.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Huerfano County, Colorado.

Isabell Group

LOCATION: sec. 5, T. 25 S., R. 70 W.
 QUAD Bear Creek 7 1/2'

MAP TRINIDAD
 BKG .02 mr/hr
 RNG .3 to 1.5 mr/hr
 HOST Medium- to coarse-grained black carbonaceous shale and conglomeratic sandstone of the Eocene Farisita Conglomerate.
 MNZ Pitchblende.
 DOI 1955
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Huerfano County, Colorado.

McGuire

LOCATION: sec. 5, T. 29 S., R. 69 W.
 MAP TRINIDAD
 DVEL A sample is reported as having 0.19% U3O8, 1.23% V2O5, and 2.35% Cu.
 MNZ Calciovolborthite, malachite, uranium, (spotty chrome ore?).
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.

McGuire Lode (C.E. Wilson Property)

LOCATION: N1/2 sec. 9, T. 29 S., R. 69 W.
 QUAD La Veta 7 1/2'
 MAP TRINIDAD
 DVEL One pit. It was reported that once an 80 ft shaft was sunk on this property to prospect for silver, lead, and radium. This was not confirmed.
 PROD A grade is reported of 0.177% U3O8.
 BKG .04 mr/hr
 RNG To 10 x bg
 HOST Reddish brown arkosic sandstone of the Permian Sangre de Cristo Formation.
 MNZ No mineralized zone was found in place in the sandstone. A grab sample from dump had values of 0.153% eU3O8, 0.177% U3O8
 DOI 1953
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Huerfano County, Colorado. Emerson, J. F., 1943, (RMO-842).

McIntire Property

LOCATION: sec. 19, T. 27 S., R. 70 W.
 LCST UNCERTAIN
 LCRM There is no description of directions to occurrence.
 QUAD Red Wing 7 1/2'
 MAP TRINIDAD
 DVEL Several small pits.
 HOST Red sandstone and shale in Permian Sangre de Cristo Formation.
 MNZ Carnotite - roscoelite type minerals and copper. Some assay values of up to 0.6% U3O8 are reported but location is questionable.
 DOI 1950
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Huerfano County, Colorado. King, R. U., and Beroni, E. P., 1950. Emerson, J. F., 1943, (RMO-842).

Muleshoe (La Veta Pass)

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LOCATION: E1/2 sec. 13, T. 28 S., R. 70 W.
 QUAD La Veta Pass 7 1/2'
 MAP TRINIDAD
 PROD Grade reported of 0.15% U308 and 1.95% V205.
 HOST Sangre de Cristo Formation.
 MNZ Uranium, vanadium.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. Emerson, J. F., 1943, (RMO-842).

Parks Lode Claim

LOCATION: sec. 36, T. 29 S., R. 70 W.
 LCST UNCERTAIN
 LCRM Directions to occurrence are as follows:
 "From south edge of La Veta take Colo. 111 south for 1.4 mi. and take dirt road on right going to Sulphur Springs. Go 5.2 mi. to Sulphur Springs, and continue through for .8 mi. Then take a left fork for 1.2 mi. and go straight ahead at intersection for .1 mi. Take a right fork for .2 mi. and another right fork for 4.8 mi. Leave Jeep and go for 500 ft in direction S70°W to RR tracks. Go left along tracks for 3,775 ft and then go straight east for 300 ft to claim." From the sketch map on the Preliminary Reconnaissance Report, it is thought the occurrence is in the SW1/4 of sec. 31, T. 29 S., R. 69 W.

QUAD McCarty 7 1/2'
 MAP TRINIDAD
 DYEL 40 ft shaft which is now filled was sunk for copper near this occurrence.
 BKG .01 mr/hr
 RNG 40 x bg
 HOST Arkosic sandstone in Permian Sangre de Cristo Formation.
 STRC Beds strike N 11°W and dip 24°E. Radioactivity is in a small fracture zone.
 MNZ The radioactivity is associated with yellow secondary mineral which occurs as small spots in a small fracture zone (possibly tyuyamunite). Malachite, azurite. A chip sample had values of 2.62% V205, 2.22% Cu, 0.80% eU308, 0.58% eU308.
 DOI 1958
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Huerfano County, Colorado.

Red Canyon

LOCATION: sec. 18, T. 26 S., R. 68 W.
 LCST UNCERTAIN
 LCRM Directions to occurrence are to "south branch of Red Canyon." Initial location is given as sec. 7 which is the main Red Canyon and not the south branch.
 QUAD Badito Cone 7 1/2'
 MAP TRINIDAD
 BKG .015 mr/hr
 RNG .015 to .04 mr/hr
 HOST Section in canyon starts in Precambrian schist and ends in Cretaceous Dakota Sandstone.
 STRC West flank of Greenhorn anticline.
 MNZ Following is mineralization description from the Preliminary Reconnaissance Report: "No mineralization of any kind was observed, but some very high grade samples of carnotite

were said to have been found in Red Canyon. This seem improbable."

DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Huerfano County, Colorado.

Santa Rosa Claim

LOCATION: sec. 13, T. 27 S., R. 71 W.
 LCST UNCERTAIN
 LCRM Original direction to occurrence is as follows:
 "Take U.S. 160 east from Ft. Garland for 18.6 mi. to junction Colo. 305. Make left turn and continue on Colo. 305 for 9.6 mi. Make left turn on road between creek and school and follow 2.4 mi. Take right fork and follow road for 1.1 mi. to deposit."

QUAD Red Wing 7 1/2'
 MAP TRINIDAD
 DYEL Prospect was first opened for copper.
 PROD Grades of 0.3% to 0.36% U308 and 1% to 2% V205 are reported.
 BKG .04 mr/hr
 RNG 2 x bg
 HOST Medium- to coarse-grained sandstone with carbonaceous trash in Permian Sangre de Cristo Formation.
 MNZ Autunite, malachite, azurite. Commercial assays for ore from the prospect reported to have had values of 1% - 2% V.

DOI 1953
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Huerfano County, Colorado. Wyant, D. G., Beroni, E. P., and Granger, H. C., 1952. King, R. U., 1951, U.S. Geol. Survey TEI-59, p. 206-207.

Spanish Peaks

LOCATION: sec. 27, T. 30 S., R. 69 W.
 MAP TRINIDAD
 MNZ Uranium with values up to 0.2% U308.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.

Virginia-Verna 1-6

LOCATION: sec. 17, T. 25 S., R. 70 W.
 MAP TRINIDAD
 BKG .03 mr/hr
 RNG .3 to 4 mr/hr
 HOST Grayish, limonite-stained, carbonaceous, medium-grained sandy shale interbedded with small lenses of arkosic sandstone of the Eocene Farisita Conglomerate.
 MNZ Autunite was only mineral observed.
 DOI 1956
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Huerfano County, Colorado.

Washout Claim (Price Ranch)

LOCATION: NE1/4NW1/4SE1/4 sec. 16, T. 30 S., R. 69 W.
 QUAD Cuchara 7 1/2'
 MAP TRINIDAD
 DYEL Trenching and prospecting. Diamond drilling was carried out by the Vanadium Corporation

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of America in early 1950s.
RNG To 5 x bg.
HOST Reddish sandstone and black carbonaceous shale of Permian Sangre de Cristo Formation.
STRC Beds strike N14°W and dip 70°E.
MNZ Native copper reported, malachite, possibly cuprite, unidentified yellow and green minerals.
RMKS Radioactivity concentrated in 2 in. zone along hanging wall.
DOI 1952
REF U.S. A.E.C, 1966, Preliminary Reconnaissance Reports, Huerfano County, Colorado.

Whitecliff 1-26

LOCATION: sec. 18, T. 25 S., R. 70 W.
QUAD Devils Gulch 7 1/2', Creager Reservoir 7 1/2'
MAP TRINIDAD
DVEL Several trenches have been bulldozed.
BKG .04 mr/hr
RNG .12 to .3 mr/hr
HOST Limonite-stained, crossbedded, medium-grained, arkosic cobble conglomerate in Eocene Farisita Conglomerate. The cobbles are mostly granite and granite gneiss.
MNZ No uranium minerals were observed.
DOI 1956
REF U.S. A.E.C, 1966, Preliminary Reconnaissance Reports, Huerfano County, Colorado.

JACKSON COUNTY

The production of uranium from Jackson County has been small-- only one deposit has produced ore. The total production to 1971 is reported as 500 tons at a grade of 0.30 percent, producing 3,000 lb of U_3O_8 .

The central part of the county is dominated by North Park, a large Intermontane basin filled with Tertiary sediments and volcanics. North Park is bounded on its eastern and western edges by the Medicine Bow Mountains and the Park Range, respectively. Mesozoic and Paleozoic sediments flank the Precambrian granites and gneissic cores of the ranges.

The one producer in the county is the Pedad Claims, located in the northwestern part of the county near

Mount Ethel. They produced ore from a breccia zone in the Precambrian Mount Ethel Granite. A primary mineral associated with the uranium was dark purple fluorite.

It is interesting to note that all occurrences in the county are in the northwestern part of the county. Vein-type occurrences are the most abundant reported, and 11 of these lie in a small area. There is potential for more vein-type and sandstone-type reserves to be found within the county. The large area of the North Park basin could contain sandstone type occurrences of important size. Although exploration activity has been sporadically intense in North Park for a number of years, no occurrences are documented from these efforts.

JACKSON COUNTY

Bear Creek Mine

LOCATION: sec. 10, T. 9 N., R. 82 W.
 LCRM North side Bear Creek Canyon, 2.2 miles from road in Lone Pine Campground.
 QUAD Boettcher Lake 7 1/2'
 MAP CRAIG
 DVEL There are two tunnels. This is probably a gold or silver mine.
 HOST Vein in unknown host.
 MNZ Pyrite, galena, chalcopryrite, fluorite.
 RMKS Minor fluorite in the upper tunnel is lightly radioactive.
 DOI 1950-58?
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jackson County, Colorado.

Crystal Fluorspar Mine

LOCATION: sec. 10, T. 8 N., R. 82 W.
 LCRM Mine is shown on topo map just north of Raspberry Creek.
 QUAD Pitchpine Mountain 7 1/2'
 DVEL The mine is an inactive fluorspar producer. Mining began in 1945.
 HOST Vein in Precambrian quartz monzonite and granite rocks.
 STRC Vein occurs in breccia zone that is NW trending (reverse fault?).
 MNZ Fluorite, iron, quartz, uranium.
 DOI 1975
 REF U.S. Geol. Survey, 1977, CRIB File. David Wolf, 1977, Personal Communication. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jackson County, Colorado. Malan, R. C., 1957.

Felder Prospect

LOCATION: T. 8 N., R. 82 W.
 LCST UNSURVEYED
 LCRM The pegmatite is south of Aqua Fria Lake approximately 0.3 mile on the 10,240 ft contour.
 QUAD Mount Ethel 7 1/2'
 MAP CRAIG
 HOST Pegmatite in Precambrian Mount Ethel granite.
 MNZ Xenotime, zircon, bastnaesite. A sample had a value of 0.7% U, this from a spectrographic analysis of a rare earth mineral.
 RMKS Mineral identification by Jack W. Adams.
 DOI 1966
 REF George Snyder, 1977, Personal Communication.

Fred Brad's Ranch (Spring Claims)

LOCATION: sec. 9, T. 9 N., R. 81 W.
 LCRM Pit is 1.5 miles north of ranch on east slope at Sheep Mountain.
 QUAD Boettcher Lake 7 1/2', Lake John 7 1/2'
 MAP CRAIG
 DVEL Claims are named Spring 1, 2.
 BKG .01 mr/hr
 RNG .01 to 2.5 mr/hr
 HOST Uranium from spring waters (?) deposited in overlying the Jurassic Morrison Formation,

and Precambrian granite.
 MNZ Fluorite, quartz, pyrite, black chert. One sample had a value of 0.15% U308.
 RMKS There are two occurrence records in the CRIB File. The spring #1 claim is in sec. 10, and the Fred Brands Ranch occurrence is in sec. 9.
 DOI 1957
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Routt County, Colorado. Malan, R. C., 1957.

James Bird Prospect

LOCATION: sec. 34, T. 9 N., R. 82 W.
 LCST UNCERTAIN
 LCRM Reported to be about 300 yds south of the southern rim of Red Canyon.
 QUAD Pitchpine Mountain 7 1/2'
 DVEL One prospect pit approximately 8 ft long, 2 ft wide, and 5 ft deep.
 HOST Vein in Precambrian Granite.
 STRC The vein is thought to be on the N-S fault which controls the Pedad occurrence mineralization. The vein strikes N70°E and dips vertically and is approximately 15 ft wide.
 ALT At a depth of 4 ft the fluorite in the vein grades into altered granite.
 MNZ The vein contains mainly dark purple radioactive fluorite. Other minerals observed are galena, chalcopryrite, and malachite (?). No uranium minerals were observed.
 DOI 1957
 REF R. C. Malan, 1978, Personal Communication. Malan, R. C., 1957.

Pedad Claims Nos. 1-5

LOCATION: sec. 27, T. 9 N., R. 82 W.
 LCST UNSURVEYED
 QUAD Pitch Pine Mountain 7 1/2'
 MAP CRAIG
 DVEL Two pits.
 PROD As of 1971, 500 tons had been mined at a grade of 0.30% U308.
 BKG 60 cps
 RNG 250-950 cps
 HOST Breccia in north trending fault cutting the Precambrian Mount Ethel Granite.
 STRC Breccia zone approximately one ft wide. Strike N78°E, dips 77°NW.
 ALT Wall rock and breccia fragments are intensely bleached and kaolinized.
 MNZ Dark purple fluorite, fine grained pyrite (radioactive), white silica, iron oxides, sample value of 0.35% U308.
 DOI 1957
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jackson County, Colorado. Malan, R. C., 1957.

Sample No. 7

LOCATION: SW1/4 sec. 27, T. 9 N., R. 82 W.
 LCST UNSURVEYED

JACKSON COUNTY

LCRM From the area of the Pedad Claim occurrence.
QUAD Pitchpine Mountain 7 1/2'
MAP CRAIG
HOST Rock sample.
RMKS Sample data: 50 ppm Nb, 258 ppm U, 34 ppm Th.
DOI 1977
REF George Snyder, 1977, Personal Communication.

Sheep Mountain Prospect

LOCATION: sec. 33, T. 10 N., R. 81 W.
LCRM 1 1/2 mile south of Boettcher Lake on top
of the Dakota Hogback.
QUAD Boettcher Lake 7 1/2', Lake John 7 1/2'
MAP CRAIG
DYEL There are two prospect pits.
BKG 110-120 cps
RNG 500-750 cps
HOST Sandstone and conglomerate in the Cretaceous
Dakota Sandstone.
STRC Highest radioactivity is on fractures of
sandstone near a NW trending fault.
MNZ Abundant limonite and manganese staining
with values of 0.03% to 0.052% U308.
DOI 1953
REF U.S. A.E.C., 1966, Preliminary Reconnaissance
Reports, Routt County, Colorado.

Simmons

LOCATION: sec. 25, T. 12 N., R. 81 W.
QUAD Independence Mountain 7 1/2'
MAP CRAIG
MNZ Uranium.
DOI 1972
REF U.S. Geol. Survey, 1977, CRIB File.

JEFFERSON COUNTY

Jefferson County has been a major county for production of uranium in the state. The Schwartzwalder Mine, one of the major vein-type uranium mines in North America, has produced approximately 98 percent of all U_3O_8 in the county. As of May 1978, total production from the mine has been reported as 10,500,000 lb of U_3O_8 (J. Haley, 1978, pers. comm.), which makes the Schwartzwalder the largest uranium producing mine in the state. Twelve other mines in the county have produced uranium, but only a small percentage compared to the Schwartzwalder's total production. By 1971 these other mines had produced 39,781 tons of ore and 210,827 lb of U_3O_8 . The potential for more reserves of uranium to be found in the county is excellent.

Two different terranes characterize the geology of Jefferson County. The northeastern quarter of the county is underlain by Paleozoic and Mesozoic sedimentary rocks, usually flat-lying, except near the mountain front. The rest of the county is composed of Precambrian granites, gneisses, and schists of the Front Range, mainly the Idaho Springs Formation and the Pikes Peak Granite, which are cut by many northwest-southeast-trending faults, fault zones, and/or breccia reef systems.

Many occurrences in the county can be considered important; however, only the following major producers are discussed: Ascension Mine, Aubrey Ladwig Mine, Grapevine Mine, Mann Ranch, Mena Mine, Leyden Coal Mine, Pallaora Lease, Schwartzwalder Mine, Stone Placer Mine, and Wright Lease.

Seven of the ten mines occur where a fault or breccia zone transects the Precambrian Idaho Springs Formation. With the exception of the Leyden Coal Mine, the Mann Ranch and the Pallaora Lease, these mines, including the Schwartzwalder, are all clustered along three northwest-trending faults or breccia reef systems within six miles of the fault system along the mountain front.

The Mann Ranch and the Pallaora Lease lie close to each other on the hogback of the Dakota Formation at Turkey Creek Canyon. Faulting in the Dakota Sandstone appears to have dammed up the mineralizing solutions that formed both deposits. Asphaltite and uraninite are the ore minerals.

The Leyden Coal Mine is the final type of important deposit in the county. At this mine the uranium occurs as uraninite in silica-filled cracks and fractures within the coal. During the 1950's the U.S. Geological Survey carried out a drilling program at the mine and reported an estimated reserve of 17,000 tons of ore at a grade of 0.2 percent U_3O_8 .

As pointed out earlier the county has high potential for more reserves of uranium. The Precambrian fracture-controlled type of deposits, the most likely to be found, will be explored for in the foothills west of the mountain front. The sandstone type of deposit has less potential.

JEFFERSON COUNTY

Apple Lease

LOCATION: SW1/4 sec. 7, T. 4 S., R. 70 W.
 QUAD Evergreen 7 1/2'
 BKG .04 mr/hr
 RNG .07 to .7 mr/hr.
 HOST Pegmatites in quartz-biotite schist of the Precambrian Idaho Springs Formation.
 STRC Shear zone striking N75°W and dipping 55°S and fractures.
 MNZ Autunite, torbernite, and ilmonite.
 DOI 1956
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado. Lovering, T. S., and Goddard, E. N., 1950.

Ascension Mine (Nair Prospect, Nare Lease)

LOCATION: NW1/4 sec. 24, T. 3 S., R. 71 W.
 QUAD Ralston Buttes 7 1/2'
 DVEL Radioactivity was discovered in 1955 and exploration began in 1956. There were at least two diamond drill holes drilled. Several adits were driven and trenching by bulldozing was carried out.
 PROD During the period 1956-1963, a total of 3,996 tons averaging 0.29% U308 and containing 23,431 lbs of U308 were mined.
 HOST Calc-silicate gneiss of the Precambrian Idaho Springs Formation.
 STRC Fault breccias striking NW and dipping steeply easterly. Also a pegmatite dike cuts the prospect.
 MNZ Pitchblende with sparse base metal sulfides. Uraninite disseminated in a carbonate breccia, composed of quartz, calcite, and ankerite.
 RMKS There is possibility of confusion with the Ohman Mine, which is also called Nare Lease.
 DOI 1967
 REF R. C. Malan, 1978, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado. Sheridan, D. M., and others, 1967. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado. U.S. A.E.C., 1959.

Aubrey Ladwig Mine (Aubrey Ladwig Lease, Gary Mine)

LOCATION: SW1/4 sec. 18, T. 3 S., R. 70 W.
 LCRM Access is from Colorado 93 via Cressmans Gulch.
 QUAD Ralston Buttes 7 1/2'
 DVEL Mineralization was discovered in 1954. Production began in 1955. Workings consist of an open pit, shaft with a crosscut and stope, and various exploration pits.
 PROD During the period 1955-1956, 1,942 tons of ore were mined at a grade of 0.25% U308, producing 9,527 lbs of U308.
 HOST Brecciated garnetiferous biotite-quartz gneiss and pegmatite of the Precambrian Idaho Springs Formation.
 STRC Mineralization in fractures or coarse brecciation along or near the contact of the pegmatite and gneiss.

MNZ Lenses and pods of pitchblende up to 60 pounds in weight were mined in the open pit. Meta-autunite was also common. Metatorbernite, metazeunerite, and fourmarlerite have also been identified from the mine. Pyrite is common but no base metal sulphides have been identified. Fluorite has been identified from the mine.

RMKS This occurrence is not on a breccia-reef fault, which makes it different from others in the area.

DOI 1967
 REF U.S. A.E.C., 1971, Production Records, Colorado. Sheridan, D. M.; and others, 1967. Derzay, R. C., and Bird, A. G., 1976. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado. U.S. A.E.C., 1954.

Babcock Prospect (Ralston Buttes Uranium Mining Co. Prospect)

LOCATION: SW1/4 sec. 24, T. 2 S., R. 71 W.
 QUAD Ralston Buttes 7 1/2'
 BKG .02 to .03 mr/hr
 RNG .03 to .2 mr/hr
 HOST Biotite gneiss of the Precambrian Idaho Springs Formation with narrow quartz lenses.
 STRC Fracture zone striking N40°E dipping 70°NW.
 ALT Gneiss is reported as being altered but no description.
 MNZ Torbernite, chalcopyrite, chrysocolla, malachite, pyrite, ilmonite, quartz, clay minerals.
 DOI 1954
 REF Sheridan, D. M., and others, 1967. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado.

Bankers Lode Claim

LOCATION: SE1/4NW1/4 sec. 9, T. 2 S., R. 71 W.
 QUAD Ralston Buttes 7 1/2'
 BKG .03 mr/hr
 RNG .03 to .1 mr/hr
 HOST Tertiary breccia reef in granite gneiss and pegmatite of Precambrian Idaho Springs Formation and Precambrian Boulder Creek granite.
 STRC Reef strikes N20°W and dips 90°. Post reef fault strikes N30°E, dips 50°E.
 MNZ Schroeckingerite, chalcocite, malachite, cuprite, tenorite, hematite, fluorite.
 RMKS All radioactivity occurs in post reef fault.
 DOI 1954
 REF Sheridan, D. M., and others, 1967. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado. Lovering, T. S., and Goddard, E. N., 1950.

Biliken Lode

LOCATION: SW1/4 sec. 3, T. 7 S., R. 70 W.
 QUAD Pine 7 1/2'
 DVEL Several inclines and adits. History unknown, apparently explored for copper.
 BKG .04 mr/hr
 RNG .04 mr/hr-off scale
 HOST Precambrian Idaho Springs Formation.
 STRC Thin shears and fractures.

JEFFERSON COUNTY

MNZ Pitchblende, becquerelite, gummitite, uranophane, cuprite, tenorite, copper secondaries.
 RMKS Pitchblende occurs in thin shears, secondary minerals of uranium permeate fractures.
 DOI 1955
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado.

STRC Pegmatite strikes N40°W.
 MNZ Torbernite, fluorite, feldspar. Grab sample had value of .01% U.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado. Lovering, T. S., and Goddard, E. N., 1950.

Bonzo 1 - Seven Devils later

LOCATION: SE1/4 sec. 33, T. 6 S., R. 69 W.
 LCRM On north side of river along road.
 QUAD Kassler 7 1/2'
 DYEL Adit and pits.
 BKG .05 mr/hr
 RNG .2 to 20
 HOST Gneiss in the Precambrian Idaho Springs Formation.
 MNZ Chalcopyrite, malachite, pitchblende, analysis range from .16% U308 to 11.2% U308.
 RMKS Gate on road is locked, contact Denver Water Board to gain entry.
 REF Allen Reid, 1977, Personal Communication. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado.

see "stone placer" for prediction (possible error here)

Buckman Property (Golden Gate Canyon No. 2)

LOCATION: NE1/4NE1/4 sec. 25, T. 3 S., R. 71 W.
 LCRM About 15 ft east of the Golden Gate Canyon road.
 QUAD Ralston Buttes 7 1/2'
 DYEL Adit was operated in 1916. It is 86 ft long with a 25 ft winze.
 HOST Quartz veins in shears of biotite gneiss of the Precambrian Idaho Springs Formation.
 STRC The shear zones are NE trending. However, the Hurricane Hill fault system is about 300 ft west of the adit.
 MNZ Pitchblende, uranophane, uranopilite, pyrite, chalcopyrite, molybdenite, hematite, quartz. Samples range from .06 to .82% U.
 DOI 1967
 REF Derzay, R. C., and Bird, A. G., 1976. Sheridan, D. M., and others, 1967. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado. Adams, J. W., and others, 1953. Lovering, T. S., and Goddard, E. N., 1950.

Borazetti Property

LOCATION: sec. 33, T. 7 S., R. 70 W.
 LCST UNCERTAIN
 LCRM Prospect was reported to be in Douglas County. Also reported to be in sec. 32. More likely the description corresponds to SW1/2 sec. 33.
 QUAD Platte Canyon 7 1/2'
 DYEL Mine has produced about 200 tons of K feldspar during the 1940's.
 HOST Pegmatite in Precambrian Pikes Peak Granite.
 MNZ Mica lens in pegmatite had a value of 8 mr/hr while the K feldspar had a reading of .15 mr/hr.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Douglas County, Colorado.

Ceryl Lease

LOCATION: NE1/4NW1/4NE1/4 sec. 24, T. 3 S., R. 71 W.
 QUAD Ralston Buttes 7 1/2'
 MAP DENVER
 HOST The deposit occurs in a vein in Precambrian biotite-plagioclase quartz gneiss.
 STRC The Hurricane Hill fault breccia may be an important ore control.
 MNZ Uranium mineralization was recognized but specific minerals were not identified.
 DOI 1955
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File.

Bray Lease

LOCATION: NE1/4 sec. 12, T. 5 S., R. 70 W.
 LCRM In Turkey Creek water gap through Dakota Hogback.
 QUAD Morrison 7 1/2'
 BKG .015 mr/hr
 RNG .05 to .4 mr/hr
 HOST Cretaceous Dakota Sandstone and Tertiary alluvium.
 MNZ Carnotite?
 RMKS Other anomalous prospects nearby in Dakota Sandstone.
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado. Gottfried, David, 1956. Scott, B. C., 1957.

Coors Pegmatite

LOCATION: sec. 18, T. 4 S., R. 71 W.
 MAP DENVER
 HOST Precambrian pegmatite in a hornblende gneiss of the Idaho Springs Formation.
 STRC The pegmatite trends northeast.
 MNZ Allanite - orthite, microcline, albite, cleavelandite, quartz, mica, magnetite, garnet.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.

Brereton Prospect

LOCATION: NW1/4 sec. 17, T. 2 S., R. 71 W.
 QUAD Eldorado Springs 7 1/2'
 DYEL One 45 ft adit.
 HOST Precambrian pegmatite in Precambrian fine-grained granite.

F.M.D. Mine

LOCATION: NW1/4 sec. 25, T. 4 S., R. 71 W.
 QUAD Evergreen 7 1/2'
 BKG .005 mr/hr
 RNG .005 to .1 mr/hr

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HOST Precambrian Idaho Springs Formation, biotite and amphibolite schist.
 STRC Shear zone striking N70°W, 10 ft wide and 1/2 mile long.
 MNZ Chalcopyrite, malachite, azurite, pyrite, hematite, ilmonite, quartz.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado. Lindgren, Waldemar, 1908.

Fork Prospect

LOCATION: NE1/4NW1/4 sec. 19, T. 3 S., R. 70 W.
 QUAD Ralston Buttes 7 1/2'
 DYEL Surface cut.
 PROD In 1964, 13 tons with an average grade of 0.14% U308 and containing 37 lbs of U308 were produced.
 BKG .03 mr/hr
 RNG .03 to 3 to +5 mr/hr
 HOST Precambrian Idaho Springs Formation, layered calc - silicate gneiss.
 STRC Fracture zone striking N60°E dipping near vertical, approximately 1 ft wide. Zone is considered part of Hurricane Hill fault system.
 MNZ Sooty pitchblende, pyrite, asphaltite and rhodochrosite? A grab representative sample of a 1/2 ton pile had a value of 0.15% eU308.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado. Sheridan, D. M., and others, 1967. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado.

Gilpin Mine

LOCATION: SE1/4 sec. 33, T. 7 S., R. 70 W.
 LCRM Reported as being in Douglas County.
 QUAD Platte Canyon 7 1/2'
 HOST Pegmatite in Precambrian Pikes Peak Granite.
 MNZ Gummite?, quartz, fluorite and blebs of primary radioactive minerals.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Douglas County, Colorado.

Grapevine Mine (Grapevine 1 and Grapevine Lease)

LOCATION: NE1/4SE1/4 sec. 29, T. 4 S., R. 70 W.
 LCRM Near Idledale
 QUAD Morrison 7 1/2'
 PROD During the period 1955 - 1968, 3,753 tons with an average grade of 0.32% U308 and containing 23,830 lbs of U308 were produced.
 HOST Hornblende gneiss of Precambrian Idaho Springs Formation.
 STRC Major shear zones traverse the area and probably control mineralization.
 MNZ Pitchblende occurs as sooty material coating fractures and as fissure fillings associated with pyrite, quartz, feldspar, ilmonite and hematite, and clay minerals.
 DOI 1971
 REF Norman Bennette, 1977, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado. Sheridan, D. M., and others, 1967. U.S.

A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado. U.S. A.E.C., 1959.

Grosso

LOCATION: sec. 18, T. 3 S., R. 70 W.
 QUAD Ralston Buttes 7 1/2'
 MAP DENVER
 DYEL This is an explored prospect.
 MNZ Uranium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Hidden Treasure Group

LOCATION: S1/2 sec. 24, T. 2 S., R. 71 W.
 LCST UNCERTAIN
 LCRM From North Star Mine approximately 1 mile southeast.
 QUAD Ralston Buttes 7 1/2'
 DYEL One trench.
 BKG .03 mr/hr
 RNG .1 to 3.0 mr/hr
 HOST Fault in schist and gneiss of the Precambrian Idaho Springs Formation. Strike of reef not known.
 STRC Strike of reef not known.
 MNZ Torbernite, malachite, azurite, tetrahedrite, pyrite, ilmonite, galena.
 RMKS Fifteen anomalous zones were found in area.
 DOI 1954
 REF Sheridan, D. M., and others, 1967. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado.

Ladwig 1 (Ladwig 2 Prospect)

LOCATION: SE1/4SW1/4 sec. 19, T. 3 S., R. 70 W.
 LCRM Same road to Swartzwalder Mine up Cressman Gulch.
 QUAD Ralston Buttes 7 1/2'
 PROD No production prior to 1971. A small shipment was made to the Canon City mill in 1971 for private uranium sales by the Cotter Corp.
 HOST Carbonate breccia and hornblende gneiss of the Precambrian Idaho Springs Formation.
 STRC NW trending breccia-reef fault with offset of approximately 100 ft.
 MNZ Pitchblende, torbernite, uranophane?, secondary copper minerals.
 RMKS An old shaft with copper mineralization is 500 ft S48°E. of this prospect. However, there is no anomalous radiation associated with it.
 DOI 1977
 REF Bennette, Norman, 1977. Sheridan, D. M., and others, 1967. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado.

Ladwig 2 & 3

LOCATION: SE1/4 sec. 19, T. 3 S., R. 70 W.
 LCRM Approximately 1,500 ft ENE from Union Pacific prospect.
 QUAD Ralston Buttes 7 1/2'
 HOST Breccia in hornblende gneiss of the Precambrian Idaho Springs Formation.

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STRC Fault breccias trending N or NW.
 MNZ Pitchblende, copper secondaries, however mineralization is very spotty and nearby pits on the breccia zones are not radioactive.
 DOI 1967
 REF Sheridan, D. M., and others, 1967. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado. Adams, J. W., and others, 1953.

Lindsay Clay Mine

LOCATION: sec. 28, T. 2 S., R. 70 W.
 QUAD Golden 7 1/2'
 DVEL The mine has been worked for plastic clay.
 BKG .04 mr/hr
 RNG .13 to .5 mr/hr
 HOST A small 20 ft long pod of gray claystone in the Tertiary Laramie Formation. It is underlain by a thin coal and overlain by a thick sandstone.
 STRC The formation is north trending and vertically dipping.
 MNZ A powdery canary-yellow uranium mineral forms thin films on plant fragments in the claystone. A 3.5 ft channel sample had a value of 0.02% U308.
 DOI 1954
 REF U.S. A.E.C., Preliminary Reconnaissance Reports, Jefferson County, Colorado.

Little Patsy (Oregon 1 - 3?)

LOCATION: sec. 28, T. 7 S., R. 70 W.
 LCRM Incorrectly located in Douglas County. Also Little Patsy quarry was reported as being in sec. 33.
 QUAD Platte Canyon 7 1/2'
 HOST Pegmatite in Precambrian Pikes Peak granite.
 MNZ Fergusonite, samarskite, quartz, feldspar, biotite, autunite, torbernite. The rare earth minerals occur adjacent to the biotite - feldspar zone.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Douglas County, Colorado.

Mann Ranch (Mann Mine, Vanadium Queen)

LOCATION: SE1/4NE1/4 sec. 12, T. 5 S., R. 70 W.
 QUAD Morrison 7 1/2'
 MAP DENVER
 PROD During the period 1955-1961, 2,893 tons were mined at a grade of 0.27% U308, producing 15,579 lbs of U308.
 HOST Cretaceous Dakota Sandstone.
 STRC A fault striking N40 to 45°W and dipping 50°SW appears to have acted as a dam to mineralizing solutions.
 MNZ The ore is an asphaltic material containing finely divided uraninite, accompanied by pyrite.
 DOI 1975
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Sims, P. K., and Sheridan, D. M., 1964. U.S. A.E.C., 1959.

Mena Mine (Hoffmeister Homestead Prospect, Black Judge Shaft, Nigger Shaft)

LOCATION: NW1/4NE1/4 sec. 26, T. 2 S., R. 71 W.
 QUAD Ralston Buttes 7 1/2'
 DVEL Originally prospected as a copper prospect in 1912 by a Mr. Hoffmeister. Also reported as having been worked as a radium prospect.
 PROD During the period 1956 - 1962, a total of 1,304 tons averaging 0.26% U308 and containing 6,676 lbs of U308 were mined.
 HOST Brecciated hornblende gneiss, amphibolite, and biotite gneiss of the Precambrian Idaho Springs Formation.
 STRC Fault in the Rogers breccia reef fault system. Breccia varies from 1 to 8 ft in width.
 ALT The breccia fragments are highly altered with potassic alteration being prominent.
 MNZ Pitchblende is the uranium mineral. Gangue is ankerite, quartz, calcite and potassium feldspar. Also pyrite, galena, chalcopyrite and other copper and nickel sulphides have been identified.
 DOI 1977
 REF Norman Bennette, 1977, Personal Communication. Derzay, R. C., and Bird, A. G., 1976. U.S. A.E.C., 1971, Production Records, Colorado. Sheridan, D. M., and others, 1967. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado. U.S. A.E.C., 1959. Adams, J. W., and others, 1953.

Morrison Lime

LOCATION: sec. 14, T. 4 S., R. 70 W.
 LCST UNCERTAIN
 QUAD Morrison 7 1/2'
 HOST Gray sandy limestone in the Morrison Formation. Average thickness - 5 ft.
 MNZ 0.018% U308 assay from chip sample.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado.

Noack Pegmatite

LOCATION: sec. 7, T. 4 S., R. 71 W.
 LCST UNCERTAIN
 QUAD Evergreen 7 1/2'
 MAP DENVER
 HOST Pegmatite in a schist of the Precambrian Idaho Springs Formation.
 MNZ A few crystals of samarskite?, euxenite?.
 RMKS The pegmatite is also in sec. 8.
 DOI 1949
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado.

North Star Mine

LOCATION: SE1/4 sec. 23, T. 2 S., R. 71 W.
 LCRM About 1/2 mile north of Ralston Creek.
 QUAD Ralston Buttes 7 1/2'
 DVEL It was reported that copper ore was shipped from the mine, 4 tons in 1894, and 12 tons in 1916. It was inactive when pitchblende was discovered there in 1952. Union Pacific Railroad Co. was last reported holder on mineral rights.

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HOST Fault breccia in microcline gneiss of the Precambrian Idaho Springs Formation.
STRC Fault which is part of the Rogers breccia reef fault system. The fault strikes NW and dips 45°NE. Layering and foliation near the mine strike NE and dip 75 - 85°SE.
ALT The breccia fragments are reported as being altered.
MNZ Pitchblende, uranophane, bornite, chalcocite, covellite, malachite, azurite. A grab sample of pitchblende bearing breccia from dump assayed 20.3 ounces of silver per ton. Channel samples underground had values of 0.002% to 0.510% U.
DOI 1967
REF Sheridan, D. M., and others, 1967. Derzay, R. C., and Bird, A. G., 1976. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado. Adams, J. W., and others, 1953.

Ohman Mine (Nare Lease)

LOCATION: NE1/4 sec. 25, T. 3 S., R. 71 W.
LCST UNCERTAIN
LCRM Near the Buckman adit is the only location description given.
QUAD Ralston Buttes 7 1/2'
PROD Between 1957-1964, U.S. A.E.C. Production Records show production of 83 tons averaging 0.71% U308, containing 1,170 lbs of U308.
HOST Hornblende gneiss of the Precambrian Idaho Springs Formation.
STRC Along shear or fault zone.
MNZ Pitchblende.
DOI 1967
REF U.S. A.E.C., 1971, Production Records, Colorado. Sheridan, D. M., and others, 1967. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado. Adams, J. W., and Stugard, F., Jr., 1956. Adams, J. W., and others, 1953.

Old Leyden Mine (Old Leyden Coal Mine, Leyden Mine)

LOCATION: sec. 28, T. 2 S., R. 70 W.
QUAD Golden 7 1/2'
MAP DENVER
DVEL Past producing coal mine.
PROD Between 1954-1956, a total of 645 tons were mined at a grade of 0.35% U308, producing 4,533 lbs of U308. Drilling work published in a TEI estimated 17,500 tons of coal with a grade of 0.2% U308.
HOST Sandstone, coal, and carbonaceous claystone in the Cretaceous Laramie Formation. The mineralization occurs as uraninite in siliceous material filling cracks in the coal.
MNZ Metatyuyamunite, autunite, uranophane, coffinite, uraninite, pyrite, and marcasite.
DOI 1971
REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Sims, P. K., and Sheridan, D. M., 1964. U.S. A.E.C., 1959. Gude, A. J., 3d, and McKeown, F. A., 1953. Bräger, I. A., and Deul, Maurice, 1952. Gott, G. B., 1950.

Oregon 1, 2 & 3 (Little Patsy)

LOCATION: sec. 33, T. 7 S., R. 70 W.
QUAD Platte Canyon 7 1/2'
MAP DENVER
MNZ Uranium and rare earth metals are present.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.).

Pallaora Lease (Morrison Mine, Four Corners)

LOCATION: S1/2 sec. 1, T. 5 S., R. 70 W.
LCRM Also N1/2NE1/4, sec. 12.
QUAD Morrison 7 1/2'
MAP DENVER
PROD During the period 1955-1960, 678 tons were mined at a grade of 0.20% U308 and 0.02% V2O5 producing 2,667 lbs of U308 and 256 lbs of V2O5.
HOST Lens in upper member of the Cretaceous Dakota Sandstone.
STRC A fault appears to have caused a damming of the ore fluids. The fault strikes N40°W and dips 30-55°SW.
MNZ The ore is an asphaltic material containing finely divided uraninite, accompanied by pyrite.
DOI 1972
REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Sims, P. K., and Sheridan, D. M., 1964. U.S. A.E.C., 1959.

Quatman Lease

LOCATION: NE1/4 sec. 29, T. 4 S., R. 70 W.
LCRM Leased fee ground.
MAP DENVER
DVEL One 130 ft long adit.
PROD In 1955 and 1960, a total of 12 tons were mined at a grade of 0.16% U308, producing 39 lbs of U308.
HOST Precambrian Idaho Springs Formation.
MNZ Pitchblende or uraninite, scattered sulfides.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Schwartzwalder Mine (Ralston Creek Mine)

LOCATION: SW1/4 sec. 25, T. 2 S., R. 71 W.
QUAD Ralston Buttes 7 1/2'
DVEL Mine was discovered in 1949. Production began in 1953. The mine was sold to the Denver - Golden Oil and Uranium Co. and subsequently to the Cotter Corporation, the present owners. As of 1978, mining was being carried out on the 1600 level, and exploration was being done on the 1900 level of the mine. The Schwartzwalder Mine is one of the major producers of the uranium in North America from a vein type environment. Through 1966, the U.S. A.E.C. had purchased 137,267 tons averaging 0.79% U308, and containing 2,166,772 lbs of U308. In Young, 1977, total production to date (1977) is reported as approximately 9.6 million lbs of U308, with the grade of ore about 0.6% U308. As of

JEFFERSON COUNTY

*Not seven devils
May actually be from Bonanza l.*

June, 1978 total production is reported as about 10,500,000 lbs of U3O8. Grade of ore being mined in 1978 is approximately .35% U3O8.

HOST The mineralization occurs in garnet biotite gneiss, quartz biotite schist and quartzite, all which are within the Precambrian Idaho Springs Formation (hornblende gneiss).

STRC Large NW trending faults adjacent to the NW Rogers breccia-reef fault system, especially horsetails or cymolds in these faults, controls the mineralization.

ALT Chloritic and potassic alterations are confined to the breccia fragments along with silification, and replacement by ankerite. Zoning has not been recognized.

MNZ Uraninite is the primary mineral in the deeper levels. Sooty pitchblend occurred in the upper levels. Other minerals present are pyrite, chalcopyrite, tetrahedrite, bornite, galena, sphalerite, molybdenite in quartz, ankerite, calcite and potassic feldspar gangue.

RMKS For the best overview of the mine read Young, E. J., 1977, and Sheridan, D. M.; and others, 1967.

DOI 1977

REF E. J. Young, 1978, Personal Communication. J. Haley, 1978, Personal Communication. Young, E. J., 1977. Derzay, R. C., and Bird, A. G., 1957. U.S. A.E.C., 1971, Production Records, Colorado. Sheridan, D. M., and others, 1967. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado. Downs, G. R., and Bird, A. G., 1965. U.S. A.E.C., 1959. Lovering, T. S., and Goddard, E. N., 1950.

Shale Prospect

LOCATION: SE1/4 sec. 35, T. 4 S., R. 70 W.

QUAD Morrison 7 1/2'

HOST Black carboniferous shale in Cretaceous Dakota Sandstone.

MNZ Small yellow grains (carnotite?) are visible in shale. Analysis of 0.013% U.

RMKS Sandstone and shale are anomalous on both sides of gap of Bear Creek.

DOI 1954

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado.

Stevenson Prospect

LOCATION: sec. 2, T. 5 S., R. 70 W.

QUAD Morrison 7 1/2'

BKG .025 mr/hr

RNG .025 to 5 mr/hr

HOST Cretaceous Dakota Sandstone, fine- to medium-grained, buff colored with iron stains. Carbonaceous siltstone above and below.

MNZ Carnotite?

DOI 1954

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado. Gottfried, David, 1956. Scott, B. C., 1957.

Stone Placer ~~Seven Devils Prospect~~

LOCATION: sec. 5, T. 7 S., R. 69 W.

MAP DENVER-

PROD Between 1958 - 1960, a total of 1,143 tons were mined at a grade of 0.44% U3O8, producing 10,117 lbs of U3O8.

HOST Precambrian Idaho Springs Formation.

MNZ Pitchblende or uraninite, scattered sulfides.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado.

Sunrise Peak Pegmatite

LOCATION: SW1/4SW1/4SE1/4 sec. 22, T. 4 S., R. 71 W.

MAP DENVER

PROD The pegmatite has production as follows: Columbite - 10 lbs; samarskite - 500 lbs.

HOST Pegmatite in Precambrian gneiss.

STRC Pegmatite strikes N60° to 80°E and dips near vertical NW.

MNZ Xenotime, tantalite, samarskite, zircon, niobium, feldspar, beryl, topaz, microlite, rare earths.

DOI 1972

REF U.S. Geol. Survey, 1977, CRIB File.

Union Pacific Prospect 2

LOCATION: S1/2 sec. 23, T. 2 S., R. 71 W.

QUAD Ralston Buttes 7 1/2'

BKG .03 mr/hr

RNG .03 to .7 mr/hr

HOST Precambrian Idaho Springs Formation hornblende gneiss.

STRC Fracture zones striking NW and dipping NE and SW.

MNZ Sooty pitchblende, malachite, tenorite, ilmonite.

DOI 1955

REF Sheridan, D. M., and others, 1967. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado.

Union Pacific Shaft (Union Pacific Prospect)

LOCATION: SW1/4SE1/4 sec. 19, T. 3 S., R. 70 W.

QUAD Ralston Buttes 7 1/2'

HOST Brecciated hornblende gneiss unit of the Precambrian Idaho Springs Formation.

STRC Brecciated fault zone 10 - 15 ft wide, striking N15°W and dipping 35°NE. Sheridan considered it to be part of the Hurricane Hill breccia-reef fault system.

ALT The fragments in the breccia are replaced by K feldspar or ankerite.

MNZ Pitchblende, hematite, tennantite, chalcopyrite, bornite, chalcocite, covellite, sphalerite, emplectite, pyrite, ankerite, potassic feldspar, calcite. Sample values range from 0.11% U in a grab on the dump to 0.003 to 5.84% U in channel samples.

DOI 1967

REF Derzay, R. C., and Bird, A. G., 1976. Sheridan, D. M., and others, 1967. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Jefferson County, Colorado. Adams, J. W., and Stugard, Frederick, Jr., 1956. Adams, J. W., and others, 1953.

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Unnamed 1

LOCATION: sec. 12, T. 5 S., R. 70 W.
 LCRM Along Turkey Creek.
 MAP DENVER
 HOST Upper member of the Cretaceous Dakota Formation.
 MNZ Uranium.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.

Unnamed 2

LOCATION: sec. 2, T. 5 S., R. 70 W.
 LCRM North end of Mt. Glennon near Bear Creek.
 HOST Cretaceous Dakota Formation.
 MNZ Uranium.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. Rocky Mountain Assoc. of Geologists, 1955, Field Conf. Guidebook, p. 68.

Unnamed 3

LOCATION: sec. 32, T. 4 S., R. 70 W.
 LCRM North side of Bear Creek, 1/2 mile west of Idledale.
 MAP DENVER
 HOST Vein in a breccia reef of Tertiary age.
 STRC Shear zone?
 MNZ Pitchblende.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. Rocky Mtn. Assoc. of Geol., 1955, Field Conf. Guidebook, p. 68.

Unnamed 4

LOCATION: sec. 24, T. 2 S., R. 71 W.
 MAP DENVER
 HOST Precambrian gneisses and amphibolite.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. Sims, P. K., and Sheridan, D. M., 1964.

Unnamed 5

LOCATION: SW1/4 sec. 36, T. 7 S., R. 70 W.
 MAP DENVER
 HOST Precambrian pegmatite.
 MNZ Feldspar, quartz, mica, rare earths, uranium.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Unnamed 7

LOCATION: sec. 35, T. 3 S., R. 71 W.
 LCRM Part of sec. 35 is in Ralston Buttes 7 1/2'.
 QUAD Evergreen 7 1/2'
 MAP DENVER
 DVEL Explored prospect.
 MNZ Uranium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Unnamed 6

LOCATION: N1/2 sec. 36, T. 2 S., R. 71 W.
 QUAD Ralston Buttes 7 1/2'
 MAP DENVER
 DVEL Explored prospect.
 MNZ Uranium.

Wright Lease (Foothills Mine)

LOCATION: NW1/4 sec. 32, T. 4 S., R. 70 W.
 QUAD Morrison 7 1/2'
 MAP DENVER
 DVEL Adit with extensive underground workings including an interior shaft.
 PROD During the period 1955 - 1964, a total of 23,319 tons with an average grade of 0.24% U3O8 and containing 113,221 lbs of U3O8 were mined.
 HOST Uranium occurs in a breccia vein trending N50°W, and dipping an average of 70°NE, in schists, gneisses, and pegmatites of the Precambrian Idaho Springs Formation.
 STRC Ore shoots are concentrated in wider zones where the vein is refracted to the north, and the vein pinches where it bends southward, indicating strike - slip movement with the footwall moved to the northwest in relation to the hanging wall. Wall rock along ore shoots is generally quartz - feldspar pegmatite.
 MNZ The ore mineral is finely disseminated pitchblende intimately associated with ankerite. The gangue contains abundant calcite and potash feldspar as well as pyrite, chalcopyrite and galena.
 DOI 1959
 REF James Patilents, 1977, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1959.

KIOWA COUNTY

Kiowa County is situated in the eastern prairies of Colorado. Surface formations exposed are primarily the Miocene-Pliocene Ogallala Formation and the Upper Cretaceous Niobrara Group. Some Upper Cretaceous Pierre Shale crops out near the eastern borders of the county.

No production of uranium has taken place in this county, and no occurrences are known within the county.

Several wells in the county sampled by the U.S. Geological Survey, however, showed higher than average values of uranium in the water.

North of the Arkansas River, the Ogallala Formation, which generally had higher than average uranium values in water samples, may be an interesting area for further study and has some potential for uranium resources in a sandstone-type of occurrence.

KIT CARSON COUNTY

Kit Carson County is located in extreme eastern Colorado and covered almost entirely by the rocks of the Miocene-Pliocene Ogallala Formation. Some small exposures of the Upper Cretaceous Pierre Shale are present along the upper course of the Republican River.

No uranium occurrences are known within the county, but favorable formations with uranium resource potential

are present. Water sampling in other parts of the eastern plains has shown higher than average uranium values in waters derived from the Ogallala Formation. The Sharon Springs Member of the Pierre Shale is also known to contain small occurrences of uranium in other parts of the state as well. Due to the flat topography of the county, water sampling would be the most desirable method of exploring for uranium.

LAKE COUNTY

No uranium has been recorded from the county, and no important occurrences are known within the area.

Lake County lies in west-central Colorado in an area of rugged mountainous terrain. The basement rocks are primarily Precambrian schists, gneisses, and granite. Both the igneous-metamorphic rocks and the overlying Paleozoic sedimentary rocks are intensely folded and faulted, and are intruded by Late Cretaceous(?), Tertiary, and Pleistocene(?) sills, dikes, and plugs. Pleistocene glaciers have shaped the present stream valleys and mantled much of the area with thick surficial debris.

Small quantities of uranium minerals are nearly ubiquitous throughout the various metal deposits in the county, but the only concentrations found so far have been in the St. Kevin district. Many of the

old prospects and mines in that area show slightly higher than average background, but only a few show twice background or more. The radioactive minerals are not megascopically identifiable but are generally associated with limonite or other iron oxides that are found in a fine-grained, probably granitized and disintegrated schists. Torbernite is occasionally associated with turquoise in some of the turquoise mines in that district.

The county probably does not hold great potential as a uranium province. Underground exploration in existing mines and thorough surface prospecting have not resulted in any important discoveries. In the Alma mining district, just east of Lake County, uranium occurrences are present, but they, too, are scattered and weak. What uranium is present appears to be simply a minor constituent of metal-sulfide deposits.

LAKE COUNTY

Eclipse Mine

LOCATION: NW1/4NE1/4 sec. 28, T. 9 S., R. 79 W.
 LCST UNSURVEYED
 QUAD Mount Sherman 7 1/2'
 MAP LEADVILLE
 DVEL There are extensive drifts and crosscuts. The main shaft is 1,000 ft deep.
 BKG .6 to 1.4 mr/hr
 RNG 1.0 to 6.0 mr/hr
 HOST The deposit occurs in shale seams of the Pennsylvanian Weber Formation.
 STRC The seams sampled strike N12°W and N30°W and dip roughly S30°W.
 ALT Hydrothermal alteration is present, and is probably Tertiary in age.
 MNZ The radioactive minerals are too fine grained for megascopic determination, but occur in shale seams from one to several in. thick. One sample assayed 0.032% ²³⁸U308 and 0.019% ²³⁵U308.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Lake County, Colorado. Emmons, S. F., Irving, J. D., and Loughlin, G. F., 1927, U.S. Geol. Survey Prof. Paper 148.

Griffin Mines

LOCATION: SW1/4SW1/4 sec. 6, T. 9 S., R. 80 W.
 QUAD Homestake Reservoir 7 1/2', Leadville North 7 1/2'
 MAP LEADVILLE
 DVEL There are several caved adits, and one shaft about 40 ft deep. There are also numerous small prospect pits and caved shafts.
 BKG .4 to 1.2 mr/hr
 RNG 3.0 to 8.0 mr/hr
 HOST The host rock is Precambrian granite and schist.
 STRC The host is cut by a Tertiary fracture zone. The main Griffin vein strikes N70°E and dips 70°SE, with branches extending off.
 ALT The host is reported as often altered and silicified.
 MNZ Gold, silver, galena, and sphalerite were all mined in the area. The radioactive minerals were not identified. Secondary minerals present include quartz, pyrite, brecciated chert, and ilmonite.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Report, Lake County, Colorado. Singewald, Q. D., 1955, U.S. Geol. Survey Bull. 1027-E, p. 251-299. Pierson, C. T., and Singewald, Q. D., 1954.

Huckleberry Mine

LOCATION: NW1/4NE1/4 sec. 6, T. 9 S., R. 80 W.
 LCRM The mine is up Gleason Gulch Road.
 QUAD Leadville North 7 1/2', Homestake Reservoir 7 1/2'
 MAP LEADVILLE
 DVEL The main shaft is inclined at an altitude of 10,163 ft. Two other workings, one above

the main shaft and one below, are represented by large dumps. All workings are inaccessible.
 BKG .6 to 1.2 mr/hr
 RNG 1.4 to 10 mr/hr
 HOST The host consists of the local Precambrian granite and Precambrian granitized schist in an area composed largely of schist. The almost completely silicified wall rock is transected by veinlets of quartz with erratic sulfides - all partially oxidized.
 STRC The host is cut by Tertiary fissure veins. The main vein appears to strike N55°E with a dip to the southeast.
 ALT All of the rocks are sericitized and most are silicified.
 MNZ The submarginal vein material consists of quartz with pyrite and very sparse galena. The uranium minerals apparently are intermixed in iron staining and are not megascopically identifiable.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Report, Lake County, Colorado. Singewald, Q. D., 1955, U.S. Geol. Survey Bull. 1027-E, p. 251-299. Pierson, C. T.; and Singewald, Q. D., 1954.

Joste May

LOCATION: SW1/4 sec. 7, T. 9 S., R. 80 W.
 LCRM 3,200 ft S 37°W of the intersection of latitude 39°17'30"N and longitude 106°22'30"W.
 QUAD Homestake Reservoir 7 1/2', Leadville North 7 1/2'
 MAP LEADVILLE
 DVEL There is one inclined shaft, partially flooded, and numerous surface pits and cuts.
 BKG .4 to 2.0 mr/hr
 RNG 20.0 mr/hr
 HOST Tertiary fracture fillings and disseminations occur in Precambrian granite, schist, and hybrid rock. A Tertiary white, porphyry and a jasperoid occur nearby.
 MNZ Torbernite is the main radioactive mineral present. Gangue minerals include turquoise and other secondary copper minerals, ilmonite, and altered wall rock minerals.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Lake County, Colorado. Singewald, Q. D., 1955, U.S. Geol. Survey Bull. 1027-E, p. 251-299. Pierson, C. T., and Singewald, Q. D., 1954.

Rosse Tunnel

LOCATION: SW1/4NE1/4 sec. 1, T. 9 S., R. 81 W.
 LCST UNSURVEYED
 QUAD Homestake Reservoir 7 1/2'
 MAP LEADVILLE
 DVEL Caved adits and a caved shaft are present on the property.
 BKG .8 mr/hr
 RNG 1.0 to 1.8 mr/hr
 HOST The host rock is Precambrian granite and schist, cut by Tertiary fractures.
 STRC Veins present appear to strike NE to SW.
 ALT The veins are pyritized and silicified.
 MNZ The radioactive minerals are not megascopically

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visible, but occur as fracture coatings and dissemination. The fracture surfaces are ilmonite stained.

DOI 1951
REF U.S. A.E.C., 1966, Preliminary Reconnaissance Report, Lake County, Colorado. Singewald, Q. D., 1955, U.S. Geol. Survey Bull. 1027-E, p. 251-299. Pierson, C. T., and Singewald, Q. D., 1954, U.S. Geol. Survey Circ. 321, 17 p.

Turquoise Chief (Poor Boy)

LOCATION: SW1/4 sec. 7, T. 9 S., R. 80 W.
LCRM This deposit also extends into sec. 6.
QUAD Homestake Reservoir 7 1/2', Leadville North 7 1/2'
MAP LEADVILLE
DVEL There is one caved adit, a caved incline, and a small open cut.
BKG .4 to 2.0 mr/hr
RNG 3.4 to 8 mr/hr
HOST The host rock is a Precambrian granite (Silver Plume?, St. Kevin granite?)
STRC The wall rock is cut by Tertiary fractures, which localized the ore deposition.
ALT Granite reported to be altered.
MNZ The primary ore mined was turquoise. Secondary minerals include green copper minerals and undetermined radioactive minerals. Limonite, quartz, and altered granitic minerals make up the gangue.

DOI 1951
REF U.S. A.E.C., 1966, Preliminary Reconnaissance Report, Lake County, Colorado. Eckel, E. B., 1961. Singewald, Q. D., 1955, U.S. Geol. Surv. Bull. 1027-E, p. 251-299. Pierson, C. T., and Singewald, Q. D., 1954.

Unnamed 1

LOCATION: SE1/4SW1/4 sec. 32, T. 8 S., R. 80 W.
LCRM The claim is about 0.1 mile east of the mouth of Temple Gulch.
QUAD Leadville North 7 1/2'
MAP LEADVILLE
DVEL There are six shallow shafts and numerous prospect pits on both sides of the road.
BKG .06 to .127 cps
RNG .2 to 6.07 cps
HOST The host is Precambrian granite cut by Tertiary fissure zones.
ALT Granite ranges from relatively unaltered to moderately silicified and sericitized.
MNZ The radioactive minerals were not determinable in hand specimen. In general, the radioactivity is strongest in the least altered granite. In the sample taken, a brown mineral seemed to be responsible for the greatest radioactivity. Freshly broken surfaces of the fine-grained, highly silicified rock exhibited almost as much radioactivity as did ilmonite-stained fracture surfaces. Samples taken from nearby range from 2 to 5 times background.

RMKS 1951
REF U.S. A.E.C., 1966, Preliminary Reconnaissance Report, Lake County, Colorado. Singewald, Q. D., 1955, U.S. Geol. Survey Bull. 1027-E, p. 251-299. Pierson, C. T., and Singewald, Q. D., 1954.

Unnamed 2

LOCATION: sec. 12, T. 9 S., R. 81 W.
LCRM The prospect is 2,270 ft N75°W from the southwest corner of sec. 7, T. 9 S., R. 80 W.
QUAD Homestake Reservoir 7 1/2'
MAP LEADVILLE
DVEL There is one caved adit.
BKG .6 to .8 cps
RNG 16 to 100 cps
HOST The host rock is Precambrian granite that has been fractured.
STRC Faulting?
MNZ Sooty pitchblende (?) coats the fracture surfaces of pyritic, siliceous vein material found on the dump. Unpyritized fissures are also anomalous, but are lower in radioactivity than the more fractured, pyritized samples.

DOI 1951
REF U.S. A.E.C., 1966, Preliminary Reconnaissance Report, Lake County, Colorado. Singewald, Q. D., 1955, U.S. Geol. Survey Bull. 1027-E, p. 251-299. Pierson, C. T., and Singewald, Q. D., 1954.

Unnamed 3

LOCATION: NW1/4 sec. 6, T. 9 S., R. 80 W.
QUAD Homestake Reservoir 7 1/2', Leadville North 7 1/2'
MAP LEADVILLE
DVEL There are three caved adits; one caved shaft, and one accessible shaft.
BKG .6 to .8 cps
RNG 1.6 to 3.2 cps
HOST The host rock is Precambrian granite and schist with mineralization that is Tertiary in age.
ALT Some of the granite is silicified. There is hydrothermal alteration reported.
MNZ The radioactive minerals are not megascopically visible, but occur as disseminations and fracture coatings. The coatings are black and sooty, and have associated pyrite, quartz, galena, and sphalerite. The radioactivity does not seem to be greatly affected by alteration of the Precambrian rocks. Some ilmonite staining is present.

DOI 1951
REF U.S. A.E.C., 1966, Preliminary Reconnaissance Report, Lake County, Colorado. Singewald, Q. D., 1955, U.S. Geol. Survey Bull. 1027-E, p. 251-299. Pierson, C. T. and Singewald, Q. D., 1954.

Unnamed 4

LOCATION: sec. 1, T. 9 S., R. 81 W.
LCST UNSURVEYED
LCRM The prospects lie between 2,230 and 2,950 ft in distance, and between N89°W and S59°W from sec. 7, T. 9 S., R. 80 W. The occurrence also extends into sec. 12.
QUAD Homestake Reservoir 7 1/2'
MAP LEADVILLE
DVEL There are several shallow prospect pits and caved shafts.

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BKG .8 - 1.0 cps
 RNG 1.4 to 4.0 cps
 HOST The host rock is Precambrian granite, schist, and a jasperoid.
 ALT Some of the granite is fresh, some is weathered. Two shallow pits have very slightly altered granite.
 MNZ The radioactive minerals are not visible megascopically. They would appear to be disseminated, and associated with fracture coatings.
 RMKS Five prospects were sampled. Their locations are: 2,575 ft N89°W; 2,260 ft 575°30'W; 2,405 ft S66°W; 2,590 ft S59°W; and 2,230 ft S66°W; all directions taken from the northwest corner of sec. 7, T. 9 S., R. 80 W.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Report, Lake County, Colorado. Singewald, Q. D., 1955, U.S. Geol. Survey Bull. 1027-E, p. 251-299. Pierson, C. T. and Singewald, Q. D., 1954.

Unnamed 5

LOCATION: W1/2 sec. 13, T. 9 S., R. 81 W.
 QUAD Homestake Reservoir 7 1/2'
 MAP LEADVILLE
 DVEL There are three adits.
 BKG .6 to 1.8 mr/hr
 RNG 4 to 20 mr/hr
 HOST The host rock is Precambrian granite, cut by Tertiary veins and disseminations.
 STRC There are fissures and breccia zones present. The mineralized vein strikes N25°E, N80°E, and N5°W. Dips are generally 55° to 60°NW.
 MNZ The radioactive minerals are not megascopically visible, but occur in pyritized, silicified granite in fissure zones.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Report, Lake County, Colorado. Singewald, Q. D., 1955, U.S. Geol. Survey Bull. 1027-E, p. 251-299. Pierson, C. T. and Singewald, Q. D., 1954.

Unnamed 6

LOCATION: sec. 12, T. 9 S., R. 81 W.
 QUAD Homestake Reservoir 7 1/2'
 MAP LEADVILLE
 DVEL There are three caved adits and two caved shafts.
 BKG .6 to 1.0 mr/hr
 RNG 1.6 to 2/4 mr/hr
 HOST The host rock is Precambrian granite and schist with Tertiary mineralization.
 ALT The hosts are often silicified and pyritized.
 MNZ The radioactive minerals are not megascopically determinable. They occur as disseminations and fracture coatings of hematite and limonite on granite and schist.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Report, Lake County, Colorado. Singewald, Q. D., 1955, U.S. Geol. Survey Bull. 1027-E, p. 251-299. Pierson, C. T. and Singewald, Q. D., 1954.

Unnamed 7

LOCATION: sec. 7, T. 9 S., R. 80 W.
 LCRM 3842 ft S62°E from the northwest corner of sec. 7.
 QUAD Leadville North 7 1/2', Homestake Reservoir 7 1/2'
 MAP LEADVILLE
 DVEL There is one small pit, about three ft deep.
 BKG .6 to 1.2 mr/hr
 RNG 6.0 mr/hr
 HOST The host rock is a Precambrian schist, deeply permeated by iron-oxide stain.
 STRC The host is cut by Tertiary veins.
 MNZ The minerals are not megascopically identifiable because of their admixture with the iron oxide fracture coatings.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Report, Lake County, Colorado.

Unnamed 8

LOCATION: NW1/4 sec. 7, T. 9 S., R. 80 W.
 LCRM 800 ft S5°W of the Josie May Mine (which is 3,200 ft S371/2°W of intersection of latitude 39°17'30"N and longitude 106°22'30"W.)
 QUAD Homestake Reservoir 7 1/2', Leadville North 7 1/2'
 MAP LEADVILLE
 DVEL There is one small prospect pit.
 BKG .4 - 1.6 mr/hr
 RNG 8.0 mr/hr
 HOST The host is Precambrian schist with some granite and pegmatite present.
 STRC Tertiary fracture cut the host.
 MNZ The radioactive minerals are not megascopically determinable, but occur as a film on fracture surfaces. Limonite is present, and specularite is present but scarce.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Report, Lake County, Colorado. Singewald, Q. D., 1955, U.S. Geol. Survey Bull. 1027-E, p. 251-299. Pierson, C. T. and Singewald, Q. D., 1954.

Wilkesbarre Mine (Wilkes Barre Tunnels)

LOCATION: S1/2NW1/4 sec. 6, T. 9 S., R. 80 W.
 QUAD Homestake Reservoir 7 1/2', Leadville North 7 1/2'
 MAP LEADVILLE
 DVEL There are three adits (only the lowest of which was accessible), four caved shafts, and numerous prospect pits. The size of the dumps indicate fairly extensive underground workings.
 BKG .6 to 1.2 mr/hr
 RNG 1.8 to 4.0 mr/hr
 HOST The wall rocks are Precambrian silicified and sericitized granite, some of which is manganese stained while some is limonite coated. They are cut by Tertiary veins.
 STRC The main Wilkesbarre vein strikes N58°W and dips 70°SE.
 ALT Sericitization and silicification are present in the mine.
 MNZ The radioactivity is found in two types

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of dump material. The first is as a pyrite-bearing very fine-grained vein quartz and gouge. The second is an intensely sericitized, fine-grained, granular rock that may be granitized schist. The radioactive minerals are probably secondary, but are too fine-grained to be megascopically identified. Limonite is often associated with the radioactive minerals. Grab and chip samples assay between 0.009 and 0.018% ^{238}U and 0.002 and 0.013% ^{235}U .

DOI
REF

1951
U.S. A.E.C., 1966, Preliminary Reconnaissance Report, Lake County, Colorado. Singewald, Q. D., 1955, U.S. Geol. Survey Bull. 1027-E, p. 251-299. Pierson, C. T. and Singewald, Q. D., 1954.

LA PLATA COUNTY

Production of uranium from La Plata County has been very limited. Records show that by 1971, 687 tons had been mined that yielded 1,029 lb of U_3O_8 . Potential is good that more reserves of uranium may be found in the county.

La Plata County is on the southwestern edge of the San Juan Mountains, and it falls into two geological structural areas--the San Juan Uplift on the north, and the San Juan Basin on the south. The San Juan Uplift has exposed Precambrian rocks in the northwestern area, such as the Needles Mountains. Associated with the uplift are the intrusive rocks of the La Plata Mountains complex, a small uplift in the northwestern corner of the county. Sheetlike igneous bodies and sills have intruded Upper Paleozoic sediments. The San Juan Basin is a large sediment-filled basin that extends into New Mexico where in it 50 percent of the uranium reserves of the United States. The Grants Mineral Belt contains sandstone-type deposits in the Jurassic Morrison Formation.

The four deposits which have produced uranium include Black Hawk, Good Hope-Nevada Group, Lucky

Lepracon, and Shorty Lode. Two of these producers, the Black Hawk and the Lucky Lepracon are unlocatable. The most important producer in the county is the Good Hope-Nevada Group, which accounts for 95 percent of all tonnage and produces ore from the Entrada Sandstone. The deposit is part of the Entrada roscoelite belt, which includes the Grays III Mine in San Juan County, the mines around Placerville, San Miguel County, and the Rifle Mine in Garfield County. Roscoelite occurrences in the Entrada Sandstone yield principally vanadium with uranium as a by-product.

The potential for more reserves to occur in the county is good. Uranium occurrences are reported over a 36-sq-mi area around Thunder Mountain in the Needle Mountains. This area has favorable potential for vein type occurrences, although environmental problems must be addressed. More reserves of the Entrada roscoelite-type may occur in the Entrada Sandstone in the northwestern part of the county. Lastly, the San Juan Basin in the southern part of the county has potential for sandstone-type occurrences.

LA PLATA COUNTY

Black Hawk

LOCATION:
 LCST UNLOCATABLE
 PROD As of 1971, 23 tons had been mined at a grade of 0.04% U308, producing 18 lbs of U308, and 0.02% V205, producing 9 lbs of V205.
 HOST The host is Permian Cutler Formation.
 RMKS Possibly a duplicate of one of the located occurrences in this county.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Cape of Good Hope

LOCATION: W1/2 sec. 29, T. 38 N., R. 10 W.
 LCST UNSURVEYED
 LCRM Also W1/2E1/2 sec. 30, T. 38 N., R. 11 W.
 QUAD Orphan Butte 7 1/2'
 RNG 10 x bg
 HOST The roscoelite type mineralization in the Jurassic Entrada Sandstone or base of the Salt Wash Member of the Jurassic Morrison Formation.
 DOI 1977
 REF Western Nuclear Submittal file, 1977.

Good Hope-Nevada Group

LOCATION: NW1/4 sec. 29, T. 36 N., R. 10 W.
 LCRM Claims are also in sec. 19, 20, & 30, T. 36 N., R. 10 W. This is part of the Lightner Creek district in the U.S. A.E.C. Production Reports.
 QUAD Durango West 7 1/2'
 MAP DURANGO
 PROD There were 650 tons of ore mined by 1971, at grades of 0.07% U308 and 1.66% V205, producing 956 lbs of U308 and 21,578 lbs of V205.
 HOST Bedded deposit in Entrada Sandstone.
 MNZ Uranium, vanadium of the roscoelite type, with assays of 0.60% U308, and 20.4% V205.
 DOI 1971
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., RMO-453, U.S. A.E.C., 1971, Production Records, Colorado.

Lucky Leprecon

LOCATION:
 LCST UNLOCATABLE
 LCRM Reported to be in the Lightner Creek district.
 PROD As of 1971, 8 tons had been mined at a grade of 0.24% U308 producing 39 lbs of U308, and 1.17% V205, producing 187 lbs of V205.
 HOST Jurassic Entrada Sandstone.
 MNZ Roscoelite type.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Schafer Ranch

LOCATION: NE1/4 sec. 6, T. 35 N., R. 9 W.

LCRM Mine is shown on slope above Chapman Lake on topo map.
 QUAD Durango West 7 1/2'
 MAP CORTEZ
 HOST Zones of asphaltite in a fine-grained, white to light gray sandstone in the middle of the Lower Cretaceous Burro Canyon Formation.
 MNZ Asphaltite containing minute crystals of thorite and anatase. This is a heavy mineral stream deposit. A (channel?) sample of a 30 ton volume had a value of 1.52% ThO2.
 DOI 1955
 REF W. L. Chenoweth, 1978, Personal Communication. Houston, R. S., and Murphy, J. F., 1970. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, La Plata County, Colorado.

Shorty Lode

LOCATION: sec. 5, T. 36 N., R. 11 W.
 LCRM Also reported in sec. 6.
 QUAD La Plata 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 6 tons were mined at a grade of 0.13% U308, producing 16 lbs of U308 and 0.10% V205, producing 12 lbs of V205.
 HOST Vein in Late Tertiary syenite stock.
 MNZ Uranophane with Au, Ag, Pb, Zn.
 DOI 1977
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. Eckel, E. B., 1949, U.S. Geol. Survey Prof. Paper 219.

Texarado Oil Uranium Co.

LOCATION: sec. 5, T. 36 N., R. 11 W.
 LCRM Also reported in sec. 6.
 QUAD La Plata 7 1/2'
 MAP CORTEZ
 HOST Shear in syenite stock.
 STRC Shear.
 MNZ Uranium.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.

Thunder Mountain (Florida Mountain)

LOCATION: sec. 3, T. 38 N., R. 7 W.
 LCRM T. 38-39 N., R. 6-7 W.
 QUAD Mountain View Crest 7 1/2', Columbine Pass 7 1/2'
 MAP CORTEZ
 BKG 100-300 cps
 RNG to 50,000 cps
 HOST Fractures in Precambrian granite, age - 1.35 B.Y.
 STRC Faults and fractures sets.
 ALT Zonal; chloritic - propylitic-argillic.
 MNZ Uraninite, gummite, pyrite, fluorite, chalcedony.
 RMKS It was reported that there are anomalies over an area of 10 square miles. Also that the mineralization is not Tertiary but 1.34 B.Y. old.
 DOI 1977
 REF Larry Milliken and Bill Carlson, 1977, Personal Communication. Field Investigation, 1977. Maxwell, J. C., 1977. Hemingway, B., 1976, Showdown on the Weminuche: Empire Magazine,

LA PLATA COUNTY

The Denver Post, Nov. 7, 1976, Denver, CO,
p. 10-18.

Tomahawk Mine

LOCATION: sec. 28, T. 37 N., R. 11 W.
LCST UNSURVEYED
LCRM Located on the northeast slope of Basin
Creek at an elevation of 10,800 ft.
QUAD La Plata 7 1/2'
MAP CORTEZ
DVEL Inactive gold mine.
HOST Vein in Tertiary diorite and breccia.
ALT Silicification and decomposition.
MNZ Pyrite, traces of other sulphides, quartz.
No uranium minerals identified. Channel
samples had values ranging from 0.02 to
0.38% U3O8.
RMKS It is reported that two miles southwest
of the Tomahawk vein is another vein which
shows equal uranium values.
DOI 1954
REF U.S. Geol. Survey, 1977, CRIB File. U.S.
A.E.C., 1966, Preliminary Reconnaissance
Reports, La Plata County, Colorado. Eckel,
E. B., 1949, U.S. Geol. Survey Prof. Paper
219.

Tripp Gulch Property

LOCATION: S1/2 sec. 4, T. 36 N., R. 9 W.
LCRM Original directions are as follows: "Travel
north from Durango on US 550 for 8 miles.
At Thompson home, near mouth of Tripp Gulch,
turn west and follow unimproved road for
about one mile to drilling area".
QUAD Hermosa 7 1/2'
MAP CORTEZ
HOST Gray to black very fine-grained bedded to
shaley carbonaceous sandstone of the Permo-
Pennsylvanian Rico Formation.
MNZ The mineralized bed is from 0.5 to 1 ft
thick and extends for 150 ft. Uranium minerals
are reported but are not identified.
DOI 1955
REF W. L. Chenoweth, 1978, Personal Communication.
U.S. A.E.C., 1966, Preliminary Reconnaissance
Reports, La Plata County, Colorado.

LARIMER COUNTY

Minor production of uranium reported within the county totals about 791 tons that contained 4,144 lb of U_3O_8 . A few tons came from rare-earth and uranium-bearing pegmatites and from small occurrences in the Dakota Sandstone. The rest, 633 tons, came from the Copper King Mine at an average grade of 0.30 percent U_3O_8 , containing 3,771 lb of U_3O_8 . Potential is moderate for more reserves to be found.

Larimer County lies in north-central Colorado, straddling the Rocky Mountain and Great Plains physiographic provinces. The western three-quarters of the county are dominated by the Precambrian mountains of the Front Range and the Medicine Bow Mountains. The Precambrian rocks are primarily metamorphosed sedimentary rocks, intruded by granites and other related igneous masses. In the eastern section of the county the formations range within a very short distance from Paleozoic to Late Cretaceous in age. The sedimentary formations are upturned along the edge of the Front Range, but are relatively flat-lying eastward onto the plains.

By far the most important known occurrence of uranium in Larimer County is at the Copper King mine, discovered to contain uranium ore in 1949. It was one of the initial vein-uranium discoveries in the Front Range outside the Colorado mineral belt. Two major types of mineral deposits are present at the mine: 1) a skarn containing pyrometasomatic massive sulfide-magnetite ore, and 2) uranium minerals in veins that cut the skarn. The sulfide ore is late Precambrian in age and includes pyrite, sphalerite, chalcopyrite, pyrrhotite, and some magnetite. The uranium ore is probably early Tertiary in age and includes uraninite, coffinite, and UO_3 -rich pitchblende.

The rare-earth and uranium-bearing pegmatites are found in the Crystal Mountain district west of Loveland and Fort Collins, and in other areas of Precambrian terrane. The pegmatites are associated with late Precambrian granitic sills and dikes that intruded the older Precambrian metamorphics of the Front Range. Minor amounts of copper, beryl, mica, and gold were found in the Crystal Mountain district and have been mined sporadically since 1884. Uranium and rare-earth minerals were mined from the pegmatites during the late 1940's and early 1950's. A few small deposits of carnotite have also been found and mined to a small extent in the Dakota Sandstone along the Front Range.

Larimer County has potential for uranium reserves and resources both in Precambrian rocks and in sedimentary terrane. While uranium production from the pegmatites will probably remain small or nonexistent, other deposits in the Precambrian rocks similar to the Copper King Mine are likely to exist. Detection of these vein-type deposits is very difficult, and airborne scintillometer scans followed by ground reconnaissance are required to locate them. Because the Copper King vein was not exposed at the surface (the uranium ore was discovered on the dump of the old workings), similar undiscovered veins likely will lack surface expression. Complicating matters, the entire area is mantled by glacial deposits of generally unknown thickness. The Dakota Sandstone is the most likely sedimentary formation to contain uranium resources because small occurrences are known within it and because geologically similar deposits have been mined from the Dakota in other parts of the state.

LARIMER COUNTY

A. L. Stein Ranch (Stein Ranch)

LOCATION: NW1/4SW1/4 sec. 15, T. 7 N., R. 70 W.
 QUAD Horsetooth Reservoir 7 1/2'
 MAP GREELEY
 DVEL Three bench cuts were bulldozed. These varied in length from 80 to 200 ft, and went to a maximum eight ft deep.
 BKG .015 mr/hr
 RNG .3 to 1.0 mr/hr
 HOST The host consists of small, irregular zones of relatively unaltered Precambrian pegmatite and coarse-grained granite. It has intruded biotite schist, and several of those contacts were investigated. No relation between those contacts and mineralization could be found.
 STRC Joint sets trend N80°E and N52°E and dip nearly vertically. Locally, these joint planes delimit the mineralized zones, but in general there is a marked absence of persistence to the controlling structures and a lack of continuity of mineralized zones. The mineralized exposures are about 300 yds east of a NW trending fault which is more than 10 miles in length.
 MNZ Oxidized uranium minerals (autunite and torbernite ?) appear as fracture and grain coatings.
 RMKS Radioactivity was also reported along the nearby fault where it is mantled with overburden.
 DOI 1956
 REF U.S. A.E.C. 1966, Preliminary Reconnaissance Reports, Larimer County, Colorado.

Batterson Lode

LOCATION: sec. 16, T. 9 N., R. 73 W.
 QUAD Rustic 7 1/2'
 MAP GREELEY
 DVEL There is a 30 ft shaft.
 BKG .05 mr/hr
 RNG To .2 mr/hr
 HOST The host is a medium-grained Precambrian granite.
 STRC A quartz vein striking N70°E, and about 2 in. wide contains the mineralization.
 MNZ Pyrite is disseminated in the granite matrix for a distance of several ft, adjacent to the quartz vein. A parallel 2 in. vein of specular hermatite is exposed in the shaft. Sooty pitchblende is the only other visible mineral, and it occurs associated with the pyrite as blebs in fracture zones.
 DOI 1954
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Larimer County.

Big Boulder Prospect (Boulder Rock)

LOCATION: SE1/4 sec. 36, T. 7 N., R. 72 W.
 QUAD Crystal Mountain 7 1/2'
 MAP GREELEY
 PROD In 1941, 500 lbs of beryllium, feldspar, rare earths, spodumene and mica were mined.

U.S. A.E.C. Production Records show 6 tons of uranium ore mined at a grade of 0.10% U308, producing 12 lbs of U308 in 1951.
 HOST The deposit is in a pegmatite cutting Precambrian mica schist. The pegmatite is concordant, striking N2-10°E, and dipping vertically.
 MNZ Ore minerals of the pegmatite include beryl, tourmaline, apatite, garnet, spodumene, autunite, muscovite, perthite, and quartz.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. U.S. Bur. of Mines, 1966, I.C. 8298, p. 29. U.S. Geol. Survey, 1955, Bull. 1011, p. 88.

Carter Lake

LOCATION: sec. 3, T. 4 N., R. 70 W.
 QUAD Carter Lake Reservoir 7 1/2'
 MAP GREELEY
 MNZ Uranium minerals are present, with a sample value of 0.12% U308.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.

Copper King Shaft (Cherokee Mines, Ismert Property, Black Hawk Claims, Black Hawk Mine E)

LOCATION: sec. 8, T. 10 N., R. 72 W.
 QUAD Haystack Gulch 7 1/2'
 MAP GREELEY
 DVEL There is a two compartment, 60 ft shaft, 100 ft of drift, and a 14 ft winze on the 60 ft level.
 PROD According to CRIB, 55 tons of zinc ore and 45 tons of uranium ore were mined during 1950-1951. The U.S. A.E.C. files show that 633 tons were mined at a grade of .30% U308, producing 3,771 lbs of U308 in 1951 through 1954. Thirteen lbs of V205 were recovered.
 RNG 4 to 300 x bg
 HOST The host is the Precambrian Sherman Granite in an area where late Precambrian pyrite-quartz veining has occurred. The ore body is tabular shaped, measuring roughly 2 x 20 x 50 ft.
 STRC The ore body occurs in a steeply dipping vein located in a fracture zone.
 ALT An altered zone surrounds the mineralization.
 MNZ The primary ore minerals are pyrite, marmatite, chalcopryite, and pitchblende. Gangue minerals include biotite, amphibole, quartz, carbonate, and chlorite.
 DOI 1971
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Larimer County, Colorado. Sims, P. K., Phair, G., and Moench, R. H., 1958. U.S. Geol. Survey, 1952, TEI-311. U.S. Geol. Survey TEMR-128-A, Granger, H. C., and King, R. U., 1951. U.S. Geol. Survey TEMR-129, Granger, H. C., and King, R. U., 1950.

Estes Bell (Hilltop)

LOCATION: sec. 16, T. 6 N., R. 71 W.
 QUAD Drake 7 1/2'

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MAP GREELEY
 HOST The deposit lies in a vein cutting the Precambrian granite schist of the Idaho Springs Formation.
 DOI 1977
 REF U.S. Geol. Survey, 1977, CRIB File.

Eureka Group

LOCATION: N1/2 sec. 14, T. 7 N., R. 72 W.
 QUAD Crystal Mountain 7 1/2'
 MAP GREELEY
 PROD U.S. A.E.C. Production Records show 6 tons mined at a grade of .12% U3O8, producing 13 lbs of U3O8 in 1956.
 BKG .05 mr/hr
 RNG To 4.5 mr/hr
 HOST The host rock is a quartz-biotite schist of the Idaho Springs Formation that has been intruded by pegmatite. The ore lies on the contact between the pegmatite and schist on the pegmatite side.
 STRC The general strike of the pegmatite is N80°W. The contact is nearly vertical. There is a diamond mesh fracture pattern present. The individual rock fragments are a rough diamond shape and generally about 1 x 2 ft. Fracture surfaces show no evidence of movement.
 MNZ Uranophane (?) and a green uranium mineral are impregnated through the pegmatite. Two channel samples assayed at 0.06 and 0.08% eU3O8. A chip sample assayed at 0.25% eU3O8. The secondary minerals are shown by U.S. A.E.C. Records to be autunite. CRIB lists torbernite as one of the secondaries.
 DOI 1956
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Larimer County, Colorado.

Hide Above Lode

LOCATION: sec. 18, T. 6 N., R. 71 W.
 QUAD Drake 7 1/2'
 MAP GREELEY
 DVEL There is at least one trench in the area, roughly 6 ft deep by 10 ft long.
 PROD About 1 1/2 tons of triphylite were stockpiled.
 RNG .5 to 1.0 mr/hr
 HOST The operators are mining into pegmatite bodies.
 MNZ Beryl, tourmaline, and triphylite are found in the uppermost trench, and secondary yellow and orange uranium minerals (gummite and autunite ?) are near the surface in specimen amounts. Some primary uraninite occurs in the pegmatites. One uranium sample assayed 0.046% eU3O8 and 0.045% U3O8.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Larimer County, Colorado.

Hyatt Ranch

LOCATION: NE1/4NW1/4 sec. 28, T. 6 N., R. 71 W.
 QUAD Drake 7 1/2'
 MAP GREELEY

PROD One hundred tons of beryllium ore were mined between 1936 and 1948.
 HOST The deposit is in a pegmatite cutting Precambrian biotite granite and quartz mica schist. The pegmatite is zoned and is over 8,100 ft long.
 MNZ Ore minerals include beryl, bismuthinite, and uraninite.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Larimer County, Colorado. U.S. Geol. Survey, 1955, Bull. 1011, p. 71. Guilloffe, G. B., 1944 (RMO-49).

Lucky Strike Claims

LOCATION: sec. 10, T. 8 N., R. 75 W.
 QUAD Boston Peak 7 1/2'
 MAP GREELEY
 HOST The deposit lies in pegmatites cutting Precambrian metamorphics and intruded by Silver Plume Granite.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.

New Hope Claims

LOCATION: sec. 19, T. 6 N., R. 71 W.
 QUAD Glen Haven 7 1/2'
 MAP GREELEY
 DVEL Some surface work has been carried out.
 PROD The mine produced in the past, but no records are available.
 MNZ Uranium mineralization is present.
 DOI 1975
 REF U.S. Bur. of Mines, 1977 (Unpubl.).

Red Head Claim

LOCATION: NE1/4 sec. 33, T. 11 N., R. 72 W.
 QUAD Cherokee Park 7 1/2'
 MAP GREELEY
 DVEL Beryl crystals were mined on the property.
 HOST The host is a Precambrian granite with pegmatite bodies.
 MNZ Beryl crystals 15 in. in diameter are associated with beryl-gummite, columbite-tantalite, cyrtolite-monazite, quartz, feldspar, and mica. The radioactivity is caused primarily by thorium and rare earth minerals. A chip sample assays 2.5% eU, 1.82% U, and 3.66 ThO2.
 DOI 1951
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Larimer County, Colorado.

Robinson Ranch and Boy Scout Camp

LOCATION: sec. 13, T. 9 N., R. 73 W.
 LCRM The deposit also extends to sec. 14, T. 9 N., R. 73 W. and to sec. 18, T. 9 N., R. 72 W.
 QUAD Rustic 7 1/2'
 MAP GREELEY
 RNG To 10 x bg

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RMKS Airborn anomalies with the ground anomalies being found in areas where there are veinlets of hematitic ilmonite in a red granite.
 REF R. U. King, 1977, Personal Communication.

Sheep Creek Prospect

LOCATION: sec. 6, T. 11 N., R. 74 W.
 LCRM Also in sec. 14, T. 11 N., R. 75 W.
 QUAD Eaton Reservoir 7 1/2'
 MAP GREELEY
 DVEL This prospect has not produced to date.
 HOST The radioactivity occurs in Precambrian (Sherman?) Granite, in pegmatitic segregations of hornblende material in a granite and quartz monzonite. Hornblende material from the most anomalous pit had the following petrographic description, microcline-hornblende granite, abundant sphene (?) and alteration (leucoxene) totaling 18% of sample.
 STRC Strike of the segregations is NW-SE. There is some jointing and shearing.
 ALT No secondary uranium mineral are visible.
 MNZ 0.01 to 0.03 eU308 with up to 0.83% eU308 reported. Also to 20% ThO2. The mineralization also includes monazite and thorite at less than 1%.
 RMKS This has been reported as radioactivity in Precambrian rock along decompression sheeting in granite.
 DOI 1975
 REF Roy Barkely, 1977, Personal Communication. Mike Wendell, 1977, Personal Communication. R. U. King, 1977, Personal Communication.

Soda Springs Group (1-8)

LOCATION: N1/2 sec. 7, T. 8 N., R. 73 W.
 LCST UNSURVEYED
 QUAD Rustic Quad 7 1/2'
 MAP GREELEY
 DVEL One prospect pit.
 PROD 2 tons ore ? shipped in early 1950's.
 BKG 80 cps
 RNG 300 to 10,000 cps
 HOST The host is a 15 ft x 250 ft Precambrian pegmatite body in a layered quartz-feldspar amphibole gneiss with aplitic fine-grained to pegmatite stringers. The foliation trends N15°E, dips + 75°SE.
 MNZ The mineralization is in the central part of the pegmatite in the form of a yellow secondary uranium mineral. There are no primary minerals. The radioactivity is associated with smoky quartz. The uranium mineral(s) coat grains and fracture surfaces, permeating some of the mineral grains. The hottest spots appear to be associated with biotite segregations.
 RMKS The pegmatite is zoned: a 2 ft outer zone is feldspar-rich, with large nine in. blades & books of biotite; the borders have a slight hematite stain. The inner zone is quartzose, graphic granite, with some barren, bull quartz.
 REF Charles Line, 1977, Personal Communication.

Spring Claim (Revis Claim, Unnamed Claim, Spring 1 Claim)

LOCATION: SE1/4NE1/4 sec. 15, T. 8 N., R. 75 W.
 LCST UNSURVEYED
 LCRM The site is near the Sleeping Elephant camp site on U.S. Highway 287.
 QUAD Boston Peak 7 1/2'
 MAP GREELEY
 DVEL A 13 ft deep prospect pit was sunk over the radioactive high. An area above the radioactive spring has been bulldozed, leaving a 200 x 100 ft flat area.
 PROD Approximately 40 tons of ore grade material was stockpiled on the surface.
 BKG .02 mr/hr
 RNG .3 to 2.5 mr/hr
 HOST The deposit is located at the contact of a very acidic Precambrian granite with a Precambrian biotite schist of the Idaho Springs Formation. There are small acidic pegmatites of pink feldspar phenocrysts up to one inch across, and quartz.
 STRC The mineralization occurs along fracture faces in the granite associated with the small pegmatites. A large shear zone cuts the area.
 ALT The granite has been sericitized and ilmonitized above the mineralization.
 MNZ Autunite and ilmonite could be megascopically identified and a yellow-green non-fluorescent uranium mineral was associated with the autunite. Chip and channel samples collected ranged from 0.021 to 0.032% eU308. A ilmonite precipitate at the nearby spring contains 0.045% eU308 and an associated hematite deposit contains 0.021% eU308. Sooty pitchblende was discovered on fracture faces in the bottom of the prospect pit. Mineralization appears to strike ± 70° to the south.
 DOI 1954
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Larimer County, Colorado.

Unnamed Radioactive Spring 1

LOCATION: NE1/4 sec. 7, T. 8 N., R. 73 W.
 LCST UNSURVEYED
 QUAD Rustic Quad 7 1/2'
 MAP GREELEY
 BKG 80 cps
 RNG To 800 cps
 HOST The host is a spring in Precambrian quartz-feldspar amphibole gneiss.
 RMKS This spring is 900 ft southeast and 500 ft lower in elevation than the Soda Springs Group Prospect. It is a slow seep of cold water surrounded by rotting vegetation.
 REF Charles Line, 1977, Personal Communication.

Uranium Queen (Red Hill, Red Hill 1)

LOCATION: NW1/4SW1/4 sec. 13, T. 9 N., R. 73 W.
 QUAD Rustic 7 1/2'
 MAP GREELEY
 DVEL There is an old shaft that was dug for gold prospecting. Several small pits were dug

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by E. C. Robinson for uranium exploration in 1954.

PROD According to the U.S. Bur. of Mines, during 1956, 100 tons of uranium ore at 0.17% U308 and 100 tons of 0.11% U308 were mined from Red Hill, with 50 tons of 0.48% U308 also mined from Uranium Queen. The U.S. A.E.C. Records show a total of 140 tons mined at a grade of 0.13% U308 and 0.01% V205, producing 340 lbs of U308 and 22 lbs of V205 prior to 1971.

BKG .1 mr/hr

RNG .2 to .3 mr/hr

HOST The host is Precambrian granite, porphyritic granite, and granite pegmatite.

STRC Vein structures are supposed to lie in the granite, but trenches have been cut along the structures and are filled with blasted rock. The radioactivity is associated with NW trending fractures. One fault which has been exposed by blasting strikes N35°E and dips S77 1/2°E.

MNZ Autunite, uranophane, gummite, uraninite, and pitchblende were found in both the stockpile and the dump. Values of samples taken range from 0.22 to 0.48% eU308. Along the fault lies a mylonitic zone which is mineralized with uranophane and autunite. Radioactivity count increases where the fault intersects the NW trending fractures.

DOI 1955

REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Larimer County, Colorado.

Wahketa Lease (Wahketa Mine)

LOCATION: sec. 18, T. 8 N., R. 69 W.

LCST UNCERTAIN

LCRM The P.R.R. indicates this is in sec. 13. The prospect is on the Dakota Sandstone rim, 1000 ft from the road across an irrigation ditch. The CRIB file lists this as sec. 13, T. 8 N., R. 70 W. A second CRIB reference verifies the location originally given above.

QUAD La Porte 7 1/2'

MAP GREELEY

DVEL The rim has been stripped at four places, with approximately 50 tons of rock broken.

PROD In 1955, six tons were mined at a grade of 0.07% U308, producing 8 lbs of U308, and 6 lbs of V205 at a grade of 0.05%.

RNG 0.06 to 0.7 mr/hr

HOST The deposit is in the lower Cretaceous Dakota Sandstone along the prominent hogback rim formed by the sandstone. The formation strikes northerly and dips 30° to the west.

STRC The hogback appears to be the west limb of an anticline, the center of which has been eroded away.

MNZ Mineralization of a carnotite type has been exposed at scattered points along the rim for approximately 0.2 miles. A weakly fluorescent mineral not distinguishable in ordinary light occurs in several of the pits.

RMKS An assay showed 0.16% U308. Autunite has also been identified.

DOI 1955
REF Warren I. Finch, 1977, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Larimer County, Colorado.

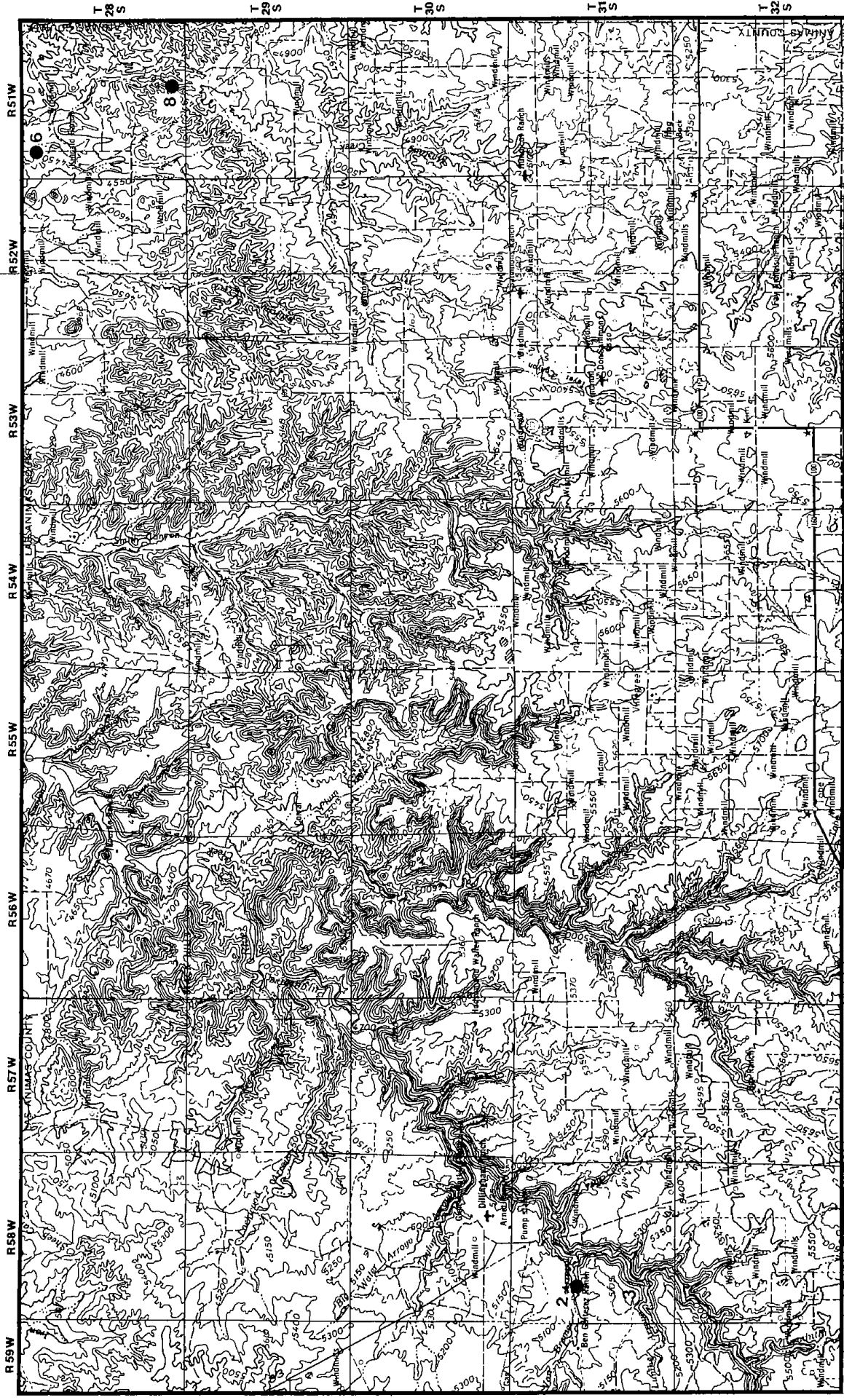
LAS ANIMAS COUNTY

Production from the county was as small as could be achieved, 1 ton mined which contained 1 lb of U_3O_8 . Potential for more reserves is minor.

A large part of the eastern Las Animas County is covered by the Lower Cretaceous Dakota Sandstone. Outcrops of other sedimentary formations are also found in that area ranging from the Permo-Triassic Lykins Formation to Tertiary and Quaternary(?) lava flows. The western part of the county, which involves more complex geology, is bounded on the west by the slopes of the Culebra Range of the Sangre de Cristo Mountains. Pennsylvanian and Permian sedimentary formations abut these ranges, and progressively younger formations are found to the east. Around the Spanish Peaks in the northern area early Tertiary intrusives are found in the form of dikes, sills, and stocks.

Extensive Tertiary and Quaternary(?) lava flows cap several mesas along the southern edge of the county. The structural Raton Basin extends from New Mexico northward through the center of the county.

Several uranium occurrences are known within the county, predominantly around Trinchera Peak on the Costilla County line. One ton of ore was mined from the Virginia 14 Claim, but no other production has taken place within the county. Favorable units with potential include the Pennsylvanian and Permian continental sediments in the western part of the county, the Dakota Sandstone, the Morrison Formation, and the Purgatoire Formation. The majority of known prospects seem to lie in the Dakota Sandstone at its contact with the Purgatoire Formation. However, the potential of the county is very limited.



Base from U.S.G.S.

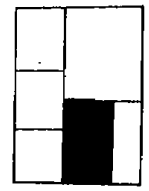
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EXPLANATION

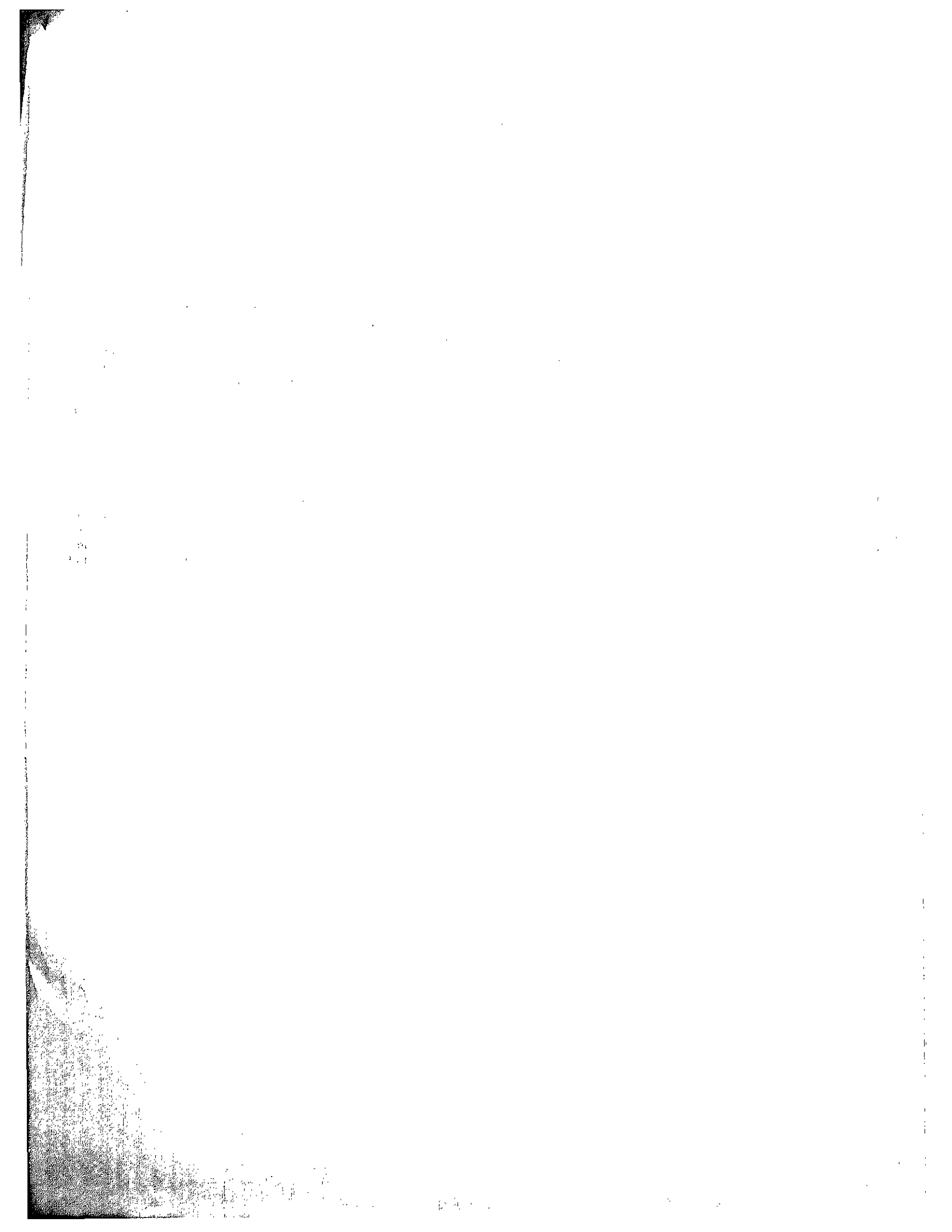
- SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE
LAKE SEDIMENT HOST ROCKS FOR OCCURRENCE
- 7 OCCURRENCE NUMBER FROM TEXT

LOCATION OF INSET



LA JUNTA
1° x 2° SHEET

Figure 16. Radioactive mineral occurrences in part of Las Animas County, Colorado.



LAS ANIMAS COUNTY

16, Airborne Anomaly (B-4-1-1954)

LOCATION: sec. 20, T. 32 S., R. 61 W.
 QUAD Mooney Hills 7 1/2'
 MAP TRINIDAD
 BKG .016 mr/hr
 RNG maximum 0.26 mr/hr
 HOST The radioactivity occurs in alluvium above the Cretaceous Pierre Shale.
 MNZ No mineralization is visible but a grab sample registered 16 times background and assayed to 0.4% U308.
 RMKS A 2 1/2 ft deep pit was dug in the alluvium but no better material was unearthed.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Las Animas County, Colorado.

Booster Claim 1

LOCATION: sec. 17, T. 31 S., R. 58 W.
 LCRM From Model go east on US 350 for 0.6 mi. and turn right onto Canyon Station Road for 20.8 mi. Now take a right turn before the cattle guard for 0.5 mi. and then take a left turn and go through gate. Continue for 3.0 mi. Leave vehicle and go S12°W for 125 yds to edge of cliff and then down the side to the claim. It lies on the north side of Van Bremer Creek.
 MAP LA JUNTA
 DVEL Four shallow prospect pits have been dug in the radioactive material.
 BKG .007 mr/hr
 RNG To .7 maximum mr/hr
 HOST The radioactive zone occurs in shale lens of the lower part of the Cretaceous Dakota Sandstone, at its contact with the Purgatoire Formation, and about 90 ft above the top of the Morrison Formation.
 MNZ Limonite, hematite, specularite, and manganese are present. No uranium minerals are visible, but the radioactivity is associated with groundwater seeps near the base of the Dakota contact.
 DOI 1955
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Las Animas County, Colorado.

Cliff Martin Claims

LOCATION: sec. 30, T. 31 S., R. 58 W.
 LCRM Also see sec 31. From P.O. in Model go south on U.S. 350 for 0.4 mi. and take a left turn for 2.0 mi. Take a right turn for 0.9 mi. and a left turn for 3.0 mi. Now take a right turn for 0.9 mi. and a left turn for 7.0 mi. Here take a left fork for 4.6 mi. and a right fork onto a dirt track road. Go for 0.3 mi. and take a right fork. Now go 0.1 mi., park vehicle and descend into northwest slope of Luning Canyon to claim.
 MAP LA JUNTA
 DVEL A few small test pits have been dug into talus material on the slope of the canyon.

BKG 0.03 mr/hr
 RNG 1.5 nr/hr max. count
 HOST The Cretaceous Dakota Sandstone at its contact with the underlying Purgatoire Formation appears to be the host.
 MNZ Chip samples range from 10 to 100 times background. Iron and manganese oxides are present. Uranium minerals are not visible, but radioactivity is associated with groundwater seeps near the iron and manganese staining.
 RMKS Some water wells in the area are radioactive.
 DOI 1955
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Las Animas County, Colorado.

Dave Welsh Claim

LOCATION: sec. 20, T. 32 S., R. 61 W.
 QUAD Mooney Hills 7 1/2'
 MAP TRINIDAD
 DVEL A small (5 ft x 4 ft x 6 ft) pit has been dug on the edge of a 55 ft x 2 ft x 5 ft trench. The trench strikes N83°W.
 BKG 0.05 mr/hr
 RNG To 0.42 mr/hr
 HOST Cretaceous Pierre Shale(?). The host is a gray to buff, calcareous and argillaceous shale which is gypsiferous in places.
 MNZ Gypsum, limonite and possibly manganese are present in a seam and give the highest radioactivity count.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Las Animas County, Colorado.

Fan Dyke No. 1 (Fan Dyke 1-15, 17-22; Phebolite 1-8)

LOCATION: sec. 18, T. 32 S., R. 69 W.
 LCRM Also sec. 13, 19, 24, T. 32 S., R. 70 W. Partly in Las Animas County.
 DVEL Small reserves developed by drilling but no production.
 HOST Permian Sangre de Cristo Formation.
 MNZ Carnotite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Mike's Mine

LOCATION: sec. 32, T. 27 S., R. 51 W.
 LCST UNCERTAIN
 LCRM The location given by sec., T., R., above puts this mine in Bent County. If the directions given by the PRR are correct the mine is in Las Animas County, but on the border between sec. 5, 6, T. 28 S., R. 51 W.
 QUAD Ninaview 7 1/2'
 MAP LA JUNTA
 DVEL A 13 ft prospect pit was sunk in the Purgatoire sandstone.
 BKG .02 mr/hr
 RNG To 2.0 mr/hr
 HOST Sandstone of the Cretaceous Purgatoire Formation which is exposed in the pit is fine-grained, massive, and gray in color. The grains are fairly well cemented. A radioactive pocket about 2 1/2 ft wide and 1 ft thick is located on the east side of the pit about

LAS ANIMAS COUNTY

7 ft below the surface.
MNZ Limonitic and hematitic stains are present in addition to small tabular flakes of a green mineral resembling autunite. Some azurite is also present.
RMKS The owner sent in cedar ash for analysis that was radioactive. Some cedar trees adjacent to the claim were also examined by the U.S. A.E.C. geologists, but they were not anomalously radioactive.
DOI 1954
REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Las Animas County, Colorado.

Morning Star 1

LOCATION: T. 32 S., R. 69 W.
LCST UNCERTAIN
QUAD Trinchera Peak 7 1/2' & Cuchera Pass 7 1/2'
MAP TRINIDAD
HOST Permian-Sangre de Cristo Formation.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Unnamed 1

LOCATION: sec. 34, T. 28 S., R. 51 W.
MAP LA JUNTA
RNG 2 x bg on outcrop.
HOST Cretaceous Dakota Sandstone is the host. The radioactive water flows from a spring at the base of the massive sandstone where it contacts a 6 in. black shale unit and 10+ ft of massive carbonaceous sandstone.
MNZ The sandstone contained 0.003 to 0.005% uranium. The water sample had 50 ppb uranium in it.
DOI 1955
REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Las Animas County, Colorado.

Virginia 14

LOCATION: T. 32 S., R. 69 W.
LCST UNCERTAIN
LCRM On Trinchera Peak.
QUAD Trinchera Pass 7 1/2'
MAP TRINIDAD
PROD In 1960, 1 ton was mined at a grade of 0.05% U308, producing 1 lb of U308.
HOST Permian Sangre de Cristo Formation.
MNZ Carnotite - tyuyamunite.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Las Animas County, Colorado.

LINCOLN COUNTY

Lincoln County lies in the central Great Plains of Colorado. Stream courses and watersheds have, in places, eroded through the extensive Ogallala Formation to expose the Upper Cretaceous Pierre Shale. The only major structure within the county is the Las Animas Arch, lying in the southeastern part.

Although no uranium occurrences are known within the county, some structures and formations warrant

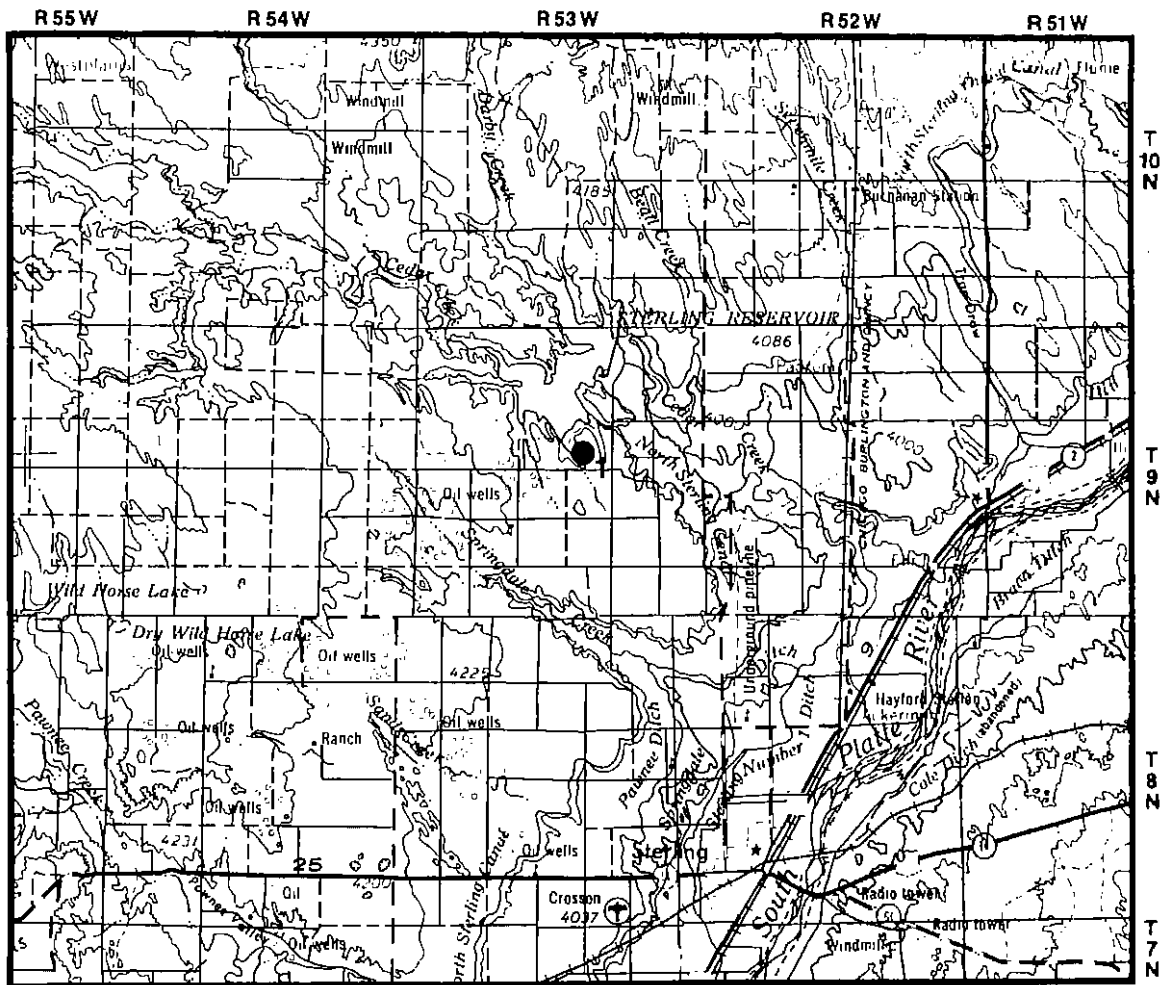
inspection as to potential. Water sampling by the U.S. Geological Survey has shown higher than average uranium values in waters originating from the Ogallala Formation and from the Sharon Springs Member of the Pierre Shale. In addition, higher than average uranium values have been found in waters draining the north side of the Las Animas Arch.

LOGAN COUNTY

No uranium production has been recorded in Logan County. One reported occurrence in the county appears to be in the Cretaceous Pierre Shale.

The county is underlain by a variety of flat-lying Quaternary, Tertiary and Cretaceous sediments of the Great Plains. Some slight potential for uranium resources within the county may be found in the outcropping

Tertiary Ogallala and White River Formations and in the subsurface Cretaceous Laramie Formation and Fox Hills Sandstone. These are all favorable for sandstone types of occurrences. Uranium deposits are being developed in the Laramie Formation in Weld County just west of Logan County, and these deposits could extend into Logan County.



Base from U.S.G.S.

SCALE 1:250 000

5 0 5 10 15 MILES

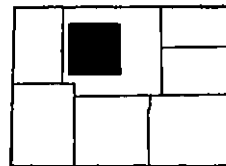
5 0 5 10 15 KILOMETERS

CONTOUR INTERVAL 200 FEET

EXPLANATION

- SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE
LAKE SEDIMENT HOST ROCKS FOR OCCURRENCE
- 7 OCCURRENCE NUMBER FROM TEXT

LOCATION OF INSET



STERLING
1° x 2° SHEET

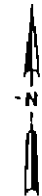


Figure 17. Radioactive mineral occurrences in Logan County, Colorado.

LOGAN COUNTY

Unnamed 1

LOCATION: sec. 15, T. 9 N., R. 53 W.

LCRM The occurrence is at 40°44'N Latitude, and
103°17'W Longitude.

HOST The deposit is in terrestrial clastic rocks.

MNZ Uranium mineralization was noted.

DOI 1972

REF Butler, A. P., Finch, W. I., Twenhofel (sic),
1977, Epigenetic uranium in the United States:
U.S. Geol. Survey, Unpublished Report.
U.S. Geol. Survey, 1977, CRIB File.

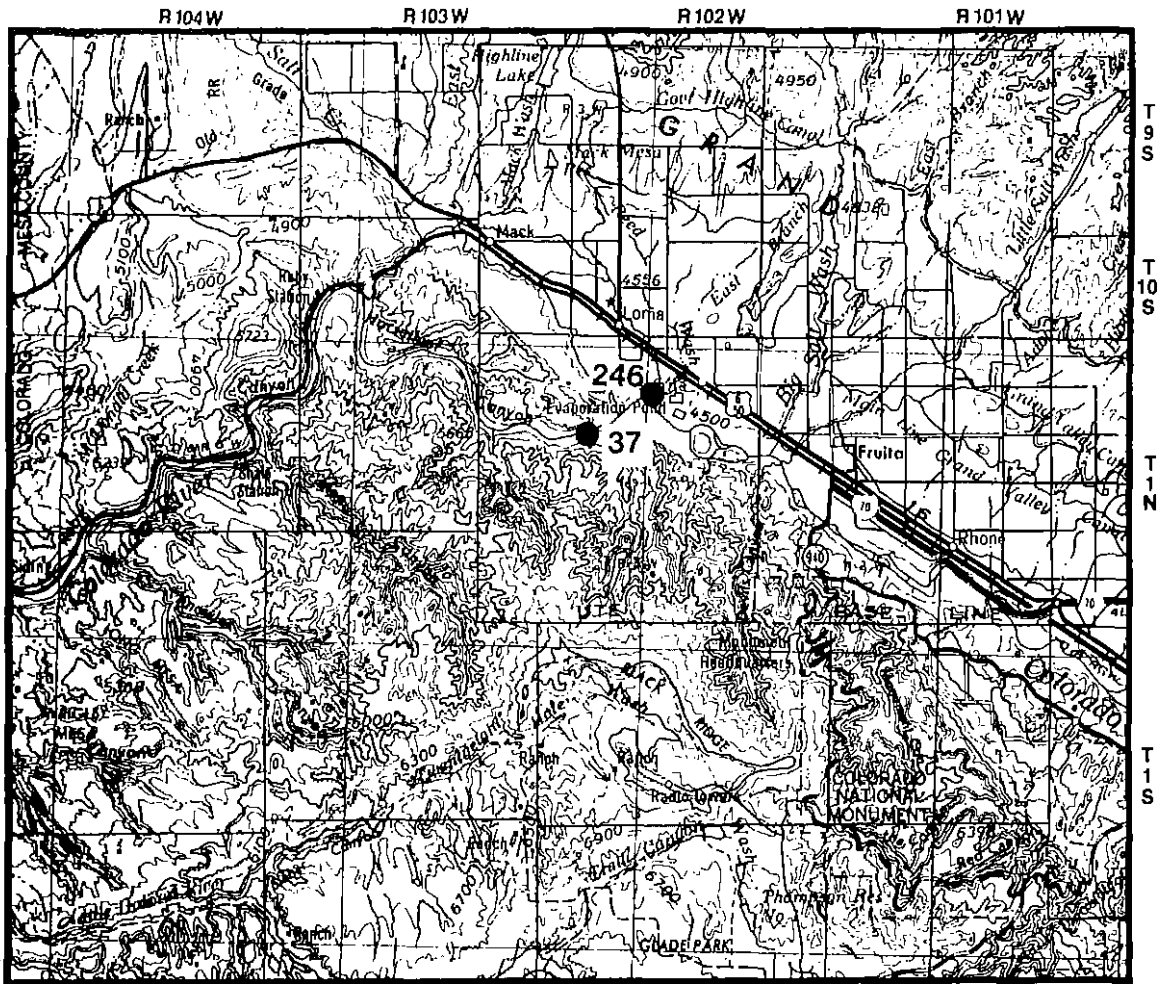
MESA COUNTY

Mesa County falls within the Uravan mineral belt, which has produced uranium since 1881. Vanadium has been an important coproduct of the uranium of this area. Production from the county from January 1, 1948 to January 1, 1978 has been 2,271,000 tons of ore mined producing 13,180,000 lb of U_3O_8 at a grade of 0.29 percent. From these tons mined 2,266,000 tons were processed for vanadium producing 41,811,000 lb of V_2O_5 at a grade of 0.92 percent.

Mesa County is in the sedimentary terrane of the western slope of Colorado. Most of the county is covered by Cretaceous, Jurassic, and Triassic rocks. A large part of the northeastern area of the county is covered by Tertiary sediments and volcanics. The

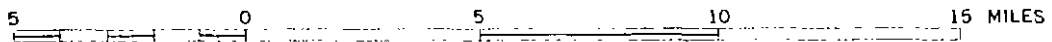
Salt Wash Member of the Morrison Formation is the most important host rock for the uranium deposits within the county. Deposits occur within it as pods and "rolls" in channels within the sandstone.

Many active and inactive mines are located on mesas flanking the Dolores River. All of the production from the Uravan mineral belt comes from the southwestern part of the county, near the community of Gateway and farther south. Reserves in the county are large, and the potential for more to be found is excellent. It will be a major producer for years to come. Abundant literature has been written on this area, and those seeking more information are referred to the Mesa County cross-index in Volume 2.



Base from U.S.G.S.

SCALE 1:250 000



CONTOUR INTERVAL 200 FEET

EXPLANATION

- SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE
LAKE SEDIMENT HOST ROCKS FOR OCCURRENCE
- 7 OCCURRENCE NUMBER FROM TEXT

LOCATION OF INSET



GRAND JUNCTION
1° x 2° SHEET

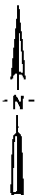


Figure 18. Radioactive mineral occurrences in part of Mesa County, Colorado.

MESA COUNTY

31, AEC Mining Lease (Reserve Block 4, Blue Creek Mesa) (Big Seven)

LOCATION: NE1/4 sec. 32, T. 50 N., R. 17 W.
 LCRM This deposit lies on the northeast end of Blue Creek Mesa, and extends to the SE1/4 sec. 29.
 PROD As of 1953, 679 tons had been mined at an average grade of 0.60% U308 and 3.02% V205. Additional production has occurred since 1953 from the Big Seven Group.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 RMKS U.S. A.E.C. withdrawn land was restored and restaked as Big Seven.
 DOI 1975
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.).

34, AEC Mining Lease (C-G-26A, DOE Lease Tract)

LOCATION: NE1/4 sec. 9, T. 50 N., R. 18 W.
 LCRM This deposit adjoins the Small Spot Claim on the west, and is located in the Calamity Mesa area in the Gateway district.
 PROD See C-G-26A, DOE Lease Tract.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Ajax 1 Mine

LOCATION: sec. 19, T. 51 N., R. 19 W.
 LCRM Also sec. 24.
 QUAD Mount Waas 4 NE 7 1/2'
 MAP MOAB
 PROD As of 1971, 272 tons had been mined at a grade of 0.19% U308, producing 1,019 lbs of U308, and 1.15% V205, producing 6,265 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Ajax Mine

LOCATION: E1/2 sec. 24, T. 51 N., R. 19 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Arrowhead 1 & 7 (Arrowhead No. 7)

LOCATION: sec. 3, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2', Pine Mountain 7 1/2'
 MAP MOAB
 PROD As of 1971, 6,399 tons had been mined at a grade of 0.32% U308, producing 41,018 lbs of U308, producing 179,980 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.

MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Arrowhead 4

LOCATION: sec. 3, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2', Pine Mountain 7 1/2'
 MAP MOAB
 PROD As of 1971, 68 tons had been mined at a grade of 0.15% U308, producing 198 lbs of U308, and 0.84% V205, producing 1,147 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Arrowhead 5

LOCATION: sec. 3, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2', Pine Mountain 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,682 tons had been mined at a grade of 0.35% U308, producing 11,914 lbs of U308, and 1.48% V205 producing 49,820 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Arrowhead 8

LOCATION: sec. 2, T. 50 N., R. 18 W.
 QUAD Pine Mountain 7 1/2'
 MAP MOAB
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Arrowhead 10

LOCATION: sec. 10, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 167 tons had been mined at a grade of 0.19% U308, producing 628 lbs of U308, and 1.03% V205, producing 341 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Arrowhead 11

LOCATION: sec. 3, T. 50 N., R. 18 W.
 LCRM The deposit also extends to sec. 10.
 QUAD Calamity Mesa 7 1/2', Pine Mountain 7 1/2'
 MAP MOAB

MESA COUNTY

PROD As of 1971, 1,846 tons had been mined at a grade of 0.34% U308, producing 12,573 lbs of U308, and 1.34% V205, producing 49,404 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Arrowhead 19

LOCATION: sec. 2, T. 50 N., R. 18 W.
 PROD As of 1971, 446 tons had been mined at a grade of 0.34% U308, producing 3,058 lbs of U308, and 1.32% V205, producing 11,785 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Arrowhead 13 (Arrowhead No. 25)

LOCATION: sec. 3, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2', Pine Mountain 7 1/2'
 MAP MOAB
 PROD As of 1971, 25 tons had been mined at a grade of 0.22% U308, producing 11 lbs of U308, and 1.05% V205, producing 523 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Arrowhead 20 & 20 A

LOCATION: sec. 2, T. 50 N., R. 18 W.
 PROD As of 1971, 2,512 tons had been mined at a grade of 0.43% U308, producing 21,379 lbs of U308, and 1.68% V205, producing 84,571 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Arrowhead 14

LOCATION: S1/2SW1/4 sec. 2, T. 50 N., R. 18 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Arrowhead 21

LOCATION: sec. 2, T. 50 N., R. 18 W.
 PROD As of 1971, 2,186 tons had been mined at a grade of 0.30% U308, producing 13,158 lbs of U308, and 1.25% V205, producing 52,822 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Arrowhead 16

LOCATION: -SE1/4 sec. 3, T. 50 N., R. 18 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Arrowhead 22

LOCATION: sec. 3, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2' and Pine Mountain 7 1/2'
 MAP MOAB
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Arrowhead 17

LOCATION: sec. 10, T. 50 N., R. 18 W.
 PROD As of 1971, 131 tons had been mined at a grade of 0.27% U308, producing 719 lbs of U308, and 0.92% V205, producing 2,405 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Arrowhead 18

LOCATION: sec. 2, T. 50 N., R. 18 W.
 LCRM The deposit is probably in either sec. 3 or sec. 10.
 PROD As of 1971, 985 tons had been mined at a grade of 0.28% U308, producing 5,564 lbs of U308, and 1.12% V205, producing 22,034 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records,

Arrowhead 25

LOCATION: sec. 3, T. 50 N., R. 18 W.
 LCRM This deposit also lies in sec. 10.
 PROD As of 1971, 314 tons had been mined at a grade of 0.20% U308, producing 1,284 lbs of U308, and 1.13% V205, producing 3,106 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.

MESA COUNTY

MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Arrowhead 26

LOCATION: N1/2 sec. 10, T. 50 N., R. 18 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Arrowhead 27

LOCATION: sec. 10, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 546 tons had been mined at a grade of 0.37% U3O8, producing 4,005 lbs of U3O8, and 1.38% V2O5, producing 15,083 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Arrowhead 28

LOCATION: sec. 10, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 PROD As of 1972, 1,989 tons had been mined at a grade of 0.30% U3O8, producing 12,097 lbs of U3O8, and 1.25% V2O5, producing 49,783 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Arrowhead 29 (OS)

LOCATION: sec. 10, T. 50 N., R. 18 W.
 LCRM OS is the notation on the ore reserve card to indicate "Outside Sales" - for ore sold in excess of the shipper's allocation in the 1961 - 1970 period.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 619 tons had been mined at a grade of 0.49% U3O8, producing 6,115 lbs of U3O8, and 1.96% V2O5, producing 24,226 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 RMKS Part of sec. 33 in Calamity Mesa 7 1/2'
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Arrowhead 30

LOCATION: E1/2 sec. 3, T. 50 N., R. 18 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Arrowhead 33

LOCATION: sec. 3, T. 50 N., R. 18 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Arrowhead 34

LOCATION: S1/2 sec. 3, T. 50 N., R. 18 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Arrowhead Incline 6

LOCATION: sec. 10, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 3,758 tons had been mined at a grade of 0.49% U3O8, producing 36,523 lbs of U3O8, and 1.87% V2O5, producing 140,406 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Arrowhead Incline 2

LOCATION: sec. 3, T. 50 N., R. 18 W.
 LCST UNCERTAIN
 LCRM This deposit could also be in sec. 10. U.S. A.E.C. Production Records show sec. 10.
 QUAD Calamity Mesa 7 1/2', Pine Mountain 7 1/2'
 MAP MOAB
 PROD As of 1971, 13,124 tons had been mined at a grade of 0.33% U3O8, producing 86,006 lbs of U3O8, and 1.58% V2O5, producing 400,906 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Arrowhead Incline 12 & 23 (Arrowhead Incline No. 23)

LOCATION: sec. 3, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2', Pine Mountain 7 1/2'
 MAP MOAB
 PROD As of 1971, 7,867 tons had been mined at a grade of 0.36% U3O8, producing 57,065 lbs of U3O8, and 1.64% V2O5, producing 257,706 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.

MESA COUNTY

DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Arrowhead Incline 24

LOCATION: sec. 3, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 1,560 tons had been mined at a grade of 0.35% U308, producing 11,009 lbs of U308, and 1.62% V205, producing 50,413 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

AT (05-1)-526, AEC Mining Lease (C-G-27, DOE Lease Tract, and C-G-27A, Outlaw Mesa G-1 and G-2)

LOCATION: SE1/4 sec. 12, T. 50 N., R. 18 W.
LCRM The deposit lies on Outlaw Mesa in the Gateway district. It extends to the NE1/4 sec. 13, T. 50 N., R. 18 W., and to the SW1/4 sec. 7; SW1/4 sec. 17, and sec. 18 of T. 50 N., R. 17 W.
PROD See C-G-27 and C-G-27A, DOE Lease Tracts.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium and vanadium minerals were mined.
DOI 1974
REF U.S. D.O.E., 1977, Lease Production Records, Colorado.

AT(05-1)-36, AEC Mining Lease (C-G-26A and C-G-27, DOE Lease Tracts, Matchless Mine, Queen of the Hills, Neglected, Calamity Claims, Maverick Group)

LOCATION: NE1/4SE1/4 sec. 4, T. 50 N., R. 18 W.
LCRM The lease block lies on the Outlaw side of Calamity Mesa in the Gateway district. It extends to the W1/2 sec. 11 and the NE1/4 sec. 12.
QUAD Gateway 7 1/2'
PROD See C-G-26, C-G-26A and C-G-27, DOE Lease Tracts.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
RMKS Southeast corner of sec. 4 is in Calamity Mesa 7 1/2'.
DOI 1971
REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Atlas 1,2,3 (Lone Mesa No. 7, Atlas-Lone Mesa No. 1)

LOCATION: NW1/4 sec. 6, T. 50 N., R. 19 W.
LCRM The deposit also extends to E1/2, sec. 1, T. 50 N., R. 18 W. From original directions to the occurrence "Access is via Colo. highway 141 going 4 miles northeast from Gateway, then southeast via a steep, narrow road for 6 mi. to south end of Tenderfoot Mesa; adjacent mineral deposits are the Mammoth,

Liberty Bell"

QUAD Gateway 7 1/2'
PROD As of 1971, 2,991 tons had been mined at a grade of 0.27% U308 and 0.87% V205, producing 16,168 lbs of U308 and 51,879 lbs of V205.
HOST Jurassic Morrison Formation, light gray to tan, fine-grained Salt Wash Member with abundant fossil logs and carbon trash.
MNZ Carnotite, tyuyamunite.
RMKS Most occurs in replacement of logs and carbon trash.
DOI 1955
REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Mesa County, Colorado.

Austin Mine (Austin and Austin Adit)

LOCATION: SW1/4 sec. 30, T. 51 N., R. 19 W.
LCRM The deposit also extends to sec. 31, T. 51 N., R. 19 W., Beaver Mesa locality.
QUAD Mount Waas 4 SE 7 1/2'
MAP MOAB
PROD As of 1971, 728 tons of ore had been mined at grades of 0.33% U308 and, 0.78% V205, producing 4,764 lbs U308 and 11,366 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C. 1971, Production Records, Colorado.

Banco 1-7

LOCATION: sec. 17, T. 51 N., R. 18 W.
QUAD Gateway 7 1/2'
MAP MOAB
PROD As of 1971, 15 tons had been mined at a grade of 0.31% U308, producing 94 lbs of U308, and 1.11% V205, producing 334 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyuyamunite, high vanadium, intermed. lime.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Bar-W-Bar Claims 1-16

LOCATION: SW1/4 sec. 9, T. 1 N., R. 3 W.
LCST UNCERTAIN
LCRM Original directions are "3 1/2 miles S. from Loma, on mesa capped by JMSW".
QUAD Mack 7 1/2'
HOST Jurassic Morrison Formation, Salt Wash Member, sandstone and mudstone with carbon flakes and carbonaceous debris.
MNZ Abundant ilmonite, and hematite. A sample value of 0.06% U308 reported by owner.
DOI 1954
REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., Preliminary Reconnaissance Reports; Mesa County, Colorado (Unpubl.).

MESA COUNTY

Belmont 1 & 2

LOCATION: sec. 3, T. 50 N., R. 18 W.
 LCRM The deposit also extends to sec. 4.
 QUAD Pine Mountain 7 1/2'
 MAP MOAB
 PROD As of 1971, 10,839 tons had been mined at a grade of 0.36% U308, producing 77,059 lbs of U308, and 1.58% V205, producing 341,434 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bessie Group (Jerry Kay)

LOCATION: sec. 36, T. 50 N., R. 18 W.
 LCRM The deposit also lies in sec. 30, T. 51 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 1 ton had been mined at a grade of 0.10% U308, producing 2 lbs of U308, and 0.30% V205, producing 6 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Big Indian Lease

LOCATION: sec. 19, T. 50 N., R. 18 W.
 LCRM Flat Top Mesa.
 QUAD Juanita Arch 7 1/2'
 MAP MOAB
 PROD As of 1971, 16 tons had been mined at a grade of 0.34% U308, producing 113 lbs of U308, and 0.74% V205, producing 236 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Big Maverick (Juanita Group)

LOCATION: sec. 20, T. 50 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records show sec. 18 and 19, Flat Top Mesa.
 QUAD Juanita Arch 7 1/2'
 MAP MOAB
 PROD As of 1971, 42 tons had been mined at a grade of 0.54% U308, producing 450 lbs of U308, and 2.56% V205, producing 2,150 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Big Seven (AEC Mining Lease 31, Reserve Block No. 4)

LOCATION: N1/2 sec. 32, T. 50 N., R. 17 W.
 LCRM This deposit also extends to S1/2 sec. 29.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,337 tons had been mined at a grade of 0.57% U308, producing 15,279 lbs of U308, and 2.78% V205, producing 74,358 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 RMKS The Big Seven Claims were located on ground restored from U.S. A.E.C. withdrawal. It is the same deposit as U.S. A.E.C. Mining Lease 31.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Black Mama (Nigger Baby)

LOCATION: NW1/4 sec. 29, T. 51 N., R. 18 W.
 LCRM The deposit also extends to sec. 19, 20, and 30.
 QUAD Gateway 7 1/2'
 MAP MOAB
 PROD As of 1971, 18,557 tons had been mined at a grade of 0.28% U308, producing 103,607 lbs of U308, and 1.09% V205, producing 404,505 lbs of V205.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977 (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Black Mesa

LOCATION: UNLOCATABLE
 LCST UNLOCATABLE
 LCRM This deposit lies in the Gateway district.
 PROD As of 1971, 362 tons had been mined at a grade of 0.51% U308, producing 3,670 lbs of U308, and 1.58% V205, producing 11,436 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Black Rock 2 (Black Rock No. 1 - 20)

LOCATION: sec. 27, T. 50 N., R. 19 W.
 LCRM The deposit extends to sec. 33 and 34.
 QUAD Juanita Arch 7 1/2'
 MAP MOAB
 PROD As of 1971, 18 tons had been mined at a grade of 0.14% U308, producing 52 lbs of U308, and 2.39% V205, producing 862 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971

MESA COUNTY

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Black Streak (Black Streak - Yellow Bird, Black Jumbo)

LOCATION: sec. 31, T. 50 N., R. 17 W.
 LCRM The deposit extends to sec. 29, 32, and 34.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 5,076 tons had been mined at a grade of 0.27% U3O8, producing 27,826 lbs of U3O8, and 1.44% V2O5, producing 145,876 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Blackbird

LOCATION: W1/2 sec. 3, T. 49 N., R. 17 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Blue Canyon

LOCATION: sec. 20, T. 50 N., R. 17 W.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Blue Creek

LOCATION: sec. 19, T. 50 N., R. 17 W.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 6 tons had been mined at a grade of 0.47% U3O8, producing 57 lbs of U3O8, and 1.73% V2O5, producing 208 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Blue Mesa View

LOCATION: sec. 30, T. 50 N., R. 17 W.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 9 tons had been mined at a grade of 0.15% U3O8, producing 27 lbs of U3O8, and 1.51% V2O5, producing 271 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Blue Ribbon 1 Incline

LOCATION: sec. 3, T. 50 N., R. 18 W.
 LCRM The deposit extends to sec. 10.
 QUAD Pine Mountain 7 1/2'
 MAP MOAB
 PROD As of 1971, 779 tons had been mined at a grade of 0.40% U3O8, producing 6,277 lbs of U3O8, and 1.33% V2O5, producing 20,665 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Blue Ribbon 3

LOCATION: sec. 10, T. 50 N., R. 18 W.
 LCRM The deposit extends to sec. 3.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,187 tons had been mined at a grade of 0.30% U3O8, producing 13,113 lbs of U3O8, and 1.16% V2O5, producing 50,698 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Blue Ribbon #7

LOCATION: sec. 9, T. 50 N., R. 18 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Blue Ribbon 17

LOCATION: sec. 17, T. 50 N., R. 18 W.
 QUAD Juanita Arch 7 1/2'
 MAP MOAB
 PROD As of 1971, 16 tons had been mined at a grade of 0.54% U3O8, producing 172 lbs of U3O8, and 2.64% V2O5, producing 844 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Blue Ribbon 32

LOCATION: sec. 16, T. 50 N., R. 18 W.
 LCRM Part of sec. 16 is in Calamity Mesa 7 1/2'.
 QUAD Juanita Arch 7 1/2'
 MAP MOAB
 PROD As of 1971, 68 tons had been mined at a grade of 0.13% U3O8, producing 170 lbs of U3O8, and 0.65% V2O5, producing 882 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.

MESA COUNTY

MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Blue Ribbon Group (Blue Ribbon No. 2)

LOCATION: sec. 3, T. 50 N., R. 18 W.
 LCRM The deposit extends to sec. 10. Part of sec. 3 is in Calamity Mesa 7 1/2'.
 QUAD Pine Mountain 7 1/2'
 MAP MOAB
 PROD As of 1971, 9,466 tons had been mined at a grade of 0.28% U308, producing 52,295 lbs of U308, and 1.18% V205, producing 223,257 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bluebird (Blue Bird)

LOCATION: sec. 19, T. 50 N., R. 17 W.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 863 tons had been mined at a grade of 0.29% U308, producing 5,047 lbs of U308, and 1.48% V205, producing 25,520 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bluebird Dump (Blue Bird Dump)

LOCATION: sec. 19, T. 50 N., R. 17 W.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 251 tons had been mined at a grade of 0.11% U308, producing 563 lbs of U308, and 0.62% V205, producing 3,126 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bonanza 2 (Bonanza No. 2 and 4, E 1/2)

LOCATION: sec. 26, T. 51 N., R. 20 W.
 LCRM The deposit extends to sec. 35.
 QUAD Mount Waas 4 NE 7 1/2'
 MAP MOAB
 PROD As of 1971, 159,183 tons had been mined at a grade of 0.31% U308, producing 981,486 lbs of U308, and 0.46% V205, producing 1,469,879 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uraninite (coffinite), high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Bonanza 3

LOCATION: sec. 25, T. 51 N., R. 20 W.
 LCRM The deposit also extends to sec. 26 and 35.
 QUAD Mount Waas 4 NE 7 1/2'
 MAP MOAB
 PROD As of 1971, 41,310 tons had been mined at a grade of 0.29% U308, producing 238,404 lbs of U308, and 0.06% V205, producing 48,588 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bonanza 5 (Bonanza # 4, 5, 7)

LOCATION: sec. 26, T. 51 N., R. 20 W.
 LCRM The deposit extends to sec. 35.
 QUAD Mount Waas 4 NE 7 1/2'
 MAP MOAB
 PROD As of 1971, 17,236 tons had been mined at a grade of 0.31% U308, producing 106,434 lbs of U308, and 1.41% V205, producing 487,192 lbs of V205.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uraninite (coffinite), high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Bonanza 6

LOCATION: sec. 26, T. 51 N., R. 20 W.
 LCRM The deposit extends to sec. 35.
 QUAD Mount Waas 4 NE 7 1/2'
 MAP MOAB
 PROD As of 1971, 5,038 tons had been mined at a grade of 0.25% U308, producing 25,664 lbs U308, and 1.19% V205, producing 120,322 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uraninite (coffinite), high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Bonanza Shaft

LOCATION: sec. 29, T. 51 N., R. 20 W.
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Bonnie

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Gateway district.
 PROD As of 1971, 1 ton had been mined at a grade of 2.05% U308, producing 41 lbs of U308, and 2.80% V205, producing 56 lbs of V205.
 HOST Jurassic Morrison Formation.

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DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Buckhorn Claims

LOCATION:
LCST UNCERTAIN
LCRM Original directions are as follows: "Eighteen miles southeast from Grand Junction on US 50, thence 3.3 miles on dirt road southwest to Gunnison Canyon, Morrison Formation 40 ft below Burro Canyon contact".
QUAD Triangle Mesa 7 1/2', Dominguez 7 1/2'
HOST Jurassic Morrison Formation, gray siltstone, conglomeratic in part consisting of small sub-angular quartz and jasperoid pebbles with brownish dolomitic nodules.
MNZ Disseminated uraninite in dolomitic nodules which contain abundant carbonized plant debris. A grab sample had a value of 0.37% U308.
RMKS An outcrop 1,000 ft east containing petrified bone had a sample value of about 0.11% U308.
DOI 1954
REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Mesa County, Colorado.

Bud 1 (Outside Sales)

LOCATION: sec. 36, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 17 tons had been mined at a grade of 0.11% U308, producing 36 lbs of U308, and 0.96% V205, producing 327 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Buena Vista

LOCATION: T. 51 N., R. 17 W.
LCST UNCERTAIN
QUAD Pine Mountain 7 1/2' or Casto Reservoir 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.).

Bulck (Bujan Mine)

LOCATION: sec. 31, T. 51 N., R. 18 W.
LCRM This deposit is also located in sec. 30.
QUAD Gateway 7 1/2'
MAP MOAB
PROD As of 1971, 2,853 tons had been mined at a grade of 0.18% U308, producing 10,305 lbs of U308, and 0.63% V205, producing 36,092 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite, tyuyamunite, low vanadium, low lime.
DOI 1971

Burcar Mines

LOCATION:
LCRM This deposit lies in the Gateway district.
DVEL Reserves, no production.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Calamity 1 (AT(05-1)-36), AEC Mining Lease)(C-G-26, DOE Lease Tract)

LOCATION: sec. 14, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
MNZ Uranium, vanadium.
DOI 1975
REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.).

Calamity 2 (AT(05-U-36), AEC Mining Lease) (C-G-26, DOE Lease Tract)

LOCATION: sec. 11, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975
REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.).

Calamity 6

LOCATION: sec. 11, T. 50 N., R. 18 W.
DOI 1958
REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Calamity 7

LOCATION: N1/2 sec. 11, T. 50 N., R. 18 W.
DOI 1958
REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Calamity 9

LOCATION: S1/2SE1/4 sec. 2, T. 50 N., R. 18 W.
DOI 1958
REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Calamity 13

LOCATION: N1/2 sec. 11, T. 50 N., R. 18 W.
DOI 1958
REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

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Calamity 14 (AT(05-1)-36, AEC Mining Lease)(C-G-27, DOE Lease Tract)

LOCATION: N1/2 sec. 12, T. 50 N., R. 18 W.
 QUAD Outlaw Mesa 7 1/2'
 MNZ Uranium, vanadium.
 DOI 1975.
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.).

Calamity 15 (AT(05-1)-36), AEC Mining Lease)(C-G-27, DOE Lease Tract)

LOCATION: N1/2 sec. 12, T. 50 N., R. 18 W.
 QUAD Outlaw Mesa 7 1/2'
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.).

Calamity 16

LOCATION: N1/2 sec. 11, T. 50 N., R. 18 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Calamity 17

LOCATION: N1/2 sec. 11, T. 50 N., R. 18 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Calamity 20

LOCATION: sec. 11, T. 50 N., R. 18 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Calamity 21

LOCATION: SW1/4 sec. 11, T. 50 N., R. 18 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Calamity 27

LOCATION: W1/2 sec. 11, T. 50 N., R. 18 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Calamity Homestead

LOCATION: SE1/4SE1/4 sec. 35, T. 50 N., R. 18 W.
 PROD As of 1971, 52 tons had been mined at a grade of 0.10% U308, producing 106 lbs of U308, and 1.20% V205, producing 1,248 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.

MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Calamity Mesa Dump (Queen of the Hills Dump)(AT(05-1)-36), AEC Mining Lease)(C-G-26A, DOE Lease Tract)

LOCATION: sec. 4, T. 50 N., R. 18 W.
 PROD As of 1971, 339 tons had been mined at a grade of 0.14% U308, producing 922 lbs of U308, and 0.76% V205, producing 5,156 lbs of V205. This production is included in that for DOE Lease Tract C-G-26A.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Calco (Cedar Cliff Group)

LOCATION: sec. 23, T. 50 N., R. 18 W.
 LCRM This deposit also listed as being in sec. 35.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 245 tons had been mined at a grade of 0.32% U308, producing 1,548 lbs of U308, and 0.125% V205, producing 611 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Captain Jack

LOCATION: N1/2 sec. 32, T. 51 N., R. 19 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Captain Jinks (Lumsden Group)

LOCATION: sec. 29, T. 51 N., R. 18 W.
 LCRM Also sec. 32. This deposit lies in the Beaver Mesa Gateway district.
 QUAD Gateway 7 1/2'
 MAP MOAB
 PROD As of 1961, 63 tons of ore had been mined at a grade of 0.34% U308.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Cave

LOCATION: sec. 4, T. 50 N., R. 19 W.
 LCRM Part of sec. 4 is on Juanita Arch 7 1/2'.
 QUAD Gateway 7 1/2'

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MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Cave Canyon Lode (Linda, Linda-Cave Canyon)

LOCATION: sec. 9, T. 50 N., R. 19 W.
 QUAD Juanita Arch 7 1/2'
 MAP MOAB
 PROD As of 1971, 195 tons had been mined at a grade of 0.43% U308, producing 1,686 lbs of U308, and 2.15% V205, producing 8,400 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Cedar Pt 3 (Little Chief)

LOCATION: sec. 23, T. 51 N., R. 19 W.
 LCRM The deposit is listed by U.S. A.E.C. Production Records as being in sec. 14 and 23, T. 50 N., R. 20 W.
 QUAD Gateway 7 1/2'
 MAP MOAB
 PROD As of 1971, 3,561 tons had been mined at a grade of 0.32% U308, producing 22,802 lbs of U308, and 1.38% V205, producing 98,190 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Cherle 1 & 2

LOCATION: sec. 12, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Cherokee Shaft (JWL Fraction No. 1)

LOCATION: E1/2SW1/4 sec. 36, T. 51 N., R. 20 W.
 LCST UNLOCATABLE
 QUAD Mt. Waas 4 NE 7 1/2'
 MAP MOAB
 DYEL See JWL Fraction.
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.).

Chico & Chico Fraction

LOCATION: sec. 36, T. 51 N., R. 19 W.
 LCRM The deposit extends across T. 50-51 N., R. 19, 18 W.

QUAD Gateway 7 1/2'
 MAP MOAB
 PROD As of 1971, 181 tons had been mined at a grade of 0.47% U308, producing 1,696 lbs of U308, and 1.60% V205, producing 5,791 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Cliff Dweller (Cliff Dweller 1 & 2; Cliff House 1 & 2; Norva Louise 1 & 2)

LOCATION: sec. 22, T. 50 N., R. 18 W.
 LCRM The deposit extends to sec. 23.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,209 tons had been mined at a grade of 0.32% U308, producing 7,800 lbs of U308, and 1.52% V205, producing 36,685 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

C-G-26, DOE Lease Tract (Contract No. AT[05-1] - 36 and 19, AEC Mining Lease)

LOCATION: sec. 11, T. 50 N., R. 18 W.
 LCRM The deposit lies within the Gateway district on Calamity Mesa. The lease includes E1/2 sec. 2; NE1/4 sec. 3; SE1/4 sec. 9; S1/2 sec. 10; and NW1/4 sec. 14.
 QUAD Calamity Mesa 7 1/2', Pine Mountain 7 1/2'
 MAP MOAB
 PROD From 1949 through 1960, production from former AT(05-1)-36, AEC Mining Lease was 44,220 tons averaging 0.42% U308 and 1.80% V205. During 1955, production from former 19, AEC Mining Lease was 97 tons averaging 0.26% U308 and 1.26% V205. From 1975 through 1977, production from C-G-27, DOE Lease Tract was 1,231 tons averaging 0.17% and 0.76% V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

C-G-26A, DOE Lease Tract (34, AEC Mining Lease) (AT[05-1] - 36, AEC Mining Lease) Matchless, Queen of the Hills, Calamity Claims (Maverick Group)

LOCATION: sec. 4, T. 50 N., R. 18 W.
 LCRM The southeast corner of sec. 4 is in Calamity Mesa 7 1/2'. The lease extends to NE1/4 sec. 9; and the NW1/4 sec. 3. It lies on Calamity Mesa in the Gateway district.
 QUAD Gateway 7 1/2' or Juanita Arch 7 1/2'

MESA COUNTY

MAP MOAB
 PROD From 1949 through 1960, production from former AT(05-1)-36, AEC Mining Lease was 36,220 tons averaging 0.42% U308 and 1.80% V205. In 1953, production from former 34, AEC Mining Lease was 15 tons averaging 0.15% U308 and 0.69% V205. No production from 1960 through 1977.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.).

C-G-27, DOE Lease Tract (AT (05-1) - 36, AEC Mining Lease) (Neglected, [Calamity Mesa], Calamity 14 & 15) (G-1) (G-3) (G-4) (AT (05-1) - 526, AEC Mining Lease) (Outlaw Mesa)

LOCATION: sec. 12, T. 50 N., R. 18 W.
 LCRM The lease extends to NE1/4 sec. 13, T. 50 N., R. 18 W.; and SW1/4 sec. 7, NW1/4 sec. 18; T. 50 N., R. 17 W. The deposits lie on Outlaw Mesa in the Gateway district.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 DVEL From 1949 through 1960, production from former AT(05-1)-36, AEC Mining Lease, was 8,000 tons averaging 0.42% U308 and 1.80% V205. From 1950 through 1960, production from former AT(05-1)-526, AEC Mining Lease was 149,089 tons averaging 0.25% U308 and 1.09% V205. From 1975 through 1977, production from C-G-27, DOE Lease Tract was 2,379 tons of ore averaging 0.34% U308 and 1.57% V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

C-G-27A, DOE Lease Tract (AT[05-1] - 526, AEC Mining Lease) Outlaw Mesa) (G-2)

LOCATION: SW1/4 sec. 17, T. 50 N., R. 17 W.
 LCRM The deposit extends to SW1/4 sec. 7; and sec. 18. The lease lies on Outlaw Mesa in the Gateway district.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 DVEL From 1950 through 1960, production from former AT(05-1)-526, AEC Mining Lease was 16,308 tons averaging 0.20% U308 and 1.14% V205. No production from 1960 through 1977.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.).

Cave No. 1 Adit

LOCATION: SE1/4 sec. 4, T. 50 N., R. 19 W.
 LCRM This deposit lies in the Gateway district, South Beaver Mesa, Cave Canyon.
 QUAD Juanita Arch 7 1/2'

MAP MOAB
 PROD As of 1971, 17 tons had been mined at a grade of 0.39% U308, producing 134 lbs of U308, and 1.48% V205, producing 504 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Climax

LOCATION: NE1/4NE1/4 sec. 36, T. 50 N., R. 18 W.
 PROD As of 1971, 43 tons had been mined at a grade of 0.26% U308, producing 227 lbs of U308, and 1.78% V205, producing 1,534 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado. C-244 (Circular 6).

Climax Residue

LOCATION:
 PROD As of 1971, 3,027 tons had been recovered at a grade of 0.60% U308, producing 36,382 lbs of U308, and 3.31% V205, producing 200,287 lbs of V205.
 MNZ This material was recovered from residue from the Climax mill at Grand Junction.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Coal Town Citation

LOCATION:
 LCRM This deposit lies in the Gateway district.
 PROD As of 1971, 1 ton had been mined at a grade of 1.60% U308, producing 32 lbs of U308, and 2.50% V205, producing 50 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Cottonwood 3 & 5 (Little Girl, Pretty Boy)

LOCATION: sec. 14, T. 50 N., R. 18 W.
 LCRM The deposit extends to sec. 15, 22, and 23.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,583 tons had been mined at a grade of 0.20% U308, producing 6,309 lbs of U308, and 1.57% V205, producing 49,701 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

MESA COUNTY

Crescent

LOCATION:

LCST UNLOCATABLE
 LCRM This deposit lies in the Gateway district.
 PROD As of 1971, 96 tons had been mined at a grade of 0.22% U308, producing 413 lbs of U308, and 1.13% V205, producing 2,177 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Grows Nest (Mineral Channel Group)(Rainbow)

LOCATION: sec. 11, T. 50 N., R. 18 W.
 PROD As of 1971, 1,722 tons had been mined at a grade of 0.30% U308, producing 10,421 lbs of U308, and 1.43% V205, producing 49,369 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Cub

LOCATION: sec. 5, T. 50 N., R. 18 W.
 LCRM Part of sec. 5 lies in Juanita Arch 7 1/2'.
 QUAD Gateway 7 1/2'
 PROD As of 1971, 10 tons had been mined at a grade of 0.27% U308, producing 54 lbs of U308, and 0.98% V205, producing 197 lbs of V205.

HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.) U.S. A.E.C., 1971, Production Records, Colorado.

Dallu-Yellowbird

LOCATION: sec. 4, T. 25 S.
 LCST UNLOCATABLE.
 LCRM This was noted in R. 26 E. No such range exists.
 PROD As of 1971, 307 tons had been mined at a grade of 0.49% U308, producing 3,022 lbs of U308, and 1.91% V205, producing 11,706 lbs of V205.

HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.) U.S. A.E.C., 1971, Production Records, Colorado.

Deal Group (Last Chance 1-2, Black Jumbo 1, 2, and 3)

LOCATION: S1/2 sec. 4, T. 49 N., R. 17 W.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 7 tons had been mined at a grade of 0.59% U308, producing 83 lbs of U308, and 1.58% V205, producing 221 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Depression Group

LOCATION: sec. 18, T. 50 N., R. 18 W.
 QUAD Juanita Arch 7 1/2'
 MAP MOAB
 PROD As of 1971, 526 tons had been mined at a grade of 0.58% U308, producing 6,125 lbs of U308, and 3.08% V205, producing 32,391 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Depression No. 6

LOCATION: sec. 15, T. 50 N., R. 18 W.
 LCRM The deposit is listed by the U.S. A.E.C. as being in sec. 17.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 12,338 tons had been mined at a grade of 0.36% U308, producing 89,870 lbs of U308, and 1.89% V205, 465,691 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium low ilme.
 DOI 1975, 1-1-71
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Depression No. 2 & 3

LOCATION: sec. 18, T. 50 N., R. 18 W.
 QUAD Juanita Arch 7 1/2'
 PROD As of 1971, 530 tons had been mined at a grade of 0.35% U308, producing 3,685 lbs of U308, and 1.88% V205, producing 19,973 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.) U.S. A.E.C., 1971, Production Records, Colorado.

Depression No. 4 & 5

LOCATION: sec. 18, T. 50 N., R. 18 W.
 QUAD Juanita Arch 7 1/2'
 PROD As of 1971, 4,025 tons had been mined at a grade of 0.39% U308, producing 31,137 lbs of U308, and 1.65% V205, producing 132,976 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.

MESA COUNTY

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.) U.S. A.E.C., 1971, Production Records, Colorado.

high vanadium, intermed. ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.) U.S. A.E.C., 1971, Production Records, Colorado.

Drum Dust

LOCATION:
 PROD As of 1971, 121 tons were recovered at a grade of 4.04% U308, producing 9,769 lbs of U308.
 RMKS Material collected from residue of Yellow Cake Drums.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Emerson (Blair, Bluebird, Jumbo)

LOCATION: sec. 19, T. 50 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 30.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 266 tons had been mined at a grade of 0.36% U308, producing 1,906 lbs of U308, and 1.25% V205, producing 6,660 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.) U.S. A.E.C., 1971, Production Records, Colorado.

Durango No. 2

LOCATION: sec. 34, T. 51 N., R. 19 W.
 QUAD Gateway 7 1/2'
 PROD As of 1971, 69 tons had been mined at a grade of 0.23% U308, producing 322 lbs of U308, and 0.85% V205, producing 1,174 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.) U.S. A.E.C., 1971, Production Records, Colorado.

Flat Top

LOCATION: sec. 17, T. 50 N., R. 18 W.
 QUAD Juanita Arch 7 1/2'
 PROD As of 1971, 90 tons had been mined at a grade of 0.59% U308, producing 1,060 lbs of U308, and 3.12% V205, producing 5,614 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.) U.S. A.E.C., 1971, Production Records, Colorado.

Economy

LOCATION: sec. 24, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.)

Ford & Fordo Claim Group (Cat Track) (Fordo 6)

LOCATION: sec. 24, T. 51 N., R. 19 W.
 LCRM The deposit extends to sec. 19 and 20, T. 51 N., R. 18 W.
 QUAD Gateway 7 1/2'
 PROD As of 1971, 980 tons had been mined at a grade of 0.28% U308, producing 5,467 lbs of U308, and 0.78% V205, producing 15,335 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member,
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.) U.S. A.E.C., 1971, Production Records, Colorado.

Elizabeth 17 & 18

LOCATION: sec. 29, T. 50 N., R. 17 W.
 LCRM The deposit extends to sec. 32.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 2,589 tons had been mined at a grade of 0.37% U308, producing 19,350 lbs of U308, and 2.02% V205, producing 104,756 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.) U.S. A.E.C., 1971, Production Records, Colorado.

Fountain of Youth

LOCATION: sec. 31, T. 51 N., R. 18 W.
 QUAD Gateway 7 1/2'
 PROD As of 1971, 298 tons had been mined at a grade of 0.17% U308, producing 1,022 lbs of U308, and 0.78% V205, producing 4,654 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.) U.S. A.E.C., 1971, Production Records, Colorado.

Elizabeth No. 7, 8, 9, 10

LOCATION: sec. 4, T. 49 N., R. 17 W.
 LCRM The deposit extends to sec. 32, 33, T. 50 N., R. 17 W. and sec. 5, T. 49 N., R. 17 W.
 PROD As of 1971, 4,652 tons had been mined at a grade of 0.19% U308, producing 17,990 lbs of U308, and 1.76% V205, producing 163,967 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite,

Fraction

LOCATION: sec. 12, T. 50 N., R. 18 W.

MESA COUNTY

QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 188 tons had been mined at a grade of 0.35% U308, producing 1,325 lbs of U308, and 2.18% V205, producing 8,192 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

G-1

LOCATION: sec. 7, T. 50 N., R. 17 W.
 QUAD Calamity Mesa 7 1/2'
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Gateway Tailings

LOCATION: sec. 10, T. 51 N., R. 18 W.
 QUAD Pine Mountain 7 1/2'
 PROD As of 1971, 1,429 tons had been mined at a grade of 0.26% U308, producing 7,360 lbs of U308, and 0.69% V205, producing 19,842 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Gilmore Lode (Lumsden Group)

LOCATION: sec. 36, T. 51 N., R. 20 W.
 QUAD Polar Mesa 15'
 PROD As of 1971, 445 tons had been mined a grade of 0.33% U308, producing 2,920 lbs of U308, and 1.35% V205, producing 12,042 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Gladys 1-4

LOCATION: sec. 19, T. 51 N., R. 18 W.
 QUAD Gateway 7 1/2'
 PROD As of 1971, 25 tons had been mined at a grade of 0.34% U308, producing 170 lbs of U308, and 1.83% V205, producing 917 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, Intermed. lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Great Hesper (AT(05-1-36), AEC Mining Lease)(C-G-26A, DOE Lease Tract)

LOCATION: SW1/4 sec. 9, T. 50 N., R. 18 W.
 LCRM This deposit lies in the Gateway district, Calamity Mesa.
 DVEL See 16A, DOE Lease Tract.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971

REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Hanson-Negus (Hanson Dump)(C-G-27A, DOE Lease Tract)

LOCATION: sec. 17, T. 50 N., R. 17 W.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 8,325 tons had been mined at a grade of 0.14% U308, producing 23,511 lbs of U308, and 1.12% V205, producing 185,867 lbs of V205. (Most of this is included in C-G-27A, DOE Lease Tract production.)
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Harvey-Pick & Shovel

LOCATION: sec. 28, T. 51 N., R. 18 W.
 LCRM The deposit extends to sec. 29. Part of sec. 28 is in Pine Mountain 7 1/2'.
 QUAD Gateway 7 1/2'
 PROD As of 1971, 765 tons had been mined at a grade of 0.39% U308, producing 6,005 lbs of U308, and 1.14% V205, producing 17,632 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Hidden Treasure Shaft (AT-05-1)-36, AEC Mining Lease) and (C-G-26A, DOE Lease Tract)

LOCATION: SE1/4 sec. 4, T. 50 N., R. 18 W.
 LCST UNLOCATABLE
 PROD Included in production for C-G-26A, DOE Lease Tract.
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.).

Hole 24

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit occurs in the Gateway district.
 PROD As of 1971, 7 tons had been mined at a grade of 0.12% U308, producing 17 lbs of U308, and 1.44% V205, producing 201 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Homestead Patent

LOCATION: sec. 30, T. 50 N., R. 17 W.
 LCRM Also sec. 31, Gateway district, Blue Creek locality.
 QUAD Calamity Mesa 7 1/2'

MESA COUNTY

PROD As of 1971, 171 tons have been mined at a grade of 0.23% U3O8.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Hope 1 to 4

LOCATION: S1/2 sec. 29, T. 50 N., R. 17 W.
 LCRM The deposit extends to the W1/2 sec. 28.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 899 tons had been mined at a grade of 0.28% U3O8, producing 5,101 lbs of U3O8, and 1.88% V2O5, producing 33,778 lbs of V2O5.
 HOST Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Hubbard Homestead and Pack Rat (Shakin Quakie)

LOCATION: sec. 35, T. 51 N., R. 20 W.
 LCRM The deposit also lies in sec. 36.
 PROD As of 1971, 84,121 tons had been mined at a grade of 0.32% U3O8, producing 532,183 lbs of U3O8, and 1.35% V2O5, producing 2,269,086 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Humdinger

LOCATION: NW1/4 sec. 5, T. 50 N., R. 18 W.
 QUAD Gateway 7 1/2'
 PROD As of 1971, 45 tons had been mined at a grade of 0.26% U3O8, producing 232 lbs of U3O8, and 1.68% V2O5, producing 1,469 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Hummer (AT[05-1]-36), AEC Mining Lease) and (C-G-26A, DOE Lease Tract)

LOCATION: sec. 9, T. 50 N., R. 18 W.
 LCST UNLOCATABLE
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.).

Incline 1 G 1 (AT[05-1]-526, AEC Mining Lease; now C-G-27, DOE Lease Tract)

LOCATION: sec. 13, T. 50 N., R. 18 W.

QUAD Calamity Mesa 7 1/2'
 PROD This production is included in production for C-G-27, DOE Lease Tract.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Incline 2 G 2 (Now C-G-27A, DOE Lease Tract)

LOCATION: SE1/4 sec. 18, T. 50 N., R. 17 W.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 8,998 tons had been mined at a grade of 0.26% U3O8, producing 46,208 lbs of U3O8, and 1.15% V2O5, producing 207,836 lbs of V2O5. This production is included in the production of C-G-27A, DOE Lease Tract.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Incline 3 G 3 (Now C-G-27, DOE Lease Tract)

LOCATION: NE1/4 sec. 13, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 29,008 tons had been mined at a grade of 0.19% U3O8, producing 108,622 lbs of U3O8, and 0.89% V2O5, producing 515,489 lbs of V2O5. This production is included in the production of C-G-27.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Incline 4 G 4 (Now C-G-27, DOE Lease Tract)

LOCATION: NE1/4 sec. 13, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 6,702 tons had been mined at a grade of 0.23% U3O8, producing 31,149 lbs of U3O8, and 1.06% V2O5, producing 141,874 lbs of V2O5. This production is included in the production of C-G-27.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

J. W. Lewis (Larsen 1-13, Sampson 1-9)

LOCATION: sec. 1, T. 15 S., R. 104 W.
 LCRM 6th PM. This deposit lies in Pinlon Mesa.
 PROD As of 1971, 6 tons of ore had been mined at a grade of 0.10% U3O8 and 0.29% V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

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J.W.L. Fraction 2

LOCATION: SE1/4 sec. 25, T. 51 N., R. 20 W.
 QUAD Mt. Waas 4 NE 7 1/2'
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.).

J.W.L. Fraction 3

LOCATION: SE1/4 sec. 26, T. 51 N., R. 20 W.
 QUAD Mt. Waas 4 NE 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.).

J.W.L. Fraction (Cherokee Shaft)

LOCATION: SW1/4 sec. 36, T. 51 N., R. 20 W.
 QUAD Mt. Waas 4 NE 7 1/2'
 PROD As of 1971, 15,896 tons had been mined at a grade of 0.37% U308, producing 119,183 lbs of U308, and 1.46% V205, producing 464,107 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Jean 1, 2, & 3

LOCATION: sec. 30, T. 50 N., R. 17 W.
 LCST UNLOCATABLE
 PROD As of 1971, 98 tons had been mined at a grade of 0.18% U308, producing 360 lbs of U308, and 1.12% V205, producing 2,203 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Jody Group

LOCATION: sec. 33, T. 50 N., R. 17 W.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 1,833 tons had been mined at a grade of 0.21% U308, producing 7,643 lbs of U308, and 1.88% V205, producing 68,790 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Joe

LOCATION: sec. 31, T. 51 N., R. 18 W.
 LCRM The deposit extends to sec. 24, T. 51 N., R. 19 W.

QUAD Gateway 7 1/2'
 PROD As of 1971, 2,486 tons had been mined at a grade of 0.27% U308, producing 13,184 lbs of U308, and 1.01% V205, producing 50,286 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

John Brown

LOCATION: sec. 7, T. 50 N., R. 19 W.
 QUAD Polar Mesa 15'
 PROD As of 1971, 6 tons had been mined at a grade of 0.45% U308, producing 54 lbs of U308, and 1.42% V205, producing 171 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

John Brown 14 & 15 (John Brown Extension, Duffy, Duffy Extension)

LOCATION: sec. 1, T. 50 N., R. 20 W.
 PROD As of 1971, 12,206 tons had been mined at a grade of 0.23% U308, producing 55,627 lbs of U308, and 0.73% V205, producing 178,282 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

John Brown No. 18 (John Brown 16-19; John Brown Annex)

LOCATION: sec. 6, T. 50 N., R. 19 W.
 LCRM This deposit lies in Beaver Mesa, Gateway district.
 DYEL Reserves, no production.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uraninite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

John Brown No. 21

LOCATION: sec. 31, T. 51 N., R. 19 W.
 LCRM This deposit lies in Beaver Mesa, Gateway district.
 DYEL Reserves, no production.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uraninite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Johnnie Mae 2

LOCATION: sec. 36, T. 51 N., R. 20 W.
 MNZ Uranium, vanadium.

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DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.).

Johnnie Mae 3

LOCATION: sec. 36, T. 51 N., R. 20 W.
LCRM The deposit extends to sec. 25.
PROD As of 1971, 4,745 tons had been mined at a grade of 0.51% U308, producing 47,966 lbs of U308, and 2.04% V205, producing 193,349 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Ju Dee 1

LOCATION:
LCRM This deposit lies in the Gateway district on Calamity Mesa.
PROD As of 1971, 1 ton had been mined at a grade of 0.45% U308, producing 9 lbs of U308, and 1.05% V205, producing 21 lbs of V205.
HOST Jurassic Morrison Formation.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

July

LOCATION: sec. 12, T. 50 N., R. 18 W.
PROD As of 1971, 6,739 tons had been mined at a grade of 0.39% U308, producing 52,995 lbs of U308, and 1.60% V205, producing 215,045 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Jumbo 1

LOCATION: sec. 19, T. 50 N., R. 17 W.
LCRM This deposit lies in the Long Park district.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 844 tons had been mined at a grade of 0.25% U308, producing 4,239 lbs of U308, and 1.71% V205, producing 28,816 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Kanarado 3

LOCATION: sec. 33, T. 50 N., R. 18 W.
QUAD Juanita Arch 7 1/2'
PROD As of 1971, 3 tons had been mined at a grade of 0.30% U308, producing 18 lbs of U308, and 1.65% V205, producing 99 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Karns Incline

LOCATION: sec. 12, T. 50 N., R. 20 W.
PROD As of 1971, 6,532 tons had been mined at a grade of 0.46% U308, producing 59,456 lbs of U308, and 1.93% V205, producing 251,974 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uraninite (coffinite), high vanadium, low lime.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

King Solomon

LOCATION:
LCST UNLOCATABLE
QUAD Red Canyon 7 1/2'
PROD As of 1971, 209 tons had been mined at a grade of 0.22% U308, producing 938 lbs of U308, and 0.64% V205, producing 2,670 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, low vanadium, low lime.
DOI 1971
REF A. S. J. Taylor, 1978, Personal Communication. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Klondike

LOCATION: SE1/4 sec. 25, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 63 tons had been mined at a grade of 0.25% U308, producing 315 lbs of U308, and 1.82% V205, producing 2,295 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

La Plaz 1

LOCATION: sec. 22, T. 50 N., R. 19 W.
QUAD Juanita Arch 7 1/2'
PROD As of 1971, 222 tons had been mined at a grade of 0.28% U308, producing 1,240 lbs of U308, and 1.14% V205, producing 5,052 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

La Sal

LOCATION: sec. 25, T. 50 N., R. 20 W.

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PROD By 1971, 17,263 tons had been mined at a grade of 0.33% U3O8, 112,646 lbs of U3O8, and 1.20% V2O5, producing producing 415,796 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1-1-71
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

La Sal Group (La Salle Group)

LOCATION: sec. 36, T. 51 N., R. 20 W.
 PROD By 1971, 57,543 tons had been mined at a grade of 0.33% U3O8, producing 383,735 lbs of U3O8, and 1.14% V2O5, producing 1,309,922 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

La Sal No. 1 & 2

LOCATION: sec. 36, T. 51 N., R. 20 W.
 PROD By 1971, 1706 tons had been mined at a grade of 0.39% U3O8, producing 13,458 lbs of U3O8, and 1.31% V2O5, producing 44,629 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1-1-71
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

La Sal No. 4

LOCATION: sec. 36, T. 51 N., R. 20 W.
 PROD By 1971, 12,773 tons had been mined at a grade of 0.35% U3O8, producing 88,151 lbs of U3O8, and 1.29% V2O5, producing 330,429 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

La Sal No. 5 & 7

LOCATION: sec. 36, T. 51 N., R. 20 W.
 PROD By 1971, 11,615 tons had been mined at a grade of 0.33% U3O8, producing 77,511 lbs of U3O8, and 1.23% V2O5, producing 286,667 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Larry & Leslie Claim Group

LOCATION: sec. 5, T. 50 N., R. 19 W.

LCRM Part of sec. 5 is on Juanita Arch 7 1/2'.
 QUAD Polar Mesa 15'
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Lavada (Lavada 2-7, Mineral Jack 1-3)

LOCATION: sec. 23, T. 50 N., R. 18 W.
 LCRM The deposit extends to sec. 14.
 QUAD Calamity Mesa 7 1/2'
 PROD By 1971, 51 tons had been mined at a grade of 0.47% U3O8, producing 479 lbs of U3O8, and 2.06% V2O5, producing 2,104 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lee 1-6

LOCATION: sec. 21, T. 50 N., R. 18 W.
 LCRM Part of sec. 21 is in Calamity Mesa 7 1/2'.
 QUAD Juanita Arch 7 1/2'
 PROD By 1971, 66 tons had been mined at a grade of 0.37% U3O8, producing 492 lbs of U3O8, and 2.00% V2O5, producing 2643 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Legal & Lucky Day

LOCATION: sec. 7, T. 50 N., R. 19 W.
 QUAD Polar Mesa 15'
 PROD By 1971, 5 tons had been mined at a grade of 0.20% U3O8, producing 20 lbs of U3O8, and 3.72% V2O5, producing 372 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Liberty Bell

LOCATION: sec. 36, T. 51 N., R. 19 W.
 QUAD Gateway 7 1/2'
 PROD By 1971, 10,355 tons had been mined at a grade of 0.29% U3O8, producing 60,260 lbs of U3O8, and 0.99% V2O5, producing 204,241 lbs of U3O8.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, low vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lincoln

LOCATION: sec. 31, T. 51 N., R. 18 W.
 QUAD Gateway 7 1/2'
 PROD By 1971, 77,18 tons had been mined at a grade of 0.24% U3O8, producing 35,157 lbs

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of U308, and 0.79% V205, producing 116,043 lbs of V205.

HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1-1-71
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Little Johnny

LOCATION: sec. 31, T. 51 N., R. 18 W.
 QUAD Gateway 7 1/2'
 PROD By 1971, 2,270 tons had been mined at a grade of 0.18% U308, producing 8,193 lbs of U308, and 0.78% V205, producing 35,558 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1-1-71
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Little Maverick 1, 4, 5 & 6

LOCATION: sec. 21, T. 50 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 28.
 QUAD Juanita Arch 7 1/2'
 PROD By 1971, 72 tons had been mined at a grade of 0.37% U308, producing 527 lbs of U308, and 1.85% V205, producing 2,658 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1-1-71
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Locus 1, 2, & 3

LOCATION: sec. 28, T. 50 N., R. 18 W.
 LCRM Part of sec. 28 is on Calamity Mesa 7 1/2'.
 QUAD Juanita Arch 7 1/2'
 PROD By 1971, 2 tons had been mined at a grade of 0.13% U308, producing 5 lbs of U308, and 0.75% V205, producing 30 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, Intermed. ilme.
 DOI 1-1-71
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lode Claim

LOCATION: sec. 32, T. 15 S., R. 104W, 6 PM.
 LCST UNLOCATABLE
 PROD By 1971, 63 tons had been mined at a grade of 0.28% U308, producing 356 lbs of U308, and 1.42% V205, producing 1795 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1-1-71
 REF A. S. J. Taylor, 1978, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado.

Log Cabin (Homestead)

LOCATION: SE1/4 sec. 30, T. 51 N., R. 18 W, NMPM.
 LCRM This lease lies in the Gateway district, Tenderfoot Mesa.
 QUAD Gateway 7 1/2'
 MAP MOAB
 PROD By 1971, 156 tons had been mined at a grade of 0.20% U308, producing 611 lbs of U308, and 1.27% V205, producing 3,972 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1-1-71
 REF A. S. J. Taylor, 1978, Personal Communication. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lone Peak

LOCATION: sec. 31, T. 51 N., R. 19 W.
 QUAD Gateway 7 1/2'
 PROD By 1971, 2 tons had been mined at a grade of 1.20% U308, producing 48 lbs of U308, and 2.25% V205, producing 90 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Look Out

LOCATION: sec. 19, T. 50 N., R. 18 W.
 QUAD Juanita Arch 7 1/2'
 PROD By 1971, 13 tons had been mined at a grade of 0.97% U308, producing 253 lbs of U308, and 4.34% V205, producing 1,128 lbs of V205.
 HOST Jurassic Morrison Formation Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lost Dutchman 17

LOCATION: sec. 25, T. 51 N., R. 20 W.
 LCRM The deposit extends to sec. 26.
 PROD By 1971, 61,738 tons had been mined at a grade of 0.26% U308, producing 322,250 lbs of U308, and 1.05% V205, producing 1,293,825 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Lost Indian (Last Indian)

LOCATION: T. 51 N., R. 19 W.
 LCST UNCERTAIN
 LCRM This deposit lies in the Gateway district, Beaver Mesa.
 PROD As of 1971, 35 tons of ore had been mined at a grade of 0.342% U308.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

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Lucky Day

LOCATION: sec. 7, T. 50 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 6.
 QUAD Polar Mesa 15'
 PROD By 1971, 138 tons had been mined at a grade of 0.11% U308, producing 302 lbs of U308, and 0.97% V205, producing 2,686 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lucky Hole

LOCATION:
 LCST UNLOCATABLE
 PROD By 1971, 2 tons had been mined at a grade of 0.50% U308, producing 20 lbs of U308, and 3.92% V205, producing 157 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Lucky K

LOCATION: sec. 23, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Lucky Strike

LOCATION: sec. 32, T. 50 N., R. 18 W.
 QUAD Juanita Arch 7 1/2'
 PROD By 1971, 43 tons had been mined at a grade of 0.16% U308, producing 134 lbs of U308, and 0.79% V205, producing 678 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, low vanadium, Intermed. lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lumsden No. 2 & 6

LOCATION: sec. 36, T. 51 N., R. 20 W.
 PROD By 1971, 47,282 tons had been mined at a grade of 0.36% U308, producing 336,008 lbs of U308, and 1.40% V205, producing 1,325,897 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lumson 1 (Lumsden 1)

LOCATION: sec. 36, T. 51 N., R. 20 W.
 PROD By 1971, 5,330 tons had been mined at a grade of 0.32% U308, producing 33,764 lbs of U308, and 1.66% V205, producing 177,103 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mammoth

LOCATION: sec. 31, T. 51 N., R. 18 W.
 QUAD Gateway 7 1/2'
 PROD By 1971, 5,124 tons were mined at a grade of .15% U308, producing 15,018 lbs of U308, and 0.69% V205, producing 70,291 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mammoth-Lincoln

LOCATION: sec. 31, T. 51 N., R. 18 W.
 QUAD Gateway 7 1/2'
 PROD By 1971, 1,833 tons were mined at a grade of 0.16% U308, producing 6,023 lbs of U308, and 0.70% V205, producing 25,613 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mark 2

LOCATION: sec. 1, T. 50 N., R. 20 W.
 LCRM The deposit extends to sec. 16, T. 25 S., R. 26 E. (Utah).
 PROD By 1971, 97,019 tons were mined at a grade of 0.28% U308, producing 537,893 lbs of U308, and 0.85% V205, producing 1,653,150 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Matchless (AT(05-1)-36, AEC Mining Lease)(C-G-26A, DOE Lease Tract)

LOCATION: sec. 9, T. 50 N., R. 18 W.
 LCRM Part of sec. 9 is in Calamity Mesa 7 1/2'.
 QUAD Juanita Arch 7 1/2'
 MNZ Uranium, vanadium.
 DOI 1975
 REF A. S. J. Taylor, 1978, Personal Communication. U.S. Bur. of Mines, 1977, (Unpubl.).

Maverick

LOCATION: sec. 3, T. 50 N., R. 18 W.
 QUAD Gateway 7 1/2'
 PROD As of 1971, 9 tons were mined at a grade of 0.53% U308, producing 96 lbs of U308, and 3.94% V205, producing 709 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

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Maverick 6

LOCATION: sec. 3, T. 50 N., R. 18 W.
 LCRM Part of sec. 3 is in Calamity Mesa 7 1/2'
 QUAD Gateway 7 1/2'
 PROD As of 1971, 38 tons had been mined at a grade of 0.28% U308, producing 215 lbs of U308, and 1.34% V205, producing 1.34% V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mesa 8

LOCATION: sec. 12, T. 50 N., R. 18 W.
 LCRM Calamity Mesa 7 1/2'
 PROD As of 1971, 51,434 tons had been mined at a grade of 0.21% U308, producing 216,548 lbs of U308, and 1.02% V205, producing 1,053,868 lbs of V205.
 HOST The host is Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Mesa No. 5 (Outlaw Mesa)

LOCATION: E1/2 sec. 12, T. 50 N., R. 18 W.
 LCRM The deposit extends to sec. 7, T. 50 N., R. 17 W.
 PROD As of 1971, 23,100 tons had been mined at a grade of 0.23% U308, producing 114,816 lbs of V205.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Mill Site Lode (June)

LOCATION: sec. 13, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 82 tons had been mined at a grade of 0.22% U308, producing 369 lbs of U308, and 0.99% V205, producing 1,622 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mineral Channel 10 & 12

LOCATION: sec. 7, T. 50 N., R. 17 W.
 LCRM The deposit extends to sec. 12, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 4,662 tons had been mined at a grade of 0.21% U308, producing 19,562

lbs of U308, and 0.96% V205, producing 89,072 lbs of V205.

HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mineral Channel 3

LOCATION: sec. 12, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 827 tons had been mined at a grade of 0.43% U308, producing 7,039 lbs of U308, and 1.64% V205, producing 27,065 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mineral Channel 5

LOCATION: sec. 12, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 84 tons had been mined at a grade of 0.74% U308, producing 1,236 lbs of U308, and 2.30% V205, producing 3,869 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Monroe 18

LOCATION: sec. 36, T. 50 N., R. 18 W.
 LCRM The deposit extends to sec. 25.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 149 tons had been mined at a grade of 0.22% U308, producing 660 lbs of U308, and 1.58% V205, producing 4,712 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Montezuma

LOCATION: sec. 10, T. 50 N., R. 19 W.
 QUAD Juanita Arch 7 1/2'
 PROD As of 1971, 4 tons had been mined at a grade of 0.40% U308, producing 32 lbs of U308, and 3.14% V205, producing 251 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

MESA COUNTY

Neglected (AT(05-1)-36, AEC Mining Lease)(C-G-27, DOE Lease Tract)

LOCATION: sec. 12, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.).

Nelson

LOCATION: sec. 10, T. 50 N., R. 19 W.
 QUAD Juanita Arch 7 1/2'
 PROD As of 1971, 7 tons had been mined at a grade of 0.48% U308, producing 67 lbs of U308, and 2.14% V205, producing 299 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Nelson Mother Dee

LOCATION: sec. 10, T. 50 N., R. 19 W.
 QUAD Juanita Arch 7 1/2'
 PROD As of 1971, 43 tons had been mined at a grade of 0.35% U308, producing 295 lbs of U308, and 1.78% V205, producing 1,534 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

New Verde (Horn Group)

LOCATION: sec. 15, T. 50 N., R. 18 W.
 LCRM The deposit extends to sec. 16, 21, 22, 27, 28, 33, and 34.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 72,100 tons had been mined at a grade of 0.32% U308, producing 465,920 lbs of U308, and 1.35% V205, producing 1,951,777 lbs of V205.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Newhiesel

LOCATION: sec. 31, T. 51 N., R. 19 W.
 LCRM Beaver Mesa
 QUAD Polar Mesa 15'
 PROD As of 1971, 4,516 tons had been mined at a grade of 0.28% U308, producing 25,643 lbs of U308.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

October Adit

LOCATION: S1/2 sec. 4, T. 50 N., R. 19 W.
 LCRM The deposit extends to N1/2 sec. 8 and 9.
 QUAD Gateway 7 1/2'
 PROD As of 1971, 53,411 tons had been mined at a grade of 0.31% U308, producing 331,194 lbs of U308, and 0.91% V205, producing 970,686 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Okan

LOCATION: sec. 31, T. 51 N., R. 18 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Outlaw-Economy

LOCATION: sec. 12, T. 50 N., R. 18 W.
 LCRM The deposit extends to sec. 19, T. 50 N., R. 17 W., and sec. 24, 25, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 6,368 tons had been mined at a grade of 0.33% U308, producing 41,921 lbs of U308, and 1.45% V205, producing 185,281 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Pack Rat 1 & 2

LOCATION: sec. 35, T. 51 N., R. 20 W.
 LCRM The deposit extends to sec. 25 and 36.
 PROD As of 1971, 46,993 tons had been mined at a grade of 0.32% U308, producing 300,994 lbs of U308, and 1.46% V205, producing 1,373,280 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Pay Lode (Pay Rock Group)

LOCATION: sec. 19, T. 51 N., R. 18 W.
 QUAD Gateway 7 1/2'
 PROD As of 1971, 180 tons had been mined at a grade of 0.21% U308, producing 757 lbs of U308, and 1.23% V205, producing 4,414 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971

MESA COUNTY

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Payday 1-7

LOCATION: sec. 2, T. 50 N., R. 19 W.
 LCRM Part of sec. 2 is in Juanita Arch 7 1/2'
 QUAD Gateway 7 1/2'
 PROD As of 1971, 12 tons had been mined at a grade of 0.11% U308, producing 27 lbs of U308, and 1.09% V205, producing 261 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Payrock Group (Payrock No. 14 & 16, Payrock Mines)

LOCATION: sec. 17, T. 51 N., R. 18 W.
 LCRM Also sec. 18-20.
 QUAD Gateway 7 1/2'
 PROD As of 1971, 761 tons had been mined at a grade of 0.25% U308, producing 3,812 lbs of U308, and 1.35% V205, producing 20,497 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Peach 10 Incline 1 & 2 (Peach 7)

LOCATION: sec. 25, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 3,469 tons had been mined at a grade of 0.28% U308, producing 19,473 lbs of U308, and 2.04% V205, producing 141,224 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Pond & Schubert Group

LOCATION: sec. 4, T. 25 S., R. 26 E.
 LCRM Also sec. 5, 6, 8, 17, 18, 19.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Powder Horn Incline

LOCATION: sec. 15, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

PPT. Concentrate

LOCATION: sec. 10, T. 51 N., R. 19 W.
 QUAD Gateway 7 1/2'
 PROD As of 1971, 10 tons had been mined at a grade of 0.68% U308, producing 137 lbs of U308, and 1.73% V205, producing 346 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Protector

LOCATION: sec. 31, T. 51 N., R. 18 W.
 QUAD Gateway 7 1/2'
 PROD As of 1971, 6,291 tons had been mined at a grade of 0.29% U308, producing 36,293 lbs of U308, and 1.06% V205, producing 133,065 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Purple Heart

LOCATION:
 LCST UNLOCATABLE
 PROD As of 1971, 9 tons had been mined at a grade of 0.18% U308, producing 33 lbs of U308, and 0.09% V205, producing 17 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Queen of the Hills (AT(05-1)-36, AEC Mining Lease) (C-G-26A, DOE Lease Tract)

LOCATION: sec. 9, T. 50 N., R. 18 W.
 LCRM Part of sec. 9 is in Calamity Mesa 7 1/2'
 QUAD Juanita Arch 7 1/2'
 PROD Production included in AT(05-U-36), AEC Mining Lease.
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Radium 7

LOCATION: sec. 9, T. 50 N., R. 18 W.
 LCRM The deposit extends to sec. 3 and 10. Part of sec. 9 is in Calamity Mesa 7 1/2'.
 PROD As of 1971, 16 tons had been mined at a grade of 0.35% U308, producing 113 lbs of U308, and 2.53% V205, producing 811 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

MESA COUNTY

Rae Marle (Rae Marle No. 3)

LOCATION: sec. 18, T. 51 N., R. 104 W.
 LCRM This deposit extends to sec. 28-33, T. 24 S., R. 26 E. (In Utah).
 QUAD Polar Mesa 15'
 PROD As of 1971, 586 tons had been mined at a grade of 0.39% U308, producing 4,525 lbs of U308, and 1.14% V205, producing 13,369 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rae Marle Group

LOCATION: sec. 33, T. 24 S., R. 26 E.
 LCRM The deposit extends to sec. 28 and to sec. 13, 14, 23, and 24, T. 51 N., R. 20 W.
 PROD As of 1971, 4,449 tons had been mined at a grade of 0.35% U308, producing 31,138 lbs of U308, and 1.24% V205, producing 110,284 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rainbow

LOCATION: sec. 18, T. 50 N., R. 18 W.
 QUAD Juanita Arch 7 1/2'
 PROD As of 1971, 191 tons had been mined at a grade of 0.29% U308, producing 1,124 lbs of U308, and 1.38% V205, producing 5,259 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rajah 1

LOCATION: sec. 36, T. 51 N., R. 20 W.
 PROD As of 1971, 880 tons had been mined at a grade of 0.19% U308, producing 3,364 lbs of U308, and 0.59% V205, producing 10,367 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rajah 11 & 63

LOCATION: sec. 35, T. 51 N., R. 20 W.
 LCRM The deposit extends to sec. 36
 QUAD Polar Mesa 15'
 PROD As of 1971, 34,233 tons had been mined at a grade of 0.28% U308, producing 190,243

lbs of U308, and 1.06% V205, producing 728,209 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rajah 30 (Rajah 30 Incline) (Rajah 30 Shaft)

LOCATION: sec. 1, T. 50 N., R. 20 W.
 LCRM The deposit extends to sec. 36, T. 51 N., R. 20 W.
 PROD As of 1971, 292,647 tons had been mined at a grade of 0.25% U308, producing 1,484,991 lbs of U308, and 0.78% V205, producing 4,538,721 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rajah 49

LOCATION: sec. 30, T. 51 N., R. 19 W.
 QUAD Polar Mesa 15'
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Rajah 67 & 68, 61, 62, and 63

LOCATION: sec. 36, T. 51 N., R. 20 W.
 LCRM The deposit extends to sec. 35.
 QUAD Polar Mesa 15'
 PROD As of 1971, 112,673 tons had been mined at a grade of 0.27% U308, producing 598,010 lbs of U308, and 1.13% V205, producing 2,555,105 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rajah 72

LOCATION: sec. 36, T. 51 N., R. 20 W.
 PROD As of 1971, 114 tons had been mined at a grade of 0.31% U308, producing 711 lbs of U308, and 1.80% V205, producing 4,104 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rajah No. 2

LOCATION: sec. 1, T. 50 N., R. 20 W.
 PROD No production.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

MESA COUNTY

Rajah No. 4

LOCATION: sec. 11, T. 50 N., R. 19 W.
 PROD No production.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Rajah No. 9

LOCATION: sec. 6, T. 50 N., R. 19 W.
 PROD No production.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Ranch View

LOCATION: sec. 30, T. 50 N., R. 17 W.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 15 tons had been mined at a grade of 0.50% U308, producing 149 lbs of U308, and 1.55% V205, producing 465 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Raven 3

LOCATION: sec. 32, T. 50 N., R. 17 W.
 LCRM The deposit extends to sec. 31.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 685 tons had been mined at a grade of 0.34% U308, producing 4,694 lbs of U308, and 1.56% V205, producing 21,426 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rena (Lost Marble)

LOCATION: sec. 19, T. 51 N., R. 18 W.
 LCRM The deposit extends to sec. 18.
 QUAD Gateway 7 1/2'
 PROD As of 1971, 269 tons had been mined at a grade of 0.30% U308, producing 1,640 lbs of U308, and 1.34% V205, producing 7,224 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Roger, Mike, et al claims

LOCATION: sec. 20, T. 51 N., R. 18 W.
 QUAD Gateway 7 1/2'
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Ronnie 1 (C-G-27, DOE Lease Tract)

LOCATION: sec. 12, T. 50 N., R. 18 W.
 LCRM The deposit extends to sec. 12.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 11,817 tons had been mined at a grade of 0.31% U308, producing 73,215 lbs of U308, and 1.32% V205, producing 311,640 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Ronnie 2 (C-G-27, DOE Lease Tract)

LOCATION: sec. 13, T. 50 N., R. 18 W.
 LCRM The deposit extends to sec. 13.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 1,606 tons had been mined at a grade of 0.30% U308, producing 9,576 lbs of U308, and 1.38% V205, producing 44,427 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rosebud

LOCATION: sec. 36, T. 51 N., R. 19 W.
 QUAD Gateway 7 1/2'
 PROD As of 1971, 519 tons had been mined at a grade of 0.41% U308, producing 4,254 lbs of U308, and 1.16% V205, producing 12,076 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rudot 1

LOCATION: sec. 34, T. 51 N., R. 19 W.
 LCRM The deposit extends to sec. 33.
 QUAD Gateway 7 1/2'
 PROD As of 1971, 259 tons had been mined at a grade of 0.28% U308, producing 1,449 lbs of U308, and 1.28% V205, producing 6,614 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Salute 3

LOCATION: sec. 25, T. 50 N., R. 18 W.

MESA COUNTY

QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 13 tons had been mined at a grade of 0.24% U308, producing 63 lbs of U308, and 0.64% V205, producing 167 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Scott 2

LOCATION: sec. 27, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 7 tons had been mined at a grade of 0.26% U308, producing 36 lbs of U308, and 1.37% V205, producing 192 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Snow Shoe

LOCATION: sec. 12, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 1,493 tons had been mined at a grade of 0.34% U308, producing 10,023 lbs of U308, and 1.33% V205, producing 39,669 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Shakin Quakie

LOCATION: sec. 35, T. 51 N., R. 20 W.
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Spring

LOCATION: sec. 12, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 2,757 tons had been mined at a grade of 0.45% U308, producing 24,592 lbs of U308, and 1.99% V205, producing 109,535 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Shelby Dean 2

LOCATION: sec. 34, T. 51 N., R. 19 W.
 QUAD Gateway 7 1/2'
 PROD As of 1971, 8 tons had been mined at a grade of 0.42% U308, producing 67 lbs of U308, and 2.71% V205, producing 434 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Stormy Treasure

LOCATION: sec. 35, T. 50 N., R. 18 W.
 LCRM The deposit is located on Blue Mesa.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 5 tons had been mined at a grade of 0.17% U308, producing 17 lbs of U308, and 0.82% V205, producing 82 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Silver Moon

LOCATION: NE1/4NE1/4 sec. 10, T. 1 N., R. 3 W.
 LCRM This occurrence is in the Ute Meridian, and lies in the Rifle district near Loma, Colorado.
 PROD As of 1971, 4 tons had been mined at a grade of 0.09% U308, producing 7 lbs of U308, and 0.57% V205, producing 46 lbs of V205.
 MNZ This ore is residue from a vanadium ore buying station that operated in the 1940-1945 period.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Strode 1

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Gateway district.
 PROD As of 1971, 3 tons had been mined at a grade of 0.93% U308, producing 56 lbs of U308, and 2.90% V205, producing 174 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Small Spot

LOCATION: sec. 9, T. 50 N., R. 18 W.
 LCRM The deposit extends across sec. 4-9. Part of sec. 9 is in Calamity Mesa 7 1/2'.
 PROD As of 1971, 2,616 tons had been mined at a grade of 0.68% U308, producing 35,372 lbs of U308, and 2.78% V205, producing 145,438

Sun

LOCATION: sec. 12, T. 50 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records show location as Sec. 7, T. 50 N., R. 17 W.

MESA COUNTY

QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 309 tons had been mined at a grade of 0.51% U308, producing 3,130 lbs of U308, and 2.35% V205, producing 14,493 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sunflower (AT(05-1)-36), AEC Mining Lease)(C-G-26A, DOE Lease Tract)

LOCATION: sec. 4, T. 50 N., R. 18 W.
 LCRM This deposit lies in the Gateway district, Calamity Mesa.
 PROD As of 1971, 2,375 tons of ore had been mined at a grade of 0.21% U308. This production is included in the total for C-G-26A, DOE Lease Tract.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Sunspot, Cloud 1, Thundercloud

LOCATION: sec. 32, T. 51 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records list this deposit in sec. 22.
 QUAD Polar Mesa 15'
 PROD As of 1971, 10,044 tons had been mined at a grade of 0.29% U308, producing 57,627 lbs of U308, and 1.13% V205, producing 227,496 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Supply 11

LOCATION: sec. 35, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 15 tons had been mined at a grade of 0.29% U308, producing 86 lbs of U308, and 1.29% V205, producing 386 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Supply 14

LOCATION: sec. 35, T. 50 N., R. 18 W.
 QUAD Calamity Mesa 7 1/2'
 PROD As of 1971, 14 tons had been mined at a grade of 0.11% U308, producing 31 lbs of U308, and 1.29% V205, producing 360 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Surprise Group (Surprise No. 1-3)

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Gateway district.
 PROD As of 1971, 142 tons had been mined at a grade of 0.20% U308, producing 576 lbs of U308, and 1.41% V205, producing 3,992 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Teepee Pole

LOCATION: sec. 36, T. 50 N., R. 18 W.
 LCRM Calamity Mesa 7 1/2'
 QUAD MOAB
 PROD As of 1971, 7 tons had been mined at a grade of 0.10% U308, producing 33,710 lbs of U308, and 1.06% V205, producing 194,464 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Tenderfoot Group (Payrock Group)

LOCATION: sec. 19, T. 51 N., R. 18 W.
 QUAD Gateway 7 1/2'
 PROD As of 1971, 8 tons had been mined at a grade of 0.21% U308, producing 34 lbs of U308, and 1.67% V205, producing 267 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

The Cave

LOCATION: sec. 4, T. 50 N., R. 19 W.
 LCRM Part of sec. 4 lies on Juanita Arch 7 1/2'.
 QUAD Gateway 7 1/2'
 MNZ Uranium and vanadium were mined.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

The Duke

LOCATION: sec. 32, T. 51 N., R. 19 W.
 LCRM This deposit lies in the Gateway district, Beaver Mesa.
 QUAD Polar Mesa 15'
 PROD As of 1971, 270 tons had been mined at a grade of 0.28% U308, producing 1,539 lbs of U308, and 1.20% V205, producing 6,465 lbs of V205.
 HOST Jurassic Morrison Formation.

MESA COUNTY

DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Thornton Tunnel (Zee Lease)

LOCATION: sec. 31, T. 51 N., R. 19 W.
LCRM The deposit extends to sec. 36, T 51 N,
R 20 W.
QUAD Polar Mesa 15'
PROD As of 1971, 13,777 tons had been mined at
a grade of 0.27% U308, producing 74,848
lbs of U308, and 0.85% V205, producing 233,769
lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite,
high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S.
A.E.C., 1971, Production Records, Colorado.

Thunder Cloud No. 1 Mine

LOCATION: sec. 32, T. 51 N., R. 19 W.
QUAD Polar Mesa 15'
MNZ Uranium and vanadium were mined.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.).

Trojan 18 & 20

LOCATION: sec. 23, T. 50 N., R. 18 W.
QUAD Calamity Mesa 7 1/2'
PROD As of 1971, 616 tons had been mined at a
grade of 0.60% U308, producing 7,430 lbs
of U308, and 2.11% V205, producing 25,988
lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S.
A.E.C., 1971, Production Records, Colorado.

Turner

LOCATION: S1/2S1/2 sec. 29, T. 50 N., R. 17 W.
DOI 1958
REF Hague, R. S., Goldenstein, S. J., and Blakey,
E., Uranium - vanadium deposits of the Uravan
Mineral Belt, 1958.

Vanadium King 1 (Vana King No. 1)

LOCATION: sec. 19, T. 51 N., R. 18 W.
QUAD Gateway 7 1/2'
PROD As of 1971, 17 tons had been mined at a
grade of 0.19% U308, producing 65 lbs of
U308, and 1.40% V205, producing 476 lbs
of V205.
HOST Jurassic Morrison Formation, Salt Wash Sandstone
Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S.
A.E.C., 1971; Production Records, Colorado.

Vanadium King 2 (Vana King No. 2)

LOCATION: sec. 19, T. 51 N., R. 18 W.

QUAD Gateway 7 1/2'
PROD As of 1971, 48 tons had been mined at a
grade of 0.46% U308, producing 439 lbs of
U308, and 1.66% V205, producing 1,589 lbs
of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S.
A.E.C., 1971, Production Records, Colorado.

Wasp 1

LOCATION: sec. 18, T. 50 N., R. 18 W.
QUAD Juanita Arch 7 1/2'
PROD As of 1971, 485 tons had been mined at a
grade of 0.46% U308, producing 4,509 lbs
of U308, and 2.11% V205, producing 20,512
lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite,
high vanadium, intermed. lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.).

Yellow Jacket 9

LOCATION: sec. 3, T. 50 N., R. 18 W.
LCRM Part of sec. 3 ls in Calamity Mesa 7 1/2'
QUAD Gateway 7 1/2'
PROD As of 1971, 194 tons had been mined at a
grade of 0.34% U308, producing 1,324 lbs
of U308, and 1.50% V205, producing 5,806
lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite,
high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S.
A.E.C., 1971, Production Records, Colorado.

Yellow Jacket 2

LOCATION: sec. 3, T. 50 N., R. 18 W.
PROD As of 1971, 2,386 tons had been mined at
a grade of 0.37% U308, producing 17,471
lbs of U308, and 1.46% V205, producing 69,481
lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Yellow Jacket 15

LOCATION: sec. 3, T. 50 N., R. 18 W.
LCRM Part of sec. 3 ls in Calamity Mesa 7 1/2'.
QUAD Gateway 7 1/2'
MNZ Uranium, vanadium.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.).

Yellow Jacket Incline 1

LOCATION: sec. 3, T. 50 N., R. 18 W.
LCRM Part of sec. 3 ls in Calamity Mesa 7 1/2'.
QUAD Gateway 7 1/2'

MESA COUNTY

PROD As of 1971, 4,110 tons had been mined at a grade of 0.31% U308, producing 25,626 lbs of U308, and 1.34% V205, producing 110,433 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

QUAD Polar Mesa 15'
 PROD As of 1971, 101,285 tons had been mined at a grade of 0.25% U308, producing 510,449 lbs of U308, and 0.87% V205, producing 1,765,306 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Yellow Spot Group

LOCATION: sec. 12, T. 49 N., R. 20 W.
 LCRM Also sec. 7, T. 47 N., R. 19 W.
 QUAD Mount Waas 4 SE 7 1/2'
 MAP MOAB
 PROD No production.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Yellowbird 1

LOCATION: N1/2NW1/4 sec. 32, T. 50 N., R. 17 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Yellowbird 2

LOCATION: N1/2 sec. 32, T. 50 N., R. 17 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Yellowbird 3

LOCATION: NW1/4NW1/4 sec. 32, T. 50 N., R. 17 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Yellowbird 5

LOCATION: NE1/4NE1/4 sec. 31, T. 50 N., R. 17 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Yellowbird 6

LOCATION: SE1/4NE1/4 sec. 31, T. 50 N., R. 17 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Zee Lease Rajah 49

LOCATION: sec. 6, T. 50 N., R. 19 W.
 LCRM This deposit is listed by U.S. A.E.C. as also lying in sec. 36, T. 51 N., R. 20 W., and in sec. 30, 31, T. 51 N., R. 19 W.

MINERAL COUNTY

No reported occurrences of uranium have been noted in Mineral County. The potential for reserves to be located within the county is small.

The county is almost entirely underlain by Tertiary volcanic rocks of the San Juan Mountain Uplift. These rocks are related to the volcanic calderas in and near the county, including the Bachelor, Creede, La Garita, and San Luis Calderas.

There is little probability that uranium reserves will be found in the county. However, the type that is the most probable to be found is associated with sediments or tuff in and around caldera systems. This type of occurrence is important in Mexico, but more research needs to be done on them.

MOFFAT COUNTY

Uranium production from the county totals about 1,627,354 tons of ore, with an average grade of 0.13 percent U_3O_8 , making it one of the largest producing counties in the state. The potential is very good for more reserves to be found.

Moffat County is situated in the northwestern corner of Colorado. Much of the county is topographically relatively flat, with two major exceptions. The first are the Elkhead Mountains, which represent erosional remnants of a Tertiary volcanic field that once covered the northeastern part of the county. Secondly the Uinta Mountains, with their Precambrian core, extend into the northwestern corner from Utah. The Uinta Arch and the Axial Basin Anticline traverse the county diagonally from northwest to southeast, dividing it nearly in half. Although other formations ranging in age from Cambrian to Pliocene are exposed locally, the Eocene Wasatch Formation and the Miocene Browns Park Formation mantle the majority of the county. Those formations directly overlie a regional unconformity and are the hosts for most of the uranium deposits and occurrences within the county.

The most important uranium occurrences are found in the Maybell district in the Browns Park Formation, a tuffaceous sandstone of continental origin. The major deposits in this district lie on the flanks of the Lay syncline, a large, shallow, east-trending structure. The largest deposits are found in sandstone, but a conglomerate at the base of the Browns Park Formation is also anomalously radioactive throughout the area. Small faults common within the district appear to have localized the ore to some degree. Both oxidized and unoxidized rocks contain ore. In the oxidized sandstones the ore is yellow, primarily due to iron oxides. The most common uranium minerals of oxidized ore are meta-autunite and uranophane. The unoxidized ore is gray or bluish due to finely divided pyrite, and the dominant uranium minerals are coffinite and uraninite. The five largest producing mines of this district are the Rob Rollo Mine, the Marge Mine, the Gertrude Mine, the Sage-Buella Mine, and the Johnson Lease, in that order.

The five properties in the Maybell district produced 1,621,780 tons of ore from the Browns Park Formation. The remainder was reported from other properties in the Maybell district and from the Skull Creek district. Although the Maybell district was inactive for many years, a number of the old mine workings have been reactivated, and additional new development is now taking place. The ore is now being heap-leached, and about 200,000 lb of U_3O_8 ore is being produced yearly. The Skull Creek district is not presently active.

Areas with potential within the county will be those mantled by Browns Park Formation because of the size and features of the known deposits in that formation. Small occurrences are also reported from the Morrison Formation, Wasatch Formation, Entrada Sandstone, Curtis Formation, Carmel Formation, Hies Formation, Weber Formation, and Chinle Formation. Of those, the Wasatch Formation, because of its areal extent and numerous reported small occurrences, would appear to be the next most potential unit for uranium reserves. It should be noted, however, that large deposits are known within some of the other formations mentioned, but in other parts of the state and in Utah. The nearest and most important of those include deposits in the Morrison Formation, the Entrada Sandstone, and the Chinle Formation. These, plus several of the other formations containing occurrences are exposed along the scarp of the breached Skull Creek Anticline. This anticline, lying on the southeast edge of the Uinta Uplift, shows marked geochemical anomalies of several economic minerals, including uranium. The Skull Creek district lies on the southeast edge of the anticline and probably represents one area of concentrated mineralization. Based on the extensive geochemical anomaly and alteration of rock units, other such mineralized areas could exist along the flanks of the anticline or at depth. The area near the Tertiary intrusives in the northeast could also be favorable.

MOFFAT COUNTY

56- 1, Airborne Anomaly

LOCATION: sec. 13, T. 10 N., R. 101 W.

LCRM Directions to the deposit are given as follows:
"Go 0.5 mile west of Maybell on Highway 40 to Highway 318. Follow Highway 318 for 51.2 miles to where it leaves Irish Canyon. Turn right onto a dry lake bed and go 0.3 mile, take left fork and go 0.1 mile to right fork. Continue straight 1.5 miles following a gully through sandstone and shale hogbacks to fork. Go left 0.3 mile to the top of the hogback, continue for 0.8 mile. The anomaly is on the south side of a wash, 400 ft east of the road."

QUAD Irish Canyon 7 1/2'

MAP VERNAL

DVEL Underground mining was carried out.

BKG .03 mr/hr

RNG To .25 mr/hr

HOST The host, probably the Jurassic Morrison Formation, is a light to medium gray, very fine-grained, cross-bedded sandstone. A one-ft bed of gray, carbonaceous siltstone and coal overlies the host sandstone.

MNZ Uranium mineralization were visible, but no uranium minerals were noted. There is sparse ilmonite staining and some CaCO₃ streaks in the radioactive horizon.

DOI 1955

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

56- 2, Airborne Anomaly

LOCATION: NE1/4 sec. 2, T. 10 N., R. 100 W.

LCRM Directions to the deposit are given as follows:
"Go 0.5 mile west of Maybell on Highway 318. Follow Highway 318 for 51.1 miles to where it leaves Irish Canyon. Continue 6.3 miles, turn right and go 5.5 miles to creek crossing. Continue 1.4 mile and turn right. Go 2.4 miles and turn right. Go 3.4 miles to creek crossing. 0.6 mile beyond creek, turn right off the road. The anomaly is approximately 600 ft ahead on the top of the hill."

QUAD G Spring 7 1/2'

MAP VERNAL

DVEL No production had taken place as of 1955.

RNG To .08 mr/hr

HOST The anomalous readings were taken on a buff to brown, silty mudstone. The surface beds are mapped as being the Eocene Wasatch Formation, with silty, red and brown variation mudstones and clays, and small lenses of white to gray, fine- to medium-grained, poorly-consolidated sandstones.

MNZ Gypsum and ilmonite stain are present in the rock, with CaCO₃ cement. There were no visible uranium minerals.

DOI 1955

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

56- 9, Airborne Anomaly

LOCATION: sec. 12, T. 10 N., R. 103 W.

LCRM Directions to the deposit are given as follows:
"Go 0.5 mile west of Maybell, Colorado on US Hwy 40 to State Hwy 318. Follow Hwy 318 northwest 43.5 miles to State Hwy 10. Turn left and go 12.3 miles, turn right off of Hwy 10 and go 0.15 mile. Turn right and go 1.4 mile, turn left, go 0.3 mile, turn right off the road, go 0.3 mile north. The anomalous area is 600 ft east."

QUAD Lodore School 7 1/2'

MAP VERNAL

DVEL Underground mining was carried out.

BKG .01 mr/hr

RNG .03 to .1 mr/hr

HOST The host rock is the Miocene Browns Park Formation. It consists of white to buff sandstone and siltstone beds.

MNZ Uranium mineralization was detected, but there were no visible uranium minerals.

DOI 1954

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

56-10, Airborne Anomaly

LOCATION: sec. 12, T. 10 N., R. 103 W.

LCRM Directions to the deposit are given as follows:
"Go 0.5 mile west of Maybell, Colorado on US Hwy 40 to Colorado Hwy 318. Follow Hwy 318 northwest 43.5 miles to Hwy 10. Turn left and go 12.3 miles, turn right off of Hwy 10 and go 0.15 mile, turn right and go 1.5 mile to ranch buildings. The anomaly is on the southeast side of the ridge 1,500 ft S45°E of the ranch buildings."

QUAD Lodore School 7 1/2'

MAP VERNAL

DVEL Underground mining was carried out.

BKG .015 mr/hr

RNG .04 to .08 mr/hr

HOST The host is the Miocene Browns Park Formation. It consists of white to buff sandstone and siltstone beds with light gray shale beds. Brown to red, hard sandstone and quartzite pebbles and cobbles are abundant in the surface mantle.

MNZ Uranium mineralization was detected, but no uranium minerals were seen.

DOI 1955

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

56-11, Airborne Anomaly

LOCATION: NW1/4 sec. 27, T. 10 N., R. 102 W.

LCRM Directions to the deposit are given as follows:
"Go 0.5 mile west of Maybell, Colorado on US Hwy 40 to Colorado Hwy 318. Follow Hwy 318 northwest 43.5 miles to Hwy 10, turn left, go 6.0 miles, turn right off of Hwy 10. Go 0.9 mile to ranch buildings. Continue northwest on trail through barnyard. Go 1.7 mile. The anomalous area is 700 ft

MOFFAT COUNTY

QUAD N22°E from this point."
MAP Big Joe Basin 7 1/2'
VERNAL
DVEL Underground mining was carried out.
BKG .01-.025 mr/hr
RNG .02 to .10 mr/hr
HOST The anomalous radioactive chert bed ranges from a few in. to three ft thick and is exposed on the surface of a hogback ridge. The chert bed has been eroded in places, leaving angular pebbles and boulders on the surface. Light gray, fine-grained, thin-bedded siliceous sandstones overlie and underlie the chert bed. CaCO₃ cement and fracture fillings are found locally in these sandstones. Surface beds are mapped as Miocene Browns Park Formation.

MNZ Uranium mineralization was detected, but there were no visible uranium minerals.
DOI 1955
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

56-12, Airborne Anomaly

LOCATION: sec. 24, T. 9 N., R. 92 W.
LCRM Directions to the deposit are given as follows: "Start at Baggs, Wyoming and go 10 miles south following Colorado Highway 13 to Colorado Highway 3, turn right on Highway 3 and go 15.6 miles. Turn right off of Highway 3 onto a trail and go 0.6 mile west along the north side of a gully and a small reservoir. The center of the anomalous area is 300 ft north."
QUAD Craig NW 7 1/2'
MAP CRAIG
DVEL Underground mining was carried out.
BKG .02 mr/hr
RNG .03 to .08 mr/hr
HOST The surface beds in the vicinity are mapped as Eocene Wasatch Formation. No rock outcrops are visible in the anomalous area.

MNZ Uranium mineralization was detected, but no uranium minerals were seen.
DOI 1955
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

56-13, Airborne Anomaly

LOCATION: sec. 18, T. 7 N., R. 92 W.
LCRM This anomaly is approximately 2,000 ft northwest of 56-14, Airborne Anomaly. Directions to the deposit are given as follows: "Beginning at Craig, Colorado, go 12.5 miles west on U.S. Highway 40. Turn right off Highway 40 onto Moffat County Road #15 and go 0.8 mile, turn left, go 1.8 mile. The anomalous area is 600 ft east."
QUAD Lay SE 7 1/2'
MAP CRAIG
DVEL Some underground mining was carried out, and a shallow pit was dug.
BKG .015 mr/hr
RNG .025 to .07 mr/hr

HOST The host is the Miocene Browns Park Formation. The anomalous area is covered by a mantle of light gray, to buff, to brown, fine- to medium-grained sand with sparse to locally abundant limonitic staining. A friable buff colored conglomerate was observed nearby.

MNZ Uranium mineralization was found, although no minerals were megascopically visible.
DOI 1955
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

56-15, Airborne Anomaly

LOCATION: sec. 10, T. 6 N., R. 95 W.
LCRM This deposit is approximately 1,000 ft southeast of 56-16, Airborne Anomaly. Directions to the deposit are given as follows: "Begin at the Standard Gas Station in Maybell, Colorado. Go east on US Highway 40 for 2.6 miles. Turn right off Highway 40 onto a dirt road."
QUAD Citadel Plateau 15'
MAP VERNAL
DVEL Some underground mining was carried out, according to the U.S. Bur. of Mines.
BKG .01 mr/hr
RNG .03 to .25 mr/hr
HOST The host is the Miocene Browns Park Formation. The anomalous radioactivity occurs in a light gray siltstone bed with very thin streaks of limonite stain and what appears to be jarosite.

MNZ Uranium mineralization was found, although no minerals were megascopically identified.
DOI 1955
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

56-16, Airborne Anomaly

LOCATION: sec. 10, T. 6 N., R. 95 W.
LCRM The deposit is approximately 1,000 ft northwest of 56-15, Airborne Anomaly. Directions to the deposit are given as follows: "Begin at the Standard Gas Station in Maybell, Colorado. Go east on US Highway 40 for 2.6 miles. Turn right off Highway 40 onto a dirt road."
QUAD Citadel Plateau 15'
MAP VERNAL
DVEL There is a small pit.
BKG .01 to .02 mr/hr
RNG .04 to .25 mr/hr
HOST The host rock is reported to be undivided Paleozoics, bounded by the Miocene Browns Park Formation. The anomalous radioactivity occurs in a buff to medium brown, muddy siltstone bed with some CaCO₃ and limonite staining. It also occurs in a surface mantle of limestone pebbles and cobbles in a silt and fine sand matrix.

MNZ Uranium mineralization was found, but no uranium minerals were megascopically visible.
DOI 1955

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REF U.S. Bur. of Mines, 1977 (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

56-17, Airborne Anomaly

LOCATION: sec. 4, T. 5 N., R. 95 W.
 LCRM Directions to the deposit are given as follows: "Start at Maybell, Colorado and go 1.8 mile east on US Highway 40. Turn right off Highway 40 onto Moffat County Road 57 and go 5.3 miles to Moffat County Road 32. Turn left and go 1.5 miles."
 QUAD Citadel Plateau 15'
 MAP VERNAL
 BKG .015 mr/hr
 RNG .02 to .17 mr/hr
 HOST The host is the Miocene Browns Park Formation. It is a series of sandstones, siltstones and claystones, with the radioactivity occurring in a very light gray siltstone bed. Some limonite staining is present.
 STRC Two small faults cut the siltstone in the area of highest radioactivity. They strike N30°W and dip 65°SW.
 MNZ There are no megascopically visible uranium minerals.
 DOI 1955
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

57-10, Airborne Anomaly

LOCATION: SW1/4 sec. 24, T. 12 N., R. 102 W.
 LCRM Directions to the deposit are given as follows: "Beginning at the coal tipple in south Rock Springs, Wyoming, go south on old surfaced State Highway 430 for 54.7 miles. Turn west for 1.7 miles, then turn south for 0.7 mile. Then turn west again for 0.5 mile. At this point you will be at the 1/4 corner between sec. 24 and 19. Then continue west for 0.8 mile. The anomaly lies about 1/4 mile to the southwest."
 QUAD Sparks 7 1/2'
 MAP VERNAL
 DVLE Surface mining was carried out.
 BKG .02 mr/hr
 RNG .1 to .30 mr/hr
 HOST The host rock is mapped as the Wasatch Formation but may be the Tipton Tongue of the Green River Formation, both of Eocene age. The radioactivity occurs in two, 250-ft square surface remnants, comprised of very hard, iron-stained, buff, fine-grained sandstone. The radioactivity is located in a dark, blue-black mineral band in the upper 1/4 in. of the sandstone.
 STRC The anomalous area lies on the west flank of the small Haymower dome, which is a slightly elongated anticline trending north-south. The beds dip greatly to the west and strike approximately N10°E. The Uinta overthrust belt lies 3 to 4 miles south of this area.
 MNZ Uranium mineralization was detected, but no visible uranium minerals or fluorescence were observed in the samples examined.
 DOI 1956

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Agnes No. 7 Claims

LOCATION: sec. 35, T. 7 N., R. 94 W.
 LCRM Directions to the deposit are given as follows: "From Maybell, Colorado go 10.0 miles east on Highway US 40. Radioactive anomaly is 3,700 ft due south of highway on south side of brown-colored hill."
 QUAD Lay 7 1/2'
 DVLE Some underground mining was carried out. Four 10 ft deep pits were dug and 10 holes were drilled in an area 100 ft by 100 ft.
 BKG .02 mr/hr
 RNG .05 to .12 mr/hr
 HOST The radioactive zone is about 100 ft long and lies in the Miocene Browns Park Formation. The mineralization occurs in the basal conglomerate in a medium- to coarse-grained sandstone layer two ft thick. The highest radioactivity is in asphaltic and limonitic stained sandstone concretions. The entire hill in which the radioactive anomaly occurs shows a uniform brown limonitic color that is not characteristic of the area.
 STRC A northwest trending fault lies 150 ft south of the anomaly.
 MNZ There was some uranium mineralization detected, but no visible uranium minerals. There is abundant limonite staining in the mineralized zone and there is some petroliferous residue in some of the concretions.
 DOI 1955
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

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LOCATION: sec. 23, T. 9 N., R. 93 W.
 QUAD Iron Springs 7 1/2'
 MAP CRAIG
 DVLE Some underground mining took place.
 MNZ Uranium mineralization was detected.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

B17- 15, Airborne Anomaly

LOCATION: sec. 19, T. 12 N., R. 94 W.
 LCRM Directions to the deposit are given as follows: "From stoplight in Baggs, Wyoming, go south on Highway 789 for 4.9 miles; turn right and go 30.0 miles on Moffat County Road 4; turn right and continue on Route 4 for 0.7 miles; turn right and go 3.2 miles; turn right and to 5.3 miles; turn right and go 0.06 miles; turn right and go 2.1 miles, turn left and go 1.2 miles; anomaly lies 1/2 mile to the west."
 QUAD Bighole Butte 7 1/2'
 MAP CRAIG
 DVLE No exploration or production had taken place as of August 1954.
 BKG .035 mr/hr
 RNG .06 to .07 mr/hr

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HOST The sandstone bed containing the slightly abnormal radioactivity is eight ft thick and lies in the Tertiary Wasatch Formation. The sandstone is fine-grained, buff colored, poorly-consolidated, and is overlain and underlain by shale.

STRC Strata in this area have a gentle regional dip to the north.

MNZ No visible mineralization was observed.

DOI 1954

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17- 89, Airborne Anomaly

LOCATION: sec. 14, T. 6 N., R. 94 W.

LCRM Directions to the deposit are given as follows: "Begin log at Standard Station in Maybell, Colorado. Go east on US Highway 40 for 8.2 miles and turn right on Moffat County Road 53; go 4.0 miles and turn left on Moffat County Road 118. Go 2.5 miles, turn left on Moffat County Road 17; go 0.7 mile; anomaly lies 0.7 mile to left across main north-south drainage in a small northwest-southwest tributary drainage."

QUAD Juniper Hot Springs 7 1/2'

MAP CRAIG

DVEL An underground operation was located at this site.

BKG .02 mr/hr

RNG .10 to .15 mr/hr

HOST The host is the Miocene Browns Park Formation. The radioactive beds are highly cross-bedded, lemon-yellow, fine- to coarse-grained, poorly-consolidated sandstones, with thin irregular stringers cemented by CaCO₃. Two to six in. layers of iron-cemented and stained sandstone with coatings and finely disseminated flakes of carbon were also noted. Interbedded with the sandstone are thin, irregular lenses of conglomerates of varied size and composition.

MNZ Uranium minerals were detected but none were visible.

DOI 1954

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-' 90, Airborne Anomaly

LOCATION: sec. 14, T. 6 N., R. 94 W.

LCRM B17-91, Airborne Anomaly lies about 1/4 mile south of B17-90, Airborne Anomaly, in sec. 15. Directions to the deposits are given as follows: "Begin log at Maybell, Colorado at the Standard Gas Station and Cafe. Go east on US Highway 40 for 8.2 miles, turn right on Moffat County Road 53; go 4.0 miles, take left fork on Moffat County Road 118; go 0.7 mile turn left on trail to north; go 0.6 mile. B17-90, Airborne Anomaly lies 0.5 mile to right on top of the next ridge. B17-91, Airborne Anomaly lies about 1/4 mile south of B17-90, Airborne Anomaly, closer to the point of the ridge."

QUAD Juniper Hot Springs 7 1/2'

MAP CRAIG

DVEL An underground operation was located at this site.

BKG .01 mr/hr

RNG .025 to .4 mr/hr

HOST The host is Miocene Browns Park Formation. The bed showing maximum radioactivity is ten in. thick and a reddish-brown, fine- to medium-grained, iron-stained ferruginous cemented, calcareous sandstone containing thin layers, and finely disseminated, flakes of carbon (hydrocarbon?). This bed is underlain by lemon-yellow, fine-grained, poorly-cemented, cross-bedded sandstone showing some abnormal radioactivity.

MNZ Uranium mineralization was detected but no uranium minerals were visible.

DOI 1954

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17- 93, Airborne Anomaly

LOCATION: sec. 10, T. 6 N., R. 94 W.

LCRM This deposit lies 300 yds north of B17-94, Airborne Anomaly. Directions to the deposit are given as follows: "Begin log at Standard Gas Stations and Cafe in Maybell, Colorado. Go east on US Highway 40 for 8.3 miles, then turn right on Moffat County Road 53; go 4.0 miles, take left fork on Moffat County Road 118; go 0.7 mile, turn left on trail to north; go 0.6 mile, B17-94 Anomaly lies 30 yds to right; go 0.1 mile; B17-93 Anomaly lies 20 yds to right in small drainage."

QUAD Juniper Hot Springs 7 1/2'

MAP CRAIG

DVEL Underground mining took place.

BKG .02 mr/hr

RNG .025 to .4 mr/hr

HOST The host is the Miocene Browns Park Formation. The maximum radioactivity occurs in a gray to yellow, fine- to coarse-grained, poorly-consolidated sandstone. Alteration bands of gray and yellow color, and minor amounts of limonite staining were noted. A three-ft sandstone strata underlying the radioactive horizon exhibits black staining and may contain minor amounts of asphaltic material or hydrocarbon minerals.

MNZ Uranium mineralization was found in the form of small grains of green to yellow unidentified uranium minerals disseminated through the sandstone.

DOI 1954

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17- 94, Airborne Anomaly

LOCATION: sec. 15, T. 6 N., R. 94 W.

LCRM This deposit lies 300 yds south of Airborne Anomaly B17-93. Directions to the deposit are given as follows: "Begin log at Standard Gas Station and Cafe at Maybell, Colorado. Go east on US Highway 40 for 8.2 miles, then turn right on Moffat County Road 53; to 4.0 miles and take left fork on Moffat

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County Road 118; go 0.7 mile and turn left on trail to north; go 0.6 mile; anomaly lies 30 yds to right in small tributary drainage."

QUAD Juniper Hot Springs 7 1/2'
 MAP CRAIG
 DVEL Underground operations were located on this site.
 BKG .02 mr/hr
 RNG .03 to 4.5 mr/hr
 HOST The host is the Miocene Browns Park Formation. The beds are lemon-yellow, fine- to coarse-grained, cross-bedded, poorly-consolidated sandstone lenses with occasional thin, iron-stained layers. These sandstone lenses are interbedded with lenses of reddish-brown to gray, poorly-consolidated conglomerate. The reddish-brown conglomerate lenses are iron-cemented and have thin layers of carbon in them. All of the conglomerate lenses are of varying size and composition.
 MNZ A bright green (copper silicate?) mineral is finely disseminated through a two-ft thick gray sandstone bed. Small black grains of carbon (asphaltic material) are abundant in the sandstone bed just below the horizon of maximum radioactivity. No uranium minerals are visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-101, Airborne Anomaly

LOCATION: sec. 16, T. 7 N., R. 94 W.
 LCRM Directions to the deposit are given as follows: "Begin log at junction of Moffat County Road 53 with US Highway 40 about 8 miles east of Maybell, Colorado. Go west on US Highway 40 for 0.1 mile and turn right through fence gate; go 0.7 mile and turn left through fence; go 0.5 mile and take right fork through fence; go 1.4 miles; anomaly lies on round hill 100 ft to right."
 QUAD Lay 7 1/2'
 MAP CRAIG
 DVEL Underground mining was carried out.
 BKG .015 mr/hr
 RNG To .07 mr/hr
 HOST The host is the Miocene Browns Park Formation. The anomalous radioactivity is found in a white, fine- to coarse-grained, hard, calcium carbonate-cemented, slightly cross-bedded, iron-stained sandstone.
 MNZ Uranium mineralization was detected but no uranium minerals were visible. Small amounts of "water-worn, black minerals" were noted, and these appeared to be thorium or rare-earth minerals.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-102, Airborne Anomaly

LOCATION: sec. 16, T. 7 N., R. 93 W.

LCRM Directions to the deposit are given as follows: "Begin log at Texaco Station at Lay, Colorado. Go east on US Highway 40 for three miles. Turn left through gate 100 ft east of Chevron sign; go 0.5 mile north to tar paper shack; go north to east-west fence; follow fence to northwest around base of hill to stock dam about 0.7 mile; anomaly lies at east end of stock dam.
 QUAD Lay SE 7 1/2'
 MAP CRAIG
 DVEL Underground mining was carried out.
 BKG .025 mr/hr
 RNG .08 to .12 mr/hr
 HOST The host is the Miocene Browns Park Formation. The bed showing maximum radioactivity is a gray to reddish-brown, fine-grained, well-cemented sandstone, with thin coatings of carbon and calcium carbonate on the joint surfaces. This bed is overlain and underlain by several ft of alternating blue-gray to yellow, fine- to medium-grained, poorly-cemented, calcareous beds of sandstone.
 MNZ Uranium mineralization was detected, but no uranium minerals were visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-103, Airborne Anomaly

LOCATION: sec. 34, T. 9 N., R. 93 W.
 LCRM Directions to the deposit are given as follows: "Begin log at Texaco Station at Lay, Colorado. Go east on US Highway 40 for 0.5 mile and turn left on Moffat County Road 17. Go 10 miles and turn left on Moffat County Road 7; go 3.5 miles turn right up faint trail on west side of northeast-southwest trending drainage. Go 0.5 mile; B17-103, Airborne Anomaly lies 20 yds to the right."
 QUAD Iron Springs 7 1/2'
 MAP CRAIG
 DVEL Underground operations were located at this site.
 BKG .02 mr/hr
 RNG .03 to .22 mr/hr
 HOST The host is reported to be the Tertiary Wasatch Formation. The maximum radioactivity occurs in a reddish-brown, poorly-consolidated, limonite-stained conglomerate lens of mixed composition. This lens is interbedded with lenses of iron-stained, poorly-bedded, poorly-consolidated, fine- to coarse-grained sandstone.
 MNZ Uranium mineralization was found, but no uranium minerals were visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977 (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-104, Airborne Anomaly

LOCATION: sec. 33, T. 9 N., R. 93 W.
 LCRM Directions to the deposit are given as follows: "Begin log at Texaco Station at Lay, Colorado. Go east on US Highway 40 for 0.5 mile and

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turn left on Moffat County Road 17; go 10 miles and turn left on Moffat County Road 7; go 3.5 miles turn right on faint trail on west side of northeast-southwest drainage; go 0.3 mile; anomaly lies 60 yds to right across drainage."

QUAD Iron Springs 7 1/2'
 MAP CRAIG
 DVEL Surface and underground workings are present.
 BKG .02 mr/hr
 RNG .03 to .08 mr/hr
 HOST The host is mapped as the Tertiary Wasatch Formation. The radioactive beds are lenses of brown, limonite stained, poorly-consolidated arkosic conglomerate, interbedded with fine- to coarse-grained, limonite-stained, cross-bedded, poorly-cemented lenses and beds of sandstone.
 MNZ Uranium mineralization was detected, but no uranium minerals were visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977 (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-105, Airborne Anomaly

LOCATION: sec. 33, T. 9 N., R. 93 W.
 LCRM Directions to the deposit are given as follows: "Begin log at Texaco station in Lay, Colorado. Go east on U.S. Highway 40 for 0.5 mile and turn left on Moffat County road 17; go 9.9 miles and turn left on Moffat County road 7; go 3.5 miles, turn right off county road up faint trail on west side of north-south drainage; go 0.1 mile; anomaly lies 20 yds to right across drainage."
 QUAD Iron Springs 7 1/2'
 MAP CRAIG
 BKG .02 mr/hr
 RNG .07 to .12 mr/hr
 HOST The host is mapped as being the Tertiary Wasatch Formation. The maximum radiation is found in a buff to reddish-brown, poorly-consolidated, limonite-stained, arkosic conglomerate.
 MNZ Uranium mineralization was detected, but no uranium minerals were visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-106, Airborne Anomaly

LOCATION: sec. 34, T. 9 N., R. 93 W.
 LCRM This anomaly lies about 1/4 mile southwest of B17-107, Airborne Anomaly and about 3/4 miles south of B17-108, Airborne Anomaly. Directions to the deposit are given as follows: "Begin log at Texaco station in Lay, Colorado. Go east on U.S. Highway 40 for 0.5 mile, turn left on Moffat County road 17; go 9.9 miles and turn left on Moffat County road 7; go 5.3 miles, turn right through fence gate at tar paper shack; go 1.3 miles to edge of wheat field, keep to south edge of field for 0.1 mile, turn right on trail down small southeast trending drainage;

go 0.2 miles; anomaly lies 20 yds to left on point of north-south spur."

QUAD Iron Springs 7 1/2'
 MAP CRAIG
 BKG .02 mr/hr
 RNG .04 to .15 mr/hr
 HOST The host is mapped as the Tertiary Wasatch Formation. The anomaly occurs in interbedded lenses of yellow to brown, fine- to medium-grained, silty, moderately gray, silty arkosic conglomerate. These lenses are underlain by flat lying, light brown, silty, medium-grained, well-cemented sandstone beds containing thin lenses of gray, medium-grained, carbonaceous and micaceous sands.
 MNZ Uranium mineralization was detected, but no uranium minerals were visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-107, Airborne Anomaly

LOCATION: sec. 34, T. 9 N., R. 93 W.
 LCRM This location lies about 3/4 mile southeast of B17-108, Airborne Anomaly, and about 1/4 mile northeast of B17-106, Airborne Anomaly. Directions to the deposit are given as follows: "Begin log at Texaco station in Lay, Colorado. Go east on U.S. Highway 40 for 0.5 mile, turn left on Moffat County road 17; go 9.9 miles and turn left on Moffat County road 7; go 5.3 miles, turn right through fence gate at tar paper shack; go 1.3 miles to edge of wheat field; keep to south edge of field for 0.1 mile, turn right on trail down small drainage; go 0.2 mile; Anomaly 106 lies 20 yds to left; Anomaly 107 lies 100 yds northeast on another small spur."
 QUAD Iron Springs 7 1/2'
 MAP CRAIG
 BKG .02 mr/hr
 RNG .04 to .12 mr/hr
 HOST The host is the Tertiary Wasatch Formation. The anomaly occurs in interbedded lenses of yellow to brown, fine- to medium-grained, silty, moderately well-cemented sandstone and buff to gray, silty arkosic conglomerate.
 MNZ Uranium mineralization was detected, but no uranium minerals were visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-108, Airborne Anomaly

LOCATION: sec. 27, T. 9 N., R. 93 W.
 LCRM B17-106 and B17-107, Airborne Anomaly, lie to the southeast of this anomaly. Directions to the deposit are given as follows: "Begin log at Texaco Station in Lay, Colorado. Go east on US Highway 40 for 0.5 mile; turn left on Moffat County Road 17; to 9.9 miles, turn left on Moffat County Road 7; go 5.3 miles, turn right through fence gate at

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tar paper shack; go 1.3 miles to edge of wheat field; anomaly lies 0.2 mile to northeast on small knoll in center of wheat field."

QUAD Iron Springs 7 1/2'
 MAP CRAIG
 BKG .02 mr/hr
 RNG .04 to .05 mr/hr
 HOST The host is the Tertiary Wasatch Formation. The maximum radioactivity occurs in a gray to buff, silty, sandy, arkosic conglomerate.
 MNZ No uranium minerals are visible.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-109, Airborne Anomaly

LOCATION: sec. 32, T. 9 N., R. 94 W.

LCRM Directions to the deposit are given as follows: "Begin log at Victory Hotel in Maybell, Colorado. Go north on Moffat County Road 19 for 13 miles, take right fork on Moffat County Road 6; go 2.8 miles, take right fork on Moffat County Road 8. Go 2.5 miles, turn left a fence gate at corner of wheat field; go 0.3 mile; anomaly lies on knoll to left between wheat field and road."

QUAD Adobe Springs 7 1/2'

MAP CRAIG
 DVEL Surface workings are present.

BKG .015 mr/hr
 RNG .03 to .045 mr/hr

HOST The host is the Tertiary Wasatch Formation. The abnormal radioactivity occurs in a weathered, iron-stained, brown to gray, poorly-sorted, fine- to coarse-grained sand.

MNZ Uranium mineralization was detected, but no uranium minerals were visible.

DOI 1954

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-110, Airborne Anomaly

LOCATION: sec. 23, T. 9 N., R. 94 W.

LCRM Directions to the deposit are given as follows: "Begin log at Victory Hotel in Maybell, Colorado. Go north on Moffat County Road 19 for 13.0 miles and take right fork on Moffat County Road 6; go 2.8 miles, take right fork on Moffat County Road 8; go 6.2 miles, turn left on Moffat County Road 11; go 2.0 miles across drainage. Go 0.1 mile, take right fork; go 0.4 mile, take faint trail to right; go 0.1 mile, cross small drainage; anomaly lies on low ridge straight ahead."

QUAD Adobe Spring 7 1/2'

MAP CRAIG

BKG .015 mr/hr
 RNG .025 to .045 mr/hr

HOST The host is mapped as the Tertiary Wasatch Formation. The anomaly occurs in a brown, poorly-consolidated, slightly arkosic, fine- to coarse-grained sandstone.

MNZ No uranium minerals were visible.

DOI 1954

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-111, Airborne Anomaly

LOCATION: sec. 10, T. 9 N., R. 93 W.

LCRM Directions to deposit are given as follows: "Begin log at Texaco Station at Lay, Colorado. Go east on US Highway 40 for 0.5 mile; turn left on Moffat County Road 17; go 10.0 miles, turn left on Moffat County Road 7; go 10.0 miles to settlement of Great Divide, turn right at Conoco gas pump; go 3.2 miles turn right off main road; go 1.0 mile take right fork and follow main road; go 1.4 mile take right fork; go 0.6 mile, turn right and follow intermittent trail along north-south ridge; go 0.6 mile; anomaly lies 50 ft to west of dim trail just off crest of ridge."

QUAD Great Divide 7 1/2' or Iron Springs 7 1/2'
 MAP CRAIG

DVEL Surface mining was carried out.

BKG .02 mr/hr

RNG To .07 mr/hr

HOST The host is mapped as the Tertiary Wasatch Formation. This anomaly occurs in a brown, weathered, slightly arkosic, poorly-sorted sand.

MNZ Uranium mineralization was detected, but no uranium minerals were identified.

DOI 1954

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-112, Airborne Anomaly

LOCATION: sec. 3, T. 9 N., R. 93 W.

LCRM B17-113, Airborne Anomaly lies approximately 1/4 mile north of this anomaly, while B17-114, Airborne Anomaly lies approximately 1/4 mile south of this anomaly. Directions to the deposit are given as follows: "Begin log at Texaco Station in Lay, Colorado; go east on US Highway 40; 0.5 mile; turn left on Moffat County Road 17; go 10.0 miles, turn left on Moffat County Road 7; go 10.0 miles to Great Divide settlement; turn right at Conoco gas pump; go 1.2 miles to drainage with large drain pipe under road; anomaly lies 3/4 mile to the right on a north-south trending ridge."

QUAD Great Divide 7 1/2'

MAP CRAIG

DVEL Surface and underground mining was carried out.

BKG .02 mr/hr

RNG .03 to .05 mr/hr

HOST The host is mapped as the Tertiary Wasatch Formation. The anomaly occurs in a weathered, brown, moderately well-cemented, arkosic conglomerate.

MNZ Uranium mineralization was detected, but no uranium minerals were found.

DOI 1954

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

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B17-113, Airborne Anomaly

LOCATION: sec. 3, T. 9 N., R. 93 W.

LCRM B17-112, Airborne Anomaly lies approximately 1/4 mile south of this anomaly and B17-114, Airborne Anomaly lies approximately 1/2 mile south of this anomaly. Directions to the deposit are given as follows: "Begin log at Texaco station at Lay, Colorado; go east on U.S. Highway 40, 0.5 mile and turn left on Moffat County road 17. Go 10 miles and turn left on Moffat County road 7; go 10.0 miles to the Great Divide Settlement and turn right at Conoco gas pump; go 1.2 miles to drainage with large drain pipe under road. Anomaly lies 1/2 mile to right on north-south trending ridge."

Great Divide 7 1/2'

QUAD CRAIG

MAP Several small holes have been dug.

DVEL .02 mr/hr

BKG .03 to .04 mr/hr

RNG The host is mapped as the Tertiary Wasatch Formation. The abnormal radioactivity occurs in a weathered, brown, silty, fine- to coarse-grained, moderately well-cemented sandstone. This bed is overlain by a thin bed of arkosic conglomerate.

HOST No uranium minerals were visible.

MNZ 1954

DOI U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-114, Airborne Anomaly

LOCATION: sec. 3, T. 9 N., R. 93 W.

LCRM B17-113, Airborne Anomaly lies approximately 1/2 mile north of the anomaly and B17-112, Airborne Anomaly lies approximately 1/4 mile north. Directions to the deposit are given as follows: "Begin log at Lay, Colorado at Texaco station; go east on U.S. Highway 40 for 0.5 mile; turn left on Moffat County Road No. 17; go 10.0 miles, turn left on Moffat County road No. 7; Go 10.0 miles to Great Divide Settlement; turn right at Conoco gas pump. Go 1.2 miles to drainage with large drain pipe under road. Anomaly lies one mile to right on north-south trending ridge."

Great Divide 7 1/2'

QUAD CRAIG

MAP .02 mr/hr

DVEL .025 to .23 mr/hr

BKG The host is reported to be the Tertiary Wasatch Formation. The abnormal radioactivity occurs in a weathered, brown, intensely iron-stained, moderately well-cemented, arkosic conglomerate.

HOST Uranium mineralization was found, but no uranium minerals were visible.

MNZ 1954

DOI U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-115, Airborne Anomaly

LOCATION: sec. 14, T. 9 N., R. 93 W.

LCRM Directions to the deposit are given as follows: "Begin log at Texaco Station at Lay, Colorado. Go east on US Highway 40 for 0.5 mile and turn left on Moffat County Road 17; go 10 miles and turn left on Moffat County Road 7; continue to junction of Moffat County Roads 7 and 6. Return 0.1 mile south of this junction; take road to east; go 0.7 mile, take right fork; go 0.7 mile; make left turn; go 1.0 mile to road angling to right. Anomaly lies 100 ft to left on a low, east-west ridge."

QUAD Iron Springs 7 1/2'

MAP CRAIG

DVEL Surface and underground workings are present. A small three ft pit was dug.

BKG .02 mr/hr

RNG .04 to .18 mr/hr

HOST The host is mapped as the Tertiary Wasatch Formation. The maximum radioactivity occurs in a brown to yellow, iron-stained, poorly-cemented, arkosic conglomerate.

MNZ Uranium mineralization was found, but no uranium minerals were visible.

DOI 1954

REF U.S. Bur. of Mines, 1977 (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-117, Airborne Anomaly

LOCATION: sec. 24, T. 9 N., R. 93 W.

LCRM Directions to the deposit are given as follows: "Begin log at Lay, Colorado at Texaco Station. Go east on US Highway 40 for 0.5 mile and turn on Moffat County Road 17. Go 10.0 miles and turn left on Moffat County Road 7; go 0.8 mile; take road angling to right just north of farm house; go 2.4 miles, take left fork; go 2.0 miles, take left fork; go 0.8 mile, take trail to left toward stock dam; follow trail up drainage for 0.3 miles to major fork in drainage; go 0.1 mile. Anomaly lies to left on point of ridge in fork of drainage."

QUAD Iron Springs 7 1/2'

MAP CRAIG

DVEL Surface and underground workings are present.

BKG .015 mr/hr

RNG To .035 mr/hr

HOST The host is mapped as Tertiary Wasatch Formation. The abnormal radioactivity occurs in a 20 ft thickness of yellow-brown to brown, poorly-cemented, silty, fine-grained sandstone.

MNZ Uranium mineralization was found, but no uranium minerals are visible. Small amounts of mica and abundant limonite were noted.

DOI 1954

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-118, Airborne Anomaly

LOCATION: sec. 32, T. 10 N., R. 93 W.

LCRM Directions to the deposit are given as follows: "Begin log at Lay, Colorado at Texaco Station. Go east on US Highway 40 for 0.5 mile and

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turn left on Moffat County Road 17. Go 10.0 miles, turn left on Moffat County Road 7; go 11.1 miles, take left fork at bridge; go 1.9 miles, turn left at cattle guard; go 0.5 mile; turn sharp left; go 0.6 mile to corral; go 0.2 mile to end of road; turn up dim trail on north-south drainage bank; go to fence. Anomaly lies 1/2 mile southeast on top of hill."

QUAD Great Divide 7 1/2'
 MAP CRAIG
 DVEL Surface and underground workings are present.
 BKG .02 mr/hr
 RNG .03 to .07 mr/hr
 HOST The host is mapped as being the Tertiary Wasatch Formation. The anomaly occurs in a moderately well-consolidated, slightly arkosic, buff to brown conglomerate.
 MNZ Uranium mineralization was detected, but no uranium minerals were visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

miles, turn left on Moffat County road 7; go 11.1 miles through the settlement of Great Divide and take left fork at the bridge and go 1.9 miles; turn left at cattle guard; go 0.3 mile, make sharp left turn; go 0.6 mile to corral at fence gate; go 0.2 mile to end of road; anomaly lies 300 ft southeast on east side of north-south drainage."

QUAD Great Divide 7 1/2'
 MAP CRAIG
 BKG .02 mr/hr
 RNG .03 to .07 mr/hr
 HOST The host is mapped as the Tertiary Wasatch Formation. The anomaly occurs in a yellow, buff to brown, fine- to coarse-grained, cross-bedded, moderately well-cemented, limonite-stained, slightly arkosic sandstone. Some thin lenses of conglomerate are present.
 MNZ Uranium mineralization was detected, but no uranium minerals were visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-119, Airborne Anomaly

LOCATION: sec. 32, T. 10 N., R. 93 W.

LCRM This anomaly lies approximately 1/4 mile north of B17-120, Airborne Anomaly. Directions to the deposit are given as follows: "Begin log at Texaco station in Lay, Colorado. Go east on U.S. Highway 40 for 0.5 miles and turn left on Moffat County road No. 17; Go 10.0 miles, turn left on Moffat County road No. 7; Go 11.1 miles through settlement of Great Divide and take left fork at bridge; go 1.9 miles, turn left at cattle guard; go 0.3 mile, make sharp left turn; go 0.6 mile to corral at fence gate; go 0.3 mile to road end; Anomaly lies 175 ft to southeast on east bank of north-south drainage."

QUAD Great Divide 7 1/2'
 MAP CRAIG
 BKG .02 mr/hr
 RNG .03 to .07 mr/hr
 HOST The host is mapped as the Tertiary Wasatch Formation. The anomaly occurs in a yellow to buff to brown, fine- to coarse-grained, cross-bedded, moderately well-cemented, limonite-stained, slightly arkosic sandstone. Some thin lenses of conglomerate are present.
 MNZ Uranium mineralization was detected, but no uranium minerals were visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-120, Airborne Anomaly

LOCATION: sec. 32, T. 10 N., R. 93 W.

LCRM This anomaly lies approximately 1/4 mile south of B17-119, Airborne Anomaly. Directions to the deposit are given as follows: "Begin log at Texaco station at Lay, Colorado; go east on U.S. Highway 40 for 0.5 mile; turn left on Moffat County road 17; go 10.0

B17-121, Airborne Anomaly

LOCATION: sec. 32, T. 10 N., R. 93 W.

LCRM Directions to the deposit are given as follows: "Begin log at Lay, Colorado at Texaco station. Go east on U.S. Highway 40 for 0.5 mile and turn left on Moffat County road 17. Go 10 miles and turn left on Moffat County road 7; go 11.1 miles through small settlement of Great Divide and take left fork at small bridge; go 1.9 miles, turn left at cattle guard; go 0.2 mile, cross drainage; go 0.3 mile and make sharp left turn; go 0.6 mile to corral at fence gate; go 0.2 mile to road's end. Anomaly lies 30 yds to right on small hill."

QUAD Great Divide 7 1/2'
 MAP CRAIG
 BKG .02 mr/hr
 RNG .04 to .07 mr/hr
 HOST The host is mapped as the Tertiary Wasatch Formation. The main anomaly occurs in a light buff to brown, weathered sandstone containing arkosic and quartzitic pebbles. Considerable limonite and hematite is present as products of weathering. Maximum size of the contained pebbles is one half inch in diameter. The thickness of the anomalous bed is 10 ft.
 MNZ Uranium mineralization was detected, but no uranium minerals were visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-122, Airborne Anomaly

LOCATION: sec. 29, T. 10 N., R. 93 W.

LCRM Directions to the deposit are given as follows: "Begin log at Texaco Station at Lay, Colorado; go east on US Highway 40 for 0.5 mile; turn left on Moffat County Road 17; go 10.0 miles,

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turn left on Moffat County Road 7; to 11.1 miles through settlement of Great Divide and take left fork at bridge. Go 1.9 miles, turn left at cattle guard; go 0.5 miles, make sharp left turn; go 0.8 mile to end of road. Anomaly lies 150 yds to left on east side of small tributary with northeast-southwest drainage."

QUAD Great Divide 7 1/2'
 MAP CRAIG
 DVEL Surface and underground workings are present.
 BKG .02 mr/hr
 RNG .03 to .07 mr/hr
 HOST The anomaly occurs in what appears to be a stream deposited sand. It could possibly be a part of the Tertiary Wasatch Formation. The sand is light brown, unconsolidated, alluvial and micaceous. A considerable quantity of heavy, black mineral grains was noted. The sand is about 20 ft thick.
 MNZ Uranium mineralization was detected, but no minerals were visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-123, Airborne Anomaly

LOCATION: sec. 32, T. 10 N., R. 93 W.

LCRM Directions to the deposit are given as follows: "Begin log at Texaco station in Lay, Colorado. Go east 0.5 mile, turn left off of U.S. Highway 40 on Moffat County road 17; go 10 miles, turn left on Moffat County road No. 7; go 11.1 miles through settlement of Great Divide; take left fork at bridge; go 1.9 miles, turn left at cattle guard; go 0.2 miles across drainage; go 0.3 mile, take sharp left turn; go 0.6 mile to corral and fence gate; go 0.2 mile to north-south trending drainage; turn right up west side of drainage; go 0.4 mile to fence, continue 0.3 mile; anomaly lies 150 ft to right on low ridge."

QUAD Great Divide 7 1/2'
 MAP CRAIG
 BKG .02 mr/hr
 RNG .03 to .045 mr/hr
 HOST The host is the Tertiary Wasatch Formation. Abnormal radiation occurs in a yellow-brown, fine- to coarse-grained, moderately well-cemented, limonite-stained sandstone.
 MNZ No uranium mineralization was visible.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-124, Airborne Anomaly

LOCATION: sec. 19, T. 9 N., R. 93 W.

LCRM Directions to the deposit are given as follows: "Begin log at Texaco station at Lay, Colorado; go east on U.S. Highway 40 for 0.5 mile and turn left on Moffat County road 17; Go 10.0 miles and turn left on Moffat County road 7; go 4.5 miles, turn left on Moffat County road 6; go 2.4 miles; turn left at row of trees; go 1.2 miles, turn left at

end of trees parallel to fence; go 0.1 mile, turn right through fence in front of farm house; anomaly lies on point of low ridge on east side of north-south trending drainage."

QUAD Adobe Springs 7 1/2' or Iron Springs 7 1/2'
 MAP CRAIG
 BKG .015 mr/hr
 RNG .05 to .08 mr/hr
 HOST The host is mapped as the Tertiary Wasatch Formation. The anomaly occurs in a poorly-consolidated, brown, poorly-sorted, slightly arkosic sandstone.
 MNZ Uranium mineralization was detected but no uranium minerals were visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-125, Airborne Anomaly

LOCATION: sec. 26, T. 11 N., R. 93 W.

LCRM Directions to the deposit are given as follows: "Begin log at Texaco station in Lay, Colorado. Go east on U.S. Highway 40 for 0.5 miles, turn left on Moffat County road 17. Go 10.0 miles, turn left on Moffat County road 7; go 11.0 miles through settlement of Great Divide, turn right on Moffat County road 9; go 8 miles on main road; anomaly lies 800 ft to left on top of low ridge."

QUAD Thornburgh Gulch 7 1/2'
 MAP CRAIG
 BKG .015 mr/hr
 RNG .045 to .06 mr/hr
 HOST The host is mapped as the Tertiary Wasatch Formation. The main anomaly occurs in a thin surface mantle of buff to light brown, slightly arkosic gravel. This mantle covers beds of white to red to brown, iron-stained, fine-grained sandstone. Radiometric readings increase with depth.
 MNZ Uranium mineralization was detected, but no uranium minerals are visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-126, Airborne Anomaly

LOCATION: sec. 9, T. 10 N., R. 94 W.

LCRM Directions to the deposit are given as follows: "Begin log at Lay, Colorado at Texaco station. Go east on U.S. Highway 40 for 0.5 mile, turn left on Moffat County road 17; go 10 miles, turn left on Moffat County road 7; go 11 miles, take left fork at small bridge just north of settlement of Great Divide; go 6 miles to old windmill on right, turn left up trail on west side of drainage. Go 2.5 miles, turn right on very faint trail for 0.4 mile. Turn left off trail and keep on top of ridge. Go 0.8 mile to major fork in drainage; anomaly lies 300 ft to northeast."

QUAD Mayberry Spring 7 1/2'
 MAP CRAIG
 BKG .015 mr/hr

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RNG .04 to .045 mr/hr
 HOST The host is mapped as the Tertiary Wasatch Formation. The occurrence lies in a gray, weathered, fine- to coarse-grained sandstone.
 MNZ Uranium mineralization was detected, but no uranium minerals were visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-127, Airborne Anomaly

LOCATION: sec. 4, T. 9 N., R. 94 W.
 LCRM Directions to the deposit are given as follows: "Begin log at Victory Hotel in Maybell, Colorado. Go north on Moffat County road 19 for 13 miles, take right fork on Moffat County road 6; go 5.8 miles, take left fork; go 1 mile, take left fork; go 3.1 miles to farm buildings, turn left on faint trail on south side of creek; go 0.8 mile to fence gate; go 0.2 mile, cross drainage of shack; anomaly lies on low ridge next to drainage 1/2 mile to the northwest."
 QUAD Mayberry Spring 7 1/2'
 MAP CRAIG
 BKG .015 mr/hr
 RNG .03 to .07 mr/hr
 HOST The host is mapped as the Tertiary Wasatch Formation. The anomaly occurs in a brown, coarse-grained, iron-stained, slightly arkosic, placer sand. Small amounts of heavy black minerals are present.
 MNZ Uranium mineralization was detected, but no uranium minerals were visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-128, Airborne Anomaly

LOCATION: sec. 4, T. 9 N., R. 94 W.
 LCRM Directions to the deposit are given as follows: "Begin log at Victory Hotel in Maybell, Colorado. Go north on Moffat County road 19 for 13 miles, take right fork on Moffat County road 6; go 5.8 miles, take left fork; go 1 mile, take left fork; go 3.1 miles to farm buildings, turn left on faint trail along south side of creek; go 0.6 mile; anomaly lies 1/2 mile to right across drainage on top of terrace."
 QUAD Mayberry Spring 7 1/2'
 MAP CRAIG
 BKG .015 mr/hr
 RNG .03 to .045 mr/hr
 HOST The host is mapped as the Tertiary Wasatch Formation. The anomaly occurs in a brown, coarse-grained, iron-stained, slightly arkosic placer sand deposit.
 MNZ Uranium mineralization was detected but no uranium minerals were visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-129, Airborne Anomaly

LOCATION: sec. 8, T. 10 N., R. 93 W.
 LCRM Directions to the deposit are given as follows: "Begin log at Texaco station in Lay, Colorado. Go east on U.S. Highway 40 for 0.5 mile and turn left on Moffat County road 17; go 10 miles and turn left on Moffat County road 7; go 11.1 miles through settlement of Great Divide, take left fork at bridge; go 1.9 miles, turn right at cattle guard; go 4 miles; at farm house take trail south along east side of wheat field for 0.4 mile; anomaly lies on low north-south trending ridge 600 ft to left."
 QUAD Great Divide 7 1/2'
 MAP CRAIG
 BKG .015 mr/hr
 RNG .025 to .07 mr/hr
 HOST The host is mapped as the Tertiary Wasatch Formation. The anomaly is confined to a slightly arkosic sand and coarse gravel which mantles the area. Underlying this mantle are thin beds of gray to iron-brown, fine- to coarse-grained sandstone.
 MNZ Uranium mineralization was detected, but no uranium minerals were visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-130, Airborne Anomaly

LOCATION: sec. 22, T. 8 N., R. 96 W.
 LCRM Directions to the deposit are given as follows: "Begin log at Victory Hotel in Maybell, Colorado; go north on Moffat County road 19 for 8.4 miles; turn left on trail just past old farm house; go 1.8 miles; turn right and cross drainage; go 0.3 mile, take left fork; go 0.4 mile, turn left and cross drainage; go 0.3 mile, turn left on caterpillar road to top of hill; go 0.7 mile, take left fork and follow caterpillar road; go 1.4 miles. Anomaly lies 350 ft to left among trees on side of ridge."
 QUAD Maybell 15'
 MAP VERNAL
 BKG .01 mr/hr
 RNG .03 to .045 mr/hr
 HOST The host is the Tertiary Wasatch Formation. The maximum radiometric readings occur in a brown, fine-grained, well-cemented, silty sandstone. Small amounts of carbonaceous trash lie along the bedding planes.
 MNZ Uranium mineralization was detected, but no uranium minerals were visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-95, Airborne Anomaly (Cedars Mining Company Claim No. 11)

LOCATION: NW1/4NE1/4NW1/4 sec. 9, T. 6 N., R. 94 W.
 LCRM This anomaly lies approximately 1/4 mile north of B17-96, Airborne Anomaly (Cedars

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Mining Company property). Directions to the deposit are given as follows: "Begin log at Standard Station and Cafe at Maybell, Colorado. Go east 8.2 miles on U.S. Hwy 40, turn right on Moffat County road 53 and go 2.7 miles; turn left on caterpillar road at exploration trench; go 0.3 mile; anomaly lies 20 yds to right in small drainage." Juniper Hot Springs 7 1/2'

QUAD MAP BKG RNG HOST
CRAIG
.02 mr/hr
.15 to .4 mr/hr
The host is the Miocene Browns Park Formation. The maximum radioactivity was found in a two ft thick bed of reddish-brown, fine-grained, iron-stained, ferruginous-cemented, slightly calcareous sandstone. Beds above and below the radioactive horizon are gray to yellow, fine-grained, poorly-consolidated, calcareous sandstones.
MNZ Uranium mineralization was detected, but no uranium minerals were visible.
DOI 1954
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

B17-96, Airborne Anomaly (Cedars Prospect, Cedars Mining Company Claim No. 1, No. 10)

LOCATION: SW1/4NE1/4NW1/4 sec. 9, T. 6 N., R. 94 W.
LCRM This anomaly lies approximately 1/4 mile south of B17-95, Airborne Anomaly. Directions to the deposit are given as follows: "Begin log at Standard gas station and cafe at Maybell, Colorado. Go east on U.S. Highway 40 for 8.2 miles; turn right on Moffat County road 53; go 3.1 miles. Anomaly lies 60 yds to left in small drainage. This is Claim No. 10. To get to Claim No. 1, start at the post office in Lay, Colorado, and drive 3.6 miles west on U.S. Hwy 40. Turn south on the Juniper Springs road and drive 2.6 miles; turn right and drive 0.1 mile to the discovery area."

QUAD MAP PROD BKG RNG HOST
CRAIG
As of 1971, one ton of ore was mined from Cedars Claim No. 1 at grades of 0.20% U308 and 0.05% V205, which produced four lbs of U308 and one lb of V205.
.02 mr/hr
.05 to 1.2 mr/hr
The host is the Miocene Browns Park Formation. The maximum radioactivity (1.2 mr/hr) was found in a ten in. bed of gray to yellow, fine- to coarse-grained, poorly-cemented sandstone. Thin layers of ilmonite-stained sand showing disseminated flakes of carbon (hydrocarbons?) were noted. A few ft below the radioactivity horizon a bed of sandstone with a thin layer of gypsum was noted. A few thin lenses of conglomerate of varied size, composition and stratigraphic position occur in the area. Most of these beds exhibit cross bedding of varied intensity.
STRC The anomalous radioactivity is found in a northwest-southeast-trending breccia zone. It averages three ft wide.

MNZ There are abundant yellow unidentified uranium minerals coating the sandstone and quartzite fragments.
DOI 1956
REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado. U.S. Geol. Survey, 1956, TEI-423, p. 29.

Biles' Shaft

LOCATION: sec. 31, T. 4 N., R. 100 W.
LCRM Directions to the deposit are given as follow: "From Vernal, Utah, at intersection of U.S. Highway 40 and Utah State Highway 44, drive east on U.S. Highway 40 for 57.2 miles; turn left through steel gate and drive 0.3 mile, right 0.4 mile to Biles' Shaft." Skull Creek 7 1/2'
QUAD DVEL A ten-ft shaft was sunk for exploratory purposes at the site of a drill hole that encountered weak mineralization.
HOST The mineralization occurs near the Jurassic Curtis-Entrada contact, and probably lies in the upper part of the Entrada Sandstone. The host is a gray, medium-grained, friable sandstone containing carbon less than one in. thick along some bedding planes. There is some ilmonite staining on fractures and bedding planes.
STRC The prospect is on the south flank of the Red Wash anticline. The beds strike N47°W and dip 60°S. There is a conspicuous fracture that cuts the bedding at approximately 90°, but it has no obvious relationship to mineralization.
MNZ The mineralization is associated with the carbonaceous material in the sandstone, but no uranium minerals are megascopically visible.
DOI 1955
REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Bimbo 1

LOCATION:
LCST UNLOCATABLE
LCRM This deposit is located in the Sand Wash Basin.
PROD By 1971, one ton of ore had been mined at a grade of 0.05% U308, producing one lb of U308.
HOST The host is the early Tertiary Wasatch Formation.
MNZ Uranophane was present.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Blue Mountain Group (Blue Mountains 4, Skull Creek Carnotite Deposit)

LOCATION: N1/2NE1/4 sec. 35, T. 4 N., R. 101 W.
QUAD Gilliam Draw 7 1/2'
PROD From the Blue Mountains 4, as of 1971, 254 tons had been mined at grades of 0.21% U308 and 1.02% V205, producing 1,084 lbs of U308 and 5,158 lbs of V205.

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HOST The hosts are the lower part of the Jurassic Curtis Formation and the upper part of Jurassic Entrada Sandstone.

MNZ Carnotite, volborthite, malachite, azurite and brochantite are associated with clay galls, carbonaceous clay lenses, and carbonized and silicified wood. Pitchblende was also found associated with a silicified log. The center of the log approximately one-half in. in diameter showed a replacement of the cell walls by pitchblende. The pitchblende in turn was ringed by secondary uranium and vanadium minerals, probably carnotite and volborthite (?). The remainder of the log was completely silicified, with malachite staining along the bark. Samples assayed showed 0.004% to 0.16% eU, from 0.006 to 0.16% U, from 0.59% to 1.89% V2O5, and from 0.29% to 2.35% Cu.

RMKS This deposit lies located in the Skull Creek district.

DOI 1972

REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967. RMAG-AAPG Guidebook, 1955, p. 124. McDougald, W. D., 1955.

Bob Cat Group

LOCATION: S1/2 sec. 2, T. 7 N., R. 93 W.

QUAD Lay SE 7 1/2'

HOST The deposit lies in the Miocene Browns Park Formation.

MNZ Uranium mineralization was noted.

RMKS This deposit is located in the Maybell mining district.

DOI 1973

REF U.S. Geol. Survey, 1977, CRIB File. U.S. Geol. Survey, 1959, Open-file map 31.

Bozo No. 1 (CRIB Unnamed)

LOCATION: sec. 35, T. 4 N., R. 101 W.

LCRM The deposit is located in the Skull Creek mining district.

QUAD Skull Creek 7 1/2'

DVEL There was no production from this property as of 1972.

HOST The deposit lies in the Jurassic Curtis Formation.

MNZ Uranium and copper mineralization were noted.

DOI 1972

REF U.S. Geol. Survey, 1977, CRIB File. U.S. Geol. Survey, 1952, TEI-308, p. 20. U.S. Geol. Survey, 1948, TEM-60.

Breadline

LOCATION: UNLOCATABLE

LCST UNLOCATABLE

ROD As of 1971, 8 tons of ore were mined at grades of 0.09% U3O8 and 3.38% V2O5, producing 15 lbs of U3O8 and 541 lbs of V2O5.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado.

Buffalo Head Prospect (Buffalo Head Mining Co. Claim No. 6)

LOCATION: NE1/4SW1/4 sec. 29, T. 7 N., R. 94 W.

LCRM Directions to the deposit are given as follows: "Drive east on U.S. Highway 40 for 7.7 miles from the Maybell, Colorado store. Turn left through a gate and go 1.2 miles. Turn left and drive 0.1 mile. Turn left and go 0.3 mile. Turn left and drive 1.0 miles, take a trail going left 0.3 mile. The deposit lies 300 yds to the southeast on a foot path."

QUAD Lay 7 1/2'

DVEL The mine was an underground operation. There is at least one trench, and some drilling was done in 1954.

PROD As of 1971, 96 tons had been mined at grades of 0.11% U3O8, producing 206 lbs of U3O8, and 0.01% V2O5, producing 10 lbs of V2O5.

BKG .04 mr/hr

RNG .16 to .4 mr/hr

HOST The host is the Miocene Browns Park Formation. It is composed of white to gray to buff, interbedded sandstones and siltstones. A 24-in. bed of fine-grained, massive sandstone contains most of the radioactivity.

ALT Moderate alteration shows along fracture and joint planes, and heavy iron staining is present. The alteration has caused the sand grains to be a green color.

MNZ Uranium mineralization was noted, and uranophane was identified.

RMKS This deposit lies in the Maybell mining district.

DOI 1954

REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Butler Lease

LOCATION: SW1/4SW1/4 sec. 30, T. 8 N., R. 91 W.

DVEL The mining was done in by shallow open pit. The average depth of ore was six ft.

PROD As of 1971, 1,085 tons of ore were mined at a grade of 0.20% U3O8, producing 4,392 lbs of U3O8.

HOST The host is the early Tertiary Wasatch Formation.

MNZ Uranophane was recognized.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado.

Cacey Machelheny Claims

LOCATION: sec. 12, T. 10 N., R. 101 W.

LCRM The deposit extends to sec. 11-14.

QUAD Irish Canyon 7 1/2'

DVEL The mining was primarily done by underground workings. A few bulldozer cuts were made.

BKG .015 mr/hr

RNG .05 to .08 mr/hr

HOST The host is described as being a sandstone in the Jurassic Morrison Formation. The beds strike N30°W, and dip 80°E.

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STRC The beds were uplifted on the flanks of the Cold Springs Mountains.

MNZ Uranium mineralization was noted but no visible uranium minerals were seen. Grab samples showed up to three times background radioactivity, increasing in the presence of fossils and other carbonaceous trash. Iron and manganese concretions are present.

DOI 1954

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Carol J. Claims

LOCATION: sec. 2, T. 5 N., R. 96 W.

LCRM Directions to the deposit are given as follows: "Beginning at Maybell, Colorado, go 1.8 mile east on Highway U.S. 40; turn right onto county road 57 and go 10.4 miles, turn right on poor dirt road and go 0.1 mile to creek crossing and continue on the same road 1.1 mile, turn right at fork and go 0.3 mile; turn right and go 0.5 mile to west property line of Carol J. Claims."

QUAD Citadel Plateau 15'

BKG .02 to .04 mr/hr

RNG .10 to .20 mr/hr

HOST The host is the Miocene Browns Park Formation. The radioactivity occurs in a series of interbedded, hard, buff, very fine-grained, rounded grained, calcareous sandstones, and soft, friable, buff to gray, non-calcareous siltstone beds. The highest radioactivity readings were in a siltstone that showed abundant limonite staining.

MNZ Uranium mineralization was noted, but no visible uranium minerals were seen.

DOI 1955

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Claim 1

LOCATION:

LCST UNLOCATABLE

LCRM This deposit is located in the Washakie Basin.

PROD As of 1971, one ton of ore had been mined at grades of 0.15% U308 and 0.20% V205, producing 3 lbs of U308 and 4 lbs of V205.

HOST The host is the Wasatch Formation.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado.

Cleta Group

LOCATION: sec. 26, T. 4 N., R. 101 W.

LCRM This deposit is located in the Skull Creek area.

PROD As of 1971, 19 tons of ore had been mined at a grade of 0.11% U308, producing 42 lbs of U308.

HOST The host is the Jurassic Carmel Formation.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado.

Coal Ridge

LOCATION: T. 4 N., R. 101 W.

LCST UNCERTAIN

QUAD Skull Creek 7 1/2' or Lazy Y Point 7 1/2'

HOST The radioactivity occurs in a lignite bed of the Upper Cretaceous Lower Lies Formation of the Mesaverde Group.

MNZ Samples averaging 0.081% U308, with maximums to 0.40% U308 were taken.

DOI 1977

REF Atlantic Richfield Corporation, 1977, Personal Communication.

Doc Armor Mine

LOCATION: S1/2N1/2 sec. 33, T. 8 N., R. 91 W.

DVEL This was a shallow open pit mine.

PROD As of 1971, 784 tons of ore had been mined at grades of 0.13% U308 and 0.01% V205, producing 2,016 lbs of U308 and 131 lbs of V205.

HOST The deposit lies in the Eocene Wasatch Formation.

MNZ Carnotite - tyuyamunite - type mineralization was recognized.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado.

Epsilon Claims No. 3, (56-14, Airborne Anomaly)

LOCATION: sec. 18, T. 7 N., R. 92 W.

LCRM This anomaly is approximately 2,000 ft southeast of Airborne Anomaly 56-13. Directions to the deposit are given as follows: "Beginning at Craig, Colorado, go 12.5 miles west on US Highway 40. Turn right off Highway 40 onto Moffat County Road 15 and go 0.8 miles, turn left and go 1.7 miles. The anomalous area is on top of a rounded ridge 0.7 mile east."

QUAD Lay SE 7 1/2'

MAP CRAIG

DVEL Underground mining was carried out. Two small open pits are located on Epsilon Claim No. 3.

BKG .015 mr/hr

RNG .03 to .10 mr/hr

HOST The host rock is Miocene Browns Park Formation. It is a gray to buff, fine- to medium-grained sandstone and siltstone with locally abundant limonite staining, and some CaCO3 cementation.

MNZ Uranium mineralization was found, although it was not megascopically visible. It appears to be associated with the limonite staining.

DOI 1955

REF U.S. Bur. of Mines, 1977 (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Eskridge Property

LOCATION: sec. 22, T. 7 N., R. 93 W.

QUAD Lay SE 7 1/2'

DVEL There was no production on this property.

HOST The host is the Miocene Browns Park Formation.

MNZ Uranium mineralization was recognized.

RMKS The property lies in the Lay mining district.

DOI 1973

REF U.S. Geol. Survey, 1977, CRIB File.

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Farnsworth Uranium Deposit (Housel Gulch Placer, Pardner, Friendship, Magpie, Sage Hen, Housel Gold Placer Mine, Pal, Grey Hound Leases)

LOCATION: sec. 9, T. 9 N., R. 92 W.
 LCRM The deposit also extends to sec. 4.
 QUAD East Timberlake Creek 7 1/2'
 HOST The host is the Eocene Watsatch Formation.
 MNZ Uranium, thorium and vanadium mineralization is present, with ilmenite and monazite recognized in black sands on the property.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File.

Fly Claims (Iles Formation)

LOCATION: NE1/4NW1/4 sec. 17, T. 3 N., R. 101 W.
 LCRM There are also claims in sec. 7, 8, 16, and 18, all on or near Coal Ridge.
 QUAD Rangely NE 7 1/2'
 RNG 2,000 to 5,000 cps
 HOST The host is a fine-grained sandstone and thinly bedded lignite of the Upper Cretaceous Iles Formation. The mineralization occurs in the lignite near contacts with the sandstone. The lignite becomes barren as the distance from that contact increases.
 STRC The beds dip 58° to 65°S, and strike N65°W.
 ALT The sandstone has been bleached.
 MNZ There is irregular secondary mineralization with visible carnotite or autunite in the sandstones. Assays show values of 0.034% U3O8 in the sandstones and 0.051% U3O8 in the lignite.
 DOI 1977
 REF Atlantic Richfield Corp., 1977, Personal Communication. Western Nuclear, Inc., 1977, Personal Communication.

Gertrude Mine (Gertrude No. 5 and No. 6 Claims)

LOCATION: NW1/4NE1/4 sec. 17, T. 7 N., R. 94 W.
 LCRM Directions to the deposit are given as follows: "Drive 3.7 miles west of Lay, Colorado on U.S. Hwy 40. Turn right on to a trail, go through a gate, and drive 2.8 miles to a fork in the road. Take the left fork and drive 1.1 miles to the deposit."
 QUAD Lay 7 1/2'
 PROD As of 1971, 355,332 tons of ore were mined at a grade of 0.12% U3O8, producing 785,329 lbs of U3O8.
 BKG .02 mr/hr
 RNG .05 to 4.5 mr/hr
 HOST The mine lies in the Miocene Browns Park Formation. The host is a light gray to buff, friable, fine- to medium-grained sandstone. It is more than 700 ft thick at this point, and rests with an angular unconformity on the older sediments. The ore occurs in flat, irregular lenses ranging in depth from 6 to 200 ft.
 STRC The beds strike N60°E and dip 10°SE. Four faults, showing displacements ranging from 1 to 2 ft, strike N50° - 70°W.
 MNZ Uranophane and meta-autunite are the important ore minerals in the oxidized zone. Coffinite

was the only mineral identified in the unoxidized zone. Channel samples assayed 0.212% to 0.236% U3O8 and between 0.212% and 0.543% U3O8.

DOI 1956
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, p. 9. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Glory Bee

LOCATION: sec. 5, T. 3 N., R. 101 W.
 LCRM This deposit lies in the Skull Creek district.
 PROD As of 1971, 17 tons of ore were mined at grades of 0.04% U3O8 and 0.16% V2O5, producing 15 lbs of U3O8 and 16 lbs of V2O5.
 HOST The host is the Jurassic Curtis Formation.
 MNZ Copper minerals and brown iron oxide minerals were found associated with carbonaceous material and uranium minerals in the radioactive zone.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Golden Grain Claims

LOCATION: sec. 30, T. 8 N., R. 91 W.
 LCRM Directions to the deposit are given as follows: "From the junction of US Hwy 40 and State Secondary road 355 west of Craig, Colorado, drive north on the main travelled road 8.5 miles to the Butler Ranch. Turn left through the Butler Ranch and follow a winding road through a wheat field 1.5 miles to the Golden Grain Claims. The anomaly is located on Claim No. 2."
 QUAD Pine Ridge 7 1/2' or Craig NW 7 1/2'
 BKG .05 mr/hr
 RNG .08 to 10.0 mr/hr
 HOST The host is an outlier of the Miocene Browns Park Formation. The anomalous radioactivity occurs in a dark buff to brown, medium-grained, iron-stained, poorly consolidated member of the formation.
 MNZ Uranium mineralization was recognized. A light green to yellow fluorescent uranium mineral coats sand grains and is disseminated throughout the sandstone.
 DOI 1955
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Hazel Whetstone Property

LOCATION: sec. 27, T. 7 N., R. 94 W.
 LCRM Directions to the deposit are given as follows: "Begin log at junction of Moffat County Road 53 and US Hwy 40, 8.0 miles east of Maybell, Colorado. Go east on U.S. Hwy 40 for 0.6 miles. The property lies in a narrow gulch trending north and south. A bladed road and some mine workings may be seen at the head of the gulch. The gulch lies one-quarter of a mile north of the highway."

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QUAD Lay 7 1/2'
 BKG .015 mr/hr
 RNG .03 to .2 mr/hr
 HOST The host is the Miocene Browns Park Formation. The maximum radioactivity occurs in a six ft bed of blue, fine- to medium-grained quartzite. The rock is intensely iron stained along fracture surfaces.
 ALT Alteration has taken place along the fractures.
 MNZ Very thin, irregular stringers of green to yellow uranium minerals were irregularly deposited in the rock. These stringers are found near the contact line between the altered and unaltered portions of the rock.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Hex Claims

LOCATION: sec. 22, T. 8 N., R. 98 W.
 LCRM Directions to the deposit are given as follows: "From Maybell, Colorado go 0.5 mile west on US 40; turn right and go 19.8 miles on State Highway 318 to the west side of the bridge over Sand Wash Creek."
 QUAD Lone Mountain 15'
 BKG .02 mr/hr
 RNG .05-.08 mr/hr
 HOST The host is the Miocene Browns Park Formation. The anomalous radioactivity occurs in a petrified log (4 ft in diameter and 10 ft long) in a medium-grained sandstone horizon at the base of a conglomerate composed of red sandstone and quartzite boulders and pebbles. The petrified log is less than five ft above a flat-lying green sandstone of an older formation.
 STRC The conglomerate dips 17°S and was deposited above an angular unconformity. The beds on the lower side of the unconformity are nearly flat lying.
 MNZ Uranium mineralization was recognized, but no uranium minerals were seen.
 DOI 1955
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Hudson Claim Group

LOCATION: sec. 8, T. 7 N., R. 95 W.
 LCRM Directions to the deposit are given as follows: "Begin log at Victory Hotel in Maybell, Colorado. Go north on Moffat County Road 19 for 3.5 miles; turn right at wrecked car body; go 0.2 miles, turn left on trail to north; go 1.2 miles, turn left at pile of tin cans; go 0.4 miles, take right fork; go 0.1 mile; anomaly lies here."
 QUAD Maybell 15'
 BKG .015 mr/hr
 RNG .05 to .07 mr/hr
 HOST The host is the Miocene Browns Park Formation. The anomaly occurs in an iron cemented, brown conglomerate. Slightly abnormal radioactivity

was noted in thin, irregular lenses of green to yellow sandstones which underlie the conglomerate bed.

MNZ Uranium mineralization was recognized, but no uranium minerals were visible. Thin, irregular stringers of gypsum and calcite occur through the beds.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Humming Bird Claim (B17-100, Airborne Anomaly)

LOCATION: NW1/4SE1/4 sec. 15, T. 7 N., R. 94 W.
 LCRM The directions to the deposit are given as follows: "Begin log at junction of U.S. Hwy 40 and Moffat County road 53 west of Lay, Colorado. Go west on U.S. Hwy 40 for 0.1 mile, turn right through fence gate; go 0.7 mile, turn left through fence; go 0.5 mile, take right fork through fence; go 1.0 mile, turn right on faint trail along fence; go 0.5 mile to fence corner, turn left along fence for 0.2 mile; anomaly lies one-half mile to the right at the base of Sugar Loaf Mountain."

QUAD Lay 7 1/2'
 BKG .015 mr/hr
 RNG .025 to .045 mr/hr
 HOST The host is the Miocene Browns Park Formation. The deposit occurs in a brown to white, fine- to coarse-grained, calcareous, alluvial sand. This alluvium is underlain by a flat-lying white, calcareous, fine- to coarse-grained sandstone.
 MNZ Uranium mineralization was noted, but no uranium minerals were visible.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Iron and Copper Claims

LOCATION: sec. 14, T. 7 N., R. 94 W.
 LCRM Directions to the property are given as follows: "From the Standard service station in Maybell, Colorado, drive north on a county road 1.6 miles; turn right and go 1.4 miles; turn left and drive 1.0 mile, turn right and go 1.3 mile to a wash, follow the bottom of the wash north 1.6 mile to the discovery area."
 QUAD Lay 7 1/2'
 BKG .04 mr/hr
 RNG .35 mr/hr
 HOST The host is the basal conglomerate of the Miocene Browns Park Formation. The maximum radioactivity occurred in a fine-grained sand lens within the igneous pebble conglomerate.
 MNZ Uranium mineralization was recognized, but no visible uranium minerals were seen.
 DOI 1955
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

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John D. 11 & 12

LOCATION:

LCST UNLOCATABLE
 PROD No production was reported for these claims.
 HOST The deposit lies in the Miocene Browns Park Formation.
 MNZ Mineralization of the uraninite (coffinite) type was recognized.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

John D. 8 & 9

LOCATION:

PROD No production was reported for these claims.
 HOST The host is the Miocene Browns Park Formation.
 MNZ Uraninite (coffinite) type mineralization is present.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Johnson Lease (Johnson MCS)

LOCATION: sec. 19, T. 7 N., R. 94 W.

QUAD Lay 7 1/2'
 PROD As of 1971, 16,984 tons of ore were mined at grades of 0.25% U308 and 0.00% V205, yielding 85,046 lbs of U308 and 109 lbs of V205.
 HOST The deposit lies in the Miocene Browns Park Formation.
 MNZ Uranium/vanadium minerals are present, and uraninite and/or coffinite.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lay-Governor Groups

LOCATION: sec. 11, T. 7 N., R. 94 W.

QUAD Lay 7 1/2'
 MNZ Uranium mineralization was found.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Leon Claims

LOCATION: sec. 8, T. 6 N., R. 91 W.

LCRM Directions to the deposit are given as follows: "From Maybell, Colorado, go 3.9 miles east on US 40; turn right and go 3.2 miles on Axial trail to anomaly."
 QUAD Round Bottom 7 1/2' or Castor Gulch 7 1/2'
 BKG .04 mr/hr
 RNG .3 to 2.5 mr/hr
 HOST The anomalous area is located in the Miocene Browns Park Formation. The mineralization occurs in a fine- to medium-grained, poorly sorted, calcareous, buff sandstone member of the Basal Conglomerate. Hematite staining is dominant in a zone 6 in. above the mineralization.
 STRC The formation strikes N45°W and dips 13°NE.

MNZ A yellow uranium mineral was observed as a coating on and a filling between sand grains.
 DOI 1955
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Little Snake No. 2 (B17-36, Airborne Anomaly)

LOCATION: sec. 1, T. 11 N., R. 95 W.

LCRM The deposit may also extend to sec. 12. Directions to the deposit are given as follows: "From Baggs, Wyoming, drive south on Wyoming and Colorado State Highway 789 for 4.7 miles, turn right onto graded Moffat County Highway 4 and continue on this road for 22.8 miles; turn sharply left and follow dirt road for 1.1 mile."

QUAD Nipple NE 7 1/2'
 BKG .01 to .018 mr/hr
 RNG .03 to .15 mr/hr
 HOST Slight anomalous radioactivity was detected in a black to brown, iron-stained sandstone layer in the Eocene Wasatch Formation. The formation is comprised of interbedded gray to purple siltstones and mudstones with a few thin, fine- to medium-grained sandstone layers. Siliceous, iron stained fracture coatings and concretions are abundant.
 MNZ Uranium mineralization was recognized, but no visible uranium minerals could be found. Abundant ilmonite and hematite staining was noted in the area.
 DOI 1955
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Little Star (Little Star Claims, CRIB Unnamed)

LOCATION: NW1/4SE1/4SW1/4 sec. 27, T. 5 N., R. 100 W.

LCRM Directions to the deposit are given as follows: "From Elk Springs, Colorado, drive west on U.S. Hwy 40 for 8.1 miles. Turn right and drive 6.9 miles on Moffat County 16. Turn left and drive 0.4 miles to discovery area."

QUAD M F Mountain 7 1/2'
 PROD As of 1971, 1,671 tons of ore had been mined at grades of 0.23% U308 and 0.21% V205, producing 7,597 lbs of U308 and 7,017 lbs of V205.
 RNG .6 to 4.0 mr/hr
 HOST The deposit occurs in the Permian-Pennsylvanian Weber Formation. A highly fractured, mineralized sandstone roll contains abundant carnotite grains disseminated in the sandstone. Vanadium content increases and radioactivity decreases with increasing distance from the face of the roll.
 STRC A sharp reversal in the attitude of the bedding one-half mile south of this occurrence indicates the presence of large scale faulting. The beds here dip 40°SW and strike N68°W.
 MNZ Carnotite and/or tyuyamunite was identified. A close relationship between mineralization

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and silicification was noted. Assays submitted by the owners reportedly ran as high as 4.0% U308.

DOI 1954
REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Bur. of Mines Production Records. U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Lucky Boy (Lucky Claim)

LOCATION: sec. 13, T. 7 N., R. 96 W.
LCRM Directions to the deposit are listed as follows: "Drive north of Maybell, Colorado on Moffat County road 19, 4.1 miles. Turn left on the old Oregon Trail and drive 1.9 miles to the bottom of a short steep hill. The discovery pit lies 300 yds east across a wash." The deposit lies in the Maybell-Lay area.
QUAD Maybell 15'
PROD One ton of ore had been mined as of 1971, at grades of 0.20% U308 and 1.00% V205, producing four lbs of U308 and 20 lbs of V205.
BKG .03 mr/hr
RNG .05 to 1.0 mr/hr
HOST The host is the Miocene Browns Park Formation. The white to gray ore-bearing sandstone is medium-grained and contains numerous semi-rounded black grains.
MNZ Uranium mineralization was recognized, but no visible uranium minerals were observed.
DOI 1954
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Maple Mine

LOCATION: sec. 9, T. 9 N., R. 92 W.
LCRM Directions to the deposit are given as follows: "Drive 10.9 miles south of Baggs, Wyoming on Wyoming Highway 330. Turn right on county road (not numbered) and follow main traveled road 5.5 miles to a junction. Take the right road at this junction and drive 2.8 miles; thence follow trail going to the left for 4.9 miles to a fork. Take the left fork of this trail 0.7 miles to a cabin on the property."
QUAD East Timberlake Creek 7 1/2' or Craig NW 7 1/2'
BKG .03 mr/hr
RNG .5 to 2.0 mr/hr
HOST The host is mapped as the Tertiary Wasatch Formation. This buff, fine-grained, crossbedded, ilmonite-stained, mineralized sandstone bed contains an 18-in. tabular layer of manganese which is not abnormally radioactive.
MNZ Uranium, gold, and tungsten minerals are all present. The placer sands include grains of garnet, pyrolusite, gold, and orange and black grains of an unidentified radioactive mineral.
DOI 1954

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Marge Mine (Marge 1-5, Maybell 1 & 2, Baba 1-3, Bessie 1-3, Marge Group, Margie Mine, Marge #1 Claim, Bertha)

LOCATION: W1/2NW1/4NW1/4 sec. 19, T. 7 N., R. 94 W.
LCRM The deposit also extends to sec. 13 and NE1/4NE1/4 sec. 24, T. 7 N., R. 95 W. This deposit is located in the Maybell mining district.
QUAD Maybell 15'
PROD As of 1971, 455,054 tons were mined at a grade of 0.16% U308, producing 1,480,027 lbs of U308.
BKG .02 mr/hr
RNG .05 to 2.0 mr/hr
HOST The deposit lies in the Miocene Browns Park Formation. It is a friable, gray to buff, very fine- to medium-grained sandstone, and is more than 700 ft thick in this area. The sandstone has extensive crossbedding and a few thin clay seams. The ore occurs in flat lenses up to 8 ft thick and ranging in depth from 10 to 70 ft below the surface. The host sandstone rests with an angular unconformity upon the older sediments.
STRC The beds strike N70°E and dip 30°N. A major fault crosses the deposit and strikes N30°W, dipping 80°W. Several smaller faults with displacements up to one ft strike N60°W.
MNZ The mineralization is of the uraninite (coffinite) type in the unoxidized zone, with meta-autunite and uranophane in the oxidized zone.
DOI 1956
REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, p. 10. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado. Mineral Resources of Colorado, 1960, p. 344. U.S. Geol. Survey, 1959, Open-file Map 31.

Olds Claim Group (Olds Group of Claims)

LOCATION: sec. 21, T. 11 N., R. 99 W.
LCRM The deposit also extends to sec. 22. Directions to the deposit are given as follows: "South Rock Springs on Highway 430 to Hiawatha, Colorado. Continue on county road toward Craig, Colorado 8.4 miles to the Gutierrez ranch. Continue past ranch 1.2 miles and turn right at grain bin. Continue 1.7 mile and bear right at grain bin. Continue on main road 3.1 miles and bear left at haystack. Continue 2.6 miles on main road to stream bed and northwest corner of Claim 23."
QUAD Hiawatha 7 1/2'
BKG .02 mr/hr
RNG To .10 mr/hr
HOST The host is described as a buff to brown sandstone in the Cathedral Bluffs Tongue of the Tertiary Wasatch Formation.
MNZ Uranium mineralization was recognized, but no visible uranium minerals were observed.

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DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Orr Claims (Orr and I and L Claims, Orr Et Al Claims)

LOCATION: sec. 18, T. 7 N., R. 95 W.
 LCRM The claims also extend to sec. 17, 19, 20 and 21.
 QUAD Maybell 15'
 HOST The host is the Miocene Browns Park Formation. The deposit occurs in lenticular ore bodies in a sandstone.
 MNZ Uranophane and meta-autunite were identified.
 DOI 1977
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.).

Uscar No. 1 Claim

LOCATION: sec. 5, T. 3 N., R. 101 W.
 LCRM This deposit lies in the Skull Creek district.
 QUAD Lazy Y Point 7 1/2' or Skull Creek 7 1/2'
 HOST The deposit lies in the Jurassic Entrada Sandstone within forty ft of the Curtis-Entrada contact. The Entrada is a light gray, medium- to coarse-grained, cross bedded, massive sandstone, heavily ilmonite stained along fractures, and carbonaceous in places. The mineralization occurs as coatings on fracture planes, associated with carbon trash and secondary copper minerals. Spotty mineralization was observed over a ten-ft square face.
 STRC The deposit is located on the south flank of the Red Wash anticline. The beds dip approximately 55°S 30°W. Orientation of the fractures is approximately N70°E.
 MNZ No uranium minerals were megascopically visible. The radioactivity is associated with malachite, azurite, and limonite. A grab sample assayed 0.04% U3O8 and U3O8, with 0.02% V2O5 and 0.5% CaCO3.
 DOI 1955
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Owl Group

LOCATION:
 HOST The host is the Miocene Browns Park Formation.
 MNZ The mineralization is of the uraninite (coffinite) type.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Rob Rollie

LOCATION: sec. 19, T. 7 N., R. 94 W.
 LCRM This deposit extends to sec. 24, T. 7 N., R. 95 W.
 DVEL The mine is a large open pit.
 PROD As of 1971, 596,701 tons of ore were mined at a grade of 0.11% U3O8, producing 1,347,892 lbs of U3O8. The average depth to ore was 170 ft.

HOST The host is the Miocene Browns Park Formation.
 MNZ Mineralization is of the uraninite (coffinite) type.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Sage-Buella

LOCATION: sec. 8, T. 7 N., R. 94 W.
 QUAD Lay 7 1/2'
 PROD As of 1971, 197,709 tons of ore were mined at a grade of 0.10% U3O8, producing 406,910 lbs of U3O8.
 HOST The host is the Miocene Browns Park Formation.
 MNZ The mineralization of the uraninite (coffinite) type.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sec. 16, T. 6 N., R. 94 W.

LOCATION: N1/2 sec. 16, T. 6 N., R. 94 W.
 LCRM The deposit extends to S1/2 sec. 9, T. 6 N., R. 94 W.
 QUAD Juniper Hot Springs 7 1/2'
 DVEL The average depth of ore was 30 ft. It was developed as an open pit mine.
 PROD As of 1971, 535 tons of ore had been mined at a grade of 0.11% U3O8, producing 1,141 lbs.
 HOST The host is the Miocene-Pliocene Browns Park Formation.
 MNZ Uraninite, coffinite, uranophane and autunite were recognized.
 RMKS This was a state lease.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sec. 16, T. 7 N., R. 93 W.

LOCATION: sec. 16, T. 7 N., R. 93 W.
 QUAD Lay SE 7 1/2'
 HOST The deposit lies in the Miocene-Pliocene Browns Park Formation.
 MNZ Uranophane was recognized at the deposit.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sec. 16, T. 7 N., R. 94 W.

LOCATION: sec. 16, T. 7 N., R. 94 W.
 QUAD Lay 7 1/2'
 HOST The host is the Miocene-Pliocene Browns Park Formation.
 MNZ Mineralization of the uraninite (coffinite) type was noted.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

September Morn Claims

LOCATION: sec. 3, T. 5 N., R. 96 W.
 LCRM Directions to the deposit are given as follows: "Beginning at Maybell, Colorado, go 1.8

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miles east on US 40, turn south and go 10.4 miles on County road."
 QUAD Citadel Plateau 15'
 BKG .02 to .04 mr/hr
 RNG .5 to 3.0 mr/hr
 HOST The anomaly is located in the Miocene Browns Park Formation. The radioactivity is found in a fine-grained sandy siltstone showing heavy ilmonite and hematite staining.
 STRC The anomalous radioactivity is located on a steep west facing slope in a fault zone striking N50°W and dipping 60°S. The formation strikes N60°W and dips 7°NW.
 MNZ Uranium mineralization was recognized, but no uranium minerals were seen. A petroliferous residue not directly associated with the radioactivity is present in several spots along the fault.
 DOI 1955
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Shell Group (Shell Group, Claim No. 1)

LOCATION: S1/2 sec. 7, T. 7 N., R. 95 W.
 LCRM The deposit also extends to sec. 8. Directions to the deposit are given as follows: "Begin log at Victory hotel in Maybell, Colorado. Go north on Moffat County road 19 for 3.5 miles, turn right at old car body; go 0.2 mile turn left at north-trending trail; go 0.6 mile; deposit lies to left on west side of a small ridge."
 QUAD Maybell 15'
 BKG .02 mr/hr
 RNG .08 to .7 mr/hr
 HOST The host is the Miocene Browns Park Formation. The anomaly occurs in a white to brown, thin-bedded, fine- to medium-grained sandstone. Intense iron staining is apparent in many beds and some of those beds are iron cemented.
 MNZ Uranium mineralization was discovered, but no uranium minerals were visible. Thin stringers of gypsum and calcite were noted.
 DOI 1954
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Star Prospect (Front Range Star Group)

LOCATION: NW1/4NE1/4 sec. 13, T. 7 N., R. 95 W.
 QUAD Maybell 15'
 PROD As of 1971, there had been no production from this prospect.
 HOST The host is the Miocene Browns Park Formation.
 MNZ Uranium mineralization was noted, of the uraninite (coffinite) type.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. Del Rio, S. M., 1960, p. 344.

Sugarloaf (Sugarloaf No. 1, 2, 3, 4, 9, Sugar Loaf Claim No. 1)

LOCATION: sec. 27, T. 7 N., R. 94 W.

LCRM The deposit also extends to sec. 22. Directions to the deposit area given as follows: "Drive 9.3 miles east of Irene's cafe in Maybell, Colorado, on U.S. Hwy 40. Turn left, through a gate and go right around sheep shearing pens and drive 0.3 miles. Turn left and follow the main traveled road 3.9 miles to the discovery area."
 QUAD Lay 7 1/2'
 PROD As of 1971, 357 tons had been mined at grades of 0.15% U308 and 0.07% V205, producing 1,070 lbs of U308 and 533 lbs of V205.
 BKG .04 mr/hr
 RNG .5 to 2.0 mr/hr
 HOST The host is the Miocene Browns Park Formation. The anomalous readings come from a blue-gray quartzite derived from the local siltstone, interbedded with fine-grained sandstones.
 STRC The anomalous radioactivity occurs in a shear zone and in the flat lying sediments on the hanging wall of this zone. The shear zone strikes north-south and dips 75°W.
 ALT Alteration caused the fusion of the siltstones to produce the blue-gray quartzite.
 MNZ Uranium and vanadium minerals were noted, with uranophane identified. Iron staining is common. Assays reportedly are in excess of 0.10% U308, over a wide area. Selenite, molybdenite, gold, and silver were also found.
 DOI 1954
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado. Del Rio, S. M., 1960, p. 344.

Three Sisters (Three Sisters No. 11)

LOCATION: sec. 32, T. 5 N., R. 93 W.
 QUAD Axial 7 1/2'
 PROD As of 1971, 744 tons had been mined at grades of 0.19% U308 and 0.00X% V205, producing 2,897 lbs of U308 and 66 lbs of V205.
 HOST The host is the Miocene Browns Park Formation.
 MNZ Uranophane was identified.
 DOI 1971
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado.

Trevenen Claims

LOCATION: sec. 20, T. 7 N., R. 95 W.
 LCRM Directions to the deposit are given as follows: "Drive 1.8 miles north of Maybell, Colorado on Moffat County Road 19 to a junction. Take right road 0.9 mile to area of anomalous radioactivity. The discovery pit lies 100 yds north of the road."
 QUAD Maybell 15'
 BKG .03 mr/hr
 RNG To .15 mr/hr
 HOST The host is the Miocene Browns Park Formation. The radioactive readings occur in gray-white, medium-grained sandstone concretions found on the surface and in the top 12 in. of soil.
 ALT Alteration of exposures suggests large scale solution movement in the sandstone.

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MNZ Uranium mineralization was noted, but no minerals were identified.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

Unnamed No. 1

LOCATION: SW1/4NE1/4 sec. 30, T. 8 N., R. 91 W.
 QUAD Pine Ridge 7 1/2' or Craig NW 7 1/2'
 HOST The host is the Miocene Browns Park Formation.
 MNZ Uranium minerals were recognized.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Geol. Survey, 1959, Open-File Map 31.

Unnamed No. 2

LOCATION: NW1/4 sec. 30, T. 8 N., R. 91 W.
 QUAD Craig NW or Pine Ridge 7 1/2'
 HOST The host is the Miocene Browns Park Formation.
 MNZ Uranium minerals were recognized.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Geol. Survey, 1959, Open-File Map 31.

Unnamed No. 3

LOCATION: S1/2 sec. 3, T. 7 N., R. 93 W.
 QUAD Lay SE 7 1/2'
 HOST The host is the Miocene Browns Park Formation.
 MNZ Uranium mineralization was noted.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Geol. Survey, 1959, Open-file Map 31.

Unnamed No. 4

LOCATION: SW1/4SE1/4 sec. 8, T. 6 N., R. 94 W.
 QUAD Juniper Hot Springs 7 1/2'
 HOST The host is the Miocene Browns Park Formation.
 MNZ Uranium mineralization was noted.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Geol. Survey, 1955, TEI-423, p. 30.

Unnamed No. 5

LOCATION: sec. 18, T. 7 N., R. 94 W.
 QUAD Lay 7 1/2'
 HOST The host is probably the Miocene Browns Park Formation.
 MNZ Uranium mineralization is present.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File.

Unnamed No. 6

LOCATION: sec. 30, T. 7 N., R. 94 W.
 LCRM The deposit also extends to sec. 31.
 QUAD Lay 7 1/2'
 HOST The host is probably the Miocene Browns Park Formation.
 MNZ Uranium and vanadium minerals were recognized.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File.

Unnamed No. 7

LOCATION: sec. 25, T. 7 N., R. 95 W.
 QUAD Maybell 15'
 HOST The host is probably the Miocene Browns Park Formation.
 MNZ Uranium and vanadium minerals were recognized.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File.

Unnamed No. 8

LOCATION: NW1/4 sec. 27, T. 5 N., R. 98 W.
 QUAD Elk Springs 15'
 HOST The host is the Miocene Browns Park Formation.
 MNZ Uranium mineralization was recognized.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Geol. Survey, 1968, Map GQ-702.

Unnamed No. 9

LOCATION: sec. 28, T. 5 N., R. 98 W.
 QUAD Elk Springs 15'
 HOST The host is the Miocene Browns Park Formation.
 MNZ Uranium mineralization was recognized.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Geol. Survey, 1968, Map GQ-702.

Unnamed No. 10

LOCATION: sec. 29, T. 5 N., R. 98 W.
 LCRM The deposit lies east of Elk Springs.
 QUAD Elk Springs 15'
 HOST The host is the Miocene Browns Park Formation.
 MNZ Uranium mineralization was recognized.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Geol. Survey, 1968, Map GQ-702.

Unnamed No. 11

LOCATION: sec. 30, T. 5 N., R. 98 W.
 QUAD Elk Springs 15'
 HOST The host is the Miocene Browns Park Formation.
 MNZ Uranium minerals were recognized.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Geol. Survey, 1968, Map GQ-702.

Unnamed No. 12

LOCATION: NE1/4SE1/4 sec. 21, T. 5 N., R. 99 W.
 QUAD M F Mountain 7 1/2'
 MNZ Uranium mineralization was noted.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Geol. Survey, 1968, Map GQ-702.

Unnamed No. 13

LOCATION: NE1/4NE1/4NW1/4 sec. 16, T. 7 N., R. 101 W.
 QUAD Zenobia Peak 7 1/2'
 MNZ Uranium minerals were recognized.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File.

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Unnamed No. 14

LOCATION: sec. 14, T. 9 N., R. 96 W.

QUAD Maybell 15¹

RMKS Drilling was carried out by the Cleveland Cliffs Iron Company in 1968. The holes were on 3 mile centers. 23 of 125 holes were mineralized, most in the location given above.

DOI 1977

REF Western Nuclear, 1977, Submittal Files.

Woodpile No. 1

LOCATION: sec. 11, T. 4 N., R. 101 W.

LCST UNCERTAIN

LCRM The deposit also extends to sec. 12. Directions to the deposit are given as follows: "From Vernal, Utah, at intersection of U.S. Hwy 40 and Utah State Hwy 44, drive east on U.S. Hwy 40 for 57.2 miles to Skull Creek, Colorado; turn left at steel gate for 1.7 miles; right 0.2 mile; right 1.4 miles to discovery of Woodpile No. 1."

HOST The deposit lies near the base of the Shinarump Member of the Triassic Chinle Formation. It is a white, conglomeratic, cross-bedded, poorly sorted sandstone containing red and green mudstone galls and partings. There are numerous minor scours along the rim of the outcrop. The mineralized sandstone unit overlain by mudstone is at the base of the Shinarump and probably occupies shallow scours in the Moenkopi Formation. The weakly radioactive pyritized sandstone is less than one ft thick and is exposed for an outcrop thickness of about 5 ft.

STRC The property is located on the east flank of the Red Wash anticline. The dip is about 8°E.

MNZ Weak mineralization is apparently associated with pyrite masses and nodules. Pyrite is in places interstitial, and in places completely replaces the sand grains. Uranium minerals are not megascopically visible. A grab sample assay showed 0.01% eU308, 0.04% V205 and 2.6% CaCO3.

DOI 1955

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Moffat County, Colorado.

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Production in the county to 1971 was 455 tons of ore mined that contained 1,449 lb of U_3O_8 , and 14,343 lb of V_2O_5 . There is excellent potential for more reserves to be found in the county.

Montezuma County is situated in the Four Corners region of southwestern Colorado. It is mesa country, with the mesas capped primarily by Upper Cretaceous rocks, including the Dakota Sandstone and the Mancos Shale. Older sedimentary formations are exposed locally in the many canyon walls. The Tertiary La Plata Mountains of the San Juan Uplift straddles the eastern border, and the Ute Mountains, also Tertiary in age, dominate the west-central part of the county. Older sedimentary strata are exposed around the flanks of the La Plata Mountains in the northeast.

Two types of radioactive deposits are found in the county. The most important of the two is the Colorado Plateau-type tabular deposit, located predominantly in the Jurassic Morrison Formation, but also found occasionally in the Entrada Sandstone or in the Navajo Sandstone. The Morrison Formation in this area is an interbedded sandstone and mudstone unit. The sandstones are generally white, light gray, yellow, or pale brown, and the mudstones are variegated red and green. In the Salt Wash Member of the Morrison Formation, where most deposits lie, the mudstones are predominantly red. In Montezuma County these deposits are concentrated around McElmo Dome on the northwest flanks of the Ute Mountains. The Roberta Jean Mine, located on the flanks of the McElmo Dome, is the largest uranium mine of this type in the county.

Heavy-mineral concentrations in the Point Lookout Sandstone Member of the Mesaverde Group form the second type of radioactive deposit. These deposits, discovered by airborne reconnaissance surveys during the 1950's, are found along the outer northwest edge of the San Juan Basin.

The majority of the ore shipped from the county was from the Roberta Jean Mine. All of the reported production in the county has been from the Morrison Formation, and most of that was from the Salt Wash Member.

Montezuma County was heavily prospected during the uranium boom of the early 1950's, and any large, easily found deposits should have been discovered at that time. Several formations and areas, however, have further potential. Because of the known prospects and minor production in the area, the Morrison Formation along the flanks of McElmo Dome probably offers the best potential for uranium resources. The Morrison Formation is known to be a favorable host rock for this general area of the Colorado Plateau, and the McElmo Dome appears to have acted as a structural trap for uranium and other minerals. In addition to the occurrences listed in this report, small, scattered anomalies, also reported in the Morrison Formation, are found in Cross Canyon south of Dove Creek. Channel sandstones within the Upper Cretaceous Fruitland Formation in the San Juan Basin are also known to host uranium. The Fruitland could be a potential producer where it extends into Montezuma County on the southeast. At least one occurrence in the county is found within the Jurassic Entrada Sandstone. This occurrence contains some micaceous minerals and a relatively high ratio of vanadium to uranium. Large uranium-vanadium deposits in the Entrada Sandstone have been mined north of Montezuma County at the Graysill Mine in San Juan County and at Placerville, San Miguel County. Those within the county could be genetically similar to these roscoelite types. The final area of interest lies on the northwest edge of the San Juan Basin, where ancient heavy-mineral placers are found in the black sands of the Point Lookout Sandstone (Mesaverde Group) and Picture Cliffs Sandstone. These placers probably do not have much economic potential for uranium, but may be of some importance as rare-earth or titanium concentration.

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25, Airborne Anomaly

LOCATION: SW1/4 sec. 15, T. 32 N., R. 17 W.
 LCST UNSURVEYED
 LCRM "Turn east from U.S. Highway 666 onto a dirt road 11.5 miles north of Shiprock, N. M., and drive along the main road for 8.4 miles to the top of Palmer Mesa. Turn left at a group of hogans and drive northeast for 2.4 miles to the Ute Reservation fence. Continue northeast for 2.2 miles. Turn left and drive 0.7 mile to a small reservoir, then turn right and go 1.7 miles along a little-used road. Anomaly is 0.4 mile to the northeast across the valley." This lies in the northwestern part of the San Juan Basin,
 QUAD Tanner Mesa 7 1/2'
 DVEL There are three small prospect pits (1 ft x 1 ft x 1 ft) found at the north end of the anomaly.
 HOST The anomaly lies in the upper part of the massive member of the Point Lookout Sandstone, of the Upper Cretaceous Mesaverde Group. Mineralization occurs in a dark, yellowish-brown, brownish-yellow to dark brownish-gray, very fine-grained, hard, well-cemented sandstone with abundant limonite. The iron impregnated zone occurs in a light gray, massive, cross-bedded, medium- to fine-grained sandstone.
 STRC The anomaly is located on the northeast flank of the North Chimney Rock Dome.
 MNZ Radioactivity is associated with detrital heavy mineral grains. Chip samples show 0.03 to 0.04% eU308 and 0.000% U308.
 RMKS Airborne Anomalies No. 26 and 27 are within a quarter mile away. Anomalies 30 and 31 are about a mile southeast across the canyon.
 DOI 1955
 REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Montezuma County, Colorado. Chenoweth, W.L., and Stehle, F.T., 1957.

26, Airborne Anomaly

LOCATION: NE1/4SW1/4 sec. 15, T. 32 N., R. 17 W.
 LCST UNSURVEYED
 LCRM "Turn east from U.S. Highway 666 onto dirt road 11.5 miles north of Shiprock, N.M. and drive along the main road for 8.4 miles to top of Palmer Mesa. Turn left at a group of hogans and drive northeast for 2.4 miles to the Ute Reservation fence; continue northeast for 2.2 miles. Turn left and drive 0.7 mile to reservoir, then turn right and proceed 1.7 miles along unimproved road to the anomaly." This lies in the northwestern San Juan Basin.
 QUAD Moqui Canyon 7 1/2'
 MAP CORTEZ
 HOST The anomaly occurs in the upper part of the upper massive member of the Point Lookout Sandstone, of the Upper Cretaceous Mesaverde Group. Mineralization occurs in a brownish-yellow, yellowish-reddish-brown to dark brownish-black, very fine-grained, hard, well-cemented sandstone

with limonite, jarosite, some carbon trash, and some hematite. This iron-impregnated zone occurs in a light-gray, massive, very fine-grained, cross-bedded sandstone.
 STRC The anomaly is located on the northeast flank of the North Chimney Rock Dome.
 MNZ Mineralogy is masked by limonite, but uraniferous zircon and monazite causes the radioactivity. The anomalous area is 1,125 ft long, averages 15 ft wide (exposed) and is 2 to 3 ft thick. Grab samples taken from this zone range from 0.04 to 0.06% eU308 and 0.00% U308.
 RMKS Airborne Anomalies No. 25 and 27 are within a quarter of a mile to the southwest and west. Airborne Anomalies 30 and 31 are across the canyon about one mile to the southeast.
 DOI 1955
 REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Montezuma County, Colorado. Chenoweth, W.L., and Stehle, F. T., 1957.

27, Airborne Anomaly

LOCATION: SE1/4SW1/4 sec. 15, T. 32 N., R. 17 W.
 LCST UNSURVEYED
 LCRM "Turn east from U.S. Highway 666 onto dirt road 11.5 miles north of Shiprock, N.M. and drive along the main road for 8.4 miles to the top of Palmer Mesa. Turn left at a group of hogans and drive for 2.4 miles to the Ute Res. fence; continue northeast for 2.2 miles. Turn left and drive for 0.7 miles to a small reservoir. Turn right onto an unimproved road and drive for 1.7 miles. Anomaly is 1/4 mile southwest across the valley." This lies in the northwestern San Juan Basin.
 QUAD Tanner Mesa 7 1/2'
 MAP CORTEZ
 HOST The anomaly is located in the upper part of the Point Lookout Sandstone of the Upper Cretaceous Mesaverde Group. The radioactivity occurs in a yellowish-brown to light brownish-yellow, very fine-grained, blocky sandstone with abundant limonite and some hematite. This iron impregnated zone occurs in a light-gray, massive, medium- to fine-grained, cross-bedded sandstone.
 STRC The anomaly is located on the northeast flank of the North Chimney Rock dome.
 MNZ Radioactivity is associated with detrital heavy mineral grains. The main anomalous zone is 450 ft long, averages 40 ft wide, and is 2 to 3 ft thick. Several smaller zones (100 x 35 ft) lie to the north and west. Chip channel and grab samples range from 0.01 to 0.03% eU308.
 RMKS Airborne Anomalies No. 25 and 26 are nearby; Airborne Anomalies No. 30 and 31 are a mile to the southeast, across the canyon.
 DOI 1955
 REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Montezuma County, Colorado. Chenoweth, W.L., and Stehle, F.T., 1957.

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28, Airborne Anomaly

LOCATION: SW1/4NE1/4 sec. 33, T. 33 N., R. 16 W.
 LCST UNSURVEYED
 LCRM "Drive north from Mancos Creek Trading Post on U.S. Highway 666 for 2.2 miles, then turn east and drive 10.9 miles up Mancos River Canyon. Turn left onto little used road and drive 1.7 miles. Anomaly is on an isolated knob littered with brown sandstone debris 1/3 mile southwest of the road." This anomaly lies in the northwestern San Juan Basin.
 QUAD Moqui Canyon 7 1/2'
 MAP CORTEZ
 HOST The deposit is in a tongue of the Point Lookout Sandstone within the basal Menefee Formation of the Upper Cretaceous Mesaverde Group. The rock is a yellowish-brown, very fine-grained sandstone, well-cemented with limonite. This blocky sandstone forms a zone 2 to 5 ft thick in a light-gray, massive, cross-bedded sandstone.
 MNZ Radioactivity is associated with detrital heavy mineral grain, probably uraniferous zircon and monazite. The anomalous area trends northeast and is roughly 300 ft long and 100 feet wide, with a thickness of 2 to 5 ft. Chip and channel samples range from 0.01 to 0.02% eU308 and one sample assayed 0.06% V205.
 RMKS "Airborne Anomaly No. 29 is 3.5 miles northeast.
 DOI 1955
 REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Montezuma County, Colorado. Chenoweth, W. L., and Stehle, F. T., 1957.

29, Airborne Anomaly

LOCATION: SE1/4SE1/4 sec. 24, T. 33 N., R. 17 W.
 LCST UNSURVEYED
 LCRM "Drive north from Mancos Creek Trading Post on U.S. Highway 666 for 2.2 miles, then turn east and drive 10.9 miles up Mancos River Canyon. Turn left onto little used road and drive 2 miles northwest to a small, dried up reservoir. Walk northwest 3 1/4 miles cross country to the anomaly." This anomaly lies in the northwestern San Juan Basin.
 QUAD Tanner Mesa 7 1/2'
 MAP CORTEZ
 HOST The deposit is in a tongue of the Point Lookout Sandstone with the basal Menefee Formation of the Upper Cretaceous Mesaverde Group. The mineralization occurs in a yellowish-brown, very fine to fine-grained, blocky sandstone well-cemented with limonite. This limonite-stained zone occurs in a light-gray, massive, very fine- to fine-grained, cross-bedded sandstone.
 MNZ Radioactivity is associated with detrital heavy mineral grains, probably uraniferous zircon and monazite. The anomalous area trends northeast and is roughly 300 ft long and 100 ft wide, with a thickness of 2 to 5 ft. Chip and channel samples range from

0.01 to 0.02% eU308 and one sample assayed 0.06% V205.

RMKS Airborne Anomaly No. 28 is 3 1/4 miles to the southeast.
 DOI 1955
 REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Montezuma County, Colorado. Chenoweth, W. L., and Stehle, F. T., 1957.

31, Airborne Anomaly

LOCATION: SE1/4NW1/4 sec. 23, T. 32 N., R. 17 W.
 LCST UNSURVEYED
 LCRM "Turn east from U.S. Highway 666 onto dirt road 11.5 miles north of Shiprock, N.M. Drive along well-travelled road to top of Palmer Mesa. Turn left at a group of hogans 8.4 miles from the juncture with Route 666 and proceed northeast 2.4 miles to the Ute Res. fence; continue for 0.4 mile, then turn west and drive for 2 miles. Anomaly is a long drainage to left of the road." This anomaly lies in the northwestern San Juan Basin.
 QUAD Tanner Mesa 7 1/2'
 MAP CORTEZ
 HOST The anomaly is located in the upper part of the Point Lookout Sandstone of the Upper Cretaceous Mesaverde Group. The radioactivity occurs in a dark brown to dark yellowish-brown, very fine-grained blocky sandstone that is well-cemented with limonite. This limonite zone occurs in a light gray, massive, cross-bedded sandstone. Some blotches of reddish-brown friable sandstone with hematite and jarosite occur at the contact with the massive and mineralized sandstone.
 STRC The deposit is located on the northeast flank of the North Chimney Rock dome.
 MNZ Mineralization is not megascopically visible but is due to detrital heavy minerals such as uraniferous zircon or monazite. The mineralized sandstone occurs as a brown colored zone which is exposed for 800 ft along the outcrop for a width of 50 to 100 ft and a thickness of 2-3 ft. Chip channel samples had values between 0.01 and 0.06%.
 RMKS Anomaly No. 30 is 1/4 mile to the northwest. Anomalies numbered 25, 26, and 27 are across the canyon about one mile to the north.
 DOI 1955
 REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Montezuma County, Colorado. Chenoweth, W. L., and Stehle, F. T., 1957.

38, Airborne Anomaly

LOCATION: E1/2NW1/4 sec. 12, T. 33 N., R. 17 W.
 LCST UNSURVEYED
 LCRM "Turn east from U.S. Highway 666 at a point 9.6 miles north of Mancos River Trading Post. Drive 2.7 miles past two reservoirs to the end of the road. Climb the mesa via the horse trail at the right. The Anomaly is about 2 miles across the top of the mesa from the top of the trail." This anomaly lies in the northwestern San Juan Basin.

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QUAD Towaoc 7 1/2'
 MAP CORTEZ
 HOST The host rock is the Upper Cretaceous Mesaverde Group. Mineralization occurs in the upper massive member of the Point Lookout Sandstone at or near the contact with the overlying Menefee Formation. The radioactivity is located in a dark, yellowish-brown, dark brown, to dark reddish-brown, very fine-grained, well-cemented, blocky sandstone. The mineralized rock is a distinctive brown color which is diagnostic of anomalies in this area. The mineralized zone is exposed for about 400 ft along the outcrop for a width of 75 ft and a thickness of 2-3 ft.

MNZ Mineralization is not megascopically visible, but probably occurs in detrital heavy minerals such as uraniumiferous zircon and monazite.

RMKS Anomalies 38, 39, and 41 to 44 are all believed to represent the same "shoestring" sand, now separated by canyons and cover.

DOI 1955
 REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Montezuma County, Colorado. Chenoweth, W. L., and Stehle, F. T., 1957.

39, Airborne Anomaly

LOCATION: SW1/4SW1/4 sec. 1, T. 33 N., R. 17 W.
 LCST UNSURVEYED
 LCRM "Turn east from U.S. Highway 666 at a point 9.6 miles north of Mancos River Trading Post. Drive 2.7 miles past two reservoirs to the end of the road. Climb the mesa via the horse trail at the right. Anomaly is about 1 1/2 miles across the mesa from the top of the trail." The anomaly lies in the northwestern San Juan Basin.

QUAD Towaoc 7 1/2'
 MAP CORTEZ
 HOST The host rock is the Upper Cretaceous Mesaverde Group. Mineralization occurs in the upper massive member of the Point Lookout Sandstone at or near the contact with the overlying Menefee Formation. The radioactivity occurs in a dark, yellowish-brown, dark brown, to dark reddish-brown, very fine-grained, well-cemented blocky sandstone. This sandstone forms a zone in a light gray to light yellowish-gray, massive cross-bedded, medium- to fine-grained sandstone. The mineralized rock is a distinctive brown color which is diagnostic of anomalies in this area. The mineralized zone is exposed for about 600 ft along the outcrop, for a width of 75 ft and a thickness of 2-3 ft.

MNZ Mineralization is not megascopically visible, but probably occurs in detrital heavy minerals such as uraniumiferous zircon and monazite. Analyses of grab samples show 0.01% U308.

RMKS Anomalies 38, 39, and 41 to 44 are all believed to represent the same "shoestring" sand, now separated by canyons and cover.

DOI 1955
 REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Montezuma County, Colorado. Chenoweth, W. L., and Stehle, F. T., 1957.

40, Airborne Anomaly

LOCATION: NE1/4 sec. 11, T. 33 N., R. 17 W.
 LCST UNSURVEYED
 LCRM "Turn east from U.S. Highway 666 at a point 9.6 miles north of Mancos River Trading Post. Drive 2.7 miles past two reservoirs to the end of the road. Climb the mesa via the horse trail at the right. The anomaly is about 1.5 miles across the top of the mesa from the top of the trail." This anomaly lies in the northwestern San Juan Basin.

QUAD Towaoc 7 1/2'
 MAP CORTEZ
 HOST The host rock is the Upper Cretaceous Mesaverde Group. Mineralization occurs in the upper massive member of the Point Lookout Sandstone at or near the contact with the overlying Menefee Formation. The radioactivity occurs in a dark, yellowish-brown, dark brown, to dark reddish-brown, very fine-grained sandstone. The mineralized rock is a distinctive brown color which is diagnostic of anomalies in this area. The mineralized zone is exposed for about 1,300 ft, with a width of 100 ft and a thickness of 2-3 ft.

MNZ Mineralization is not megascopically visible, but probably occurs in detrital heavy minerals such as uraniumiferous zircon and monazite.

RMKS Anomalies 38, 39, and 41 to 44 are all believed to represent the same "shoestring" sand, now separated by canyons and cover.

DOI 1955
 REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Montezuma County, Colorado. Chenoweth, W. L., and Stehle, F. T., 1957.

41, Airborne Anomaly

LOCATION: SE1/4 sec. 2, T. 33 N., R. 17 W.
 LCST UNSURVEYED
 LCRM "Turn east from U.S. Highway 666 at a point 9.6 miles north of Mancos River Trading Post and drive for 2.7 miles past two small reservoirs to end of road. Climb mesa via the horse trail at right of road. Anomaly is about 1.5 miles south of top of horse trail across the top of the mesa." This anomaly lies in the northwestern San Juan Basin.

QUAD Towaoc 7 1/2'
 MAP CORTEZ
 HOST The host rock is the Upper Cretaceous Mesaverde Group. Mineralization occurs in the upper massive member of the Point Lookout Sandstone, at or near the contact with the overlying Menefee Formation. The radioactivity occurs in a dark yellowish-brown, dark brown to a dark reddish-brown, very fine-grained, well-cemented, blocky sandstone. This sandstone forms a zone in a light gray to light yellowish gray massive cross-bedded, medium-to fine-grained sandstone. The mineralized zone is exposed for about 450 ft along the outcrop, for about 50 ft in width and 2 to 3 ft in thickness. The mineralized rock possesses a distinctive brown color which is diagnostic of anomalies in this area.

MONTEZUMA COUNTY

MNZ Mineralization is not megascopically visible, but probably occurs in detrital heavy minerals such as uraniferous zircon and monzite. Grab samples taken from here contain 0.01% eU308.

RMKS Anomalies No. 44, 43, 42, 41, 39 and 38 are believed to represent the same "shoestring" sand, now separated by canyons and cover.

DOI 1955

REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Montezuma County, Colorado. Chenoweth, W. L., and Stehle, F. T. 1957

QUAD Towaoc 7 1/2'

MAP CORTEZ

HOST The host rock is the Upper Cretaceous Mesaverde Group. Mineralization occurs in the upper massive member of the Point Lookout-Sandstone at or near the contact with the overlying Menefee Formation. The radioactivity occurs in a dark, yellowish-brown, dark brown, to dark reddish-brown, very fine-grained, well-cemented, blocky sandstone. This sandstone forms a zone in a light gray to light yellowish gray, massive, cross-bedded, medium- to fine-grained sandstone. The mineralized rock is a distinctive brown color which is diagnostic of anomalies in this area. The mineralized zone is exposed along about 1,800 ft of the outcrop for a width of 75 ft and a thickness of 2-3 ft.

MNZ Mineralization is not megascopically visible, but probably occurs in detrital heavy minerals such as uraniferous zircon and monazite. Assays of grab samples taken range from 0.01 to 0.02% eU308.

RMKS Anomalies 38, 39, and 41 to 44 are all believed to represent the same "shoestring" sand, now separated by canyons and cover.

DOI 1955

REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Montezuma County, Colorado. Chenoweth, W. L., and Stehle, F. T., 1957.

42, Airborne Anomaly

LOCATION: sec. 2, T. 33 N., R. 17 W.

LCST UNSURVEYED

LCRM "Turn east from U.S. Highway 666 at a point 9.6 miles north of Mancos River Trading Post. Drive 2.7 miles past two reservoirs to the end of the road. Climb the mesa via the horse trail at the right. The anomaly is about 1.5 miles south of the top of the trail across the top of the mesa." This anomaly lies in the northwestern San Juan Basin.

QUAD Towaoc 7 1/2'

MAP CORTEZ

HOST The host rock is the Upper Cretaceous Mesaverde Group. Mineralization occurs in the upper massive member of the Point Lookout Sandstone at or near the contact with the overlying Menefee Formation. The radioactivity occurs in a dark, yellowish-brown, dark brown, to dark reddish-brown, very fine-grained, well-cemented, blocky sandstone. This sandstone forms a zone in a light gray to light yellowish gray, massive cross-bedded, medium- to fine-grained sandstone. The mineralized rock is a distinctive brown color which is diagnostic of anomalies in this area. The mineralized zone is exposed along about 1,800 ft of outcrop for a width of 100 ft and a 2-3 ft thickness.

MNZ Mineralization is not megascopically visible, but probably occurs in detrital heavy minerals such as uraniferous zircon and monazite. Grab samples taken assayed 0.01% eU308.

RMKS Anomalies 38, 39, and 41 to 44 are all believed to represent the same "shoestring" sand, now separated by canyons and cover.

DOI 1955

REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Montezuma County, Colorado. Chenoweth, W. L., and Stehle, F. T., 1957.

43, Airborne Anomaly

LOCATION: SW1/4NW1/4 sec. 2, T. 33 N., R. 17 W.

LCST UNSURVEYED

LCRM "Turn east from U.S. Highway 666 at a point 9.6 miles north of Mancos River Trading Post. Drive 2.7 miles past two reservoirs to the end of the road. Climb the mesa via the horse trail at the right. The anomaly is about 1 mile southwest of the top of the trails across the mesa top." This anomaly lies in the northwestern San Juan Basin.

44, Airborne Anomaly

LOCATION: N1/2NE1/4 sec. 3, T. 33 N., R. 17 W.

LCST UNSURVEYED

LCRM "Turn east from U.S. Highway 666 at a point 9.6 miles north of Mancos River Trading Post. Drive 2.7 miles past two reservoirs to the end of the road. Climb the mesa via the horse trail at the right. The anomaly is about one mile from the top of the trail, southwest across the mesa." This anomaly lies in the northwestern San Juan Basin. Location of this anomaly extends to S1/2 sec. 34, T. 33 1/2 N., R. 17 W.

QUAD Towaoc 7 1/2'

MAP CORTEZ

HOST The host rock is the Upper Cretaceous Mesaverde Group. Mineralization occurs in the upper massive member of the Point Lookout Sandstone at or near the contact with the overlying Menefee Formation. The radioactivity occurs in a dark, yellowish-brown, dark brown, to dark reddish-brown, very fine-grained, well-cemented, blocky sandstone. This sandstone forms a zone in a light gray to light yellowish-gray, massive cross-bedded, medium- to fine-grained sandstone. The mineralized rock is a distinctive brown color which is diagnostic of anomalies in this area. The mineralized zone is exposed for about 2,000 ft along the outcrop, for a width of 75 to 100 ft, and a thickness of 2-3 ft.

MNZ Mineralization is not megascopically visible, but probably occurs in detrital heavy minerals such as uraniferous zircon and monazite. Assays of grab samples taken range from 0.01 to 0.02% eU308.

MONTEZUMA COUNTY

RMKS Anomalies 38, 39, and 41 to 44 are all believed to represent the same "shoestring" sand, now separated by canyons and cover.
 DOI 1955
 REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Montezuma County, Colorado. Chenoweth, W. L., and Stehle, F. T., 1957.

45, Airborne Anomaly

LOCATION: SE1/4SE1/4 sec. 23, T. 34 N., R. 17 W.
 LCST UNSURVEYED
 LCRM "Turn east from U.S. Highway 666 at a point north of Mancos River Trading Post. Drive 2.7 miles past two reservoirs to the end of the road. Climb the mesa via the horse trail at the right. Anomaly is about 2 1/4 miles to the north along the mesa rim from the top of the trails." This anomaly lies in the northwestern San Juan Basin.
 QUAD Towaco 7 1/2'
 MAP CORTEZ
 HOST The host rock is the Upper Cretaceous Mesaverde Group. Mineralization occurs in the upper massive member of the Point Lookout Sandstone at or near the contact with the overlying Menefee Formation. The radioactivity occurs in a dark, yellowish-brown, dark brown, to dark reddish-brown, very fine-grained, well-cemented, blocky sandstone. This sandstone forms a zone in a light gray to light yellowish-gray, massive, crossbedded, medium- to fine-grained sandstone. The mineralized rock is a distinctive brown color which is diagnostic of anomalies in this area. The mineralized zone is exposed for about 300 ft; 500 ft wide and 2-3 ft thick.

MNZ Mineralization is not megascopically visible, but probably occurs in detrital heavy minerals such as uraniferous zircon and monazite. Assays range between 0.01 and 0.02% eU3O8.

RMKS Anomalies 38, 39, and 41 to 44 are all believed to represent the same "shoestring" sand, now separated by canyons and cover.
 DOI 1955
 REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Montezuma County, Colorado. Chenoweth, W. L., and Stehle, F. T., 1957.

Broken Bow

LOCATION:
 LCST UNLOCATABLE
 PROD There had been 12 tons of ore mined by 1971, at grades of 0.11% U3O8 and 1.30% V2O5, producing 26 lbs of U3O8 and 313 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Mineralization is of the carnotite - tyuyamunite type.
 DOI 1971
 REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado.

GB Claims

LOCATION: sec. 16, T. 37 N., R. 18 W.
 LCRM Also sec. 21.
 PROD One ton of ore had been mined by 1971, at grades of 0.05% U3O8 and 0.10% V2O5, producing 1 lb of U3O8 and 21 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation, Brushy Basin Member.
 DOI 1971
 REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado.

Cliff House

LOCATION: sec. 22, T. 36 N., R. 18 W.
 LCRM The deposit also extends to sec. 27.
 QUAD Moqui SE 7 1/2'
 MAP CORTEZ
 DVEL Some underground work had been carried out, but there is no record of any uranium production.
 BKG .004 mr/hr
 RNG .006 to .02 mr/hr
 HOST The host is a white, medium-grained sandstone that is reported as either Jurassic upper Navajo or lower Carmel. It outcrops in varying degrees for a distance of one mile.
 MNZ Grab samples show weak to moderate radioactivity. The radioactivity originates from a brownish-red limonite gossan. Veins of pyrolusite, crusts of barite, and stains of copper are also associated with the uranium mineralization.
 DOI 1951
 REF W. L. Chenoweth, 1978, Personal Communication. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Montezuma County, Colorado. Metzger, O. H., 1944.

Coffin's Prospect

LOCATION: sec. 34, T. 36 N., R. 18 W.
 LCRM The prospect lies a few feet north of Colorado Highway 32 on the John Meadows Ranch.
 QUAD Moqui SE 7 1/2'
 MAP CORTEZ
 DVEL A pit was opened in 1913, but no ore was shipped from this prospect. The pit is now filled with alluvium.
 HOST The deposit lies in the Entrada Sandstone.
 STRC The prospect lies near the Ute Mountains, and many fractures and faults cross the area. These fractures do not seem to have controlled mineralization.
 MNZ The mineralized zone is about 6 inches thick and is exposed along an outcrop that is 130 ft by 40 ft wide. There are uranium-vanadium minerals and traces of malachite present, concentrated along bedding planes. Within the mineralized zone, a dark gray, 1-inch seam is higher grade than the rest of the zone. The dark gray mineral is believed to be a vanadium mica. Samples taken in 1921 assayed more than 1.0% V2O5 and 0.09% U3O8. Samples taken in the early 1960's assayed .004 to .008% eU3O8 and .52 to .93% V2O5.

MONTEZUMA COUNTY

DOI 1965
REF Ekren, E. B., and Houser, F. N., 1965.

Karla Kay

LOCATION: sec. 29, T. 36 N., R. 18 W.
QUAD Moqui SE 7 1/2'
MAP CORTEZ
PROD A sample shipment of ore consisted of 4 tons of 0.19% U308. By 1971, 12 tons had been mined at grades of 0.08% U308 and 0.45% V205, producing 19 lbs of U308 and 109 lbs of V205.
BKG .004 mr/hr
RNG .016 to .02 mr/hr
HOST The host is the Brushy Basin Member of the Upper Jurassic Morrison Formation.
STRC Clay zones and fractures appear to control and concentrate mineralization.
MNZ Four ft of mineralization occur in a brown stained, trashy, medium-and-angular-grained sandstone. It contains conglomerate and clay lenses and numerous fractures associated with gypsum crustifications. No uranium or vanadium minerals were megascopically visible, but silicified bones were present in the mineralized zone. Radioactivity of grab samples was moderate.
DOI 1971
REF W. L. Chenoweth, 1978, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. L., 1967. U.S. A.E.C., 1966, Preliminary Reconnaissance Report, Montezuma County, Colorado. Metzger, O. H., 1944.

Pay Day (?)

LOCATION: T. 34 N., R. 18 W.
LCST UNSURVEYED
QUAD Sentinel Peak NE 7 1/2'
MAP CORTEZ
PROD Two truckloads of material were shipped, but none were accepted due to the low grade.
RNG Weak.
HOST The mineralization occurs near the contact of the Brushy Basin and Salt Wash Members of the Upper Jurassic Morrison Formation.
MNZ Carnotite stains are present on the fracture surfaces of silicified logs. There is very little replacement of the sandstone and conglomerate.
RMKS Radioactivity was measured by a Detectron, and was recorded as "weak".
DOI 1951
REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Montezuma County, Colorado.

Roberta Jean

LOCATION: sec. 8, T. 38 N., R. 19 W.
PROD By 1971, 387 tons of ore had been mined at grades of 0.17% U308 and 1.65% V205, producing 1,309 lbs of U308 and 12,770 lbs of V205.
HOST The host is the Jurassic Morrison Formation, Salt Wash Member.

MNZ Carnotite and tyuyamunite were recognized.
DOI 1971
REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado.

Surprise

LOCATION: T. 36 N., R. 16 W.
LCST UNSURVEYED
QUAD Arriola 7 1/2'
MAP CORTEZ
DVEL Some underground mining has been carried out.
BKG .004 mr/hr
RNG To .02 mr/hr
HOST The host rock is a brown, trashy sandstone which is probably a unit of the Salt Wash Member of the upper Jurassic Morrison Formation. Grab samples show moderate radioactivity in the brown sandstone associated with carbonaceous trash. Fragments of trees, reeds, and bones outcrop in a zone 3 to 5 ft width and 1,000 ft in length. The trees are mostly silicified with sparse carnotite paint.
MNZ
DOI 1951
REF W. L. Chenoweth, 1978, Personal Communication. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Montezuma County, Colorado. Metzger, O. H., 1944.

Swallow 1

LOCATION:
PROD One ton had been mined by 1971, at grades of 0.15% U308 and 1.45% V205, producing 3 lbs of U308 and 29 lbs of V205.
HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite and/or tyuyamunite were recognized.
DOI 1971
REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado.

Veach

LOCATION:
PROD By 1971, 11 tons of ore had been mined at grades of 0.03% U308 and 0.18% V205, producing 6 lbs of U308 and 39 lbs of V205.
HOST The host is probably the Jurassic Morrison Formation.
DOI 1971
REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado.

Virginia Ann

LOCATION:
PROD By 1971, 31 tons had been mined at grades of 0.14% U308 and 1.71% V205, producing 85 lbs of U308 and 1,062 lbs of V205.
HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
DOI 1971
REF W. L. Chenoweth, 1978, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado.

MONTROSE COUNTY

Montrose County lies within the Uravan mineral belt and is the most important producing county in the belt and the state. Production in the county from January 1, 1948 to January 1, 1978 was 7,369,000 tons of ore mined at a grade of 0.25 percent U_3O_8 producing 36,428,000 lb of U_3O_8 . Of the ore mined, 7,321,000 tons were processed for vanadium, producing 187,104,000 lb of V_2O_5 at a grade of 1.28 percent of V_2O_5 .

The county is situated on the western slope of Colorado, and it lies within typical Colorado Plateau terrane. The county is covered by Cretaceous, Jurassic, and Tertiary sediments. These rocks are exposed on mesas and plateaus or in valleys along the San Miguel and Dolores Rivers. Salt anticlines in Paradox Valley and the Sinbad Valley expose the Pennsylvanian Paradox

Formation, which consists of salt, gypsum, and anhydrite in a thick evaporite sequence. Some Precambrian rocks are exposed on the Uncompahgre Plateau in the northeastern part of the county.

The Brushy Basin Member of the Morrison Formation is the most important host of uranium deposits in the county. The ore is contained within tabular or roll-type bodies in stream-channel sands. The Morrison contains large amounts of organic matter that is regarded as a favorable criterion for ore.

The county will remain a producer of ore for years to come. Much has been written about the county and the belt in particular. These references can be found in the cross-index of the bibliography and should be consulted for more information.

MONTROSE COUNTY

30-30

LOCATION: sec. 1, T. 45 N., R. 18 W, NMPM.
 LCST UNLOCATABLE
 LCRM Bull Canyon district, Fawn Springs locality.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 1,289 tons had been mined at a grade of 0.20% U308, producing 5,184 lbs of U308, and 2.04% V205, producing 52,481 lbs of V205.
 HOST Salt Wash Member, Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

45-90 (Julian Group) (Mineral Survey #20473)

LOCATION: sec. 10, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 952 tons had been mined at a grade of 0.21% U308, producing 4,048 lbs of U308, and 1.40% V205, producing 26,721 lbs of V205.
 HOST Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

10, AEC Mining Lease (C-CM-25, DOE Lease Tract)

LOCATION: S1/2NE1/4 sec. 5, T. 47 N., R. 17 W.
 LCRM This lease was adjacent to Mill No. 4, and lies on Club Mesa.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD See C-CM-25, DOE Lease Tract.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

11, AEC Mining Lease (C-CM-25, DOE Lease Tract) (Reserve Blocks 3 & 4)

LOCATION: N1/2NE1/4 sec. 5, T. 47 N., R. 17 W.
 LCRM This lease is adjacent to Mill No. 2 and lies on Club Mesa.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD See C-CM-25, DOE Lease Tract.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

13, AEC Mining Lease (Reserve Block 1)

LOCATION: NW1/4 sec. 31, T. 48 N., R. 17 W.
 LCRM This lease lies on Club Mesa.
 QUAD Red Canyon 7 1/2', Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 24,731 tons had been mined at a grade of 0.25% U308 and 1.43% V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

14, AEC Mining Lease (C-LP-21, DOE Lease Tract) (Reserve Block B) (Virgin Shaft)

LOCATION: S1/2SW1/4 sec. 22, T. 47 N., R. 17 W.
 LCRM This lease lies in Long Park.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD See C-LP-21, DOE Lease Tract.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

15, AEC Mining Lease (Reserve Block A) (C-LP-22A, DOE Lease Tract)

LOCATION: NW1/4 sec. 21, T. 47 N., R. 17 W.
 LCRM Reserve Block A is adjacent to TNT No. 3, and lies in the Long Park district.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD See C-LP-22A, DOE Lease Tract.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971, 1974
 REF U.S. Bur. of Mines, 1977, (Unpubl.). At Taylor, U.S. A.E.C., 1974, Personal Notes. U.S. A.E.C., 1971, Production Records, Colorado.

23, AEC Mining Lease (C-LP-22A, DOE Lease Tract)

LOCATION: E1/2 sec. 20, T. 47 N., R. 17 W.
 LCRM This lease block lies in the Long Park district, adjacent to the "Dusty" and "TNT No. 1 & 2" properties. The lease itself extends to the W1/2 sec. 21.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD See C-LP-22A, DOE Lease Tract.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

24, AEC Mining Lease (C-CM-25, DOE Lease Tract) (Reserve Block No. 6)

LOCATION: NE1/4NW1/4 sec. 5, T. 47 N., R. 17 W.
 LCRM The deposit lies on Club Mesa.

MONTROSE COUNTY

QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD See C-CM-25, DOE Lease Tract.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

37, AEC Mining Lease (C-CM-25, DOE Lease Tract)
(Block 8 - Club Mesa)

LOCATION: E1/2E1/2 sec. 6, T. 47 N., R. 17 W.
 LCRM The lease lies on Club Mesa, and extends to W1/2W1/2 sec. 5.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD See C-CM-25, DOE Lease Tract.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

39, AEC Mining Lease (C-AM-19, DOE Lease Tract)
(Block A - Atkinson Mesa)

LOCATION: E1/2NE1/4 sec. 24, T. 48 N., R. 18 W.
 LCRM This lease lies on Atkinson Mesa.
 MAP MOAB
 PROD See C-AM-19, DOE Lease Tract.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 RMKS This lease was held by the Golden Cycle Corporation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

41, AEC Mining Lease (C-CM-24, DOE Lease Tract)
(Reserve Block 2)

LOCATION: South 670 ft of SE1/4 sec. 29, T. 48 N., R. 17 W.
 LCRM This lease lies on Club Mesa.
 MAP MOAB
 PROD See C-CM-24, DOE Lease Tract.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium and vanadium were mined.
 RMKS This lease was originally issued as 26, AEC Mining Lease, which had no production.
 DOI 1971
 REF Al Taylor, U.S. A.E.C., 1974, Personal Notes. U.S. A.E.C., 1971, Production Records, Colorado.

47, AEC Mining Lease (C-AM-19, DOE Lease Tract)

LOCATION: W1/2NE1/4 sec. 24, T. 48 N., R. 18 W.
 LCRM This lease lies on the Dolores Bench in the Uravan district.
 QUAD Red Canyon 7 1/2'
 MAP MOAB

PROD See C-AM-19, DOE Lease Tract.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Abajo 1-5 (Laura, Mustard)

LOCATION: sec. 19, T. 48 N., R. 17 W.
 QUAD Atkinson Creek 7 1/2'
 MAP MOAB
 PROD By 1971, 42,921 tons had been mined at a grade of 0.25% U3O8, producing 212,693 lbs of U3O8, and 1.28% V2O5 producing 1,185,001 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Adak

LOCATION: sec. 11, T. 48 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records only show sec. 12.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 16,722 tons had been mined at a grade of 0.22% U3O8, producing 73,113 lbs of U3O8, and 0.84% V2O5, producing 282,281 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

All Stars - Evening Star

LOCATION: sec. 28, T. 48 N., R. 17 W.
 QUAD Red Canyon 7 1/2' & Atkinson Creek 7 1/2'
 MAP MOAB
 PROD As of 1971, 7,592 tons had been mined at a grade of 0.29% U3O8, producing 44,102 lbs of U3O8, and 1.38% V2O5, producing 209,267 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Alta

LOCATION: sec. 23, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 472 tons had been mined at a grade of 0.31% U3O8, producing 2,891 lbs of U3O8, and 1.85% V2O5, producing 17,465 lbs of V2O5.
 MNZ Uranium, vanadium, carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

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Altair Capella Vega

LOCATION: sec. 13, T. 46 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 41,011 tons had been mined at a grade of 0.29% U308, producing 237,726 lbs of U308, and 1.34% V205, producing 1,102,476 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite).
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

American Eagle Group

LOCATION: W1/2 sec. 10, T. 45 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 19,701 tons had been mined at a grade of 0.22% U308, producing 87,787 lbs of U308, and 2.34% V205, producing 923,681 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

American Eagle No. 4

LOCATION: sec. 3, T. 45 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 2,989 tons had been mined at a grade of 0.26% U308, producing 15,816 lbs of U308, and 2.26% V205, producing 135,011 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Anchor (Invincible)

LOCATION: sec. 3, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 319 tons had been mined at a grade of 0.22% U308, producing 1,379 lbs of U308, and 1.23% V205, producing 7,836 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1977, Production Records, Colorado.

Andrews and Andrews Claims

LOCATION: sec. 23, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Angle Mine

LOCATION: sec. 1, T. 47 N., R. 20 W.
 LCRM U.S. A.E.C. Production Records show sec. 12.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 PROD By 1971, 22 tons had been mined at a grade of 0.77% U308, producing 339 lbs of U308, and 2.64% V205, producing 1,163 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Anna May 1 (Monogram Group, Bobtail)

LOCATION: sec. 17, T. 46 N., R. 17 W.
 PROD By 1971, 40,873 tons had been mined at a grade of 0.33% U308, producing 273,047 lbs of U308, and 0.98% V205, producing 803,292 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Anna May 1 Dumps (Happy Thoughts)

LOCATION: sec. 18, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 PROD Prior to 1971, 11,523 tons had been recovered from the Anna May No. 1 Mine dump at a grade of 0.08% U308, producing 19,304 lbs of U308, and 0.28% V205, producing 65,575 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Annex (Saucer Basin Group)

LOCATION: sec. 1, T. 47 N., R. 18 W.
 LCRM This deposit lies in Club Mesa. Also sec. 6, 7, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 PROD By 1971, 5 tons had been mined at a grade of 0.15% U308, producing 15 lbs of U308, and 1.20% V205, producing 120 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Anomaly 18

LOCATION: sec. 10, T. 46 N., R. 18 W.
 LCRM Part of sec. 10 is in Bull Canyon 7 1/2'.
 QUAD Davis Mesa 7 1/2'
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

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April (April Group)

LOCATION: sec. 10, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 PROD By 1971, 490 tons had been mined at a grade of 0.24% U308, producing 2,385 lbs of U308, and 1.61% V205, producing 15,826 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Arcturus

LOCATION: sec. 18, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 PROD By 1971, 10,581 tons had been mined at a grade of 0.25% U308, producing 52,006 lbs of U308, and 1.10% V205, producing 235,631 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Arrowhead (Colorado Group)

LOCATION: sec. 28, T. 47 N., R. 17 W.
 LCRM U.S. Bur. of Mines shows location as T. 46 N.
 QUAD Bull Canyon 7 1/2', Naturita 7 1/2'
 PROD By 1971, 7,987 tons had been mined at a grade of 0.16% U308, producing 25,567 lbs of U308, and 0.95% V205, producing 152,442 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Austin (Dolores)

LOCATION: sec. 21, T. 48 N., R. 17 W.
 QUAD Red Canyon 7 1/2', Atkinson Creek 7 1/2'
 PROD By 1971, 9,796 tons had been mined at a grade of 0.24% U308, producing 46,436 lbs of U308, and 1.15% V205, producing 226,243 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

AWOL and Pet (AWOL 1-20, Pet 1-20)

LOCATION: sec. 15, T. 48 N., R. 17 W.
 LCRM Also sec. 16, 21, 22. This deposit lies in Atkinson Mesa.
 PROD Reserves, no production.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Aztec (1)

LOCATION: sec. 20, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 PROD By 1971, 23,081 tons had been mined at a grade of 0.35% U308, producing 159,496 lbs of U308, and 1.40% V205, producing 644,367 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Aztec (Slivery, Silvia Group)

LOCATION: sec. 33, T. 46 N., R. 19 W.
 LCRM Also sec. 4, T. 45 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 PROD By 1971, 123 tons had been mined at a grade of 0.26% U308, producing 631 lbs of U308, and 1.86% V205, producing 4,587 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

B.T.M. Claim Group

LOCATION: sec. 1, T. 45 N., R. 17 W.
 QUAD Naturita NW 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Babe Ruth (Mitchell - Archer Group)

LOCATION: NW1/4 sec. 14, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 9,873 tons had been mined at a grade of 0.18% U308, producing 36,188 lbs of U308, and 1.79% V205, producing 353,271 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Baby Fawn (Big Fawn, Joker)

LOCATION: sec. 6, T. 45 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 1,633 tons had been mined at a grade of 0.28% U308, producing 9,052 lbs of U308, and 1.98% V205, producing 64,521 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

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Badger

LOCATION: sec. 19, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 1,323 tons had been mined at a grade of 0.32% U308, producing 8,362 lbs of U308, and 1.76% V205, producing 46,441 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Badger 1 (Badger #3)

LOCATION: sec. 19, T. 47 N., R. 17 W.
 MAP MOAB
 PROD By 1971, 230 tons had been mined at a grade of 0.34% U308, producing 1,560 lbs of U308, and 1.82% V205, producing 8,391 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Badger 2 Dump

LOCATION: sec. 17, T. 47 N., R. 17 W.
 MAP MOAB
 PROD Prior to 1971, 119 tons had been recovered from the Badger 2 Mine dump at a grade of 0.20% U308, producing 467 lbs of U308, and 1.39% V205, producing 3,305 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Badger and Crown Prince

LOCATION: sec. 23, T. 48 N., R. 18 W.
 MAP MOAB
 PROD By 1971, 4,538 tons had been mined at a grade of 0.46% U308, producing 41,358 lbs of U308, and 2.36% V205, producing 213,862 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Badger Dump

LOCATION: sec. 19, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 PROD Prior to 1971, 109 tons had been recovered from the Badger Mine dump at a grade of 0.69% U308, producing 135 lbs of U308, and 0.54% V205, producing 1,179 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bagger

LOCATION: sec. 20, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 1,434 tons had been mined at a grade of 0.26% U308, producing 7,314 lbs of U308, and 1.48% V205, producing 42,582 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Ball Point

LOCATION: sec. 11, T. 46 N., R. 18 W.
 LCRM This deposit lies in Bull Canyon district, Wild Steer Mesa.
 QUAD Davis Mesa 7 1/2', Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 16 tons had been mined at a grade of 2.48% U308, producing 795 lbs of U308, and 4.23% V205, producing lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Banner

LOCATION: sec. 12, T. 46 N., R. 18 W.
 LCRM This deposit lies in Bull Canyon district, Monogram Mesa.
 QUAD Davis Mesa 7 1/2', Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 7 tons had been mined at a grade of 0.28% U308, producing 39 lbs of U308, and 2.01% V205, producing 281 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Basin Group (Club Mine)

LOCATION: sec. 32, T. 48 N., R. 17 W.
 PROD Reserves, no production.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Batty (Batty 1-4) (Franklin 1-3 & 5, Ben Frac., Ralph 1 & 2)

LOCATION:
 PROD Reserves not developed, no production.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

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Beaver

LOCATION: sec. 32, T. 48 N., R. 17 W.
 QUAD Davis Mesa 7 1/2', Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 6,216 tons had been mined at a grade of 0.23% U308, producing 28,917 lbs of U308, and 1.48% V205, producing 183,818 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bed Rock (Red Canyon Claim?)

LOCATION:
 LCST UNLOCATABLE
 MAP MOAB
 PROD By 1971, 1 ton had been mined at a grade of 0.55% U308, producing 11 lbs of U308, and 2.75% V205, producing 55 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Bernard

LOCATION: sec. 20, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 4,608 tons had been mined at a grade of 0.27% U308, producing 25,040 lbs of U308, and 1.44% V205, producing 133,096 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bertles Beauty Claims 1 - 24 (Hard Rock 1 - 3)

LOCATION: sec. 8, T. 46 N., R. 16 W.
 QUAD Naturita NW 7 1/2' & Uravan 7 1/2'
 MAP MOAB
 PROD By 1971, 82 tons had been mined at a grade of 0.22% U308, producing 360 lbs of U308, and 1.05% V205, producing 1,670 lbs of V205.
 HOST Burro Canyon Formation; conglomeratic sandstone and green mudstone with abundant carbonized trash and sparse silicified logs. Lower Cretaceous.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W.L., 1967.

Beta Wonder

LOCATION: sec. 33, T. 48 N., R. 17 W.
 QUAD Uravan, Davis Mesa, and Red Canyon 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1977
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Better B #7 (Better B)

LOCATION: W1/2 sec. 31, T. 48 N., R. 17 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 6,070 tons had been mined at a grade of 0.27% U308, producing 33,170 lbs of U308, and 1.39% V205, producing 168,692 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Betty Jean (Farmer Girl, Hope #1, Monogram 4-7)

LOCATION: SE1/4 sec. 22, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 9,285 tons had been mined at a grade of 0.24% U308, producing 44,437 lbs of U308, and 1.16% V205, producing 214,538 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Big Bull

LOCATION: sec. 12, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 1,179 tons had been mined at a grade of 0.21% U308, producing 4,990 lbs of U308, and 1.71% V205, producing 40,360 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Big Dick (Dolores)

LOCATION: sec. 19, T. 48 N., R. 17 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 11,264 tons had been mined at a grade of 0.23% U308, producing 51,703 lbs of U308, and 1.38% V205, producing 311,507 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Big Mitt

LOCATION: sec. 21, T. 48 N., R. 17 W.
 LCRM Also sec. 28
 QUAD Atkinson Creek 7 1/2', Red Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 2,978 tons had been mined at a grade of 0.26% U308, producing 15,529 lbs

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of U308, and 1.21% V205, producing 72,297 lbs of V205.

HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Big Rock (Starlight) (Wedding Bell Group)

LOCATION: sec. 33, T. 46 N., R. 18 W.
 LCRM This deposit lies in the Bull Canyon district.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 192 tons had been mined at a grade of 0.16% U308, producing 610 lbs of U308, and 1.23% V205, producing 4,707 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Big Shot

LOCATION: sec. 6, T. 47 N., R. 17 W.
 LCRM This deposit lies in Club Mesa. U.S. A.E.C. Production Records show location as being sec. 31, T. 48 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 4 tons had been mined at a grade of 0.45% U308, producing 36 lbs of U308, and 2.13% V205, producing 170 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bill Bady - Lucky Boy

LOCATION: sec. 18, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 5,877 tons had been mined at a grade of 0.27% U308, producing 32,095 lbs of U308, and 1.27% V205, producing 148,719 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Binder Group

LOCATION: sec. 33, T. 46 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Birthday 1 (Big Bug, Birthday, Morning Star #1 Group)

LOCATION: sec. 2, T. 46 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 12, T. 47 N., R. 20 W.

QUAD Uravan 7 1/2'
 MAP MOAB
 PROD By 1971, 6 tons had been mined at a grade of 0.17% U308, producing 20 lbs of U308, and 2.08% V205, producing 250 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bismark

LOCATION: sec. 29, T. 47 N., R. 17 W.
 LCRM This deposit lies in Long Park.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 94 tons had been mined at a grade of 0.20% U308, producing 376 lbs of U308, and 1.30% V205, producing 2,447 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bitter Creek (Radium King) (Easy)

LOCATION: sec. 12, T. 46 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD By 1971, 60,738 tons had been mined at a grade of 0.22% U308, producing 263,746 lbs of U308, and 2.07% V205, producing 2,508,873 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. L., 1967.

Black Bess 2

LOCATION: sec. 17, T. 47 N., R. 17 W.
 LCRM This deposit lies in Atkinson Mesa.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 53 tons had been mined at a grade of 0.20% U308, producing 210 lbs of U308, and 1.42% V205, producing 1,503 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Black Dinah

LOCATION: sec. 28, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2', Uranvan 7 1/2'
 MAP MOAB
 PROD By 1971, 6,334 tons had been mined at a grade of 0.22% U308, producing 28,275 lbs of U308, and 1.62% V205, producing 205,085 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite.
 DOI 1971

MONTROSE COUNTY

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Black Eagle Group

LOCATION: sec. 4, T. 45 N., R. 16 W.

QUAD Naturita NW 7 1/2'

MAP MOAB

PROD By 1971, 11 tons had been mined at a grade of 0.22% U308, producing 49 lbs of U308, and 1.27% V205, producing 280 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.

MNZ Uranium, vanadium.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Black Gnat

LOCATION:

LCST UNLOCATABLE

LCRM This deposit lies in the Uravan district.

MAP MOAB

PROD By 1971, 5 tons had been mined at a grade of 0.08% U308, producing 8 lbs of U308, and 0.55% V205, producing 124 lbs of V205.

MNZ Uranium.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado.

Black Hawk

LOCATION: sec. 27, T. 49 N., R. 18 W.

LCRM This deposit lies in the Paradox district.

QUAD Red Canyon 7 1/2'

MAP MOAB

PROD As of 1971, 4 tons had been mined at a grade of 0.45% U308, producing 36 lbs of U308, and 2.36% V205, producing 189 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.

MNZ Uranium, vanadium.

DOI 1975

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Black Jack (Joker, Log Cabin, West)

LOCATION: sec. 2, T. 45 N., R. 18 W.

LCRM U.S. A.E.C. Production Records show location as being sec. 35, T. 46 N., R. 18 W.

QUAD Bull Canyon 7 1/2'

MAP MOAB

PROD As of 1971, 88 tons had been mined at a grade of 0.15% U308, producing 398 lbs of U308, and 1.60% V205, producing 2,817 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.

DOI 1975, 1971.

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Black Point

LOCATION: sec. 13, T. 46 N., R. 18 W.

QUAD Bull Canyon 7 1/2'

MAP MOAB

PROD As of 1971, 397 tons had been mined at a grade of 0.25% U308, producing 1,507 lbs of U308, and 1.17% V205, producing 7,188 lbs of V205.

MNZ Uranium, vanadium.

DOI 1975, 1971.

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Black Prince (John C., Morning Star, Midnight)

LOCATION: sec. 28, T. 46 N., R. 19 W.

LCRM Also sec. 33 and 34.

QUAD Anderson Mesa 7 1/2'

MAP MOAB

PROD As of 1971, 246 tons had been mined at a grade of 0.22% U308, producing 1,096 lbs of U308, and 1.71% V205, producing 8,413 lbs of V205.

HOST Jurassic Morrison Formation.

MNZ Carnotite - tyuyamunite, high vanadium, low ilme.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado.

Black Rock

LOCATION: sec. 23, T. 48 N., R. 18 W.

QUAD Red Canyon 7 1/2'

MAP MOAB

PROD As of 1971, 290 tons had been mined at a grade of 0.24% U308, producing 1,416 lbs of U308, and 1.88% V205, producing 10,908 lbs of V205.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.

DOI 1975, 1971.

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Black Tom (Westpart Blackburn)

LOCATION: sec. 20, T. 46 N., R. 17 W.

QUAD Bull Canyon 7 1/2'

MAP MOAB

PROD As of 1971, 8,058 tons had been mined at a grade of 0.33% U308, producing 52,641 lbs of U308, and 1.27% V205, producing 205,293 lbs of V205.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.

DOI 1975, 1971.

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Blackburn (Joe Dandy Group)

LOCATION: sec. 21, T. 46 N., R. 17 W.

QUAD Naturita 7 1/2', Bull Canyon 7 1/2'

MAP MOAB

PROD By 1971, 35,216 tons had been mined at a grade of 0.26% U308, producing 179,953 lbs of U308, and 1.28% V205, producing 901,494 lbs of V205.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite.

MONTROSE COUNTY

DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Blackfoot Rattlesnake

LOCATION: sec. 11, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 2, 3 and 10.

QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 8,567 tons had been mined at a grade of 0.26% U308, producing 44,515 lbs of U308, and 1.42% V205, producing 243,301 lbs of V205.

HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1975, 1971.
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bliss Mine

LOCATION: sec. 20, T. 47 N., R. 17 W.

QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 817 tons had been mined at a grade of 0.15% U308, producing 2,508 lbs of U308, and 0.84% V205, V205.

HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1975, 1971.
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Blonda

LOCATION:

LCST UNLOCATABLE
 LCRM This deposit lies in Gypsum Valley.
 PROD As of 1971, 7 tons had been mined at a grade of 0.14% U308, producing 20 lbs of U308, and 2.11% V205, producing 295 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Blondy (ESA, Martin Mesa)

LOCATION: SE1/4 sec. 26, T. 48 N., R. 18 W.

QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 64 tons had been mined at a grade of 0.14% U308, producing 179 lbs of U308, and 1.09% V205, producing 1,396 lbs of V205.

HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1975, 1971.
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Blue Bell

LOCATION: sec. 35, T. 47 N., R. 17 W.

QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 6,332 tons had been mined at a grade of 0.25% U308, producing 32,275 lbs of U308, and 1.53% V205, producing 193,600 lbs of V205.

HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Blue Bird Dump

LOCATION: sec. 25, T. 48 N., R. 18 W.

QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD Prior to 1971, 394 tons had been recovered from the Blue Bird Mine dump at a grade of 0.06% U308, producing 511 lbs of U308, and 0.51% V205, producing 4,020 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Sandstone Member.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Blue Cap (North Crowley Group)

LOCATION:

LCST UNLOCATABLE
 PROD As of 1971, 44,550 tons of ore had been mined at a grade of 0.23% U308, producing 207,061 lbs of U308, and 1.91% V205, producing 1,700,433 lbs of V205.

DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Blue-Atkin Mesa

LOCATION: sec. 21, T. 48 N., R. 17 W.

QUAD Red Canyon 7 1/2', Atkinson Creek 7 1/2'
 MAP MOAB

MNZ Uranium, vanadium.

DOI 1975
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Bluebird

LOCATION: sec. 25, T. 48 N., R. 18 W.

QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 109 tons had been mined at a grade of 0.20% U308, producing 438 lbs of U308, and 1.43% V205, producing 3,108 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member. Brown, medium-grained sandstone with abundant carbonized logs and trash pockets.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971

MONTROSE COUNTY

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S. Geol. Survey Prof. Paper 538, p. 11.

Bob 6-7-8

LOCATION: sec. 5, T. 45 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show sec. 29-32, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 38,296 tons had been mined at a grade of 0.18% U308, producing 139,862 lbs of U308, and 1.48% V205, producing 1,135,701 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Bob 9

LOCATION: sec. 5, T. 45 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 13 tons had been mined at a grade of 0.12% U308, producing 32 lbs of U308, and 2.42% V205, producing 628 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bobcat

LOCATION: sec. 19, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 16,487 tons had been mined at a grade of 0.19% U308, producing 62,460 lbs of U308, and 1.04% V205, producing 342,129 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., Production Records, Colorado.

Bobcat (La Porte, Wild Horse)

LOCATION: sec. 1, T. 47 N., R. 20 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 29 and 30, T. 28 S., R. 27 E.
 QUAD Mount Peale 1 SE 7 1/2'
 PROD As of 1971, 7 tons had been mined at a grade of 0.53% U308, producing 74 lbs of U308, and 2.29% V205, producing 320 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bonanza

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Empire Group, Slick Rock district.
 PROD As of 1971, 10 tons had been mined at a grade of 0.14% U308, producing 29 lbs of U308, and 1.26% V205, producing 252 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, intermediate ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Bonita 1 (Bonito)

LOCATION: sec. 32, T. 49 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 4 & 5, T. 49 N., R. 17 W.
 QUAD Calamity Mesa 7 1/2'
 MAP MOAB
 DVLE As of 1971, 80 tons had been mined at a grade of 0.10% U308, producing 162 lbs of U308, and 1.02% V205, producing 1,634 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. ilme.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

BP 1

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Martin Mesa area.
 PROD By 1971, 4 tons had been mined at a grade of 0.38% U308, producing 30 lbs of U308, and 1.98% V205, producing 158 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Breezy (Wedding Bell Group)

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Bull Canyon district.
 PROD As of 1971, 244 tons of ore had been mined at a grade of 0.25% U308, producing 1,207 lbs of U308, and 6,692 lbs of V205, producing 188 lbs of V205.
 HOST Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Brooke 1, 2 (Brooks)

LOCATION: sec. 10, T. 45 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB

MONTROSE COUNTY

PROD As of 1971, 3,335 tons of ore had been mined at a grade of 0.16% U308, yielding 10,690 lbs of U308, and a grade of 1.95% V205, yielding 130,211 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Broomstick

LOCATION: sec. 6, T. 45 N., R. 18 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 28 tons had been mined at a grade of 0.15% U308, producing 86 lbs of U308, and 0.73% V205, producing 408 lbs of V205.
 HOST Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Brown Derby

LOCATION: UNLOCATABLE
 LCRM This deposit lies in the Bull Canyon district.
 PROD As of 1971, 11 tons had been mined at a grade of 0.28% U308, producing 61 lbs of U308, and 0.89% V205, producing 196 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Brushy Basin

LOCATION: sec. 11, T. 46 N., R. 20 W.
 LCRM U.S. A.E.C. Production Records also show sec. 12, 14, 28, 33, T. 29 S., R. 26 E.
 PROD As of 1971, 636 tons of ore had been mined at a grade of 0.21% U308, producing 2,725 lbs of U308, and 1.27% V205, producing 16,216 lbs of V205.
 HOST Jurassic Morrison Formation, Brushy Basin Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Buckeye 4

LOCATION: sec. 1, T. 46 N., R. 17 W.
 LCRM UNLOCATABLE
 PROD As of 1971, 8 tons had been mined at a grade of 0.41% U308, producing 66 lbs of U308, and 1.86% V205, producing 297 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Buckhorn - Ureka (Applejack, Shuffle)

LOCATION: sec. 10, T. 48 N., R. 19 W.
 QUAD Roc Creek 7 1/2'

MAP MOAB
 PROD As of 1971, 12,852 tons had been mined at a grade of 0.24% U308, producing 62,309 lbs of U308, and 0.95% V205, producing 244,192 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member. Gray, fine- to-medium grained sandstone and shaly sandstone with abundant carbonized plant remains.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967.

Buckhorn 1

LOCATION: sec. 21, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 5 tons had been mined at a grade of 0.28% U308, producing 28 lbs of U308, and 1.94% V205, producing 194 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Buckhorn No. 2

LOCATION: sec. 21, T. 48 N., R. 18 W.
 LCRM This deposit lies in the Carpenter Flat area, Paradox district.
 PROD As of 1971, 16 tons had been mined at a grade of 0.27% U308.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Buckshot (Saucer Basin Group)

LOCATION: sec. 31, T. 48 N., R. 17 W.
 QUAD Doris Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 10,094 tons had been mined at a grade of 0.22% U308, producing 44,447 lbs of U308, and 1.21% V205, producing 245,088 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Buckskin

LOCATION: sec. 35, T. 46 N., R. 18 W.
 LCRM This deposit lies in the Bull Canyon district, Bachelor Draw area.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 35 tons had been mined at a grade of 0.10% U308, producing 70 lbs of U308, and 0.56% V205, producing 391 lbs of V205.

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HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

PROD No production prior to 1978.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1978
 REF U.S. D.O.E., 1978, files. U.S. Bur. of Mines, 1977, (Unpubl.).

Butterfly

LOCATION: sec. 10, T. 47 N., R. 17 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

C-AM-20, DOE Lease Tract

LOCATION: sec. 20, T. 48 N., R. 17 W.
 LCRM This lease lies on Atkinson Mesa in the Uravan district.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD No production prior to 1978.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uraninite (coffinite), high vanadium, low lime.
 DOI 1978
 REF U.S. D.O.E., 1978, files. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Butterfly (Wat Nos. 1, 3, 5, 7, 16; Prayer 13-19)

LOCATION: sec. 13, T. 47 N., R. 20 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 13, T. 47 N., R. 20 W., La Sal Creek area.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 PROD As of 1971, 6,737 tons had been mined at a grade of 0.26% U3O8, producing 35,673 lbs of U3O8, and 1.69% V2O5, producing 227,898 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

C-BL-23A, DOE Lease Tract

LOCATION: sec. 35, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD No production prior to 1978.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1978
 REF U.S. D.O.E., 1978, files. U.S. Bur. of Mines, 1977, (Unpubl.).

C-AM-19, DOE Lease Tract (38, AEC Mining Lease) (Block C - Dolores Bench) (47, AEC Mining Lease) (39, AEC Mining Lease) (Block A - Atkinson Mesa)

LOCATION: NE1/4 sec. 24, T. 48 N., R. 18 W.
 LCRM These leases lie in the Atkinson Mesa district.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD From 1954 to 1962, 135,003 tons of ore averaging 0.28% U3O8 and 1.61% V2O5 were produced from 39, AEC Mining Lease. During the same period, 132,884 tons of ore averaging 0.30% U3O8 and 1.43% V2O5 were produced from 47, AEC Mining Lease. From July, 1974 through December, 1977, production from C-AM-19, DOE Lease Tract was 248,720 tons of ore averaging 0.21% U3O8 and 1.06% V2O5.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1978
 REF U.S. D.O.E., 1978, files. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

C-BL-23B, DOE Lease Tract

LOCATION: sec. 12, T. 46 N., R. 17 W.
 LCRM Also sec. 1.
 QUAD Uravan 7 1/2', Naturita NW 7 1/2'
 MAP MOAB
 PROD No production prior to 1978.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1978
 REF U.S. D.O.E., 1978, files. U.S. Bur. of Mines, 1977, (Unpubl.).

C-AM-19A, DOE Lease Tract

LOCATION: sec. 18, T. 48 N., R. 17 W.
 LCRM Also sec. 19. This lease lies on Atkinson Mesa.
 QUAD Red Canyon 7 1/2'
 MAP MOAB

C-CM-24, DOE Lease Tract (26, AEC Mining Lease) (41, AEC Mining Lease)

LOCATION: NE1/4 sec. 32, T. 48 N., R. 17 W.
 LCRM The lease lies on Club Mesa near the Shamrock Group.
 QUAD Red Canyon 7 1/2' & Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1955, 1,828 tons of ore had been mined at average grades of 0.21% U3O8 and 1.31% V2O5. No production from 1955 through 1977.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1978, files. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

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C-CM-25, DOE Lease Tract (10, AEC Mining Lease) [Lease Block, adjacent to Mill No. 4] (11, AEC Mining Lease) [Lease Blocks 3 & 4, adjacent to Mill No. 2] (24, AEC Mining Lease) [Reserve Block, No. 6] (37, AEC Mining Lease) [Block 8 - Club Mesa]

LOCATION: NE1/4 sec. 5, T. 47 N., R. 17 W.
 LCRM Also sec. 6. This lease lies in the Club Mesa district.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD From 1951 through 1961, production from the four former AEC Mining Leases included in this DOE Lease Tract totaled 138,279 tons of ore averaging 0.28% U3O8 and 1.68% V2O5. This includes, from 10, AEC Mining Lease, 125,221 tons at 0.24% U3O8 and 1.63% V2O5; from 11, AEC Mining Lease, 17,270 tons at 0.42% U3O8 and 1.79% V2O5; from 24, AEC Mining Lease, 6,383 tons at 0.26% U3O8 1.86% V2O5; from 37, AEC Mining Lease, 39,405 tons at 0.35% U3O8 and 1.76% V2O5, for a total of 188,279 tons of ore. There has been no production from 1971 through 1977.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1978
 REF U.S. D.O.E., 1978, files. U.S. A.E.C., 1971, Production Records, Colorado.

C-JD-5, DOE Lease Tract (Jo Dandy Area)

LOCATION: sec. 21, T. 46 N., R. 17 W.
 LCRM Also sec. 22. This lease lies on Monogram Mesa in the Jo Dandy area.
 QUAD Naturita NW 7 1/2'
 MAP MOAB
 PROD No production prior to May, 1977. From May, 1977 through December, 1977, production from C-JD-5, DOE Lease Tract was 22,244 tons of ore averaging 0.20% U3O8 and 0.94% V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 RMKS This lease includes Reserve Block USGB-1-JDGS and Reserve Block USGB-6-JDGS.
 DOI 1978
 REF U.S. D.O.E., 1978, files. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

C-JD-5A, DOE Lease Tract

LOCATION: sec. 22, T. 46 N., R. 17 W.
 LCRM This lease lies in the Jo Dandy area.
 QUAD Naturita NW 7 1/2'
 MAP MOAB
 DVEL No production prior to 1978.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1978
 REF U.S. D.O.E., 1978, files. U.S. Bur. of Mines, 1977, (Unpubl.).

C-JD-6, DOE Lease Tract

LOCATION: sec. 21, T. 46 N., R. 17 W.
 LCRM Also sec. 22. This lease lies on Monogram Mesa in the Jo Dandy area.
 QUAD Bull Canyon 7 1/2', Naturita 7 1/2'
 MAP MOAB
 PROD No production prior to May, 1976. From May, 1976 through December, 1977, production from C-JD-6, DOE Lease Tract was 726 tons of ore averaging 0.16% U3O8 and 0.98% V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 RMKS This property was formerly covered by Reserve Block USGB-4-JDGS and by Reserve Block USGB-5-JDGS.
 DOI 1978
 REF U.S. D.O.E., 1978, files. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

C-JD-7, DOE Lease Tract

LOCATION: SE1/4 sec. 16, T. 46 N., R. 17 W.
 LCRM Also sec. 21, 22. This lease lies on Monogram Mesa in the Jo Dandy area.
 QUAD Bull Canyon 7 1/2', Naturita NW 7 1/2'
 MAP MOAB
 PROD No production prior to 1977.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 RMKS This property was formerly covered by the following Reserve Blocks USGB-2-JDGS, USGB-3-JDGS, USGB-9-JDOR, USGB-10-JDOR, USGB-11-JDOR, and USGB-12-JDOR.
 DOI 1978
 REF U.S. D.O.E., 1978, files. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

C-JD-7A, DOE Lease Tract

LOCATION: sec. 16, T. 46 N., R. 17 W.
 LCRM This lease lies in the Joe Dandy area.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD No production prior to 1978.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1978
 REF U.S. D.O.E., 1978, files. U.S. Bur. of Mines, 1977, (Unpubl.).

C-JD-8A, DOE Lease Tract

LOCATION: sec. 17, T. 46 N., R. 17 W.
 LCRM This lease lies in the Jo Dandy area.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD No production prior to 1978.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1978
 REF U.S. D.O.E., 1978, files. U.S. Bur. of Mines, 1977, (Unpubl.).

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C-JD-9, DOE Lease Tract

LOCATION: SE1/4 sec. 30, T. 46 N., R. 17 W.
 LCRM Also sec. 19, 29. This lease lies on Monogram Mesa in the Jo Dandy area.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD No production prior to 1978.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 RMKS This property was formerly covered by Reserve Block USGB-7-JDGS.
 DOI 1978
 REF U.S. D.O.E., 1978, files. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

C-LP-21, DOE Lease Tract (14, AEC Mining Lease) (Reserve Block B) (Virgin Shaft)

LOCATION: S1/2SW1/4 sec. 22, T. 47 N., R. 17 W.
 LCRM Also sec. 27. This lease lies in the Long Park area.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1961, 33,746 tons of ore had been mined at an average grade of 0.28% U3O8 and 2.14% V2O5. No production from 1961 through 1977.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

C-LP-22, DOE Lease Tract

LOCATION: sec. 21, T. 47 N., R. 17 W.
 LCRM This deposit lies in the Long Park area of the Uravan district.
 QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
 MAP MOAB
 PROD No production prior to March, 1977. From March, 1977 through December, 1977, production from C-LP-22, DOE Lease Tract was 2,224 tons of ore averaging 0.21% U3O8 and 0.95% V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1978
 REF U.S. D.O.E., 1978, files. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

C-LP-22A, DOE Lease Tract (15, AEC Mining Lease) (Reserve Block A) (23, AEC Mining Lease)

LOCATION: NW1/4 sec. 21, T. 47 N., R. 17 W.
 LCRM This lease tract lies in the Long Park district. It also extends to E1/2 sec. 20.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD From 1953 through 1961, production from 15, AEC Mining Lease was 3,248 tons of ore at an average grade of 0.32% U3O8 and 1.63% V2O5. From 1952 through 1961, production

from 23, AEC Mining Lease was 22,842 tons of ore at an average grade of 0.32% U3O8 and 1.68% V2O5. There has been no production from 1961 through 1977.

HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1978
 REF U.S. D.O.E., 1978, files. U.S. Bur. of Mines, 1977, (Unpubl.).

C-LP-23, DOE Lease Tract

LOCATION: N1/2 sec. 1, T. 46 N., R. 17 W.
 LCRM Also S1/2S1/2 sec. 36, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD No production prior to May, 1977. From May, 1977, through December, 1977, production from C-LP-23, DOE Lease Tract was 4,782 tons of ore averaging 0.14% U3O8 and 0.74% V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1978
 REF U.S. D.O.E., 1978, files. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

C-SM-18, DOE Lease Tract

LOCATION: NE1/4 sec. 21, T. 48 N., R. 17 W.
 LCRM Also sec. 22, 26, 27, 28. This deposit lies in the Spring Creek Mesa area of the Uravan district.
 QUAD Atkinson Creek 7 1/2'
 MAP MOAB
 PROD No production prior to 1978.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1978
 REF U.S. D.O.E., 1978, files. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

C-WM-17, DOE Lease Tract

LOCATION: S1/2N1/2N1/2S1/2 sec. 14, T. 45 N., R. 18 W, NMPM.
 LCRM S1/2N1/2 sec. 14 is in Montrose County; N1/2S1/2 sec. 14 is in San Miguel County, Bull Canyon district, Bachelor Draw and Radium Mountain areas.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD No production prior to 1978.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1977
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. D.O.E., 1977, Lease Production Records, Colorado.

C-WM-17A, DOE Lease Tract

LOCATION: sec. 15, T. 45 N., R. 18 W.

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LCRM This lease is on Wedding Bell Mountain in the Bull Canyon district.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD No production prior to 1976.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Cabin View

LOCATION: sec. 33, T. 46 N., R. 18 W.
 LCRM This deposit lies in Fawn Springs, Bull Canyon district.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 21 tons had been mined at a grade of 0.25% U308, producing 107 lbs of U308, and 1.91% V205, producing 804 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Calvert 2 (Calvert 3)

LOCATION: sec. 10, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 3.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 3,157 tons had been mined at a grade of 0.24% U308, producing 15,327 lbs of U308, and 1.18% V205, producing 74,758 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Camel (Camel Group, Leighton-Camel Group)

LOCATION: sec. 11, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 334 tons had been mined at a grade of 0.14% U308, producing 936 lbs of U308, and 1.06% V205, producing 7,081 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite-tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Canon 4, 5, 7

LOCATION: sec. 21, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 3,377 tons had been mined at a grade of 0.21% U308, producing 14,444

lbs of U308, and 1.31% V205, producing 88,306 lbs of V205.

HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Canon 738 (Canon 1, 2, 5-9; Wilson 1-3)

LOCATION: sec. 21, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 129 tons had been mined at a grade of 0.23% U308, producing 604 lbs of U308, and 1.16% V205, producing 2,990 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Canopus (Monogram Group, Sirius)

LOCATION: sec. 18, T. 46 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 13, T. 46 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 9,630 tons had been mined at a grade of 0.40% U308, producing 77,657 lbs of U308, and 1.72% V205, producing 331,875 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Canyon 2 (Sylvey's Pocket Group)

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in Gypsum Valley.
 PROD As of 1971, 28 tons had been mined at a grade of 0.44% U308, producing 245 lbs of U308, and 1.81% V205, producing 1,014 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Canyon View

LOCATION: sec. 4, T. 45 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records show location as being sec. 19, T. 45 N., R. 18 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 109 tons had been mined at a grade of 0.26% U308, producing 569 lbs of U308, and 2.24% V205, producing 4,873 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.

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MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Carpathia

LOCATION: sec. 18, T. 47 N., R. 17 W.
 QUAD Davls Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 3,376 tons had been mined at a grade of 0.24% U3O8, producing 16,258 lbs of U3O8, and 0.94% V2O5, producing 63,142 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Carpenter Ridge

LOCATION:
 LCST UNLOCATABLE
 PROD As of 1971, 14 tons had been mined at a grade of 0.24% U3O8, producing 66 lbs of U3O8, and 2.14% V2O5, producing 598 lbs of V2O5.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Cashin Mill

LOCATION: sec. 22, T. 47 N., R. 19 W.
 QUAD Paradox 7 1/2'
 MAP MOAB
 PROD Prior to 1971, 14 tons had been recovered from the old copper mill tailings at a grade of 0.99% U3O8, producing 278 lbs of U3O8, and 0.91% V2O5, producing 256 lbs of V2O5.
 HOST Wingate Sandstone, Chinle Formation; massive, fine-grained quartzose sandstone, breccia, and siltstone with sparse asphaltite.
 STRC Mineralized fault zones.
 MNZ Uranium, vanadium, uraninite, malachite, azurite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967.

Cedar Ridge #2 - Brushy Basin Member

LOCATION: S1/2 sec. 33, T. 46 N., R. 19 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Cedar Ridge - Brushy Basin Member

LOCATION: N1/2 sec. 4, T. 45 N., R. 19 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Cedars Ridge Group (Cedar Ridge Bill #1-3)

LOCATION: sec. 34, T. 46 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 13 tons had been mined at a grade of 0.11% U3O8, producing 29 lbs of U3O8, and 1.01% V2O5, producing 263 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

CFC

LOCATION: sec. 20, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 680 tons had been mined at a grade of 0.50% U3O8, producing 6,852 lbs of U3O8, and 2.18% V2O5, producing 29,646 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Checker

LOCATION: sec. 30, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 4 tons had been mined at a grade of 0.32% U3O8, producing 26 lbs of U3O8, and 0.72% V2O5, producing 58 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Chesterfield Trespass (Pluto, Saturn)

LOCATION: NE1/4 sec. 13, T. 46 N., R. 18 W.
 PROD As of 1971, 931 tons had been mined at a grade of 0.18% U3O8, producing 3,327 lbs of U3O8, and 0.87% V2O5, producing 16,264 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Chipmonk 1

LOCATION: sec. 4, T. 45 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 51 tons had been mined at a grade of 0.10% U3O8, producing 98 lbs of U3O8, and 1.33% V2O5, producing 1,357 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

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Christie

LOCATION:

LCST UNLOCATABLE

PROD As of 1971, 15 tons had been mined at a grade of 0.32% U308, producing 97 lbs of U308, and 2.00% V205, producing 599 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado.

Christmas Lode

LOCATION:

LCST UNLOCATABLE

PROD As of 1971, 44 tons had been mined at a grade of 0.11% U308, producing 98 lbs of U308, and 1.42% V205, producing 1,248 lbs of V205.

HOST Jurassic Morrison Formation.

MNZ Carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado.

Cliffdweller 2

LOCATION: sec. 34, T. 46 N., R. 19 W.

LCRM U.S. A.E.C. Production Records also show location as sec. 3, T. 45 N., R. 19 W.

QUAD Red Canyon 7 1/2'

MAP MOAB

PROD As of 1971, 144 tons had been mined at a grade of 0.58% U308, producing 1,659 lbs of U308, and 2.52% V205, producing 7,254 lbs of V205.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Cliffdweller

LOCATION: sec. 24, T. 48 N., R. 18 W.

QUAD Red Canyon 7 1/2'

MAP MOAB

PROD As of 1971, 15,658 tons had been mined at a grade of 0.34% U308, producing 107,411 lbs of U308, and 1.80% V205, producing 565,205 lbs of V205.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Club 2

LOCATION: sec. 29, T. 48 N., R. 17 W.

LCRM U.S. A.E.C. Production Records also show sec. 29.

QUAD Red Canyon 7 1/2'

MAP MOAB

PROD As of 1971, 5,251 tons had been mined at a grade of 0.25% U308, producing 26,633 lbs of U308, and 1.21% V205, producing 127,388 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member. A buff, massive medium-grained sandstone and thinly laminated sandstone and mudstone with sparse to abundant carbonized logs and other plant remains.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime, coffinite.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967.

Club Group (Club Sandwich)

LOCATION: sec. 19, T. 48 N., R. 17 W.

LCRM Also sec. 29, 30, 32

QUAD Red Canyon 7 1/2'

MAP MOAB

PROD As of 1971, 9,900 tons had been mined at a grade of 0.31% U308, producing 61,790 lbs of U308, and 1.58% V205, producing 312,272 lbs of V205.

HOST Salt Wash Member of the Jurassic Morrison Formation. A buff, massive, medium-grained sandstone and thinly laminated sandstone and mudstone with sparse to abundant carbonized logs and other plant remains.

MNZ Coffinite, carnotite, tyuyamunite.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967.

Clyde J. Wright (Pinlon and Cedar Groups)

LOCATION: sec. 24, T. 48 N., R. 19 W.

QUAD Roc Creek 7 1/2'

MAP MOAB

MNZ Uranium, vanadium.

REF U.S. Bur. of Mines, 1977, (Unpubl.).

Coloradium

LOCATION: sec. 21, T. 47 N., R. 17 W.

QUAD Davis Mesa 7 1/2', Uravan 7 1/2'

PROD As of 1971, 26,665 tons had been mined at a grade of 0.30% U308, producing 159,598 lbs of U308, and 1.62% V205, producing 864,208 lbs of V205.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Columbus

LOCATION: sec. 2, T. 46 N., R. 17 W.

LCRM U.S. A.E.C. Production Records also show location as sec. 6, 7, T. 46 N., R. 16 W.

QUAD Uravan 7 1/2'

PROD As of 1971, 96 tons had been mined at a

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grade of 0.10% U3O8, producing 193 lbs of U3O8, and 0.32% V2O5, producing 605 lbs of V2O5.

MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Confusion Mine (Angle)

LOCATION: sec. 1, T. 47 N., R. 20 W.
QUAD Mount Peale 1 SE 7 1/2'
PROD As of 1971, 821 tons had been mined at a grade of 0.41% U3O8, producing 6,755 lbs of U3O8, and 2.17% V2O5, producing 35,641 lbs of V2O5.

HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Copper Jack (Radium King)

LOCATION: sec. 19, T. 48 N., R. 18 W.
QUAD Roc Creek 7 1/2'
PROD As of 1971, 399 tons had been mined at a grade of 0.21% U3O8, producing 1,654 lbs of U3O8, and 1.72% V2O5, producing 13,693 lbs of V2O5.

HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Corporation (Lease)

LOCATION: sec. 16, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 21.

QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
PROD As of 1971, 651 tons had been mined at a grade of 0.58% U3O8, producing 7,552 lbs of U3O8, and 1.88% V2O5, producing 24,507 lbs of V2O5.

HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Correct

LOCATION: sec. 28, T. 47 N., R. 17 W.
LCST UNLOCATABLE
LCRM Also sec. 29.
PROD As of 1971, 38 tons had been mined at a grade of 0.16% U3O8, producing 122 lbs of U3O8, and 1.28% V2O5, producing 972 lbs of V2O5.

HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Cottonwood 1, 2, 3 (Red Bird Group)

LOCATION: SW1/4 sec. 33, T. 46 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'
PROD As of 1971, 323 tons had been mined at a grade of 0.38% U3O8, producing 2,459 lbs of U3O8, and 2.16% V2O5, producing 13,943 lbs of V2O5.

HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Cougar (Cougar 1-11, Bobcat 1-4)

LOCATION: sec. 27, T. 46 N., R. 18 W.
LCRM Also sec. 28, 33, 34.
QUAD Bull Canyon 7 1/2'
PROD As of 1971, 9 tons had been mined at a grade of 0.11% U3O8, producing 20 lbs of U3O8, and 2.32% V2O5, producing 418 lbs of V2O5.

HOST Cretaceous Dakota Sandstone.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Crab Orchard

LOCATION: sec. 11, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MNZ Uranium, vanadium.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.).

Cripple Creek 2

LOCATION: sec. 21, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 30,986 tons had been mined at a grade of 0.30% U3O8, producing 184,216 lbs of U3O8, and 1.45% V2O5, producing 898,578 lbs of V2O5.

HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Cripple Creek 2 Dump

LOCATION: sec. 21, T. 47 N., R. 17 W.
LCRM Extends to sec. 28.
QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
MAP MOAB
PROD Prior to 1971, 2,876 tons had been recovered from the Cripple Creek 2 Mine dump at a grade of 0.08% U3O8, producing 4,536 lbs of U3O8, and 0.58% V2O5, producing 33,333 lbs of V2O5.

HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

MONTROSE COUNTY

Cripple Creek (Cripple Creek No. 1)

LOCATION: sec. 21, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 28.
 QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 4,789 tons had been mined at a grade of 0.20% U308, producing 19,115 lbs of U308, and 1.27% V205, producing 121,461 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Crown Prince

LOCATION: sec. 27, T. 48 N., R. 18 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Cue Ball

LOCATION: sec. 3, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 PROD As of 1971, 60 tons had been mined at a grade of 0.34% U308, producing 411 lbs of U308, and 2.82% V205, producing 3,382 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Cycle 3

LOCATION:
 LCST UNLOCATABLE
 PROD As of 1971, 16 tons had been mined at a grade of 0.46% U308, producing 147 lbs of U308, and 2.16% V205, producing 692 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

D & D 3

LOCATION: sec. 25, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 PROD As of 1971, 23 tons had been mined at a grade of 0.09% U308, producing 42 lbs of U308, and 0.57% V205, producing 260 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

D & D 5

LOCATION: sec. 30, T. 48 N., R. 17 W.
 QUAD Red Canyon 7 1/2'

PROD As of 1971, 14 tons had been mined at a grade of 0.20% U308, producing 55 lbs of U308, and 1.80% V205, producing 503 lbs of V205.
 HOST Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Dads (Carbon King, Shamrock 1-7, Piper 1-3, Kingpin 1-8, Runrock, Eclipse, A & H)

LOCATION: sec. 14, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 PROD As of 1971, 3,842 tons had been mined at a grade of 0.28% U308, producing 21,670 lbs of U308, and 1.58% V205, producing 121,689 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Dan Patch

LOCATION: sec. 35, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 34.
 QUAD Uravan 7 1/2'
 PROD As of 1971, 1,963 tons had been mined at a grade of 0.28% U308, producing 11,018 lbs of U308, and 1.44% V205, producing 56,345 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Dawn (Down)(Echo Group)

LOCATION: sec. 3, T. 45 N., R. 18 W.
 LCST UNLOCATABLE
 PROD As of 1971, 7 tons had been mined at a grade of 0.16% U308, producing 23 lbs of U308, and 2.16% V205, producing 302 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Deer (July, S11m)

LOCATION: sec. 28, T. 46 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show sec. 27.
 QUAD Bull Canyon 7 1/2', Naturita NW 7 1/2'
 PROD As of 1971, 151,404 tons had been mined at a grade of 0.26% U308, producing 779,926 lbs of U308, and 1.53% V205, producing 4,633,542 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

MONTROSE COUNTY

Deer Shaft

LOCATION: sec. 27, T. 46 N., R. 17 W.
 QUAD Naturita NW 7 1/2'
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Diana (Mitchell-Archer Group)

LOCATION: sec. 14, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 11 and 16.
 QUAD Bull Canyon 7 1/2'
 PROD As of 1971, 16,362 tons had been mined at a grade of 0.27% U3O8, producing 88,728 lbs of U3O8, and 2.18% V2O5, producing 712,389 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Doctor Mine (Yellowbird)

LOCATION: sec. 16, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2', Naturita 7 1/2'
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Dola

LOCATION:
 LCST UNLOCATABLE
 MAP MOAB
 PROD As of 1971, 186 tons had been mined at a grade of 0.42% U3O8, producing 1,563 lbs of U3O8, and 1.17% V2O5, producing 4,353 lbs of V2O5.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Dolores Mine (Pippy)

LOCATION: sec. 19, T. 48 N., R. 17 W.
 QUAD Red Canyon 7 1/2'
 PROD As of 1971, 10,224 tons had been mined at a grade of 0.33% U3O8, producing 66,974 lbs of U3O8, and 1.62% V2O5, producing 331,045 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Donald L

LOCATION: sec. 21, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 28.
 QUAD Davls Mesa 7 1/2', Uravan 7 1/2'
 PROD As of 1971, 47,279 tons had been mined at a grade of 0.35% U3O8, producing 328,987

lbs of U3O8, and 1.85% V2O5, producing 1,747,779 lbs of V2O5.

HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Donald L Dump

LOCATION: sec. 27, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Donna K

LOCATION: sec. 30, T. 47 N., R. 16 W.
 LCRM U.S. A.E.C. Production Records show sec. 31.
 QUAD Uravan 7 1/2'
 PROD As of 1971, 2,050 tons had been mined at a grade of 0.26% U3O8, producing 10,542 lbs of U3O8, and 0.50% V2O5, producing 20,385 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Dorothy (M.U. #141, Grace Chato)

LOCATION: sec. 17, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 20.
 QUAD Davis Mesa 7 1/2'
 PROD As of 1971, 5,951 tons had been mined at a grade of 0.23% U3O8, producing 26,886 lbs of U3O8, and 1.13% V2O5, producing 134,250 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Dorothy E

LOCATION: sec. 18, T. 48 N., R. 18 W.
 LCRM This deposit lies in the Carpenter Ridge area.
 QUAD Roc Creek 7 1/2'
 PROD As of 1971, 22 tons had been mined at a grade of 0.18% U3O8, producing 79 lbs of U3O8, and 1.19% V2O5, producing 522 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, Intermed. lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Dorothy Jean No. 1

LOCATION: sec. 18, T. 46 N., R. 17 W.

MONTROSE COUNTY

QUAD Bull Canyon 7 1/2'
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Double Jack

LOCATION: sec. 30, T. 47 N., R. 16 W.
 QUAD Uravan 7 1/2'
 PROD As of 1971, 445 tons had been mined at a grade of 0.22% U308, producing 1,936 lbs of U308, and 1.52% V205, producing 13,499 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Dry Creek Prospect

LOCATION: sec. 4, T. 48 N., R. 11 W.
 QUAD Dry Creek Basin 7 1/2'
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Duchess 2, 3 (Duchess Group, Dutchess, Duke 1-3, Persistence 1-5, Phantom 1-5, Bald Eagle, Red Dog)

LOCATION: sec. 34, T. 48 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 26, 27, 33, and 35.
 QUAD Davis Mesa 7 1/2', Red Canyon 7 1/2'
 PROD As of 1971, 2,143 tons had been mined at a grade of 0.22% U308, producing 9,580 lbs of U308, and 1.53% V205, producing 65,689 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Duggan Adit

LOCATION: sec. 20, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MNZ Uranium, vanadium.
 RMKS This is an alternate mine entry that serves the Mineral Joe Group and also C-JD-6, DOE Lease Tract.
 DOI 1975
 REF U.S. D.O.E., 1978, files. U.S. Bur. of Mines, 1977, (Unpubl.).

Dusty Dump

LOCATION: sec. 20, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Eagle Rock 1

LOCATION:

LCST UNLOCATABLE
 MAP MOAB
 PROD As of 1971, 28 tons had been mined at a grade of 0.15% U308, producing 85 lbs of U308, and 1.33% V205, producing 745 lbs of V205.
 HOST Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Echo 2 & 3 (Hatch 1-8, Echo 1-3)

LOCATION: sec. 3, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 10.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 459 tons had been mined at a grade of 0.23% U308, producing 2,092 lbs of U308, and 1.63% V205, producing 14,929 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Echo 6 (Echo 4-6, Jackrabbit, Dawn)

LOCATION: sec. 3, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 10 as being in Bull Canyon 7 1/2'.
 MAP MOAB
 PROD As of 1971, 1,396 tons had been mined at a grade of 0.24% U308, producing 6,813 lbs of U308, and 1.88% V205, producing 52,566 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Eclipse

LOCATION: S1/2 sec. 15, T. 48 N., R. 18 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Edith Irene (Gypsy Queen)

LOCATION: sec. 11, T. 45 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 27 tons had been mined at a grade of 0.11% U308, producing 59 lbs of U308, and 0.43% V205, producing 230 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

MONTROSE COUNTY

Eight Ball (Julian Group, Eagle Basin)

LOCATION: sec. 3, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 4 in Uravan 7 1/2'.
 MAP MOAB
 PROD As of 1971, 582 tons had been mined at a grade of 0.24% U308, producing 2,771 lbs of U308, and 1.76% V205, producing 20,514 lbs of V205.
 HOST Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Eight O Clock

LOCATION: sec. 33, T. 46 N., R. 18 W.
 LCRM This deposit lies in the Bull Canyon district.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 5 tons had been mined at a grade of 0.21% U308, producing 21 lbs of U308, and 2.23% V205, producing 223 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Elizabeth Ann 1 & 2

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Long Park district.
 MAP MOAB
 PROD As of 1971, 20 tons had been mined at a grade of 0.31% U308, producing 125 lbs of U308, and 1.59% V205, producing 636 lbs of V205.
 HOST Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Elray Mine

LOCATION: sec. 30, T. 47 N., R. 19 W.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Equinox

LOCATION: sec. 11, T. 48 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 12.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 8,844 tons had been mined at a grade of 0.19% U308, producing 32,902 lbs of U308, and 0.81% V205, producing 143,245 lbs of V205.
 HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Eula Belle Craig

LOCATION: sec. 31, T. 49 N., R. 17 W.
 LCRM Also sec. 32.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 319,597 tons had been mined at a grade of 0.25% U308, producing 1,576,435 lbs of U308, and 0.87% V205, producing 5,591,420 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Eva Group (Eva Lode, Yellowbird Group)

LOCATION: sec. 15, T. 47 N., R. 20 W.
 PROD As of 1971, 3,445 tons had been mined at a grade of 0.19% U308.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Evening Star Mine (Lion Creek Group)(Incline 2, Slick Rock, September, Soldier Boy)

LOCATION: sec. 11, T. 47 N., R. 20 W.
 LCRM U.S. A.E.C. Production Records also show location as being sec. 13, T. 46 N., R. 18 W.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 PROD As of 1971, 16,449 tons had been mined at a grade of 0.21% U308, producing 69,141 lbs of U308, and 1.57% V205, producing 515,629 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Expectant 1 (Rambler)

LOCATION: sec. 3, T. 45 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 2 tons had been mined at a grade of 0.28% U308, producing 11 lbs of U308, and 1.27% V205, producing 51 lbs of V205.
 HOST Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

MONTROSE COUNTY

Fairy Queen (Fairy King & Fairy Queen)

LOCATION: sec. 10, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 822 tons had been mined at a grade of 0.24% U308, producing 3,956 lbs of U308, and 0.83% V205, producing 13,635 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Farmer Boy

LOCATION:
 LCST UNLOCATABLE
 MAP MOAB
 PROD As of 1971, 3 tons had been mined at a grade of 0.32% U308, producing 19 lbs of U308, and 2.00% V205, producing 120 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Farmer Girl

LOCATION: sec. 22, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 3,189 tons had been mined at a grade of 0.27% U308, producing 17,513 lbs of U308, and 1.51% V205, producing 96,253 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Fawn Springs 3

LOCATION: sec. 6, T. 45 N., R. 17 W.
 LCST UNLOCATABLE
 PROD As of 1971, 532 tons had been mined at a grade of 0.18% U308, producing 1,934 lbs of U308, and 1.61% V205, producing 17,079 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Fawn Springs 4, 10

LOCATION: sec. 6, T. 45 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 4,142 tons had been mined at a grade of 0.27% U308, producing 21,956 lbs of U308, and 1.72% V205, producing 142,716 lbs of V205.
 HOST Jurassic Morrison Formation.

MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Fawn Springs 5

LOCATION: sec. 6, T. 45 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 22,457 tons had been mined at a grade of 0.27% U308, producing 121,897 lbs of U308, and 1.48% V205, producing 663,946 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Fawn Springs 9

LOCATION: sec. 6, T. 45 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 45,701 tons had been mined at a grade of 0.19% U308, producing 172,390 lbs of U308, and 1.34% V205, producing 1,220,873 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Fawn Springs 15

LOCATION: sec. 6, T. 45 N., R. 17 W.
 MAP MOAB
 PROD As of 1971, 2,356 tons had been mined at a grade of 0.21% U308, producing 10,026 lbs of U308, and 1.27% V205, producing 59,922 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Fawn Springs 13

LOCATION: sec. 6, T. 45 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 4,416 tons had been mined at a grade of 0.23% U308, producing 19,930 lbs of U308, and 1.21% V205, producing 106,972 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

MONTROSE COUNTY

Fawn Springs 18

LOCATION: sec. 6, T. 45 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 10,988 tons had been mined at a grade of 0.21% U308, producing 45,493 lbs of U308, and 1.68% V205, producing 370,115 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Fawn Springs 11

LOCATION: sec. 31, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 15,821 tons had been mined at a grade of 0.21% U308, producing 66,246 lbs of U308, and 1.41% V205, producing 446,943 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Fawn Springs 12

LOCATION: sec. 31, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 24,239 tons had been mined at a grade of 0.21% U308, producing 103,992 lbs of U308, and 1.44% V205, producing 69,730 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Fawn Springs 29

LOCATION: sec. 6, T. 45 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 350 tons had been mined at a grade of 0.20% U308, producing 1,378 lbs of U308, and 1.82% V205, producing 12,768 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Fawn Springs 21

LOCATION: SE1/4 sec. 6, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB

PROD As of 1971, 1,401 tons had been mined at a grade of 0.18% U308, producing 4,939 lbs of U308, and 1.24% V205, producing 34,859 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Fawn Springs 30

LOCATION: sec. 5, T. 45 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 813 tons had been mined at a grade of 0.16% U308, producing 2,525 lbs of U308, and 1.28% V205, producing 20,884 lbs V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Fifth National Bank

LOCATION: sec. 28, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
 PROD As of 1971, 764 tons had been mined at a grade of 0.28% U308, producing 4,217 lbs of U308, and 1.98% V205, producing 30,307 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Firebird Mine

LOCATION: sec. 20, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 5,386 tons had been mined at a grade of 0.30% U308, producing 32,247 lbs of U308, and 1.29% V205, producing 138,720 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Firecracker

LOCATION: sec. 35, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 35,984 tons had been mined at a grade of 0.30% U308, producing 216,841 lbs of U308, and 1.81% V205, producing 1,301,741 lbs of V205.
 HOST Jurassic Morrison Formation.

MONTROSE COUNTY

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

First National Bank

LOCATION: sec. 20, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show this as being in sec. 21, 28.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 24,074 tons had been mined at a grade of 0.28% U3O8, producing 136,068 lbs of U3O8, and 1.34% V2O5, producing 643,215 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Flat Top

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in Gypsum Valley.
 MAP MOAB
 PROD As of 1971, 14 tons had been at a grade of 0.21% U3O8, producing 60 lbs of U3O8, and 1.33% V2O5, producing 372 lbs of V2O5.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Florence Nellie, 75 50, 50 50, 25 50, 10 53

LOCATION: S 1/2 sec. 9, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2' and Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 6,774 tons had been mined at a grade of 0.20% U3O8 and 0.91% V2O5, producing 26,728 lbs of U3O8 and 123,122 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Fossil

LOCATION: sec. 7, T. 45 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 6.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 220 tons had been mined at a grade of 0.17% U3O8, producing 746 lbs of U3O8, and 1.33% V2O5, producing 5,853 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Fourth National Bank

LOCATION: sec. 28, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 453 tons had been mined at a grade of 0.25% U3O8, producing 2,181 lbs of U3O8, and 1.65% V2O5, producing 14,417 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Fox (Little Dick)

LOCATION: sec. 30, T. 48 N., R. 17 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 351 tons had been mined at a grade of 0.36% U3O8, producing 6,060 lbs of U3O8, and 1.49% V2O5, producing 10,458 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member. Brown, medium-grained sandstone with abundant carbonized logs and trash pockets.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. L., 1967.

Fox Cistern

LOCATION: sec. 30, T. 48 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 19.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 15,791 tons had been mined at a grade of 0.23% U3O8, producing 73,245 lbs of U3O8, and 1.33% V2O5, producing 421,279 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Fraction (Fraction South)

LOCATION: sec. 19, T. 48 N., R. 17 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 7,500 tons had been mined at a grade of 0.20% U3O8, producing 30,329 lbs of U3O8, and 0.95% V2O5, producing 142,377 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

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Franklin

LOCATION: sec. 11, T. 45 N., R. 19 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Franklin 1, 2 (Red Bird Group)

LOCATION: sec. 33, T. 46 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 175 tons had been mined at a grade of 0.18% U308, producing 626 lbs of U308, and 1.72% V205, producing 6,028 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Gilbert

LOCATION: sec. 32, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 5,598 tons had been mined at a grade of 0.17% U308, producing 19,246 lbs of U308, and 1.63% V205, producing 183,015 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Gnome

LOCATION: sec. 17, T. 47 N., R. 17 W.
 LCRM This deposit lies in the Long Park district.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 26 tons had been mined at a grade of 0.78% U308, producing 407 lbs of U308, and 2.52% V205, producing 1,310 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Golden Eagle

LOCATION: S1/2 sec. 10, T. 47 N., R. 17 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Golden Eagle 14 & 16

LOCATION: sec. 9, T. 45 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 HOST Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.

DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Golden Eagle 23

LOCATION: sec. 9, T. 45 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 593 tons had been mined at a grade of 0.29% U308, producing 3,478 lbs of U308, and 2.01% V205, producing 24,047 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Good Hope Red Fox

LOCATION: sec. 10, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 9 tons had been mined at a grade of .19% U308, producing 34 lbs of U308, and 1.25% V205, producing 225 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Gramlich Group

LOCATION: W1/2 sec. 1, T. 47 N., R. 20 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Grand Dad

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Carpenter Ridge area.
 MAP MOAB
 PROD As of 1971, 7 tons had been mined at a grade of 0.33% U308, producing 46 lbs of U308, and 2.36% V205, producing 331 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Grass Roots

LOCATION: sec. 27, T. 48 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 34.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,169 tons had been mined at a grade of 0.21% U308, producing 9,203 lbs of U308, and 1.00% V205, producing 43,448 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971

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REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Grass Roots Dump

LOCATION: sec. 27, T. 48 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 34.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD Prior to 1971, 598 tons had been recovered from the Grass Roots mine dump at a grade of 0.10% U308, producing 1,172 lbs of U308, and 0.56% V205, producing 6,641 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Gray

LOCATION: sec. 13, T. 46 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 18, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,292 tons had been mined at a grade of 0.16% U308, producing 4,221 lbs of U308. 0.74% V205, producing 19,105 lbs of V205.
 HOST Jurassic Morrison Formation, Brushy Basin Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, low vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Gray Dump

LOCATION: sec. 13, T. 46 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records show sec. 18, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD Prior to 1971, 90 tons had been recovered from the Gray Mine dump at a grade of 0.15% U308, producing 267 lbs of U308, and 0.63% V205, producing 1,136 lbs of V205.
 HOST Jurassic Morrison Formation, Brushy Basin Member; mostly fine-grained sandstone, locally coarse-grained and conglomeratic, with abundant carbonized logs and plant trash.
 MNZ Uranium, vanadium, carnotite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Gray Fox

LOCATION: sec. 11, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 10. This deposit lies in Eagle Basin.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 117 tons had been mined at a grade of 0.26% U308, producing 620 lbs of

U308, and 1.16% V205, producing 2,724 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Greagor Group

LOCATION: sec. 4, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records show sec. 4, 5, T. 45 N., R. 18 W. and sec. 29, 32, 33, T. 46 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 18,717 tons had been mined at a grade of 0.25% U308, producing 92,244 lbs of U308, and 1.58% V205, producing 591,588 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., Production Records, Colorado.

Greasy Spoon (Geo No. 7)

LOCATION: sec. 23, T. 29 S., R. 20 W.
 LCRM Also sec. 24, 25, 26.
 PROD Reserves, no production prior to 1971.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Great Western Dump

LOCATION: sec. 20, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD Prior to 1971, 212 tons had been recovered from the Great Western Mine dump at a grade of 0.17% U308, producing 732 lbs of U308, and 0.92% V205, producing 3,886 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Great Western (Mineral Survey 20184)

LOCATION: SW1/4 sec. 20, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show sec. 20.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 10,117 tons had been mined at a grade of 0.28% U308, producing 56,234 lbs of U308, and 1.32% V205, producing 266,706 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Mineral Survey 20184.

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Green Back (Mineral Survey 20233)

LOCATION: sec. 18, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,303 tons had been mined at a grade of 0.26% U308, producing 12,117 lbs of U308, and 0.86% V205, producing 39,705 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Mineral Survey 20233.

Ground Hog Mine

LOCATION: sec. 20, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 17.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 6,192 tons had been mined at a grade of 0.29% U308, producing 35,832 lbs of U308, and 1.31% V205, producing 152,050 lbs of V205.
 HOST Jurassic Morrison Formation, Brushy Basin Member. Mostly fine-grained sandstone, locally coarse-grained and conglomeratic, with abundant carbonized logs and plant trash.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S. Geol. Survey Prof. Paper 538, p. 12.

Groundhog

LOCATION: sec. 20, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 17.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 HOST Jurassic Morrison Formation, Brushy Basin Member. Mostly fine-grained sandstone, locally coarse-grained and conglomeratic, with abundant carbonized logs and plant trash.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S.G.S. Prof. Paper 538, p. 12.

Groundhog #2

LOCATION: NE1/4 sec. 16, T. 48 N., R. 19 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Guadalupe Mine (Long Park 17, Tumis)

LOCATION: sec. 27, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 53,740 tons had been mined at a grade of 0.30% U308, producing 327,358 lbs of U308, and 1.71% V205, producing 1,838,335 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Gyp Lease (Gyp 1-3, Surprise)

LOCATION: sec. 10, T. 45 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 3 & 10.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 4,470 tons had been mined at a grade of 0.23% U308, producing 20,403 lbs of U308, and 1.48% V205, producing 132,296 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member: a fine- to medium- fine-grained sandstone with abundant carbonized plant remains and some logs.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1957.

Happy Jack (Robert Lee #3)

LOCATION: sec. 4, T. 45 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 1,364 tons had been mined at a grade of 0.30% U308, producing 8,070 lbs of U308, and 1.44% V205, producing 39,315 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Happy Joe (Happy Joe No. 1, Miracle)

LOCATION: sec. 2, T. 45 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 3, 10, and 11.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 63 tons had been mined at a grade of 0.74% U308, producing 929 lbs of U308, and 3.20% V205, producing 4,037 lbs of V205.
 HOST Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

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Happy St.

LOCATION: sec. 20, T. 47 N., R. 17 W.
 LCRM Also sec. 21.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 29,782 tons had been mined at a grade of 0.21% U308, producing 127,542 lbs of U308, and 1.09% V205, producing 648,668 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Happy Thought

LOCATION: sec. 18, T. 46 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 17.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 15,258 tons had been mined at a grade of 0.52% U308, producing 157,484 lbs of U308, and 1.46% V205, producing 466,977 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member: Fine- to medium- fine-grained sandstone, with abundant carbonized plant remains and with logs common.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, uraninite, coffinite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967.

Happy, Happy West, Happy No. 1

LOCATION: sec. 21, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2' and Uravan 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Hard Luck (Hot Dog, Hard Luck 1-5)

LOCATION: sec. 3, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 25 tons had been mined at a grade of 0.13% U308, producing 64 lbs of U308, and 0.51% V205, producing 256 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Hardrock

LOCATION: sec. 18, T. 46 N., R. 16 W.
 QUAD Naturita NW 7 1/2'
 MAP MOAB
 PROD As of 1971, 192 tons had been mined at a grade of 0.18% U308, producing 687 lbs of U308, and 0.80% V205, producing 3,074 lbs of V205.

HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Harold (Gilbert Claim)

LOCATION: sec. 32, T. 46 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show sec. 31.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 650 tons had been mined at a grade of 0.20% U308, producing 2,603 lbs of U308, and 1.70% V205, producing 22,117 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Harrison-Burnett and Small-Lee

LOCATION: sec. 6, T. 45 N., R. 16 W.
 QUAD Naturita NW 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Hatch No. 8 (Echo Group)

LOCATION: sec. 2, T. 45 N., R. 18 W.
 LCRM This deposit lies in the Bull Canyon district.
 PROD There are reserves, but there was no production.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Henry Clay Dumps

LOCATION: sec. 29, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD Prior to 1971, 2,588 tons had been recovered at a grade of 0.06% U308, producing 3,346 lbs of U308, and 0.39% V205, producing 20,379 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Henry Clay Mine

LOCATION: sec. 29, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 18,023 tons had been mined at a grade of 0.31% U308, producing 110,195 lbs of U308, and 1.51% V205, producing 542,676 lbs of V205.

MONTROSE COUNTY

HOST Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Hidden Basin

LOCATION: sec. 20, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 16, 21.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 29,289 tons had been mined at a grade of 0.29% U308, producing 157,598 lbs of U308, and 1.35% V205, producing 788,756 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

High Ball 5

LOCATION: sec. 26, T. 46 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 35.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 613 tons had been mined at a grade of 0.24% U308, producing 2,917 lbs of U308, and 1.03% V205, producing 12,573 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Hobo

LOCATION: sec. 32, T. 46 N., R. 18 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Homestead

LOCATION:
 LCST UNLOCATABLE
 MAP MOAB
 PROD As of 1971, 7 tons had been mined at a grade of 0.21% U308, producing 30 lbs of U308, and 1.95% V205, producing 273 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Honeymoon (Phonograph)

LOCATION: sec. 20, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB

PROD As of 1971, 33,548 tons had been mined at a grade of 0.22% U308, producing 170,310 lbs of U308, and 0.47% V205, producing 363,055 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Honeymoon Dumps

LOCATION: sec. 20, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD Prior to 1971, 11,655 tons had been recovered from the Honeymoon Mine dump at a grade of 0.09% U308, producing 21,017 lbs of U308.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Horsehair 1

LOCATION: sec. 1, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 36, T. 46 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,837 tons had been mined at a grade of 0.19% U308, producing 7,092 lbs of U308, and 1.27% V205, producing 46,620 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Horsehair Group (Horsehair 2-5)

LOCATION: sec. 2, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 36, T. 46 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 191 tons had been mined at a grade of 0.31% U308, producing 1,182 lbs of U308, and 1.74% V205, producing 6,629 lbs of V205.
 HOST Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Hot Rocks, Boomer and Pole Cat (Hot Rock 1-5)

LOCATION: sec. 9, T. 46 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 12, T. 46 N., R. 17 W.
 QUAD Paradox 7 1/2' or Anderson Mesa 7 1/2'

MONTROSE COUNTY

MAP MOAB
 PROD As of 1971, 1 ton had been mined at a grade of 0.15% U308, producing 3 lbs of U308, and 0.80% V205, producing 15 lbs of V205.
 HOST Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Hot Shot No. 3 (Wedding Bell Group)

LOCATION: sec. 16, T. 45 N., R. 18 W.
 LCRM This deposit lies in the Bull Canyon district.
 QUAD Bull Canyon 7 1/2'
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado. U.S.G.S. TEM 268-A.

Hot Spot

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Paradox area.
 MAP MOAB
 PROD As of 1971, 31 tons had been mined at a grade of 0.20% U308, producing 122 lbs of U308, and 2.58% V205, producing 1,601 lbs of V205.
 HOST Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Howling Coyote

LOCATION: sec. 33, T. 47 N., R. 19 W.
 LCRM This deposit lies in the Paradox district, Wray Mesa locality.
 QUAD Paradox 7 1/2'
 MAP MOAB
 PROD As of 1971, 23 tons had been mined at a grade of 0.14% U308, producing 66 lbs of U308, and 1.05% V205, producing 481 lbs of V205.
 HOST Jurassic Morrison Formation, Brushy Basin Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Hummer

LOCATION: NW1/4 sec. 21, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 229,685 tons had been mined at a grade of 0.30% U308, producing 1,387,715 lbs of U308, and 1.49% V205, producing 6,855,673 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member: Light gray and brown, fine- to medium-grained sandstone, shaly sandstone, and shale-pebble conglomerate. It contains abundant carbonized remains and sparse carbonized logs.

MNZ Uranium, vanadium, carnotite - tyuyamunite, bayleite, uraninite, coffinite, meta-tyuyamunite, rautite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Hummer Dumps (Joe Dandy Dump)

LOCATION: sec. 21, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD Prior to 1971, 834 tons had been recovered from the Hummer Mine dumps at a grade of 0.08% U308, producing 1,396 lbs of U308, and 0.43% V205, producing 7,195 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member: fine- to medium-grained sandstone, shaly sandstone and shale-pebble conglomerate. It contains abundant carbonized plant remains and sparse carbonized logs.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Ilene (Mexico Group)

LOCATION:
 LCST UNLOCATABLE
 MAP MOAB
 PROD As of 1971, 24 tons had been mined at a grade of 0.06% U308, producing 29 lbs of U308, and 0.67% V205, producing 329 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Independence

LOCATION: sec. 12, T. 47 N., R. 20 W.
 LCRM This deposit lies in the La Sal area, Paradox district.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Index

LOCATION: sec. 2, T. 48 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 11 and 14.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 106 tons had been mined at a grade of 0.13% U308, producing 284 lbs of U308, and 0.88% V205, producing 1,865 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.

MONTROSE COUNTY

DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Indians

LOCATION: sec. 24, T. 48 N., R. 18 W.
DOI 1958
REF Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Invincible

LOCATION: sec. 3, T. 48 N., R. 17 W.
QUAD Atkinson Creek 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.).

Irene

LOCATION: sec. 29, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 1,483 tons had been mined at a grade of 0.34% U3O8, producing 10,087 lbs of U3O8, and 1.17% V2O5, producing 34,596 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Island View 1-7 (Island View 2)

LOCATION: sec. 11, T. 45 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show sec. 12.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 21 tons had been mined at a grade of 0.20% U3O8, producing 85 lbs of U3O8, and 1.50% V2O5, producing 630 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

J M

LOCATION: sec. 32, T. 48 N., R. 17 W.
QUAD Davis Mesa 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.).

J. B. Group

LOCATION: sec. 3, T. 47 N., R. 17 W.
QUAD Uravan 7 1/2'

MAP MOAB
PROD As of 1971, 1,420 tons had been mined at a grade of 0.12% U3O8, producing 3,441 lbs of U3O8, and 0.76% V2O5, producing 21,663 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

J. J.

LOCATION: sec. 26, T. 46 N., R. 17 W.
QUAD Naturita NW 7 1/2'
MAP MOAB
PROD As of 1971, 24,107 tons had been mined at a grade of 0.26% U3O8, producing 127,740 lbs of U3O8, and 1.55% V2O5, producing 749,492 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member; light-gray and brown fine- to medium-fine-grained sandstone, shaly sandstone, and shale-pebble conglomerate. Abundant carbonized plant remains, and sparse carbonized logs.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low ilme. Bayleyite, tyuyamunite, metatyuyamunite, rauvite.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Jack No. 8-13

LOCATION: sec. 12, T. 46 N., R. 17 W.
LCRM This deposit lies in Bitter Creek.
PROD Reserves, no production.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Jack Rabbit (Echo Group)

LOCATION: sec. 11, T. 45 N., R. 18 W.
LCRM U.S. A.E.C. Production Records show sec. 2.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 93 tons had been mined at a grade of 0.45% U3O8, producing 840 lbs of U3O8, and 2.48% V2O5, producing 4,614 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Jackpot Mines No. 2 & 5 (Jackpot Group)

LOCATION: sec. 2, T. 48 N., R. 20 W.
QUAD Mount Peale 1 NE 7 1/2'
MAP MOAB
PROD As of 1971, 19 tons had been mined at a grade of 0.15% U3O8, producing 56 lbs of U3O8, and 1.27% V2O5, producing 482 lbs of V2O5.
HOST Jurassic Morrison Formation.

MONTROSE COUNTY

MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Jeep

LOCATION: sec. 18, T. 47 N., R. 17 W.
 LCRM This deposit lies in the Uravan district. The claim was staked over the patented Monitor Claim, MS 20214.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 15 tons had been mined at a grade of 0.24% U308, producing 72 lbs of U308, and 1.15% V205, producing 344 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Joe Ann

LOCATION:
 LCST UNLOCATABLE
 MAP MOAB
 PROD As of 1971, 11 tons had been mined at a grade of 0.28% U308, producing 61 lbs of U308, and 2.35% V205, producing 516 lbs of V205.
 HOST Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Joe Dandy Mine

LOCATION: sec. 21, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2' or Naturita NW 7 1/2'
 MAP MOAB
 PROD As of 1971, 19,861 tons had been mined at a grade of 0.23% U308, producing 90,763 lbs of U308, and 1.09% V205, producing 431,462 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member. The rock is a light-gray and brown fine-to medium-grained sandstone, shaly sandstone and shale-pebble conglomerate. It contains abundant carbonized plant remains and sparse carbonized logs.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime, meta - tyuyamunite, coffinite, uraninite, rauhite, bayleyite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. L., 1967, U.S. Geol. Survey Prof. Paper 538, p. 12.

Jitterbug

LOCATION: sec. 21, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 191 tons had been mined at a grade of 0.17% U308, producing 652 lbs of U308, and 2.51% V205, producing 9,580 lbs of V205.
 HOST Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Joe Jr.

LOCATION: SW1/4 sec. 33, T. 48 N., R. 17 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Joanne Group (Jo Ann 1-7)

LOCATION: sec. 25, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 529 tons had been mined at a grade of 0.14% U308, producing 1,445 lbs of U308, and 1.04% V205, producing 11,016 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Joe Pete

LOCATION: sec. 13, T. 46 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Joe

LOCATION: sec. 20, T. 48 N., R. 17 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 15,052 tons had been mined at a grade of 0.24% U308, producing 23,904 lbs of U308, and 1.27% V205, producing 127,867 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

Joe Riverside, Joe (Skalla) Mine, Joe

LOCATION: sec. 29, T. 48 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show only sec. 20 and 24.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 19,761 tons had been mined at a grade of 0.24% U308, producing 95,761 lbs of U308, and 1.06% V205, producing 420,454 lbs of V205.

MONTROSE COUNTY

HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

John Z

LOCATION: sec. 10, T. 46 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 11, 14 and 15.
 QUAD Davls Mesa 7 1/2' and Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 565 tons had been mined at a grade of 0.30% U308, producing 3,379 lbs of U308, and 1.49% V205, producing 16,803 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Joker

LOCATION: NW1/4 sec. 24, T. 48 N., R. 18 W.
 LCRM Uravan district, Dolores Bench area.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD 441 tons at 0.32% U308 and 1.50% V205 had been produced by 1971.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Joker (Black Jack, Log Cabin, West)

LOCATION: sec. 35, T. 46 N., R. 18 W.
 LCRM Also sec. 34 - Bull Canyon district, Corral Group locality.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 633 tons had been mined at a grade of 0.31% U308, producing 3,969 lbs of U308, and 1.48% V205, producing 18,708 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S. Geol. Survey Prof. Paper 538, p. 12.

Joker (Joker 1-3)

LOCATION: sec. 11, T. 45 N., R. 19 W.
 LCRM Also sec. 10 and 14. Gypsum Valley district, Little Gyp locality.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 302 tons had been mined at a grade of 0.25% U308, producing 1,486 lbs of U308, and 1.12% V205, producing 6,760 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S. Geol. Survey Prof. Paper 538, p. 12.

Judy Ann (Patterson Springs No. 2, Patterson Springs Group)

LOCATION: sec. 18, T. 48 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 19.
 QUAD Roc Creek 7 1/2'
 MAP MOAB
 PROD As of 1971, 29 tons had been mined at a grade of 0.18% U308, producing 102 lbs of U308, and 0.98% V205, producing 559 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Jumbo

LOCATION: sec. 11, T. 45 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 10.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 48 tons had been mined at a grade of 0.25% U308, producing 242 lbs of U308, and 1.82% V205, producing 1,744 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Jungle Basin (Lone Cedar, Vanadium Bar, Tip Top)

LOCATION: SW1/4 sec. 35, T. 46 N., R. 17 W.
 LCST UNLOCATABLE
 LCRM Bull Canyon district.
 QUAD Naturita NW 7 1/2'
 MAP MOAB
 PROD As of 1971, 10 tons had been mined at a grade of 0.03% U308, producing 6 lbs of U308, and 0.21% V205, producing 43 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Just Right

LOCATION: sec. 31, T. 48 N., R. 17 W.
 QUAD Red Canyon 7 1/2', Davls Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 3,647 tons had been mined at a grade of 0.22% U308, producing 16,074 lbs of U308, and 1.36% V205, producing 99,416 lbs of V205.

MONTROSE COUNTY

HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite,
 high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S.
 A.E.C., 1971, Production Records, Colorado.

lbs of U308, and 1.44% V205, producing 694,466
 lbs of V205.

HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite,
 high vanadium, intermed. lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S.
 A.E.C., 1971, Production Records, Colorado.

Keystone Claims

LOCATION: sec. 6, T. 48 N., R. 19 W.
 QUAD Mount Peale 1 NE 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Last Chance

LOCATION: SW1/4 sec. 19, T. 48 N., R. 17 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey,
 E., 1958, Uranium - vanadium deposits of
 the Uravan Mineral Belt.

King

LOCATION: sec. 36, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2', Davis Mesa 7 1/2'
 MAP MOAB
 HOST The host is the Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium,
 low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Last Chance 1 (Last Chance #1-10)

LOCATION: sec. 9, T. 48 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records show location
 as sec. 14 and 23, T. 47 N., R. 17 W.
 QUAD Roc Creek 7 1/2'
 MAP MOAB
 PROD As of 1971, 852 tons had been mined at a
 grade of 0.28% U308, producing 4,706 lbs
 of U308, and 1.55% V205, producing 26,433
 lbs of V205.

King of Lodes

LOCATION: sec. 19, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 242 tons had been mined at a
 grade of 0.20% U308, producing 965 lbs of
 U308, and 1.26% V205, producing 6,108 lbs
 of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S.
 A.E.C., 1971, Production Records, Colorado.

HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite,
 low vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S.
 A.E.C., 1971, Production Records, Colorado.

Last Chance No. 4

LOCATION: sec. 9, T. 48 N., R. 19 W.
 LCRM Also sec. 10.
 PROD As of 1971, 206 tons of ore had been mined
 at a grade of 0.26% U308, and 1.72% V205,
 producing 1,101 lbs of U308 and 7,051 lbs
 of V205.

King Solomon #5

LOCATION: sec. 24, T. 48 N., R. 18 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey,
 E., 1958, Uranium - vanadium deposits of
 the Uravan Mineral Belt.

HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Last Chance-Long Shot

La Salle Mine, La Salle Group (10, AEC Mining Lease)
(C-CM-25, DOE Lease Tract)

LOCATION: sec. 5, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 RMKS See C-CM-25, DOE Lease Tract.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

LOCATION:
 LCST UNLOCATABLE
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Last Dollar

Lark 7 & 8, 2

LOCATION: sec. 11, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 24,135 tons had been mined at
 a grade of 0.19% U308, producing 92,760

LOCATION: sec. 17, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 32 tons had been mined at a
 grade of 0.10% U308, producing 62 lbs of
 U308, and 0.66% V205, producing 425 lbs
 of V205.
 MNZ Uranium, vanadium.
 DOI 1971

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REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Last Dollar (Doagy 2)

LOCATION: sec. 20, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 PROD As of 1971, 20,094 tons had been mined at a grade of 0.28% U308, producing 113,547 lbs of U308, and 1.14% V205, producing 457,951 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1975, 1971.
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Last Hope

LOCATION: sec. 22, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 3 tons had been mined at a grade of 0.10% U308, producing 6 lbs of U308, and 3.13% V205, producing 188 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Last Load (Red Rose Group, Lost Lode)

LOCATION: sec. 8, T. 48 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 5-7.
 QUAD Roc Creek 7 1/2'
 MAP MOAB
 PROD As of 1971, 5 tons had been mined at a grade of 0.28% U308, producing 28 lbs of U308, and 1.13% V205, producing 113 lbs of V205.
 HOST Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Laura

LOCATION: SW1/4 sec. 20, T. 48 N., R. 17 W.
 LCRM Also NW1/4 sec. 29, T. 48 N., R. 17 W. Located on Atkinson Mesa.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD Reserves, no production.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Lazy Three

LOCATION: sec. 25, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 109 tons had been mined at a grade of 0.28% U308, producing 610 lbs of

U308, and 1.64% V205, producing 3,566 lbs of V205.

HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Levi

LOCATION: sec. 9, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 230 tons had been mined at a grade of 0.25% U308, producing 675 lbs of U308, and 1.48% V205, producing 6,817 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lilly Love

LOCATION: sec. 32, T. 47 N., R. 19 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Little Alice

LOCATION: sec. 13, T. 46 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Little Basin (Grass Roots)

LOCATION: sec. 27, T. 48 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 34.
 QUAD Atkinson Creek 7 1/2'
 MAP MOAB
 PROD As of 1971, 14,853 tons had been mined at a grade of 0.28% U308, producing 81,956 lbs of U308, and 1.08% V205, producing 321,314 lbs of V205.
 HOST Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Little Buckhorn Group (Termite 1-12)

LOCATION: sec. 10, T. 48 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records show only sec. 20-22, 29.
 QUAD Roc Creek 7 1/2'
 MAP MOAB
 PROD As of 1971, 3,968 tons had been mined at a grade of 0.30% U308, producing 24,053

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lbs of U308, and 1.76% V205, producing 139,481 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Little Chief

LOCATION: sec. 13, T. 47 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 24, 23, T. 50 N., R. 20 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 7 tons had been mined at a grade of 0.06% U308, producing 9 lbs of U308, and 0.57% V205, producing 80 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Little Dick

LOCATION: sec. 30, T. 48 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show only sec. 19.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 29,729 tons had been mined at a grade of 0.24% U308, producing 140,672 lbs of U308, and 1.29% V205, producing 766,852 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member; brown, medium-grained sandstone with abundant carbonized logs and trash pockets.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Little Dick Dumps

LOCATION: sec. 30, T. 48 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show only sec. 19.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD Prior to 1971, 95 tons had been recovered from the Little Dick Mine dumps at a grade of 0.06% U308, producing 116 lbs of U308, and 0.34% V205, producing 645 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member; brown, medium-grained sandstone with abundant carbonized logs and trash pockets.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Little Jewel (Black Gem Group)

LOCATION: sec. 3, T. 45 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'

MAP MOAB
 PROD As of 1971, 292 tons had been mined at a grade of 0.39% U308, producing 2,303 lbs of U308, and 2.23% V205, producing 13,030 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Little Joe

LOCATION: sec. 14, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 9 tons had been mined at a grade of 0.22% U308, producing 40 lbs of U308, and 1.74% V205, producing 313 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Little Slip 1

LOCATION:
 LCST UNLOCATABLE
 MAP MOAB
 PROD As of 1971, one ton had been mined at a grade of 2.90% U308, producing 58 lbs of U308, and 6.00% V205, producing 120 lbs of U308.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Lo High (Lohl)

LOCATION: sec. 17, T. 46 N., R. 17 W.
 QUAD Uravan
 MAP MOAB
 PROD As of 1971, 25 tons had been mined at a grade of 0.82% U308, producing 408 lbs of U308, and 3.20% V205, producing 1,601 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 RMKS Lohl is correct spelling, as recorded in county records.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Log Cabin

LOCATION: sec. 35, T. 46 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records show only sec. 33.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,152 tons had been mined at a grade of 0.27% U308, producing 11,505 lbs of U308, and 1.82% V205, producing 78,196 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971

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REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lone Cedar (Jungle Basin 1-14, Vanadium Bor, Tip Top, Rose 1-8, Dry Basin 1-9, Jumbo 1-10, Speck 1-10)

LOCATION: sec. 34, T. 46 N., R. 17 W.

LCRM U.S. A.E.C. Production Records also show sec. 35, T. 46 N. R. 17 W. and sec. 2, 3, T. 45 N., R. 17 W.

QUAD Naturita 7 1/2'

MAP MOAB

PROD As of 1971, 33 tons had been mined at a grade of 0.44% U308, producing 291 lbs of U308, and 1.78% V205, producing 1,174 lbs of V205.

HOST Dakota Sandstone (?)

MNZ Uranium, vanadium.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lone Pine (Big Spruce 1-2, Golo)

LOCATION: sec. 5, T. 48 N., R. 19 W.

QUAD Rac Creek 7 1/2'

MAP MOAB

PROD As of 1971, 2,813 tons had been mined at a grade of 0.27% U308, producing 15,281 lbs of U308, and 1.03% V205, producing 58,031 lbs of V205.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lone Pine No. 2

LOCATION: sec. 21, T. 24 S., R. 26 W.

LCRM Also sec. 22.

PROD Reserves developed, no production.

HOST Jurassic Morrison Formation.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado.

Long John

LOCATION: W1/2NW1/4SW1/4 sec. 4, T. 46 N., R. 19 W.

DOI 1958

REF Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Long Park 1

LOCATION: sec. 27, T. 47 N., R. 17 W.

LCRM Also sec. 34.

QUAD Uravan 7 1/2'

MAP MOAB

PROD As of 1971, 38,448 tons had been mined at a grade of 0.27% U308, producing 208,485 lbs of U308, and 2.10% V205, producing 1,613,025 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and

mudstone with abundant carbonized logs and plant trash pockets.

MNZ Carnotite - tyuyamunite, high vanadium, low ilme, uraninite, coffinite, meta - tyuyamunite.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S. Geol. Survey Prof. Paper 538, p. 12.

Long Park 2

LOCATION: sec. 28, T. 47 N., R. 17 W.

QUAD Davis Mesa 7 1/2', Uravan 7 1/2'

MAP MOAB

PROD As of 1971, 3,585 tons had been mined at a grade of 0.34% U308, producing 24,362 lbs of U308, and 1.62% V205, producing 115,765 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.

MNZ Carnotite - tyuyamunite, high vanadium, low ilme, uraninite, coffinite, meta-tyuyamunite.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S. Geol. Survey Prof. Paper 538.

Long Park 3

LOCATION: sec. 28, T. 47 N., R. 17 W.

QUAD Davis Mesa 7 1/2', Uravan 7 1/2'

MAP MOAB

PROD As of 1971, 9,454 tons had been mined at a grade of 0.23% U308, producing 44,290 lbs of U308, and 1.05% V205, producing 197,610 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.

MNZ Carnotite - tyuyamunite, high vanadium, low ilme.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado.

Long Park 4

LOCATION: sec. 28, T. 47 N., R. 17 W.

QUAD Davis Mesa 7 1/2', Uravan 7 1/2'

MAP MOAB

PROD As of 1971, 7,386 tons had been mined at a grade of 0.23% U308, producing 34,447 lbs of U308, and 1.22% V205, producing 180,714 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.

MNZ Carnotite - tyuyamunite, high vanadium, low ilme.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado.

Long Park 5 (Black Dinah Group)

LOCATION: sec. 28, T. 47 N., R. 17 W.

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QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 849 tons had been mined at a grade of 0.16% U308, producing 2,663 lbs of U308, and 1.34% V205, producing 22,762 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Long Park 6

LOCATION: sec. 27, T. 47 N., R. 17 W.
 LCRM Also sec. 28.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 50,692 tons had been mined at a grade of 0.33% U308, producing 330,133 lbs of U308, and 1.50% V205, producing 1,522,917 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Long Park 6 Dumps

LOCATION: sec. 27, T. 47 N., R. 17 W.
 LCRM Also sec. 28.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD Prior to 1971, 6,732 tons had been recovered from the Long Park 6 mine dumps at a grade of 0.09% U308, producing 11,507 lbs of U308, and 0.43% V205, producing 58,237 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Long Park 9

LOCATION: sec. 27, T. 47 N., R. 17 W.
 LCRM Also sec. 28.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 6,086 tons had been mined at a grade of 0.22% U308, producing 26,506 lbs of U308, and 1.03% V205, producing 124,919 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Long Park 10

LOCATION: sec. 27, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 9,541 tons had been mined at a grade of 0.29% U308, producing 55,035 lbs of U308, and 1.67% V205, producing 318,195 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff mudstone with abundant carbonized logs and plant trash pockets.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Long Park 11

LOCATION: sec. 27, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 738 tons had been mined at a grade of 0.26% U308, producing 3,887 lbs of U308, and 1.58% V205, producing 23,354 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Long Park 12

LOCATION: sec. 27, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 31,315 tons had been mined at a grade of 0.30% U308, producing 189,960 lbs of U308, and 1.47% V205, producing 919,564 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Long Park 13

LOCATION: sec. 27, T. 47 N., R. 17 W.
 LCRM Also sec. 34.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 4,228 tons had been mined at a grade of 0.28% U308, producing 23,416 lbs of U308, and 1.94% V205, producing 164,088 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.

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MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Long Park 16

LOCATION: sec. 27, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 6,783 tons had been mined at a grade of 0.25% U3O8, producing 33,629 lbs of U3O8, and 1.89% V2O5, producing 255,867 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member. Gray and buff medium-grained sandstone and mudstone with abundant carbonized logs and plant trash pockets.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Lost Horse (Shamrock Group)

LOCATION: sec. 29, T. 48 N., R. 17 W.
 LCRM This deposit lies in Club Mesa.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Lower Valley View

LOCATION:
 LCST UNLOCATABLE
 MAP MOAB
 PROD By 1971, 155 tons had been mined at a grade of 0.25% U3O8, producing 777 lbs of U3O8, and 0.87% V2O5, producing 2,700 lbs of V2O5.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Lucky Blunder

LOCATION: sec. 18, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show only sec. 13.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,200 tons had been mined at a grade of 0.18% U3O8, producing 7,816 lbs of U3O8, and 0.80% V2O5, producing 35,149 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lucky Day

LOCATION: sec. 2, T. 45 N., R. 18 W.
 LCRM This deposit lies in the Bull Canyon district.
 QUAD Bull Canyon 7 1/2'

MAP MOAB
 PROD As of 1971, 11 tons had been mined at a grade of 0.24% U3O8, producing 53 lbs of U3O8, and 1.47% V2O5, producing 323 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lucky Day

LOCATION: sec. 29, T. 48 N., R. 17 W.
 QUAD Rad Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 18,104 tons had been mined at a grade of 0.26% producing 92,379 lbs of U3O8, and 1.33% V2O5, producing 480,287 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lucky Group (Lucky No. 1-14, Wray Mesa)

LOCATION: sec. 30, T. 47 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 19, R. 4 N., E. 19 W. and sec. 24, 25, T. 47 N., R. 20 W.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 PROD As of 1971, 135 tons had been mined at a grade of 0.24% U3O8, producing 637 lbs of U3O8, and 1.87% V2O5, producing 5,047 lbs of V2O5.
 HOST Jurassic Morrison Formation, Brushy Basin Member; conglomerate, mudstone, and fine-grained and medium- to coarse-grained sandstone with carbonized plant remains.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, schroechingerite, uranophane, high vanadium, intermed. ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S. Geol. Survey Prof. Paper, 538, p. 12.

Lucky Marx

LOCATION:
 LCST UNLOCATABLE
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 8 tons had been mined at a grade of 0.21% U3O8, producing 34 lbs of U3O8, and 1.05% V2O5, producing 168 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

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Lucky Strike 4

LOCATION:

LCRM UNLOCATABLE
 MAP MOAB
 PROD As of 1971, 7 tons had been mined at a grade of 0.24% U308, producing 33 lbs of U308, and 1.96% V205, producing 275 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Lucky Strike

LOCATION: sec. 29, T. 48 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show location as being sec. 6, T. 48 N., R. 18 W. This deposit lies in the Carpenter Flat area.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 16 tons had been mined at a grade of 0.40% U308, producing 128 lbs of U308, and 1.21% V205, producing 388 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lynx

LOCATION: sec. 29, T. 48 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show only sec. 20.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 20,373 tons had been mined at a grade of 0.27% U308, producing 110,525 lbs of U308, and 1.28% V205, producing 520,980 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Maggie C

LOCATION: sec. 21, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 4,399 tons had been mined at a grade of 0.42% U308, producing 36,961 lbs of U308, and 2.13% V205, producing 187,230 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Maggie C Dump

LOCATION: sec. 28, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2', Uravan 7 1/2'

MAP MOAB
 PROD Prior to 1971, 487 tons had been recovered from the Maggie C Mine dump, producing 881 lbs of U308, and 0.63% V205, producing 6,112 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Margie 2

LOCATION: sec. 30, T. 48 N., R. 17 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, one ton had been mined at a grade of 0.35% U308, producing 7 lbs of U308, and 1.80% V205, producing 36 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Margie Group

LOCATION: sec. 30, T. 48 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 29, 31, and 32.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,267 tons had been mined at a grade of 0.49% U308, producing 12,410 lbs of U308, and 2.35% V205, producing 59,583 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Marjorie Ann Mine

LOCATION: sec. 11, T. 47 N., R. 20 W.
 LCRM U.S. A.E.C. Production Records show only sec. 12.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 PROD As of 1971, 12,422 tons had been mined at a grade of 0.25% U308, producing 62,795 lbs of U308, and 1.33% V205, producing 331,624 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Martha Belle (Martha Belle East)

LOCATION: sec. 6, T. 48 N., R. 17 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB

MONTROSE COUNTY

PROD As of 1971, 84,067 tons had been mined at a grade of 0.28% U308, producing 78,161 lbs of U308, and 0.65% V205, producing 1,086,905 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mary Ann 4 (Dorothy Jean 2)

LOCATION: sec. 18, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 41,363 tons had been mined at a grade of 0.42% U308, producing 346,801 lbs of U308, and 1.60% V205, producing 1,322,766 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Maud Mine

LOCATION: sec. 14, T. 47 N., R. 20 W.
LCRM U.S. A.E.C. Production Records show location as sec. 14, 15, T. 47 N., R. 20 W. and sec. 33, T. 28 S., R. 26 E.
QUAD Mount Peale 7 1/2'
MAP MOAB
PROD As of 1971, 121 tons had been mined at a grade of 0.43% U308, producing 1,052 lbs of U308, and 3.01% V205, producing 7,279 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Maybe 1, 2

LOCATION: sec. 26, T. 46 N., R. 17 W.
QUAD Naturita NW 7 1/2'
MAP MOAB
PROD By 1971, 58 tons had been mined at a grade of 0.26% U308, producing 301 lbs of U308, and 1.60% V205, producing 1,853 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Maybe 5 & 6

LOCATION: sec. 26, T. 46 N., R. 17 W.
QUAD Naturita NW 7 1/2'
MAP MOAB
PROD As of 1971, 8,715 tons had been mined at a grade of 0.15% U308, producing 50,421 lbs of U308 and 50,421 lbs of V205.

HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Maybe Dumps

LOCATION: sec. 35, T. 46 N., R. 17 W.
QUAD Naturita NW 7 1/2'
MAP MOAB
PROD Prior to 1971, 198 tons had been recovered from the Maybe Mine dumps at a grade of 0.07% U308, producing 260 lbs of U308, and 0.30% V205, producing 1,190 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Media (Group)

LOCATION: sec. 34, T. 47 N., R. 17 W.
QUAD Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 4,946 tons had been mined at a grade of 0.26% U308, producing 25,523 lbs of U308, and 1.59% V205, producing 157,441 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Merry Christmas (Mesa Creek)

LOCATION: sec. 2, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 25 tons had been mined at a grade of 0.28% U308, producing 189 lbs of U308, and 1.39% V205, producing 697 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Merry Widow

LOCATION: sec. 10, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 3.
QUAD Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 21,586 tons had been mined at a grade of 0.31% U308, producing 133,038 lbs of U308, and 1.81% V205, producing 783,129 lbs of U308.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971

MONTROSE COUNTY

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mesa

LOCATION: sec. 33, T. 46 N., R. 19 W.

LCRM U.S. A.E.C. Production Records show location as sec. 6, T. 45 N., R. 19 W.

QUAD Anderson Mesa 7 1/2'

MAP MOAB

PROD As of 1971, 2,876 tons had been mined at a grade of 0.23% U308, producing 13,453 lbs of U308. 2.04% V205, producing 117,587 lbs of V205.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mesa 2

LOCATION: sec. 34, T. 46 N., R. 19 W.

LCRM U.S. A.E.C. Production Records show only sec. 33.

QUAD Anderson Mesa 7 1/2'

MAP MOAB

PROD As of 1971, 1,244 tons had been mined at a grade of .21% U308, producing 5,125 lbs of U308, and 1.36% V205, producing 33,782 lbs of V205.

MNZ Uranium, vanadium.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mesa 3

LOCATION: sec. 33, T. 46 N., R. 19 W.

QUAD Anderson Mesa 7 1/2'

MAP MOAB

PROD As of 1971, 7 tons had been mined at a grade of 0.56% U308, producing 79 lbs of U308, and 3.09% V205, producing 432 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.

MNZ Uranium, vanadium.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mesa Creek

LOCATION: sec. 2, T. 48 N., R. 18 W.

LCRM This deposit lies in the Gateway district.

PROD As of 1971, 41 tons had been mined at a grade of 0.28% U308, producing 185 lbs of U308, and 0.89% V205, producing 753 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado.

Midas

LOCATION:

LCST UNLOCATABLE

QUAD Uravan 7 1/2'

MAP MOAB

PROD As of 1971, 14 tons had been mined at a grade of 0.55% U308, producing 153 lbs of U308, and 3.00% V205, producing 841 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado.

Mike 1

LOCATION:

LCST UNLOCATABLE

PROD As of 1971, 1 ton had been mined at a grade of 0.95% U308, producing 19 lbs of U308, and 5.90% V205, producing 118 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado.

Mill 4

LOCATION: sec. 4, T. 47 N., R. 17 W.

LCRM U.S. A.E.C. Production Records show location as sec. 32, T. 48 N., R. 17 W.

QUAD Davis Mesa 7 1/2' & Uravan 7 1/2'

MAP MOAB

PROD As of 1971, 11,943 tons had been mined at a grade of 0.22% U308, producing 51,625 lbs of U308, and 0.23% V205, producing 55,770 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.

MNZ Uranium, vanadium, carnotite - tyuyamunite; high vanadium, low ilme.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mill No. 1

LOCATION: sec. 32, T. 48 N., R. 18 W.

QUAD Roc Creek 7 1/2', Paradox 7 1/2'

MAP MOAB

MNZ Uranium, vanadium.

DOI 1975

REF U.S. Bur. of Mines, 1977, (Unpubl.).

Mill No. 2 (Mill No. 2 Incline)

LOCATION: sec. 32, T. 47 N., R. 17 W.

QUAD Davis Mesa 7 1/2'

MAP MOAB

PROD As of 1971, 76,181 tons had been mined at a grade of 0.28% U308, producing 424,025 lbs of U308, and 0.08% V205, producing 128,458 lbs of V205.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mineral Joe Group (Mineral Joe 1-12)

LOCATION: sec. 26, T. 46 N., R. 17 W.

MONTROSE COUNTY

LCRM U.S. A.E.C. Production Records also show sec. 21, 22 & 27.
 QUAD Naturita NW 7 1/2'
 MAP MOAB
 PROD As of 1971, 585,275 tons had been mined at a grade of 0.26% U308, producing 3,009,912 lbs of U308, and 1.40% V205, producing 16,370,261 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mineral Park 2

LOCATION: sec. 27, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 34.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 11,676 tons had been mined at a grade of 0.27% U308, producing 62,254 lbs of U308, and 1.96% V205, producing 457,191 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mineral Park 3

LOCATION: sec. 27, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 82 tons had been mined at a grade of 0.58% U308, producing 950 lbs of U308, and 4.03% V205, producing 6,602 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mineral Park 4, 5, 6

LOCATION: sec. 35, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show only sec. 26.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 5,525 tons had been mined at a grade of 0.29% U308, producing 31,920 lbs of U308, and 2.08% V205, producing 230,233 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite); high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mineral Park 2-6

LOCATION: sec. 35, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

MLB-C-JD-8, DOE Lease Tract

LOCATION: sec. 20, T. 46 N., R. 17 W.
 LCRM Also sec. 18, 19. This lease lies on Monogram Mesa in the Jo Dandy area.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD No production prior to 1978.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 RMKS This property was formerly covered by Reserve Block USGB-8.
 DOI 1978
 REF U.S. D.O.E., 1978, files. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Modeen

LOCATION: sec. 33, T. 46 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,511 tons had been mined at a grade of 0.23% U308, producing 6,804 lbs of U308, and 1.45% V205, producing 43,793 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Modeen 2

LOCATION: sec. 33, T. 46 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD Produced 1,169 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, Intermed. ilme.
 DOI 1975, 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Monogram 5, Farmer Girl

LOCATION: sec. 22, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 28,981 tons had been mined at a grade of 0.23% U308, producing 133,647 lbs of U308, and 1.19% V205, producing 688,069 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Sandstone Member, fine- to medium-fine-grained sandstone; abundant carbonized plant remains; logs common.

MONTROSE COUNTY

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime. Uraninite (coffinite).
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S. Geol. Survey Prof. Paper 538, p. 12.

Monogram 12

LOCATION: sec. 27, T. 48 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 22.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,070 tons had been mined at a grade of 0.26% U3O8, producing 10,756 lbs of U3O8, and 1.25% V2O5, producing 51,901 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Sandstone Member, fine- to medium-fine-grained sandstone; abundant carbonized plant remains; logs common.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Monogram Claim

LOCATION: sec. 18, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 23,302 tons had been mined at a grade of 0.30% U3O8, producing 139,584 lbs of U3O8, and 0.92% V2O5, producing 427,456 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Sandstone Member; fine- to medium-fine-grained sandstone; abundant carbonized plant remains; logs common.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime, uraninite (coffinite).
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Moonbeam

LOCATION: sec. 20, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 17.
 QUAD Davls Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 21,646 tons had been mined at a grade of 0.25% U3O8, producing 110,246 lbs of U3O8, and 1.56% V2O5, producing 674,043 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Morning Glory 2

LOCATION: sec. 28, T. 47 N., R. 19 W.

LCRM U.S. A.E.C. Production Records show location as sec. 20, 21, 28, 29, 30, T. 47 N., R. 20 W.
 QUAD Paradox 7 1/2'
 MAP MOAB
 PROD As of 1971, 39 tons had been mined at a grade of 0.26% U3O8, producing 206 lbs of U3O8, and 2.56% V2O5, producing 1,999 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation, Brushy Basin Member, conglomerate (?).
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W.I., 1967, U.S. Geol. Survey Prof. Paper 538, p. 12.

Morning No. 2

LOCATION: sec. 32, T. 46 N., R. 18 W.
 LCST UNLOCATABLE
 PROD As of 1971, 16 tons of ore had been mined at a grade of 0.13% U3O8.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Morning Star Mine

LOCATION: sec. 28, T. 46 N., R. 19 W.
 LCRM Gypsum Valley district, Silvey's Pocket locality.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD 46 tons at 0.64% U3O8 and 4.15% V2O5.
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Morning Star-Moonlite

LOCATION: sec. 12, T. 47 N., R. 20 W.
 LCRM Paradox district, Lion Creek locality.
 QUAD Mt. Peala 1 SE 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,275 tons had been mined at a grade of 0.22% U3O8, producing 5,631 lbs of U3O8, and 1.57% V2O5, producing 40,025 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., Production Records, Colorado.

Movie Star

LOCATION: sec. 22, T. 48 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show sec. 28.
 QUAD Atkinson Creek 7 1/2'
 MAP MOAB
 PROD As of 1971, 398 tons had been mined at a grade of 0.18% U3O8, producing 1,414 lbs of U3O8, and 0.33% V2O5, producing 2,608 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

MONTROSE COUNTY

DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., Production Records, Colorado.

Mueker

LOCATION: sec. 28, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 20, 21, 29.
QUAD Davis Mesa 7 1/2' and Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 1,852 tons had been mined at a grade of 0.47% U3O8, producing 17,587 lbs of U3O8, and 1.90% V2O5, producing 70,302 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., Production Records, Colorado.

Mum

LOCATION: sec. 36, T. 47 N., R. 17 W.
QUAD Uravan 7 1/2'
MAP MOAB
PROD Reserves, no production.
MNZ Uranium, vanadium.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.).

Mustard

LOCATION: sec. 30, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 8,345 tons had been mined at a grade of 0.31% U3O8, producing 51,773 lbs of U3O8, and 1.43% V2O5, producing 247,442 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Nat Group

LOCATION:
LCST UNLOCATABLE
LCRM This deposit lies in Spring Creek Mesa.
MAP MOAB
PROD As of 1971, two tons had been mined at a grade of 0.05% U3O8, producing two lbs of U3O8, and 0.30% V2O5, producing 12 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Naturita 4

LOCATION: sec. 33, T. 47 N., R. 16 W.
QUAD Uravan 7 1/2'

MAP MOAB
PROD As of 1971, 15 tons had been mined at a grade of 0.13% U3O8, producing 40 lbs of U3O8, and 1.38% V2O5, producing 413 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Naturita 24

LOCATION: sec. 29, T. 47 N., R. 16 W.
QUAD Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 37 tons had been mined at a grade of 0.08% U3O8, producing 58 lbs of U3O8, and 0.86% V2O5, producing 635 lbs of V2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Navajo (Lark 7 & 8 Mine)

LOCATION: sec. 11, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 119 tons had been mined at a grade of 0.24% U3O8, producing 578 lbs of U3O8, and 1.42% V2O5, producing 3,370 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

New Camp Bird (Starlight Group)

LOCATION: sec. 33, T. 46 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 31 tons had been mined at a grade of 0.27% U3O8, producing 167 lbs of U3O8, and 1.86% V2O5, producing 1,151 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Newton (Bull Canyon Group)

LOCATION: sec. 31, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD No production.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

MONTROSE COUNTY

NII No. 2 (and Dump)

LOCATION: sec. 26, T. 46 N., R. 17 W.
 QUAD Naturita NW 7 1/2'
 MAP MOAB
 PROD As of 1971, 572 tons had been mined at a grade of 0.07% U308, producing 819 lbs of U308, and 0.43% V205, producing 4,872 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

NII Trace

LOCATION: sec. 16, T. 46 N., R. 17 W.
 LCRM Also sec. 27.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 190,104 tons had been mined at a grade of 0.18% U308 producing 690,015 lbs of U308, and 0.80% V205, producing 3,652,891 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uraninite (coffinite), high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

No Name

LOCATION: sec. 10, T. 48 N., R. 19 W.
 QUAD Roc Creek 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Noel

LOCATION: sec. 13, T. 46 N., R. 19 W.
 PROD No production.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Nora L. Claims

LOCATION: sec. 25, T. 46 N., R. 17 W.
 QUAD Naturita 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

North Star Dump (Mineral Survey 19793)

LOCATION: sec. 20, T. 47 N., R. 17 W.
 LCRM This mine dump is in the Long Park locality, Uravan district.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD Prior to 1971, 333 tons had been mined at a grade of 0.13% U308, producing 890 lbs

of U308, and 0.47% V205, producing 3,159 lbs of V205.

HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

North Star-UnawEEP

LOCATION: sec. 14, T. 48 N., R. 18 W.
 LCRM The North Star-UnawEEP Group extends into sec. 13. The mine is on Atkinson Mesa, Uravan district.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 54,357 tons had been mined at a grade of 0.15% U308, producing 162,385 lbs of U308, and 1.45% V205, producing 1,571,906 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Sandstone Member; sandstone with some carbonized plant trash.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Mineral Survey No. 19606.

Nucla (Mineral Survey 19790)

LOCATION: NE 1/4 sec. 29, T. 47 N., R. 17 W.
 LCRM Long Park locality, Uravan district.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 496 tons had been mined at a grade of 0.40% U308, producing 4,012 lbs of U308, and 2.20% V205, producing 21,798 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Mineral Survey No. 19606.

Nucla (VCA)

LOCATION: sec. 24, T. 48 N., R. 18 W.
 LCRM Atkinson Mesa, Uravan district.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,153 tons had been mined at a grade of 0.27% U308, producing 11,666 lbs of U308, and 1.03% V205, producing 44,466 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Old Crow 1 (Greagor Group)

LOCATION: sec. 4, T. 45 N., R. 18 W.

MONTROSE COUNTY

LCRM This deposit lies in the Fawn Spring area, East Greagor Group.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 92 tons had been mined at a grade of 0.23% U308, producing 432 lbs of U308, and 1.53% V205, producing 2,814 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Old Grandad

LOCATION: sec. 6, T. 45 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 4,531 tons had been mined at a grade of 0.22% U308, producing 20,231 lbs of U308, and 2.01% V205, producing 182,459 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Old Quaker

LOCATION: W1/2 sec. 18, T. 45 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 163 tons had been mined at a grade of 0.25% U308, producing 822 lbs of U308, and 1.76% V205, producing 5,726 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Old Salt Lick, (Old Salt Lick Extension, Shamrock Group)

LOCATION: sec. 29, T. 48 N., R. 17 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 4,116 tons had been mined at a grade of 0.22% U308, producing 17,728 lbs of U308, and 1.19% V205, producing 97,907 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Opera Box

LOCATION: sec. 20, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 160,496 tons had been mined at a grade of 0.21% U308, producing 684,856

lbs of U308, and 0.89% V205, producing 2,867,666 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Ophir

LOCATION: SE1/4 sec. 24, T. 48 N., R. 18 W.
 LCST UNLOCATABLE
 LCRM Extends into NE1/4 sec. 25, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,849 tons had been mined at a grade of 0.20% U308, producing 11,192 lbs of U308, and 1.17% V205, producing 66,532 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member; brown, medium-grained sandstone with abundant carbonized logs and trash pockets.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 RMKS Same deposit as Ophir Bluebird. Two mine entries.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967. Mineral Survey 20263.

Ophir Bluebird (Ophir)

LOCATION: sec. 24, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 74,703 tons had been mined at a grade of 0.27% U308, producing 400,380 lbs of U308, and 1.41% V205, producing 2,106,655 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member; brown, medium-grained sandstone with abundant carbonized logs and trash pockets.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967.

Ophir Dump

LOCATION: sec. 24, T. 48 N., R. 18 W.
 LCRM Also sec. 25.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD Prior to 1971, 3,065 tons had been recovered from the Ophir Mine dump at a grade of 0.7% U308, producing 4,578 lbs of U308, and 0.51% V205, producing 31,303 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

MONTROSE COUNTY

Oregon

LOCATION: sec. 11, T. 48 N., R. 18 W.

QUAD Red Canyon 7 1/2'

MAP MOAB

PROD As of 1971, 10,945 tons had been mined at a grade of 0.17% U308, producing 36,180 lbs of U308, and 0.55% V205, producing 120,188 lbs of V205.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Oversight Mine

LOCATION: sec. 21, T. 46 N., R. 17 W.

QUAD Bull Canyon 7 1/2', Naturita NW 7 1/2'

MAP MOAB

PROD As of 1971, 72,107 tons had been mined at a grade of 0.29% U308, producing 419,566 lbs of U308, and 0.51% V205, producing 2,180,524 lbs of V205.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Pablo 4 & 5

LOCATION: sec. 13, T. 46 N., R. 18 W.

LCRM Also sec. 24.

QUAD Red Canyon 7 1/2'

MAP MOAB

PROD Reserves, no production.

HOST Jurassic Morrison Formation.

MNZ Carnotite - tyuyamunite, high vanadium, low ilme.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado.

Pain-Obnoxious

LOCATION: sec. 32, T. 46 N., R. 17 W.

QUAD Bull Canyon 7 1/2'

MAP MOAB

PROD As of 1971, 17,841 tons had been mined at a grade of 0.15% U308, producing 52,624 lbs of U308, and 1.39% V205, producing 494,290 lbs of V205.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Paradox 4, 5 & 6

LOCATION: sec. 15, T. 46 N., R. 17 W.

LCRM U.S. A.E.C. Production Records show sec. 21.

QUAD Naturita NW 7 1/2'

MAP MOAB

PROD As of 1971, 198,306 tons had been mined at a grade of 0.26% U308, producing 1,011,495 lbs of U308, and 0.91% V205, producing 3,625,731 lbs of V205.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low ilme.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Paradox Belle

LOCATION: sec. 30, T. 47 N., R. 17 W.

LCRM U.S. A.E.C. Production Records also show sec. 20 and 29.

QUAD Davis Mesa 7 1/2'

MAP MOAB

PROD As of 1971, 16 tons had been mined at a grade of 0.57% U308, producing 181 lbs of U308, and 1.92% V205, producing 615 lbs of V205.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Paradox C

LOCATION: sec. 22, T. 46 N., R. 17 W.

QUAD Naturita NW 7 1/2'

MAP MOAB

PROD As of 1971, 3,999 tons had been mined at a grade of 0.17% U308, producing 13,839 lbs of U308, and 0.52% V205, producing 41,660 lbs of V205.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., Production Records, Colorado.

Paradox D (Reserve Block A)

LOCATION: NE1/4 sec. 21, T. 46 N., R. 17 W.

QUAD Naturita NW 7 1/2'

MAP MOAB

PROD As of 1971, 193,529 tons had been mined at a grade of 0.21% U308, producing 800,895 lbs of U308, and 0.98% V205, producing 3,793,285 lbs of V205.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low ilme.

DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Paradox Right Of Way (Doe Lease Tract C-JD-7)

LOCATION: NW1/4NW1/4 sec. 22, T. 46 N., R. 17 W.

LCST UNLOCATABLE

LCRM This is ore encountered in a right-of-way easement drift to connect the Paradox "C" Mine with the Paradox 5 & 6 Mine.

QUAD Naturita NW 7 1/2'

MONTROSE COUNTY

MAP MOAB
 PROD As of 1971, 395 tons had been mined at a grade of 0.18% U3O8, producing 1,411 lbs of U3O8, and 1.20% V2O5, producing 9,475 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Record, Colorado.

Paradox View

LOCATION: sec. 2, T. 46 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 117 tons had been mined at a grade of 0.37% U3O8, producing 872 lbs of U3O8, and 2.14% V2O5, producing 5,000 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Patterson Seep

LOCATION: sec. 18, T. 48 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 19.
 QUAD Roc Creek 7 1/2'
 MAP MOAB
 PROD As of 1971, 8 tons had been mined at a grade of 0.40% U3O8, producing 64 lbs of U3O8, and 2.71% V2O5, producing 434 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Patty 4

LOCATION: sec. 34, T. 46 N., R. 18 W.
 QUAD Bull Canyon 6 1/2'
 MAP MOAB
 PROD As of 1971, 501 tons had been mined at a grade of 0.26% U3O8, producing 2,632 lbs of U3O8, and 1.33% V2O5, producing 13,320 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Patty 5

LOCATION: sec. 3, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 34, T. 46 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,732 tons had been mined at a grade of 0.33% U3O8, producing 11,411 lbs of U3O8, and 1.78% V2O5, producing 61,629 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Patty No. 2

LOCATION: sec. 34, T. 46 N., R. 18 W.
 PROD As of 1971, 10.17 tons of ore were mined at a grade of 0.20% U3O8.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Pay day

LOCATION: sec. 22, T. 48 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 23.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 7,165 tons had been mined at a grade of 0.28% U3O8, producing 39,503 lbs of U3O8, and 1.23% V2O5, producing 183,481 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Peanut No. 19

LOCATION: sec. 6, T. 45 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD No production.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Peg Leg 2

LOCATION: sec. 19, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 661 tons had been mined at a grade of 0.21% U3O8, producing 2,827 lbs of U3O8, and 1.19% V2O5, producing 15,792 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Peggy

LOCATION: sec. 6, T. 47 N., R. 17 W.
 LCRM Saucer Basin locality, Uravan district.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 85 tons had been mined at a grade of 0.34% U3O8, producing 583 lbs of U3O8, and 1.13% V2O5, producing 1,922 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971

MONTROSE COUNTY

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Picket Corral

LOCATION: SW1/4 sec. 34, T. 46 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 51,495 tons had been mined at a grade of 0.29% U308, producing 293,985 lbs of U308, and 1.92% V205, producing 1,981,225 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Pie Face 1

LOCATION: sec. 2, T. 46 N., R. 17 W.
 QUAD Uravan 7 1/2'
 DVEL As of 1971, 118 tons had been mined at a grade of 0.18% U308, producing 431 lbs of U308, and 1.00% V205, producing 2,363 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Pine Face 1

LOCATION: sec. 2, T. 46 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 118 tons had been mined at a grade of 0.18% U308, producing 431 lbs of U308, and 1.00% V205, producing 2,363 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Pinon-Cedar Group

LOCATION: sec. 24, T. 48 N., R. 19 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 6 tons had been mined at a grade of 0.28% U308, producing 34 lbs of U308, and 2.97% V205, producing 357 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Pluto (Pluto-Saturn)

LOCATION: sec. 12, T. 46 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 13.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB

PROD As of 1971, 17,104 tons had been mined at a grade of 0.19% U308, producing 63,656 lbs of U308, and 0.89% V205, producing 304,895 lbs of V205.

HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Point-Empire

LOCATION: sec. 23, T. 48 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 14 and 22.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 3,765 tons had been mined at a grade of 0.32% U308, producing 23,740 lbs of U308, and 1.13% V205, producing 85,344 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Pooch & Pooch 1

LOCATION: sec. 9, T. 45 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 3, 4 and 10.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 90 tons had been mined at a grade of 0.11% U308, producing 200 lbs of U308, and 1.23% V205, producing 2,218 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Poor Boy

LOCATION: sec. 3, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 16 tons had been mined at a grade of 0.16% U308, producing 52 lbs of U308, and 1.02% V205, producing 325 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Prayer 11

LOCATION: sec. 13, T. 47 N., R. 20 W.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 PROD No production.
 HOST Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

MONTROSE COUNTY

Prayer No. 8 & 9

LOCATION: sec. 14, T. 47 N., R. 20 W.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 PROD As of 1971, 16,754 tons had been mined at a grade of 0.23% U3O8, producing 76,846 lbs of U3O8, and 1.14% V2O5, producing 383,298 lbs of V2O5.
 HOST Brushy Basin Member of the Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Princess

LOCATION: sec. 27, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 456 tons had been mined at a grade of 0.37% U3O8, producing 3,416 lbs of U3O8, and 2.02% V2O5, producing 18,393 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, uranium, vanadium, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Princess Pat

LOCATION:
 LCST UNLOCATABLE
 MAP MOAB
 PROD As of 1971, 13 tons had been mined at a grade of 0.38% U3O8, producing 98 lbs of U3O8, and 2.25% V2O5, producing 584 lbs of V2O5.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Probable

LOCATION: sec. 4, T. 45 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 33, T. 46 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 55 tons had been mined at a grade of 0.39% U3O8, producing 426 lbs of U3O8, and 2.92% V2O5, producing 3,210 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Production Dumps

LOCATION: sec. 20, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 21.

QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD Prior to 1971, 91 tons had been recovered from the Production Mine dumps at a grade of 0.05% U3O8, producing 85 lbs of U3O8, and 0.32% V2O5, producing 577 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Production West (Production)

LOCATION: sec. 20, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 21.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 31,586 tons had been mined at a grade of 0.29% U3O8, producing 182,342 lbs of U3O8, and 1.43% V2O5, producing 901,591 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Prohibition (American Eagle MS 19852)

LOCATION: sec. 8, T. 48 N., R. 18 W.
 LCRM Also sec. 5, 6, 7. This deposit is the same as the American Eagle, Mineral Survey 19852.
 QUAD Roc Creek 7 1/2'
 MAP MOAB
 PROD As of 1971, 100 tons had been mined at a grade of 0.22% U3O8, producing 437 lbs of U3O8, and 0.76% V2O5, producing 1,526 lbs of V2O5. (Mined in trespass).
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Quarrel Group

LOCATION: sec. 12, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 542 tons had been mined at a grade of 0.57% U3O8, producing 6,214 lbs of U3O8, and 3.28% V2O5, producing 35,552 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Quo Vadis

LOCATION: sec. 3, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB

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PROD As of 1971, 8 tons had been mined at a grade of 0.84% U308, producing 134 lbs of U308, and 3.38% V205, producing 540 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 191
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

R.A.L. 1 & 2

LOCATION: sec. 23, T. 48 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records show N1/2 sec. 24.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,297 tons had been mined at a grade of 0.20% U308, producing 5,205 lbs of U308, and 1.16% V205, producing 30,009 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

R.A.M.

LOCATION: sec. 33, T. 48 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 32.
 QUAD Davis Mesa 7 1/2' & Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 129,534 tons had been mined at a grade of 0.19% U308, producing 498,876 lbs of U308, and 0.18% V205, producing 455,556 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

R.A.M. Dump

LOCATION: sec. 33, T. 48 N., R. 17 W.
 QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
 MAP MOAB
 PROD Prior to 1971, 36,247 tons had been recovered from the R.A.M. Mine dump at a grade of 0.09% U308, producing 64,134 lbs of U308.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rabbit Foot 2 (Rimrock Blues Group)

LOCATION: sec. 2, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 21 tons had been mined at a grade of 0.24% U308, producing 100 lbs of U308, and 1.71% V205, producing 720 lbs of V205.
 MNZ Uranium, vanadium.

DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radium Cycle

LOCATION: sec. 8, T. 48 N., R. 19 W.
 QUAD Roc Creek 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,142 tons had been mined at a grade of 0.33% U308, producing 14,157 lbs of U308, and 1.55% V205, producing 66,574 lbs of V205.
 HOST Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radium Hill 7

LOCATION: sec. 10, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 3,398 tons had been mined at a grade of 0.18% U308, producing 12,408 lbs of U308, and 1.18% V205, producing 80,278 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Radium Hill 10

LOCATION: sec. 10, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 29,072 tons had been mined at a grade of 0.22% U308, producing 127,666 lbs of U308, and 1.34% V205, producing 780,439 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Radium Hill 31

LOCATION: sec. 9, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 6,447 tons had been mined at a grade of 0.21% U308, producing 26,947 lbs of U308, and 1.88% V205, producing 242,007 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

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Radium Hill Group

LOCATION: sec. 15, T. 45 N., R. 18 W.
 PROD As of 1971, 560 tons of ore had been mined at a grade of 0.50% U308.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

lbs of U308, and 1.33% V205, producing 86,738 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radium King (Bitter Creek Group)

LOCATION: sec. 1, T. 46 N., R. 17 W.
 LCRM Also sec. 12. Bitter Creek locality of the Uravan district.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 41 tons had been mined at a grade of 0.11% U308, producing 89 lbs of U308, and 1.00% V205, producing 819 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Sandstone Member; gray fine- to medium-grained sandstone and shaly sandstone with abundant carbonized plant remains.
 MNZ Carnotite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S. Geol. Survey Prof. Paper 538, p. 11.

Rajah (Big Chief 2) (Mineral Survey 19851A and 20019)

LOCATION: sec. 6, T. 48 N., R. 18 W.
 LCRM Also sec. 7, T. 48 N., R. 18 W., and sec. 1 and 12, T. 48 N., R. 19 W.
 QUAD Roc Creek 7 1/2'
 MAP MOAB
 PROD As of 1971, 7,012 tons had been mined at a grade of 0.19% U308, producing 27,103 lbs of U308, and 0.45% V205, producing 62,670 lbs of V205.
 HOST Upper Triassic Kayenta and/or Wingate, light-gray fine- to medium-grained sandstone and fault breccia and gouge.
 STRC Vein deposit.
 MNZ Uranium, vanadium, carnotite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S. Geol. Survey Prof. Paper 538, p. 11. Note: The Bur. of Mines or U.S.G.S. references may refer to the Rajah property on Beaver Mesa,

Radium Queen 13

LOCATION: sec. 16, T. 48 N., R. 18 W.
 LCRM Also sec. 17, 20, 21.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,002 tons had been mined at a grade of 0.35% U308, producing 31,138 lbs of U308, and 1.24% V205, producing 110,284 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Rajah Dump Ore (Roc Creek)

LOCATION: sec. 7, T. 48 N., R. 18 W.
 QUAD Roc Creek 7 1/2'
 MAP MOAB
 PROD As of 1971, 9 tons had been mined at a grade of 0.10% U308, producing 18 lbs of U308, and 0.22% V205, producing 39 lbs of V205 (about 6,000 tons of Rajah dump ore is included in the Rajah (Big Chief 2) production).
 HOST Upper Triassic/Lower Jurassic Kayenta Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S. Geol. Survey Prof. Paper 538, p. 11.

Rainbow

LOCATION: sec. 27, T. 47 N., R. 19 W.
 QUAD Paradox 7 1/2'
 MAP MOAB
 PROD As of 1971, 18 tons had been mined at a grade of 0.28% U308, producing 100 lbs of U308, and 2.39% V205, producing 860 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rambler Dumps

LOCATION: sec. 33, T. 48 N., R. 17 W.
 QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
 MAP MOAB
 PROD Prior to 1971, 9,677 tons had been recovered from the Rambler Mine dumps at a grade of 0.10% U308, producing 18,768 lbs of U308, and 0.53% V205, producing 101,697 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rainy Day

LOCATION: sec. 35, T. 45 N., R. 18 W.
 QUAD Hamm Canyon 7 1/2'
 PROD As of 1971, 3,264 tons had been mined at a grade of 0.20% U308, producing 12,981

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Ratex
 LOCATION: sec. 7, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 10 tons had been mined at a grade of 0.19% U3O8, producing 38 lbs of U3O8, and 1.88% V2O5, producing 375 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

lbs of U3O8, and 0.62% V2O5, producing 31,558 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, low vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Rattler 1
 LOCATION:
 LCST UNLOCATABLE
 MAP MOAB
 PROD As of 1971, 65 tons had been mined at a grade of 0.21% U3O8, producing 269 lbs of U3O8, and 1.46% V2O5, producing 1,837 lbs of V2O5.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Rattlesnake 1 (Lower Group)
 LOCATION: sec. 4, T. 45 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 11 tons had been mined at a grade of 0.07% U3O8, producing 15 lbs of U3O8, and 1.58% V2O5, producing 348 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rattlesnake (Rattlesnake-David)
 LOCATION: sec. 2, T. 47 N., R. 20 W.
 LCRM U.S. A.E.C. Production Records also show sec. 1.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,826 tons had been mined at a grade of 0.31% U3O8, producing 11,184 lbs of U3O8, and 1.34% V2O5, producing 48,811 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rattlesnake Turnover
 LOCATION: sec. 13, T. 47 N., R. 18 W.
 LCRM Also sec. 2A.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,552 tons had been mined at a grade of 0.24% U3O8, producing 12,194

Raven
 LOCATION: sec. 3, T. 45 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 10.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 26,083 tons had been mined at a grade of 0.29% U3O8, producing 151,376 lbs of U3O8, and 1.84% V2O5, producing 960,590 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Raven
 LOCATION: sec. 30, T. 48 N., R. 17 W.
 LCRM Location is from U.S. A.E.C. Production Records.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 4,651 tons had been mined at a grade of 0.21% U3O8, producing 19,521 lbs of U3O8, and 1.19% V2O5, producing 111,017 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Red Beds
 LOCATION: sec. 25, T. 48 N., R. 19 W.
 QUAD Roc Creek 7 1/2'
 PROD As of 1971, 35 tons had been mined at a grade of 0.11% U3O8, producing 76 lbs of U3O8, and 0.33% V2O5, producing 228 lbs of V2O5.
 HOST Triassic Chinle Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Red Bird No. 1, 2
 LOCATION: sec. 9, T. 48 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 4 and 5.
 QUAD Roc Creek 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,097 tons had been mined at a grade of 0.25% U3O8, producing 5,543 lbs

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of U308, and 0.95% V205, producing 20,939 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, uranium, vanadium, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Red Bird No. 20

LOCATION: sec. 5, T. 48 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records only show sec. 24 and 25.
 QUAD Roc Creek 7 1/2'
 MAP MOAB
 PROD As 1971, 2,418 tons had been mined at a grade of 0.26% U308, producing 12,512 lbs of U308, and 0.87% V205, producing 42,107 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Red Cow (Wild Horse Group)

LOCATION: S1/2 sec. 2, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 10 tons had been mined at a grade of 0.16% U308, producing 33 lbs of U308, and 0.76% V205, producing 152 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Red Head 1

LOCATION:
 LCST UNLOCATABLE
 MAP MOAB
 PROD As of 1971, one ton had been mined at a grade of 0.10% U308, producing 2 lbs of U308, and 0.60% V205, producing 12 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Red Hill Group

LOCATION: sec. 35, T. 48 N., R. 20 W.
 QUAD Mount Peale 1 NE 7 1/2', Mount Peale 1 SE 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Red Rock

LOCATION:
 LCST UNLOCATABLE

MAP MOAB
 PROD As of 1971, 96 tons had been mined at a grade of 0.31% U308, producing 589 lbs of U308, and 2.31% V205, producing 4,441 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Red Rock 2

LOCATION: sec. 28, T. 48 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 33.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 60 tons had been mined at a grade of 0.19% U308, producing 230 lbs of U308, and 1.58% V205, producing 1,897 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, uranium, vanadium, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Red Rock 5

LOCATION: sec. 26, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 496 tons had been mined at a grade of 0.24% U308, producing 2,365 lbs of U308, and 1.83% V205, producing 18,192 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, low vanadium, intermed. lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Red Sox, Yankees

LOCATION: sec. 23, T. 48 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 24.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 23,153 tons had been mined at a grade of 0.22% U308, producing 103,752 lbs of U308, and 1.45% V205, producing 672,727 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Redbird

LOCATION: N1/2 sec. 4, T. 45 N., R. 18 W.
 DOI 1958

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REF Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Redbird, Yellowbird

LOCATION: sec. 33, T. 46 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 1,238 tons had been mined at a grade of 0.24% U3O8, producing 5,867 lbs of U3O8, and 1.23% V2O5, producing 30,515 lbs of V2O5.
HOST Jurassic Morrison Formation, Salt Wash Member; brown, fine- to coarse-grained sandstone and green mudstone with some carbonized plant remains and sparse logs.
MNZ Uranium, vanadium, carnotite.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967.

Republican Dump

LOCATION: sec. 20, T. 47 N., R. 17 W.
QUAD Davls Mesa 7 1/2'
MAP MOAB
PROD Prior to 1971, 284 tons had been recovered from the Republican Mine dump at a grade of 0.06% U3O8, producing 351 lbs of U3O8, and 0.39% V2O5, producing 2,236 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Remanent 1

LOCATION: sec. 7, T. 48 N., R. 18 W.
LCRM U.S. A.E.C. Production Records only show sec. 6.
QUAD Roc Creek 7 1/2'
MAP MOAB
PROD As of 1971, 18 tons had been mined at a grade of 0.30% U3O8, producing 109 lbs of U3O8, and 0.38% V2O5, producing 137 lbs of V2O5.
HOST Wingate Sandstone, Triassic.
MNZ Uranium, vanadium, carnotite - tyuyamunite, low vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rex Mine

LOCATION: sec. 10, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 3, 4, 9.
QUAD Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 50,141 tons had been mined at a grade of 0.27% U3O8, producing 267,387 lbs of U3O8, and 1.46% V2O5, producing 1,466,032 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Renegade Group

LOCATION: sec. 12, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 7,703 tons had been mined at a grade of 0.19% U3O8, producing 29,527 lbs of U3O8, and 0.47% V2O5, producing 73,178 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rigel Mine

LOCATION: sec. 13, T. 46 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show location as sec. 18, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 28,273 tons had been mined at a grade of 0.25% U3O8, producing 141,899 lbs of U3O8, and 1.16% V2O5, producing 653,559 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Republican (Republican-Dusty, Republican and Dusty)

LOCATION: sec. 20, T. 47 N., R. 17 W.
QUAD Davls Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 66,981 tons had been mined at a grade of 0.28% U3O8, producing 381,742 lbs of U3O8, and 1.33% V2O5, producing 1,776,238 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.

Rim Claims

LOCATION: sec. 23, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
PROD As of 1971, 37 tons had been mined at a grade of 0.21% U3O8, producing 152 lbs of U3O8, and 2.08% V2O5, producing 1,537 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

MONTROSE COUNTY

Rim Rock

LOCATION: sec. 15, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PRD As of 1971, 192 tons had been mined at a grade of 0.52% U3O8, producing 1,989 lbs of U3O8, and 2.54% V2O5, producing 9,741 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rimrock 15-17

LOCATION: sec. 2, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records only show sec. 35 and 36.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PRD As of 1971, 21,116 tons had been mined at a grade of 0.15% U3O8, producing 64,680 lbs of U3O8, and 1.23% V2O5, producing 519,904 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rimrock Blues 2

LOCATION: sec. 2, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PRD As of 1971, 795 tons had been mined at a grade of 0.08% U3O8, producing 1,202 lbs of U3O8, and 1.00% V2O5, producing 15,974 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rimrock Blues 5

LOCATION: sec. 2, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PRD As of 1971, 1,155 tons had been mined at a grade of 0.14% U3O8, producing 85,251 lbs of U3O8, and 1.35% V2O5, producing 30,528 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rimrock Blues 6E

LOCATION: sec. 2, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records only shows sec. 1.

QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PRD As of 1971, 626 tons had been mined at a grade of 0.15% U3O8, producing 1,925 lbs of U3O8, and 1.15% V2O5, producing 14,453 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rimrock Blues 9

LOCATION: sec. 2, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records only show NW1/4 of sec. 1.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PRD As of 1971, 5,163 tons had been mined at a grade of 0.11% U3O8, producing 11,684 lbs of U3O8, and 1.10% V2O5, producing 113,807 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rimrock Blues 12

LOCATION: sec. 2, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 1.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rimrock Blues 20

LOCATION: sec. 2, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records only show location as being T. 46 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PRD As of 1971, 268 tons had been mined at a grade of 0.12% U3O8, producing 663 lbs of U3O8, and 0.75% V2O5, producing 3,996 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rimrock Blues 6, 14

LOCATION: sec. 3, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records only show sec. 1.

MONTROSE COUNTY

QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 9,166 tons had been mined at a grade of 0.19% U308, producing 35,376 lbs of U308, and 1.31% V205, producing 239,865 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rimrock Group

LOCATION: sec. 16, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 63,977 tons had been mined at a grade of 0.22% U308, producing 279,921 lbs of U308, and 1.26% V205, producing 1,608,119 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rimrock No. 5

LOCATION: sec. 15, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 26,905 tons had been mined at a grade of 0.16% U308, producing 85,251 lbs of U308, and 1.35% V205, producing 723,837 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Riverside

LOCATION: SW1/4 sec. 20, T. 48 N., R. 17 W.
DOI 1958
REF Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Rock Raven

LOCATION: sec. 35, T. 48 N., R. 17 W.
QUAD Uravan 7 1/2'
MAP MOAB
PROD As of 1971, 4,190 tons had been mined at a grade of 0.18% U308, producing 15,221 lbs of U308, and 1.66% V205, producing 139,119 lbs of V205.
HOST Brushy Basin Member of the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rodman No. 8

LOCATION: SE1/4 sec. 29, T. 46 N., R. 17 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD Drillhole (no production).
RMKS See TEM-882.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Roosevelt

LOCATION: sec. 3, T. 45 N., R. 19 W.
DOI 1958
REF Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Rosebud

LOCATION: sec. 13, T. 48 N., R. 18 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 23 tons had been mined at a grade of 0.13% U308, producing 61 lbs of U308, and 0.73% V205, producing 336 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Royal Oak

LOCATION: sec. 10, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 17 tons had been mined at a grade of 0.07% U308, producing 24 lbs of U308, and 0.77% V205, producing 263 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rubadale (Rubedale)

LOCATION: sec. 28, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 33, T. 47 N., R. 17 W.
QUAD Davis Mesa 7 1/2' and Uravan 7 12'
MAP MOAB
PROD As of 1971, 125 tons had been mined at a grade of 0.13% U308, producing 332 lbs of U308, and 1.34% V205, producing 3,348 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

MONTROSE COUNTY

Rusty 5

LOCATION: sec. 6, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 3 tons had been mined at a grade of 0.40% U308, producing 24 lbs of U308, and 2.82% V205, producing 169 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Ruth K (Pine Group)

LOCATION: sec. 36, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Rye (Rye No. 8)

LOCATION: sec. 32, T. 46 N., R. 18 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Salt Lake Extension

LOCATION: sec. 28, T. 48 N., R. 17 W.
 LCRM Also sec. 29 and 32. Club Mesa locality, Uravan district.
 QUAD Red Canyon 7 1/2', Atkinson Creek 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Sam

LOCATION: sec. 36, T. 46 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 31, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 6,648 tons had been mined at a grade of 0.15% U308, producing 19,299 lbs of U308, and 0.15% V205, producing 138,744 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sandy

LOCATION: sec. 20, T. 48 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 29.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 38,129 tons had been mined at a grade of 0.26% U308, producing 197,673

lbs of U308, and 1.21% V205, producing 921,623 lbs of V205.

HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Saturn (Pluto - Saturn)

LOCATION: N1/2 sec. 13, T. 46 N., R. 18 W.
 LCST UNLOCATABLE
 LCRM Monogram Mesa, Bull Canyon district.
 MAP MOAB
 PROD As of 1971, 11,156 tons had been mined at a grade of 0.18% U308, producing 40,301 lbs of U308, and 0.86% V205, producing 192,354 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uraninite (coffinite), high vanadium, low lime.
 RMKS (See PRRs under "Planet Group")
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Saucer Basin Group (Rust 3, Peggy)

LOCATION: sec. 6, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 7.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,139 tons had been mined at a grade of 0.24% U308, producing 10,425 lbs of U308, and 1.30% V205, producing 55,554 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

School Marm

LOCATION: sec. 2, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 342 tons had been mined at a grade of 0.20% U308, producing 1,340 lbs of U308, and 1.38% V205, producing 9,425 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Second National Bank

LOCATION: sec. 28, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 21.
 QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
 MAP MOAB
 PROD By 1971, 696 tons had been mined at a grade of 0.24% U308, producing 3,348 lbs of U308, and 0.82% V205, producing 11,466 lbs of V205.

MONTROSE COUNTY

MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sego Lily Lou

LOCATION: sec. 32, T. 47 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 28 and 33, Wray Mesa, Paradox district.
 QUAD Paradox 7 1/2'
 PROD 34 tons mined at a grade of .17% U308, producing 115 lbs of U308. 1.50% V205, producing 1,023 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Shadow Rock

LOCATION: sec. 1, T. 48 N., R. 19 W.
 QUAD Roc Creek 7 1/2'
 MAP MOAB
 PROD By 1971, 485 tons had been mined at a grade of 0.40% U308, producing 3,910 lbs of U308, and 0.59% V205, producing 5,678 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

September Morn

LOCATION: sec. 14, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 11 and 16.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 10,503 tons had been mined at a grade of 0.23% U308, producing 49,120 lbs of U308, and 2.06% V205, producing 433,324 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Shamrock

LOCATION: sec. 29, T. 48 N., R. 17 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 6,761 tons had been mined at a grade of 0.26% U308, producing 35,339 lbs of U308, and 1.25% V205, producing 168,530 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, p. 11.

Sesmo

LOCATION: NE1/4 sec. 24, T. 47 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show locations as NW1/4 sec. 19, T. 47 N., R. 18 W. and SW1/4 sec. 18, S1/2 sec. 13, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 2,054 tons had been mined at a grade of 0.20% U308, producing 8,231 lbs of U308, and 0.93% V205, producing 38,204 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Shamrock (Shamrock and Roadside)

LOCATION: sec. 35, T. 46 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 25, 26 and 36.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 25 tons had been mined at a grade of 0.55% U308, producing 267 lbs of U308, and 2.25% V205, producing 1,125 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Shadow

LOCATION: sec. 20, T. 48 N., R. 18 W.
 LCRM Also sec. 21.
 QUAD Roc Creek 7 1/2' and Red Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 8 tons had been mined at a grade of 0.32% U308, producing 52 lbs of U308, and 0.64% V205, producing 102 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.

Sharkey

LOCATION: sec. 20, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 3,004 tons had been mined at a grade of 0.16% U308, producing 9,815 lbs of U308, and 0.82% V205, producing 49,097 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Shooting Star

LOCATION: sec. 25, T. 48 N., R. 18 W.

MONTROSE COUNTY

QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 18 tons had been mined at a grade of 0.37% U308, producing 134 lbs of U308, and 2.12% V205, producing 764 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Shriver

LOCATION:
 LCST UNLOCATABLE
 LCRM U.S. A.E.C. Production Records show this located in Bull Canyon quadrangle.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 193 tons had been mined at a grade of 0.13% U308, producing 496 lbs of U308, and 1.29% V205, producing 4,984 lbs of V205.
 HOST Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Slim Chance

LOCATION:
 LCST UNLOCATABLE
 MAP MOAB
 PROD By 1971, 28 tons had been mined at a grade of 0.22% U308, producing 126 lbs of U308, and 2.24% V205, producing 1,252 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Smoky (Starlight Group)

LOCATION: sec. 8, T. 47 N., R. 17 W.
 LCRM This deposit lies in the Bull Canyon district.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 2 tons had been mined at a grade of 0.22% U308, producing 9 lbs of U308, and 0.15% V205, producing 6 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Socket

LOCATION: sec. 1, T. 48 N., R. 19 W.
 QUAD Red Creek 7 1/2'
 MAP MOAB
 PROD By 1971, one ton had been mined at a grade of 0.45% U308, producing 9 lbs of U308, and 1.65% V205, producing 33 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Soldier Boy

LOCATION: sec. 11, T. 47 N., R. 20 W.
 LCRM The deposit extends to sec. 12.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 PROD As of 1971, 883 tons had been mined at a grade of 0.28% U308, producing 4,910 lbs of U308, and 2.06% V205, producing 36,295 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Spencer-Fairy Princess

LOCATION: sec. 10, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD No production.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Sphinx

LOCATION: sec. 20, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 14,934 tons had been mined at a grade of 0.33% U308, producing 97,813 lbs of U308, and 1.64% V205, producing 489,691 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sphinx Dump

LOCATION: sec. 20, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD Prior to 1971, 335 tons had been recovered from the Sphinx Mine dump at a grade of 0.07% U308, producing 447 lbs of U308, and 0.45% V205, producing 3,019 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

St. Patrick

LOCATION: sec. 20, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 9,471 tons had been mined at a grade of 0.29% U308, producing 54,918 lbs of U308, and 1.26% V205, producing 238,920 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

MONTROSE COUNTY

DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

St. Patrick 9

LOCATION: sec. 10, T. 47 N., R. 20 W.
LCRM Also sec. 11.
QUAD Mount Peale 1 SE 7 1/2'
MAP MOAB
PROD By 1971, 8,462 tons had been mined at a grade of 0.21% U3O8, producing 34,779 lbs of U3O8, and 1.27% V2O5 producing 215,536 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, low vanadium, low lime.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

St. Patrick No. 7

LOCATION: sec. 11, T. 47 N., R. 20 W.
QUAD Mount Peale 1 SE 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.).

Star 3, 4 (Wright Group)

LOCATION: sec. 28, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/2' and Atkinson Creek 7 1/2'
MAP MOAB
PROD By 1971, 13,021 tons had been mined at a grade of 0.32% U3O8, producing 84,071 lbs of U3O8, and 1.70% V2O5, producing 442,217 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Star No. 3 Dump

LOCATION: sec. 28, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/2' and Atkinson Creek 7 1/2'
MAP MOAB
PROD By 1971, 98 tons had been mined at a grade of 0.08% U3O8, producing 158 lbs of U3O8, and 0.84% V2O5, producing 1,642 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Star No. 5 (Star No. 5 & 6, Movie Star, Polar Star)

LOCATION: sec. 21, T. 48 N., R. 17 W.
LCRM U.S. A.E.C. Production Records show only sec. 28.
QUAD Red Canyon 7 1/2' and Atkinson Creek 7 1/2'
MAP MOAB

PROD By 1971, 31,766 tons had been mined at a grade of 0.24% U3O8, producing 154,374 lbs of U3O8, and 1.04% V2O5, producing 663,681 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Star No. 10

LOCATION: sec. 27, T. 48 N., R. 17 W.
LCRM Also sec. 28.
QUAD Atkinson Creek 7 1/2' and Red Canyon 7 1/2'
MAP MOAB
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Star No. 13, 14 (Wright Group)

LOCATION: N1/2 sec. 28, T. 48 N., R. 17 W.
QUAD Red Canyon 7 1/2' and Atkinson Creek 7 1/2'
MAP MOAB
PROD By 1971, 13,377 tons had been mined at a grade of 0.21% U3O8, producing 56,362 lbs of U3O8, and 0.97% V2O5, producing 258,901 lbs of V2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Starlight

LOCATION: sec. 33, T. 46 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 1,162 tons had been mined at a grade of 0.22% U3O8, producing 5,139 lbs of U3O8, and 1.57% V2O5, producing 36,526 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Starlight 1

LOCATION: sec. 33, T. 46 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 129 tons had been mined at a grade of 0.14% U3O8, producing 355 lbs of U3O8, and 1.45% V2O5, producing 3,749 lbs of V2O5.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

MONTROSE COUNTY

Starlight 2

LOCATION: sec. 33, T. 46 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 65 tons had been mined at a grade of 0.36% U3O8, producing 468 lbs of U3O8, and 3.04% V2O5, producing 3,954 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Starlight 4

LOCATION: sec. 32, T. 46 N., R. 18 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 5 tons had been mined at a grade of 0.17% U3O8, producing 17 lbs of U3O8, and 1.38% V2O5, producing 138 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Starlight 8

LOCATION: sec. 33, T. 46 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 339 tons had been mined at a grade of 0.33% U3O8, producing 2,246 lbs of U3O8, and 1.71% V2O5, producing 11,620 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Steer 1, 8

LOCATION: sec. 14, T. 46 N., R. 18 W.
 LCRM Also sec. 15, 21, 29 and 20.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 6,911 tons had been mined at a grade of 0.33% U3O8, producing 45,784 lbs of U3O8, and 1.59% V2O5, producing 219,512 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, Intermed. lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Straight Arrow

LOCATION: sec. 3, T. 46 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 34, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD By 1971, 50 tons had been mined at a grade of 0.17% U3O8, producing 170 lbs of U3O8, and 1.08% V2O5, producing 1,076 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.

DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Summer Mine

LOCATION: sec. 2, T. 47 N., R. 20 W.
 LCRM This deposit lies in the La Sal Creek area.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 PROD By 1971, 8 tons had been mined at a grade of 0.07% U3O8, producing 11 lbs of U3O8, and 0.99% V2O5, producing 159 lbs of V2O5.
 HOST Jurassic Morrison Formation, Brushy Basin Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sunbeam Group

LOCATION: sec. 10, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 9, 15 and 15.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD As of 1971, 29,673 tons had been mined at a grade of 0.34% U3O8, producing 199,515 lbs of U3O8, and 2.01% V2O5, producing 1,193,320 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sunflower (Sunflower 2, Brammer Group)

LOCATION: sec. 16, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 15.
 QUAD Davis Mesa 7 1/2' and Uravan 7 1/2'
 MAP MOAB
 PROD By 1971, 5,455 tons had been mined at a grade of 0.28% U3O8, producing 30,617 lbs of U3O8, and 1.02% V2O5, producing 110,853 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sunnyside

LOCATION: sec. 24, T. 46 N., R. 18 W.
 LCRM This deposit lies in Monogram Mesa, Bull Canyon district.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 7 tons had been mined at a grade of 0.61% U3O8, producing 85 lbs of U3O8, and 2.40% V2O5, producing 336 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.

MONTROSE COUNTY

DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

HUST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Sunrise Group (Sunrise No. 2, 3, 4, 5)

LOCATION: sec. 34, T. 46 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 8,269 tons had been mined at a grade of 0.37% U308, producing 61,623 lbs of U308, and 1.92% V205, producing 317,193 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sunset

LOCATION: sec. 32, T. 46 N., R. 18 W.
 LCRM Bull Canyon district, Starlight Group area.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 136 tons had been mined at a grade of 0.27% U308, producing 734 lbs of U308, and 1.96% V205, producing 5,324 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Surprise (Joe Jr.)

LOCATION: sec. 4, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 33 and 34, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
 MAP MOAB
 PROD By 1971, 10 tons had been mined at a grade of 0.43% U308, producing 86 lbs of U308, and 2.59% V205, producing 518 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Swindler Dump

LOCATION:
 PROD Prior to 1971, 78 tons were recovered from the Swindler Mine dump at a grade of 0.08% U308.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Sylveys Pocket (Sylvia's Pocket)

LOCATION: UNLOCATABLE
 LCRM This deposit lies in Gypsum Valley.
 MAP MOAB
 PROD By 1971, 37 tons had been mined at a grade of 0.23% U308, producing 172 lbs of U308, and 1.90% V205, producing 1,408 lbs of V205.

Tango

LOCATION: sec. 18, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 534 tons had been mined at a grade of 0.28% U308, producing 2,992 lbs of U308, and 1.12% V205, producing 11,952 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Teapot Dome 2, 3

LOCATION: sec. 6, T. 45 N., R. 17 W.
 QUAD Naturita NW 7 1/2'
 MAP MOAB
 PROD By 1971, 9,161 tons had been mined at a grade of 0.18% U308, producing 33,710 lbs of U308, and 1.06% V205, producing 194,464 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Sandstone Member; gray, very fine- to medium-grained sandstone with abundant carbonized plant remains.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, coffinite, uraninite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S. Geol. Survey Prof. Paper 538, p. 12.

Terrible

LOCATION: N1/2 sec. 10, T. 45 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,067 tons had been mined at a grade of 0.19% U308, producing 4,143 lbs of U308, and 1.26% V205, producing 26,906 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Three Jacks (Yellow Bird)

LOCATION: sec. 14, T. 47 N., R. 20 W.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 PROD By 1971, 24,317 tons had been mined at a grade of 0.39% U308, producing 188,156 lbs of U308, and 1.85% V205, producing 902,125 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

MONTROSE COUNTY

DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Three Musketeers

LOCATION: sec. 8, T. 48 N., R. 18 W.
 LCRM Also sec. 7.
 QUAD Roc Creek 7 1/2'
 MAP MOAB
 PROD By 1971, 62 tons had been mined at a grade of 0.36% U308, producing 448 lbs of U308, and 0.34% V205, producing 422 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, Intermed, lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Thunderbolt

LOCATION: sec. 23, T. 46 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show only sec. 22.
 QUAD Naturita NW 7 1/2'
 MAP MOAB
 PROD By 1971, 15,361 tons had been mined at a grade of 0.29% U308, producing 90,269 lbs of U308, and 1.65% V205, producing 507,053 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

TNT 1, 2

LOCATION: sec. 21, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
 MAP MOAB
 PROD By 1971, 274 tons had been mined at a grade of 0.19% U308, producing 1,059 lbs of U308, and 0.65% V205, producing 3,555 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

TNT 3

LOCATION: sec. 21, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
 MAP MOAB
 PROD By 1971, 2,645 tons had been mined at a grade of 0.29% U308, producing 15,262 lbs of U308, and 1.64% V205, producing 86,506 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Too High Mine 2

LOCATION: sec. 36, T. 47 N., R. 20 W.
 LCRM U.S. A.E.C. Production Records also show location as sec. 31, T. 47 N., R. 19 W., Wray Mesa, Paradox district.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 PROD By 1971, 1,307 tons had been mined at a grade of 0.39% U308, producing 10,190 lbs of U308, and 2.85% V205, producing 74,434 lbs of V205.
 HOST Brushy Basin Member of the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Top Notch

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Paradox district.
 MAP MOAB
 PROD By 1971, 11 tons had been mined at a grade of 0.20% U308, producing 45 lbs of U308, and 1.98% V205, producing 435 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Tornado No. 5 & 6

LOCATION: sec. 3, T. 45 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 22, T. 44 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 873 tons had been mined at a grade of 0.23% U308, producing 4,041 lbs of U308, and 1.66% V205, producing 28,933 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Town House (Dolores Group)

LOCATION: sec. 20, T. 48 N., R. 17 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 17,190 tons had been mined at a grade of 0.26% U308, producing 90,711 lbs of U308, and 1.24% V205, producing 425,785 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

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Tramp 2

LOCATION: sec. 6, T. 47 N., R. 17 W.
 QUAD Davls Mesa 7 1/2'
 MAP MOAB
 PRUD By 1971, 24,368 tons had been mined at a grade of 0.27% U3O8, producing 130,679 lbs of U3O8, and 1.19% V2O5, producing 561,897 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Tramp Dumps

LOCATION: sec. 6, T. 47 N., R. 17 W.
 QUAD Davls Mesa 7 1/2'
 MAP MOAB
 PRUD By 1971, 10,410 tons had been mined at a grade of 0.09% U3O8, producing 17,768 lbs of U3O8, and 0.36% V2O5, producing 74,388 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Triangulation

LOCATION: sec. 54, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PRUD By 1971, 6,686 tons had been mined at a grade of 0.33% U3O8, producing 43,565 lbs of U3O8, and 2.26% V2O5, producing 302,869 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Tripod

LOCATION: sec. 20, T. 47 N., R. 17 W.
 QUAD Davls Mesa 7 1/2'
 MAP MOAB
 PRUD By 1971, 3,010 tons had been mined at a grade of 0.22% U3O8, producing 13,119 lbs of U3O8, and 1.37% V2O5, producing 82,245 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Tripod Low Grade (Tripod Dumps)

LOCATION: NW1/4 sec. 20, T. 47 N., R. 17 W.
 QUAD Davls Mesa 7 1/2'
 MAP MOAB

PRUD Prior to 1971, 15,189 tons had been recovered from the Tripod Mine dumps at a grade of 0.07% U3O8, producing 21,118 lbs of U3O8, and 0.36% V2O5, producing 108,760 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Truscott

LOCATION: sec. 28, T. 48 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show only sec. 32 and 33.
 QUAD Red Canyon 7 1/2', Atkinson Creek 7 1/2'
 MAP MOAB
 PRUD By 1971, 494 tons had been mined at a grade of 0.17% U3O8, producing 1,714 lbs of U3O8, and 0.74% V2O5, producing 7,354 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Twilight 1-2

LOCATION: sec. 2, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PRUD By 1971, 3,621 tons had been mined at a grade of 0.19% U3O8, producing 13,728 lbs of U3O8, and 0.60% V2O5, producing 43,219 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Twin Sisters

LOCATION: sec. 19, T. 48 N., R. 18 W.
 QUAD Roc Creek 7 1/2'
 MAP MOAB
 PRUD By 1971, 122 tons had been mined at a grade of 0.35% U3O8, producing 854 lbs of U3O8, and 2.92% V2O5, producing 7,134 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Two Bits (Joker Group)

LOCATION: sec. 34, T. 46 N., R. 18 W.
 LCRM Also sec. 35.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PRUD By 1971, 42 tons had been mined at a grade of 0.25% U3O8, producing 209 lbs of U3O8, and 1.90% V2O5, producing 1,593 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

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Two Shovel

LOCATION: sec. 18, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 17.
 QUAD Paradox 7 1/2'
 MAP MOAB
 PROD By 1971, 62 tons had been mined at a grade of 0.17% U308, producing 211 lbs of U308, and 0.96% V205, producing 1,194 lbs of V205
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

U.S. Grant

LOCATION: sec. 8, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records only show sec. 7
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 5,798 tons had been mined at a grade of 0.37% U308, producing 42,803 lbs of U308, and 1.70% V205, producing 197,251 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Uncle Sam

LOCATION: sec. 13, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 166 tons had been mined at a grade of 0.15% U308, producing 513 lbs of U308, and 0.86% V205, producing 2,859 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Upper Valley View

LOCATION:
 LCST UNLOCATABLE
 MAP MOAB
 PROD By 1971, 177 tons had been mined at a grade of 0.37% U308, producing 1,326 lbs of U308, and 1.18% V205, producing 4,190 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

URA

LOCATION: sec. 29, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 118,005 tons had been mined at a grade of 0.17% U308, producing 401,335

lbs of U308, and 0.72% V205, producing 1,695,866 lbs of V205.

HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (cointite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Uranium Girl (Emergency Claim)

LOCATION: sec. 14, T. 47 N., R. 20 W.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 PROD By 1971, 2,211 tons had been mined at a grade of 0.38% U308, producing 15,683 lbs of U308, and 1.79% V205, producing 79,314 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, uranium, vanadium, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Uranus (Dorothy Jean)

LOCATION: sec. 18, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 29,584 tons had been mined at a grade of 0.56% U308, producing 328,443 lbs of U308, and 1.61% V205, producing 949,861 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Uravan Group No. 5

LOCATION: sec. 3, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MNZ Uranium, vanadium.
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Uravan No. 2

LOCATION: SE 1/4 sec. 4, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 7,519 tons had been mined at a grade of 0.18% U308, producing 26,636 lbs of U308, and 0.88% V205, producing 132,855 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Ureka (Carpenter Ridge)

LOCATION: sec. 10, T. 48 N., R. 19 W.
 QUAD Roc Creek 7 1/2'
 MAP MOAB

MONTROSE COUNTY

PROD By 1971, 346 tons had been mined at a grade of 0.09% U308, producing 626 lbs of U308, and 0.95% V205, producing 6,576 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Uranium

LOCATION: sec. 31, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD No production.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Ute 4

LOCATION: sec. 4, T. 45 N., R. 19 W.
 LCRM This deposit lies in Gypsum Valley.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 DYEL As of 1971, 59 tons had been mined at a grade of 0.07% U308, producing 80 lbs of U308, and 0.62% V205, producing 729 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Vaden View

LOCATION: sec. 13, T. 46 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 11, 12, and 14.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 27,550 tons had been mined at a grade of 0.23% U308, producing 127,818 lbs of U308, and 0.01% V205, producing 7,310 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Valentine

LOCATION: NE1/4NE1/4 sec. 24, T. 47 N., R. 18 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 58 tons had been mined at a grade of 0.22% U308, producing 257 lbs of U308, and 1.52% V205, producing 1,766 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Valley View (N. Star)

LOCATION: sec. 20, T. 47 N., R. 17 W.

LCRM U.S. A.E.C. Production Records show sec. 7 and 8, T. 48 N., R. 19 W. as location.
 QUAD Davis Mesa 7-1/2'
 MAP MOAB
 PROD By 1971, 9,205 tons had been mined at a grade of 0.27% U308, producing 50,366 lbs of U308, and 1.13% V205, producing 208,090 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Van

LOCATION: sec. 12, T. 46 N., R. 17 W.
 QUAD Uravan 7 1/2', Naturita NW 7 1/2'
 MAP MOAB
 PROD By 1971, 860 tons had been mined at a grade of 0.24% U308, producing 4,067 lbs of U308, and 1.07% V205, producing 18,441 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Van 1-3 (Tulla 1,3)

LOCATION: sec. 14, T. 46 N., R. 17 W.
 QUAD Naturita NW 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Vanablend 47

LOCATION: sec. 29, T. 48 N., R. 16 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 22, 26, 35 and 36, T. 48 N., R. 17 W.
 QUAD Atkinson Creek 7 1/2'
 MAP MOAB
 PROD By 1971, 21 tons had been mined at a grade of 0.15% U308, producing 63 lbs of U308, and 2.11% V205, producing 887 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, uranium, vanadium, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Vanadite

LOCATION: sec. 29, T. 47 N., R. 17 W.
 QUAD Davis Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 2,150 tons had been mined at a grade of 0.35% U308, producing 14,935 lbs of U308, and 1.61% V205, producing 69,423 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Vanadium King 1-8

LOCATION: sec. 22, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'

MONTROSE COUNTY

MAP MOAB
 PROD By 1971, 13,933 tons had been mined at a grade of 0.33% U3O8, producing 90,196 lbs of U3O8, and 3.49% V2O5, producing 973,602 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Venture Lode (Venture Lode)

LOCATION: sec. 31, T. 46 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show location as sec. 36, T. 46 N., R. 16 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 75 tons had been mined at a grade of 0.10% U3O8, producing 147 lbs of U3O8, and 1.00% V2O5, producing 1,498 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Vernita

LOCATION: sec. 27, T. 46 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 26, 34, and 35.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, one ton had been mined at a grade of 0.05% U3O8, producing one lb of U3O8, and 1.55% V2O5, producing 31 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Victory 2

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Atkinson Mesa district.
 MAP MOAB
 PROD By 1971, three tons had been mined at a grade of 0.10% U3O8, producing six lbs of U3O8.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Virgin Mine 3

LOCATION: sec. 22, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD By 1971, 24,044 tons had been mined at a grade of 0.28% U3O8, producing 134,668 lbs of U3O8, and 1.89% V2O5, producing 907,933 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Sandstone Member; gray and buff medium-grained sandstone

and mudstone with abundant carbonized logs and plant trash pockets.
 MNZ Uranium, vanadium, coffinite, uraninite, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. L., 1967, U.S. Geol. Survey Prof. Paper 533, p. 12.

Vista Grande Mine (Lion Creek)

LOCATION: SE1/4NE1/4SE1/4 sec. 2, T. 47 N., R. 20 W.
 LCRM Also sec. 12.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 PROD By 1971, 69 tons had been mined at a grade of 0.50% U3O8, producing 690 lbs of U3O8, and 2.58% V2O5, producing 3,563 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Yonnie 5

LOCATION:
 LCRM U.S. A.E.C. Production Records show location as Nyswonger Mesa.
 QUAD Paradox 7 1/2'
 MAP MOAB
 PROD By 1971, 8 tons had been mined at a grade of .023% U3O8, producing 37 lbs of U3O8, and 1.45% V2O5, producing 232 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Wamba

LOCATION: sec. 1, T. 45 N., R. 18 W.
 LCRM Also sec. 6, T. 45 N., R. 17 W. and sec. 36, T. 46 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD No production.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Wanda 3

LOCATION: sec. 28, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 8, 17, 18, 19, 29, 30, 33.
 QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
 MAP MOAB
 PROD By 1971, 314 tons had been mined at a grade of 0.18% U3O8, producing 1,148 lbs of U3O8, and 1.47% V2O5, producing 9,247 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

MONTROSE COUNTY

DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Watchman

LOCATION: sec. 34, T. 46 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show location as sec. 3, T. 45 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD By 1971, 99 tons had been mined at a grade of 0.18% U308, producing 347 lbs of U308, and 0.88% V205, producing 1,740 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Waterloo

LOCATION: sec. 20, T. 48 N., R. 18 W.
LCRM This deposit lies in the Carpenter Flats area.
QUAD Roc Creek 7 1/2'
MAP MOAB
PROD By 1971, 6 tons had been mined at a grade of 0.31% U308, producing 37 lbs of U308, and 2.97% V205, producing 357 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Wedge 1

LOCATION: sec. 10, T. 47 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 9.
QUAD Uravan 7 1/2'
MAP MUAB
PROD By 1971, 18,803 tons had been mined at a grade of 0.28% U308, producing 104,467 lbs of U308, and 0.94% V205, producing 352,505 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, low vanadium, Intermed. lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Wedge Mine (PI Warren Mine)

LOCATION: SE 1/4 sec. 2, T. 47 N., R. 20 W.
LCRM U.S. A.E.C. Production Records also show sec. 11 and 12.
QUAD Mount Peale SE 7 1/2'
MAP MOAB
PROD By 1971, 10,622 tons had been mined at a grade of 0.25% U308, producing 52,282 lbs of U308, and 1.25% V205, producing 265,401 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Wednesday & Thursday

LOCATION: sec. 22, T. 47 N., R. 17 W.
QUAD Uravan 7 1/2'
MAP MOAB
PROD By 1971, 28,141 tons had been mined at a grade of 0.30% U308, producing 166,157 lbs of U308, and 2.63% V205, producing 1,477,980 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

West

LOCATION: sec. 35, T. 46 N., R. 18 W.
LCRM U.S. A.E.C. Production Records show location as sec. 2, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD By 1971, 36 tons had been mined at a grade of 0.55% U308, producing 394 lbs of U308, and 2.54% V205, producing 1,828 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

West Lode

LOCATION:
LCST UNLOCATABLE
MAP MOAB
PROD By 1971, 131 tons had been mined at a grade of 0.24% U308, producing 634 lbs of U308, and 1.44% V205, producing 3,769 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

West Martha Belle

LOCATION: sec. 31, T. 49 N., R. 17 W.
QUAD Red Canyon 7 1/2'
MAP MOAB
PROD By 1971, 6,557 tons had been mined at a grade of 0.21% U308, producing 27,512 lbs of U308, and 1.00% V205, producing 130,824 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

MONTORSE COUNTY

Whang Doodle

LOCATION: NW1/4 sec. 13, T. 46 N., R. 18 W.
 LCRM Monogram Mesa area, Bull Canyon district.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 131 tons were produced at grades of 0.19% U308 and 1.24% V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1977
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

White Cow

LOCATION: sec. 1, T. 45 N., R. 20 W.
 LCRM U.S. A.E.C. Production Records also show sec. 2.
 QUAD Mount Peale 4 SE 7 1/2'
 MAP MOAB
 PROD By 1971, 73 tons had been mined at a grade of 0.24% U308, producing 349 lbs of U308, and 1.85% V205, producing 2,698 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

White Crow

LOCATION: sec. 3, T. 45 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 9 tons had been mined at a grade of 0.23% U308, producing 42 lbs of U308, and 1.79% V205, producing 322 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

White Face

LOCATION: sec. 34, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 28.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD By 1971, 14,859 tons had been mined at a grade of 0.27% U308, producing 79,351 lbs of U308, and 2.08% V205, producing 619,270 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Whitney

LOCATION: sec. 35, T. 47 N., R. 17 W.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD By 1971, 27,329 tons had been mined at a grade of 0.22% U308, producing 121,783 lbs

of U308, and 1.63% V205, producing 890,445 lbs of V205.

HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Whiz Bang

LOCATION: S1/2SE1/4 sec. 4, T. 45 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 32 tons had been mined at a grade of 0.19% U308, producing 122 lbs of U308, and 1.50% V205, producing 957 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Wild Cat 2

LOCATION: sec. 28, T. 48 N., R. 18 W.
 LCRM This deposit lies in the Uravan district.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 4 tons had been mined at a grade of 0.55% U308, producing 44 lbs of U308, and 3.47% V205, producing 278 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Wild Horse (Adak, Colorado)

LOCATION: E1/2 sec. 11, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 11,242 tons had been mined at a grade of 0.22% U308, producing 49,464 lbs of U308, and 0.73% V205, producing 163,418 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Wildcat 3

LOCATION: sec. 28, T. 48 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 27.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 426 tons had been mined at a grade of 0.16% U308, producing 1,351 lbs of U308, and 1.36% V205, producing 11,604 lbs of V205.
 MNZ Uranium, vanadium.

MONTROSE COUNTY

DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Wildcat 8

LOCATION: sec. 27, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 376 tons had been mined at a grade of 0.27% U308, producing 2,060 lbs of U308, and 1.59% V205, producing 11,987 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971.
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Willie Dee

LOCATION: sec. 21, T. 48 N., R. 18 W.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, one ton had been mined at a grade of 0.05% U308, producing one lbs of U308, and 1.95% V205, producing 39 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Windy Day

LOCATION: sec. 3, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 10.
 QUAD Uravan 7 1/2'
 MAP MOAB
 PROD By 1971, 245 tons had been mined at a grade of 0.33% U308, producing 1,603 lbs of U308, and 1.88% V205, producing 9,214 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite; high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Woodchuck

LOCATION: sec. 23, T. 48 N., R. 19 W.
 LCRM This deposit lies in the Carpenter Flat area.
 QUAD Rocky Creek 7 1/2'
 MAP MOAB
 PROD By 1971, 9 tons had been mined at a grade of 0.013% U308, producing 23 lbs of U308, and 1.19% V205, producing 214 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite; high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Woodward

LOCATION: sec. 41, T. 45 N., R. 18 W.
 LCRM This deposit lies in the Bull Canyon district.
 QUAD Bull Canyon 7 1/2'

MAP MOAB
 PROD By 1971, one ton had been mined at a grade of 0.30% U308, producing 6 lbs of U308, and 2.60% V205, producing 52 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Wray Mesa

LOCATION: sec. 30, T. 47 N., R. 19 W.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 PROD As of 1971, 61 tons had been mined at a grade of 0.24% U308, producing 295 lbs of U308, and 2.21% V205, producing 2,697 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Wright

LOCATION: sec. 27, T. 48 N., R. 17 W.
 QUAD Atkinson Creek 7 1/2'
 MAP MOAB
 PROD By 1971, 2,695 tons had been mined at a grade of 0.39% U308, producing 20,861 lbs of U308, and 1.36% V205, producing 73,304 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Yellow Bird 1 (Deer Run)

LOCATION: sec. 33, T. 47 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 28.
 QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
 MAP MOAB
 DVEL By 1971, 540 tons had been mined at a grade of 0.22% U308, producing 2,425 lbs of U308, and 0.13% V205, producing 1,390 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Yellow Bird Mines (Center)

LOCATION: sec. 13, T. 47 N., R. 20 W.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 PROD By 1971, 2,704 tons had been mined at a grade of 0.21% U308, producing 11,338 lbs of U308, and 1.65% V205, producing 89,095 lbs of V205.

MONTROSE COUNTY

HOST Jurassic Morrison Formation, Salt Wash Sandstone Member; brown, fine- to coarse-grained sandstone and green mudstone with some carbonized plant remains and sparse logs.
 MNZ Uranium, vanadium, carnotilite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S. Geol. Survey Prof. Paper 538, 121 p. (p. 12).

Yellow Jacket

LOCATION: sec. 33, T. 48 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show T. 47 N.
 QUAD Davis Mesa 7 1/2', Uravan 7 1/2'
 MAP MOAB
 PROD By 1971, 2,581 tons had been mined at a grade of 0.17% U3O8, producing 9,018 lbs of U3O8, and 0.71% V2O5, producing 36,932 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Yellow Spot Group (New Yellow Spot Mine)

LOCATION: SW1/4SW1/4 sec. 6, T. 47 N., R. 19 W.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Yellowbird D

LOCATION: SE1/4 sec. 13, T. 47 N., R. 20 W.
 LCRM Same as Butterfly, Yellowbird and Yellowbird D. (refer to original mine name). Area now covered by the Wat 16 and Prayer 12, La Sal Creek area, Paradox district.
 QUAD Mount Peale SE 7 1/2'
 MAP MOAB
 PROD By 1971, 120 tons had been mined at a grade of 0.45% U3O8, producing 1,089 lbs of U3O8, and 2.07% V2O5, producing 4,966 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Yip Yip

LOCATION: sec. 1, T. 47 N., R. 20 W.
 LCRM Also reported as sec. 2, 11, 12, T. 46 N.
 QUAD Mount Peale 1 SE 7 1/2'
 MAP MOAB
 PROD As of 1971, 582 tons had been mined at a grade of 0.204% U3O8.
 HOST Brushy Basin Member of the Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Yucca

LOCATION: S1/2SW1/4 sec. 31, T. 47 N., R. 19 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Zebra

LOCATION: sec. 31, T. 46 N., R. 17 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 466 tons had been mined at a grade of 0.19% U3O8, producing 1,767 lbs of U3O8, and 1.67% V2O5, producing 15,597 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Zell Group (Zella Group)

LOCATION: sec. 16, T. 48 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 10 and 15.
 QUAD Red Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 184 tons had been mined at a grade of 0.34% U3O8, producing 1,238 lbs of U3O8, and 1.39% V2O5, producing 5,101 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotilite - tyuyamunite, high vanadium, intermed. lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

MORGAN COUNTY

There are no recorded occurrences of uranium in the county. The potential for resources to be found in the county is poor.

The county is largely covered by Quaternary eolian deposits, and in some places Cretaceous Pierre Shale

is exposed. Recent gravels and alluvium fill the river valley of the South Platte River.

None of the rocks that outcrop in the county are considered to be favorable host rocks for uranium. This makes the potential for resources of uranium to be found in the county very small.

OTERO COUNTY

No uranium occurrences have been found in the county to date, and the potential is fairly low for discovering any. The surrounding counties have very minor occurrences but none that would indicate any extension into Otero County.

Otero County lies in the southeastern part of the state in sedimentary terrane, primarily of Late Cretaceous age. The Niobrara Formation is exposed over much of the county, with Dakota Sandstone, and Benton Shale also covering large areas. A few exposures of the Lower Cretaceous Purgatoire Formation and the

Jurassic Morrison Formation are found, with alluvium covering much of the Arkansas River Valley floor.

Uranium deposits in the Lower Cretaceous Dakota Sandstone and in the Jurassic Morrison Formation have proved economic in the past in other parts of the state, and it is conceivable that resources could also exist in these units within Otero County. The Dockum Group (Upper Triassic) has shown limited potential in certain southeastern areas of the state, and exploration drilling could possibly discover some mineralization in that formation at depth.

OURAY COUNTY

No production of uranium from Ouray County has been reported. The potential for known occurrences to become reserves is small.

The county lies on the northern edge of the San Juan Uplift and is partially covered by the Tertiary volcanic rocks associated with the uplift. The northern half of the county is largely covered by Cretaceous rocks, including the Mancos Shale and the Dakota Sandstone. These sediments dip away from the uplift and quickly become flat-lying in the northern part of the county.

Almost all of the occurrences in Ouray County are associated with some type of hydrothermal activity. They are associated with veins whose primary values are for silver, gold, lead, and zinc. None of the occurrences have potential for developable uranium reserves. The one exception is a group of occurrences in the Uncompaghe slates and quartzites near Bear Creek Falls. These occurrences are reported to contain only uranium as the primary metal, with associated minor pyrite. Although these rocks show some potential for some developable reserves, the area of outcrop of the Uncompaghe is limited in the county.

OURAY COUNTY

Bear Creek Falls

LOCATION: T. 43 N., R. 7 W.
 LCST UNSURVEYED
 LCRM The occurrence is 300 ft west of Bear Creek Falls, about 1 mile south of Ouray on Highway 550.
 QUAD Ironton 7 1/2'
 HOST Shear zone in slate of the Precambrian Uncompahgre Formation.
 STRC Shear zone is approximately 6 ft wide and strikes about (E-W?).
 MNZ A chip sample of the slate had a value of .099% U. Four channel samples across the shear had values of .003 to .014% U. Pyrite is associated with uranium in the shear and is absent outside. Also the slate away from the shear is not radiometrically anomalous.
 DOI 1958
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Ouray County, Colorado. Pierson, C. T.; and others, 1958. Burbank, W. S.; and others, 1953. Kelly, V. C., 1946, Geology, ore deposits and mines of the Mineral Point, Poughkeepsie, and Upper Uncompahgre districts, Ouray, San Juan and Hinsdale Counties, Colorado, Colorado Sci. Soc., Proc., v. 14, no. 7, p. 287-311. Burbank, W. S., 1930, Revisions of geologic structure and stratigraphy in the Ouray district of Colorado and its bearing on ore deposition, Colo. Sci. Soc., Proc., v. 12, no. 6, p. 151-232, illus. (incl. geol. map).

Bear Creek Mine

LOCATION: T. 43 N., R. 7 W.
 LCST UNCERTAIN
 LCRM Original directions are as follows: "From town of Ouray travel south 2.1 mi. on US 550. Mine is just off road on east side".
 QUAD Ouray 7 1/2' & Ironton 7 1/2'
 DVEL There are about 100 ft of old workings.
 BKG .05 mr/hr
 RNG .05 to .30 mr/hr
 HOST Vein in Precambrian schists and quartzite of the Uncompahgre Formation.
 MNZ Pitchblende, calcite, barite, quartz and pyrite. Samples values ranged from .003 to .099% U.
 RMKS See U.S. Geol. Survey Circ. 236, p. 3, 10.
 DOI 1958
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Ouray County, Colorado. Pierson, C. T.; and others, 1958. Burbank, W. S.; and Pierson, C. T., 1953.

Campbird Mine

LOCATION: T. 43 N., R. 8 W.
 LCST UNSURVEYED
 LCRM Mine is shown on topo map.
 QUAD Ironton 7 1/2'
 DVEL Active base metal and gold mine.
 BKG .04 mr/hr

RNG .04 to 1.0 mr/hr
 HOST Veins in late Tertiary volcanics.
 MNZ Gold, silver, lead, copper, zinc.
 RMKS Radioactivity was found in small areas, locations were: 1) NW of vein; 14th level, approximately 760 ft west of vein crosscut. 2) HW and FW of vein; 14th level, approximately 700 ft west of main crosscut. 3) HW and FW of vein; 5th level, approximately 223 ft west of main winze. 4) FW of vein, 5th level, approximately 288 ft east of main winze.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Ouray, County, Colorado.

Carbonate King Mine

LOCATION: T. 47 N., R. 7 W.
 LCST UNSURVEYED
 LCRM Shown on topo map just east of Red Mountain No. 2.
 QUAD Ironton 7 1/2'
 DVEL Inactive gold-silver mine with extensive workings.
 HOST Hydrothermal chimney and veins in Tertiary volcanics.
 MNZ Galena, sphalerite, pyrite, silver, gold, enargite, tennantite, pitchblende. An ore sample had a value of .017% U.
 DOI 1958
 REF Pierson, C. T.; and others, 1958. Burbank, W. S.; and others, 1953.

Dunmore Mine

LOCATION: T. 43 N., R. 7 W.
 LCST UNCERTAIN
 LCRM Original directions to occurrence are as follows: "about 1/4 mile southwest of junction of Red Mountain Creek with Uncompahgre River".
 QUAD Ironton 7 1/2'
 DVEL Two adits, each with about 1,000 ft of workings.
 HOST Disseminations, veins, and chimney in Precambrian slate and quartzite of the Uncompahgre Formation.
 STRC Slate has been dragged against the quartzite by the Dunmore Fault.
 MNZ Pitchblende?, chalcopryrite, huebnerite, gold, silver, and aikinite, in a gangue of quartz, limonite, hematite, chlorite, biotite, and pyrite.
 RMKS Pitchblende is disseminated in minute amounts in the quartzite near the slate-quartzite contact. The anomalous quartzite occurs in an area of about 300 square ft in the lower adit, 350 ft S78°W from the portal.
 DOI 1958
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Ouray County, Colorado. Pierson, C. T.; and others, 1958. Burbank, W. S.; and Pierson, C. T., 1953. Kelly, V. C., 1946.

Genessee Tunnel

LOCATION: T. 42 N., R. 8 W.
 LCST UNSURVEYED
 LCRM Mine is shown on topo map just east of the Idarado Mine which is adjacent to US 550.
 QUAD Ironton 7 1/2'

OURAY COUNTY

DVEL Inactive gold-silver mine with extensive workings.
 HOST Hydrothermal chimney in Tertiary volcanics.
 MNZ Galena, sphalerite, pyrite, silver, gold, enargite, tennantite. An ore sample had a value of .13% U.
 DOI 1958
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Ouray County, Colorado. Pierson, C. T.; and others, 1958. Burbank, W. S., 1953.

Guston Mine

LOCATION: T. 42 N., R. 8 W.
 LCST UNSURVEYED
 LCRM Shown on topo map just east of the Idaho mine which is adjacent to US 550.
 QUAD Ironton 7 1/2'
 DVEL Inactive gold-silver mine with extensive workings.
 HOST Hydrothermal chimney in Tertiary volcanics.
 MNZ Galena, sphalerite, pyrite, silver, gold, enargite, tennantite. Samples had values ranging from .023 to .078% U.
 DOI 1958
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Ouray County, Colorado. Pierson, C. T.; and others, 1958. Burbank, W. S., 1958.

Larson Property

LOCATION: T. 43 N., R. 8 W.
 LCST UNSURVEYED
 LCRM Approximately 1/4 mile northwest of Ironton.
 QUAD Ironton 7 1/2'
 DVEL An inactive gold mine.
 HOST Vein in Tertiary latite.
 MNZ Pyrite, chalcopryrite, ilmonite, quartz, sericite, sooty pitchblende. A chip sample had a value of .034% U.
 RMKS Radioactive material disseminated in country rock and veins.
 DOI 1958
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Ouray County, Colorado. Pierson, C. T.; and others, 1958. Burbank, W. S., 1953. Colorado Sci. Soc. Proc., 1941, v.14, no. 5.

Michael Breen Mine

LOCATION: sec. 21, T. 43 N., R. 7 W.
 LCST UNSURVEYED
 LCRM On the Uncompahgre River approximately 1.4 miles upstream from point where US 550 crosses river.
 QUAD Ironton 7 1/2'
 DVEL An old lead-zinc mine with over 3,000 ft of workings.
 BKG .02 mr/hr
 RNG To 240 mr/hr
 HOST Vein in Tertiary San Juan Tuff.
 STRC Vein strikes N20°W and dips 85°S.
 ALT Wall rock has color changes from dark grey to pink or cream color up to 1/2 in. from vein.
 MNZ Galena, sphalerite, quartz, pyrite, chalcopryrite, inactive bismuth, hematite. Pitchblende is present in arborescent and botryoidal masses.

RMKS Radioactivity was found in two places: on level 9 of the mine and on surface outcrop above the level 9 occurrence.
 DOI 1958
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Ouray County, Colorado. Pierson, C. T.; and others, 1958. Burbank, W. S.; and Pierson, C. T., 1953.

National Bell

LOCATION:
 LCST UNSURVEYED
 LCRM The property is 1,000 ft east of US 550, 1/2 mile north of Red Mountain Pass, and shown on topo map.
 QUAD Ironton 7 1/2'
 DVEL Inactive gold-silver mine with extensive workings.
 BKG .03 to .06 mr/hr
 RNG To .18 mr/hr
 HOST Hydrothermal chimney deposit in Tertiary volcanic latites.
 MNZ Pyrite, enargite, chalcopryrite, galena, sphalerite, cerrussite, and ilmonite in a gangue of quartz, dickite, zunyite, sericite, and clays. The radioactive material is in a mixed sulphide mass with galena and in granular pyritic material. One sample of friable granular pyritic lead-sulfide ore from dump at shaft had values of .028% U and .002% U.
 DOI 1958
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Ouray County, Colorado. Pierson, C. T.; and others, 1958. Burbank, W. S., 1953. Colo. Sci. Soc. Readings, 1941, v. 14, no. 5.

Ouray Hot Springs

LOCATION: sec. 31, T. 44 N., R. 7 W.
 LCST UNSURVEYED
 LCRM 500 ft west of main street in town of Ouray.
 QUAD Ouray 7 1/2'
 HOST Calcareous tufa of a hot spring deposit.
 STRC Located near the Ouray Fault which strikes NW-SE.
 MNZ Sample of the tufa had a value of .11% eU and .001% U.
 DOI 1958
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Ouray County, Colorado. Pierson, C. T.; and others, 1958. Burbank, W. S.; and others, 1953. George, R. D.; and others, 1920. Mineral Waters of Colorado, Colo. Geol. Survey Bull. 11, illus. incl. geol. map, 474 p.

Pony Express Mine

LOCATION: NW1/4 sec. 19, T. 44 N., R. 7 W.
 LCST UNSURVEYED
 LCRM Approximately 1,000 ft east of Lake Lenore.
 QUAD Ouray 7 1/2'
 DVEL Inactive silver mine with extensive workings.
 HOST Vein and mantos in Jurassic Entrada Sandstone and limestone and shale in Pony Express

OURAY COUNTY

Member of the Wanakha Formation.

STRC Vein strikes N80°E and the dip is nearly vertical.

MNZ Pyrite, galena, sphalerite, chalcopryite, silver minerals, limonite, malachite, and manganese oxides in a gangue of quartz, barite, calcite and manganocalcite. A 1 ft channel sample taken on some dipping shale beds near the vein had a value of .010% U3O8 and may be indicative of normal uranium values in the shales.

DOI 1951

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Ouray County, Colorado. Burbank, W. S., 1940, Structural controls of ore deposition in the Uncompahgre district, Ouray County, Colorado, with suggestion for prospecting. U.S. Geol. Survey Bull. 906-E, p. 189-265.

DOI 1951

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Ouray County, Colorado. Burbank, W. S., 1940, Structural controls of ore deposition in the Uncompahgre district, Ouray County, Colorado, with suggestion for prospecting. U.S. Geol. Survey Bull. 906-E, p. 189-265.

Robinson Mine

LOCATION: T. 42 N., R. 8 W.

LCST UNSURVEYED

LCRM 8,100 ft northeast of Red Mountain Pass.

QUAD Ironton 7 1/2'

DVEL Inactive gold-silver mine with extensive workings.

HOST Hydrothermal chimney in Tertiary volcanics.

MNZ Galena, sphalerite, pyrite, silver, gold, enargite, tennantite. An ore sample had a value of .06% U.

DOI 1958

REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Ouray County, Colorado. Pierson, C. T.; and others, 1958.

Yankee Girl Shaft

LOCATION: T. 42 N., R. 8 W.

QUAD Ironton 7 1/2'

DVEL Inactive gold-silver mine with extensive workings.

HOST Hydrothermal chimney in Tertiary volcanics.

MNZ Galena, sphalerite, pyrite, silver, gold, enargite, tennantite. A sample had a value of .16% U.

DOI 1958

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Ouray County, Colorado. Pierson, C. T.; and others, 1958. Burbank, W. S., 1953.

PARK COUNTY

Production from Park County has been small. Records show that by 1971, 1,579 tons of ore had been mined, producing 5,532 lb of U_3O_8 . Excellent potential exists for uranium reserves to be found within the county.

The geology of the county is quite complex. Rocks of many ages and types are juxtaposed by Tertiary intrusions and a series of northwest-southeast-trending faults and fault zones.

A large part of the county lies within South Park, an Intermontane basin ranging from 9,000 to 10,000 feet in elevation. Mesozoic and Upper Paleozoic rocks crop out in the basin.

The Park Range bounds the county on the west, and mountains of the Front Range bound it on the east. Precambrian rocks comprise most of the Front Range, and lower Paleozoic rocks and Tertiary intrusions form the Park Range. Uranium occurrences in the county are found in many of these rock types and structures.

The most important occurrences in the county include Garo Deposit-Shirley May Mine, Gem Dandy, Lucky Jim, and Tedco and Mac George. These mines account for over 90 percent of the uranium production within the county. The Tedco-Mac George and Gem Dandy prospects are located within a mile of each other near Kenosha Pass. The uranium in these prospects occurs as pods and lenses of autunite and uraninite in northwest-trending shear zones within Precambrian granite and biotite gneiss.

The Shirley May Mine near Garo has been explored for various metals since 1900 and was operated as early as 1919 for radium ore. In 1952 the mine was evaluated by the U.S. Geological Survey for uranium and vanadium resources. Uranium, vanadium, and copper are found in faulted sandstone blocks of the Permian-Pennsylvanian Minturn Formation at the deposit. The ore bodies are small, and reserve potential at the site appears to be limited. However, this type of occurrence is common in the Minturn Formation from the area of Vail Pass south to the southern Sangre de Cristo Range, and other prospects of this type may have better uranium potential.

The Lucky Jim Mine is approximately 14 miles north of the community of Hartsel. Forty-seven percent of all production from the county came from this mine. The uranium occurs in lake beds of the Tertiary Antero Formation east of the Elkhorn Thrust Fault. The fault separates the Antero Formation from Precambrian granitic rocks. Autunite, found along fractures and bedding planes, is reported to be the primary ore mineral.

Tertiary lacustrine sediments such as the Antero Formation and the Florissant lake beds have high potential for uranium reserves. Shear zones in Precambrian also have very good reserve potential. These are the two most extensively explored geologic environments in the county because they have been the hosts for a large amount of uranium produced. Uranium occurs in other geologic environments, and the possibility of uranium resources at these sites or in similar environments should not be discounted.

PARK COUNTY

Amrine and Perrique Claims (Lady Elk No. 1)

LOCATION: sec. 26, T. 12 S., R. 78 W.
 LCST UNCERTAIN
 LCRM Location also included sec. 27, 34, 35. Original directions to occurrence are as follows: "From Buena Vista take highway 24, 7 miles toward Antero Junction, turn left off highway. Go 2.6 miles, take right fork, go 1.9 miles, take left fork, go 0.4 miles take left fork, go 0.6 miles take right fork, go 0.8 miles to Lady Elk No. 1." Also reported as on south slope of Buffalo Peaks.
 QUAD Buena Vista 15'
 MAP MONTROSE
 DVEL There was one shallow open pit on the claims.
 PROD As of 1971, 45 tons had been mined at a grade of 0.12% U308, and 0.20% V205, containing 108 lbs of U308 and 180 lbs of V205.
 BKG .01 mr/hr
 RNG .01 to 1 mr/hr
 HOST Silicified, carbonaceous, iron-stained, fine-grained quartzite, thought to be the Ordovician Harding Quartzite, is the host. The mineralized horizon is four ft thick in places.
 MNZ No uranium minerals were identified. Manganosiderite fills vug and fractures in the quartzite, opal filled vugs are common. The host where mineralized is dark colored.
 DOI 1971
 REF R. C. Malan, 1978, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Park County, Colorado.

Balfour Mines

LOCATION: SW 1/4 sec. 8, T. 13 S., R. 74 W. 77
 LCST UNCERTAIN
 LCRM The directions to the location in the original PRR describes the location above. However, the location was given as sec. 6-18, T. 13 S., R. 7 W.; and sec 19-36, T. 12 S., R. 7 W.
 QUAD Guffey 7 1/2'
 MAP PUEBLO
 DVEL The area is reportedly an old gold mining district.
 BKG 0.01 mr/hr
 RNG 0.02 to 0.05 mr/hr
 HOST There are many different rock types in the area of the occurrence. They are a variety of extrusive rocks, and the Morrison, Dakota, Benton, Pierre and Florissant Formations.
 RMKS The reconnaissance appears to cover a large area and the location of the 5 x bg anomaly is very uncertain.
 DOI 1956
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Park County, Colorado.

Blue Bull Claim

LOCATION: sec. 35, T. 12 S., R. 78 W.
 LCST UNCERTAIN
 LCRM Reported to be about one mile southeast of Lady Elk Lode.
 DVEL A coal prospect adit.
 RNG 2 to 3 x bg.
 HOST Lignite in the Belden Shale of Pennsylvanian age.
 DOI 1959
 REF R. C. Malan, 1978, Personal Communication.

Boomer Mine (Shamrock-Irish Group)

LOCATION: sec. 21, T. 11 S., R. 72 W.
 QUAD Tarryall 7 1/2'
 MAP DENVER
 DVEL The mine was developed before 1895 as a silver prospect. A small amount of lead-silver ore was shipped. Later about 1917 the mine was prospected for molybdenum. Uraninite was discovered on the dump in the early 50's and in 1955 the mine was partly reopened as a uranium prospect. Little uranium was found but beryl was noted and the mine was a beryllium producer from 1956 to 1965.
 PROD It has been reported (Hawley and Wobus, 1977) "that it is likely the mine has produced more beryllium than any other mine in the U.S." The estimated amount is 3,000 tons of ore at a grade of approximately 5% BeO.
 BKG 0.05 mr/hr
 RNG 0.06 to 1.2 mr/hr
 HOST The deposit is contained in a greisen pipe in gneiss of the Precambrian Idaho Springs Formation, Boulder Creek Granodiorite and Silver Plume Granite.
 MNZ Beryl, bertrandite, galena, sphalerite, arsenopyrite, and uraninite were found in a muscovite quartz gangue. Grab samples had values of 0.02% to 0.74% U308.
 DOI 1969
 REF U.S. Bur. of Mines, 1977, (Unpubl.). Hawley, C. C., and Wobus, R. A., 1977. Gallagher, G. L., 1976. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Park County, Colorado.

Buckskin Joe Mine (Phillips Mine)

LOCATION: SW1/4SE1/4 sec. 3, T. 9 S., R. 78 W.
 QUAD Alma 7 1/2'
 MAP LEADVILLE
 DVEL There are extensive workings, with over 7,000 ft of crosscuts and drifts. The mine was worked during the 19th century for gold. After 1941, the mine was worked for zinc.
 RNG To 10 x bg.
 HOST Replacement bodies in the Cambrian Sawatch Quartzite and Peerless shale.
 STRC Vein strikes N20°E, dips 80°NW.
 MNZ Gold, silver, zinc, galena, pyrite. Grab sample had a value of .033% U308. No uranium minerals were identified.
 DOI 1951
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Park County, Colorado. Singewald,

PARK COUNTY

Q. D., and Butler, B. S., 1941, Ore deposits in the vicinity of the London fault of Colorado, U.S. Geol. Survey Bull. 911, 74 p.

Carson Mining and Development (Nina No. 7)

LOCATION: sec. 19, T. 13 S., R. 76 W.
 LCST UNCERTAIN
 LCRM Occurrence extends into sec. 20 and 21. Tailings? and prospect pits are shown in south half of sec. 20.
 QUAD Antero Reservoir 7 1/2'
 MAP PUEBLO
 DVEL Work reported consists of four bulldozer trenches and eight drill holes.
 BKG .01 mr/hr
 RNG .01 to 1 mr/hr
 HOST There is a question as to the host of this occurrence. Malan reports it is a trachyte flow, whereas the Preliminary Reconnaissance Report reports it as the following: fine-grained, gray, tuffaceous, bedded sandstone of the Oligocene Tallahassee Creek Conglomerate.
 STRC Mineralization occurs along small fractures.
 MNZ Autunite.
 DOI 1955
 REF R. C. Malan, 1978, Personal Communication. U.S. Bur. of Mines, 1977, (Unpubl.). Young, P., and Mickle, D. G., 1976. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Park County, Colorado.

Champaign Mine (Treasury Vault)

LOCATION: sec. 6, T. 9 S., R. 78 W.
 LCST UNSURVEYED
 QUAD Climax 7 1/2'
 MAP LEADVILLE
 DVEL There are a series of adits and prospects along vein.
 HOST Vein in Precambrian granite and Tertiary porphyry.
 MNZ Quartz, pyrite, ilmonite. No uranium minerals are identified.
 RMKS Values of 0.06 eU308 in radon gas were encountered in the mine, and 25,000 pico curies/l were measured after the tunnel was sealed all winter by snow.
 DOI 1951
 REF Robert U. King, 1977, Personal Communication. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Park County, Colorado. Singewald, Q. D., and Butler, B. S., 1941.

Chumway Park

LOCATION: sec. 19, T. 15 S., R. 73 W.
 MAP PUEBLO
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Garo Deposit (DuVall Discovery, Shirley May Mine)

LOCATION: sec. 16, T. 11 S., R. 76 W.
 LCRM One mile south of Garo. Also sec. 6, 7, 8, and 17.
 MAP DENVER

DVEL Shallow shafts, pits, and trenches. Prospect was open in 1917. One carload of ore was shipped to the Radium Company of Colorado in 1919 which had a value of about 1% U308.
 PROD U.S. A.E.C. Production Records show that in 1952, 180 tons were mined at a grade of 0.16% U308 and 0.71% V205, containing 593 lbs of U308.
 HOST Permo-Pennsylvanian red beds, micaceous sandstone and shale with thin limestone layers of the Jurassic Morrison Formation.
 STRC Beds strike N30°W and dip 50°NE.
 MNZ Copper-uranium vanadium minerals. Carnotite, torbernite-volborthite. Various samples range in value from 0.008 to 0.93% U, and 1.26 V205.
 RMKS The deposit was drilled by the U.S. Bur. of Mines and the report by Wilmarth, 1959, describes the geology.
 DOI 1951
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. Young, P., and Mickle, D. G., 1976. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Park County, Colorado. Wilmarth, V. R., 1959. Stark, and others, 1949, Geology and origin of South Park, Colorado, Memoir 33, Geol. Soc. of Am. Riley, L. B., 1946. Gulliotte, G. B., 1944, (RMO-49).

Gem Dandy (Jim Dandy)

LOCATION: sec. 9, T. 7 S., R. 75 W.
 LCST UNSURVEYED
 LCRM From Conoco station in Jefferson go east on U.S. 285 6.0 miles. Turn left; go 1.5 miles, turn right off main dirt road; go 0.8 mile, take left fork, follow trail for 0.3 mile to workings.
 QUAD Jefferson 7 1/2'
 MAP DENVER
 PROD By 1971, 372 tons had been mined at a grade of 0.21% U308, 0.01% V205, producing 1,570 lbs of U308, and 43 lbs of V205.
 BKG .3 mr/hr
 RNG 2-7 mr/hr
 HOST Precambrian Pikes Peaks Granite.
 STRC Mineralization appears to be in a shear or fault zone.
 MNZ Autunite and meta-uranocerite.
 DOI 1956
 REF U.S. A.E.C., 1977, Production Records, Colorado. Gallager, G. L., 1976. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Park County, Colorado. U.S. A.E.C., 1959, Guidebook, p. 4-28.

Goarmer Lease

LOCATION: N1/2SW1/4 sec. 19, T. 15 S., R. 73 W.
 PROD In 1966, 0.3 tons were mined at a grade of 0.28% U308, producing 2 lbs of U308, and 0.59% V205, producing 4 lbs of V205.
 HOST Pennsylvanian Minturn Formation.
 MNZ Autunite.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

PARK COUNTY

Gold Star

LOCATION: sec. 23, T. 11 S., R. 72 W.
 MAP DENVER
 DYEL There is one small pit, and a reported grade of 0.25% U308.
 HOST The mineralization is found in a weathered and decomposed light brown circular breccia body. The mineralization appears in an igneous environment, but it is possibly due to secondary enrichment.
 STRC The anomaly occurs in a circular pipe-like structure.
 ALT The rock is intensely altered to an earthy material.
 MNZ Identified minerals are: Uraninite [UO₂] Schoepite [UO₃ 2H₂O] Curite [3PbO 8 UO₃ 5H₂O] Soddyite [(UO₂)₅ (SiO₄)₂ 5H₂O] plus 4 ppm Ag, 441 ppm Pb, and 128 ppm Zn.
 RMKS Alteration, structure, and mineralization indicate a secondary enrichment, possibly of a greisen pipe which are abundant in the area. See USGS Prof. Paper 608-A for description of the pipes.
 REF Gallagher, G. L., 1976. Hawley, C. C., 1969.

Hartsel Ranch (Airborne Anomaly No. 6)

LOCATION: NW 1/4 sec. 14, T. 13 S., R. 74 W.
 LCST UNCERTAIN
 LCRM "From Hartsel go south on Colo. 9 for 8.75 miles, go left for 3.5 miles. Anomaly is just right of road."
 QUAD Guffey NW 7 1/2'
 MAP PUEBLO
 BKG .016 mr/hr
 RNG .016 to .032 mr/hr
 HOST Precambrian granite.
 MNZ No visible minerals.
 DOI 1954
 REF Young P., and Mickle, D. G., 1976. Gallagher, D. G., 1976. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Park County, Colorado.

Hass 1-12

LOCATION: sec. 9, T. 15 S., R. 74 W.
 LCST UNCERTAIN
 LCRM Also sec. 10.
 PROD According to U.S. A.E.C. Production Records in 1960, 16 tons of ore averaging 0.10% U308 and containing 32 lbs of U308 was produced from the Hass No. 1 Claim.
 HOST Oligocene Tallahassee Creek Conglomerate.
 MNZ Autunite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Hill Top Claims

LOCATION: SE 1/4 sec. 12, T. 12 S., R. 72 W.
 LCST UNCERTAIN
 LCRM Directions as given are as follows: "From Lake George, 1 mile west on Highway 24, 3 miles north on Colo. 77, 2 miles southwest

on mine road to claims." These directions indicate prospect could be in SE 1/4 sec. 2 instead of sec. 12.

QUAD Tarryall 7 1/2'
 MAP DENVER
 DYEL There is one pit and one cut.
 BKG .03 mr/hr
 RNG .03 to .15 mr/hr
 HOST Zoned pegmatite in Precambrian Pikes Peak Granite.
 MNZ Quartz, biotite, muscovite, plagioclase, orthoclase, autunite.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). Gallagher, G. L., 1976. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Park County, Colorado.

Horn Property

LOCATION: sec. 7, T. 7 S., R. 76 W.
 LCST UNSURVEYED
 LCRM The occurrence extends from sec. 7 into sec. 8.
 MAP DENVER
 DYEL There are several pits, and three adits in area.
 BKG 150 cps
 RNG 150-1200 cps
 HOST Cretaceous Dakota Sandstone and Precambrian granite.
 STRC Joints in the Dakota and granite control the mineralization.
 MNZ Autunite and rare earth type mineral?
 RMKS Autunite seen on cracks in Dakota Sandstone. Also along fractures and joints in granite. Granite approximately one mile southeast of pass has abundant crystals of a dark rare earth type mineral.
 DOI 1977
 REF Western Nuclear Submittals file, 1977.

Kentucky Belle Mine

LOCATION: T. 8 S., R. 78 W.
 LCST UNSURVEYED
 LCRM Mine located about 1000 ft north-northwest of Kite Lake.
 QUAD Climax 7 1/2'
 DYEL There are a number of adits and prospects.
 RNG To 10 x bg.
 HOST Vein in Precambrian and Tertiary Later White Porphyry.
 MNZ Chalcopyrite, gold? No uranium mineral identified.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Park County, Colorado. Singewald, Q. D., and Butler, B. S., 1941, Ore deposits in the vicinity of the London fault of Colorado., U.S. Geol. Surv. Bull. 911, 74 p.

Last Chance

LOCATION: SW 1/4 sec. 30, T. 11 S., R. 72 W.
 LCRM Also occurs in sec. 31, and in T. 11 S., R. 73 W., sec. 25, 26.
 MAP DENVER

PARK COUNTY

PROD According to U.S. A.E.C. Records, in 1959, 1 ton of ore averaging 0.25% U3O8 and containing 5 lbs of U3O8 was produced.

HOST Vein in Precambrian Pikes Peak Granite and metasediments.

STRC Vein strikes N50°W and dips 80-85° to the SW.

MNZ Autunite.

DOI 1972

REF E. P. Beroni, 1978, Personal Communication. U.S. Bur. Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. Gallagher, G. L., 1976. U.S. A.E.C., 1971, Production Records, Colorado.

MAP DENVER

DVEL There is a 30 ft x 60 ft pit, 50 holes were drilled in the area surrounding the pit.

PROD U.S. A.E.C. Production Records show that between 1958 and 1963, 741 tons averaging 0.18% U3O8 and containing 2,267 lbs of U3O8 had been produced.

HOST The mineralization occurs in lakebeds, and tuffaceous siltstones of the Oligocene Antero Formation.

STRC The prospect is on the east side of Elk Horn Thrust Fault.

MNZ Autunite is found in lenses and pods in carbonaceous laminations parallel to bedding in altered micaceous and argillaceous tuffaceous siltstone.

DOI 1971

REF R. C. Malan, 1978, Personal Communication. Atlantic Richfield Co., 1977. U.S. Geol. Survey, 1977, CRIB File. Young, P., and Mickle, D. G., 1976. U.S. A.E.C., 1971, Production Records, Colorado.

London Butte Tunnel

LOCATION: NW1/4 sec. 18, T. 9 S., R. 78 W.

MAP LEADVILLE

RNG 10 x bg.

MNZ Value of 0.005% U3O8 reported.

RMKS Radiation due to radon in mine?

REF Robert U. King, 1977, Personal Communication.

Mud Claims

LOCATION: sec. 20, T. 11 S., R. 74 W.

LCRM Also sec. 21.

DVEL Mineralized body drilled out on Mud 59, 75 and 77 claims. Average depth to ore is 45 ft.

HOST Oligocene Florissant Lakebeds, similar to Lucky Jim deposit.

MNZ Uraninite, coffinite.

DOI 1971

REF R. C. Malan, 1978, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado.

London Extension Mine

LOCATION: NW1/4NE1/4 sec. 18, T. 9 S., R. 78 W.

QUAD C11max 7 1/2'

MAP LEADVILLE

DVEL There are extensive workings. The mine, a gold-silver producer, was shut down about 1943.

HOST Vein material from mine dump contains the mineralization.

MNZ Pitchblende was found in the vein material as was galena, sphalerite, silver, and gold.

DOI 1951

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Park County, Colorado. Singewald, Q. D., and Butler, B. S., 1941, Ore deposits in the vicinity of the London fault of Colorado, U.S. Geol. Survey Bull. 911, 74 p.

Muley Gulch

LOCATION: sec. 11, T. 11 S., R. 75 W.

LCRM The occurrence also extends into sec. 12.

QUAD Hartsel 7 1/2'

MAP DENVER

DVEL Four pits were noted in NE1/4 of sec. 14. The trenches were dug in the 1950's.

PROD Grade of 0.28% U3O8 reported.

RNG To 50 x bg.

HOST Vein in fractures in Precambrian granite.

STRC In fractures on upthrown side of Elk Horn Fault.

DOI 1977

REF Atlantic Richfield Corp., 1977.

Lone Star Claim

LOCATION: SE1/4 sec. 36, T. 8 S., R. 79 W.

LCST UNCERTAIN

QUAD C11max 7 1/2'

MAP LEADVILLE

DVEL There are a shaft and a cut. They are thought to be on the General Canby vein. The district is a gold-silver mining district.

BKG .02 mr/hr

RNG .04-.08 mr/hr

HOST Vein in Precambrian granite and pegmatite.

STRC The vein strikes N50°E.

MNZ No uranium minerals were observed. There is an estimated value of 0.01% U3O8 from a grab sample of the dump.

DOI 1953

REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Park County, Colorado. Singewald and Butler, 1941.

Orphan Boy Mine

LOCATION: SE1/4 sec. 10, T. 9 S., R. 78 W.

QUAD Alma 7 1/2'

MAP LEADVILLE

DVEL Large mine with 3,450 ft of underground development.

RNG To 10 x bg.

HOST Vein in Cambrian Sawatch Quartzite and Tertiary gray porphyry.

MNZ Gold, pyrite, sphalerite, galena, chalcopyrite and dolomite are reported.

RMKS No uranium minerals were observed. It is reported that "Radioactive minerals not determinable megascopically occur in vein

Lucky Jim Claims

LOCATION: NW1/4 sec. 26, T. 10 S., R. 75 W.

LCRM The occurrence is 14 miles northeast of Hartsel.

PARK COUNTY

fissures at top of ore shoots, within or immediately below gray porphyry sill. (U.S. A.E.C., 1966).

DOI 1951
REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Park County, Colorado. Singewald, Q. D., and Butler, B. S., 1941, Ore deposits in the vicinity of the London fault of Colorado, U.S. Geol. Survey Bull. 911, 74 p.

Pegmatite Prospect

LOCATION: sec. 3, T. 12 S., R. 73 W.
LCST UNCERTAIN
QUAD Glentivar 7 1/2'
MAP DENVER
DYEL There is one pit 57 ft long, 15 ft wide, and up to 15 ft deep.
HOST Pegmatite in Precambrian biotite granite.
STRC Pegmatite strikes N60°E.
MNZ Samarskite (euxenite?), possibly thorite, tourmaline, and garnet.
DOI 1952
REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Park County, Colorado.

Redskin Claim

LOCATION: NW1/4 sec. 15, T. 11 S., R. 72 W.
LCRM Note there is also a Redskin Mine in Park County.
QUAD Tarryall 7 1/2'
MAP DENVER
DYEL Mine was originally worked for molybdenum around 1920. It was abandoned until uranium was discovered in 1954. In 1959, beryllium was found at the mine and a small amount of low-grade beryllium ore was produced.
PROD There has been no recorded production of uranium.
BKG .04 mr/hr
RNG 1 to 15 mr/hr
HOST Greisen pipe in porphyritic Precambrian Pikes Peak granite.
MNZ Uranophane and sooty pitchblende is present in pockets of high grade and in small fissures lined with smoky quartz crystals. Also chalcopryite, molybdenite, sphalerite.
RMKS Best reference at this time is Hawley, 1969.
DOI 1976
REF U.S. Bur. of Mines, 1977, (Unpubl.). Hawley, C. C., and Wobus, R. A., 1977. Gallagher, G. L., 1976. Hawley, C. C., 1969. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Park County, Colorado.

Redskin Mines (Shawnee No. 1 and Redskin 1A, 1B, 2A, 2B & 3 Claims)

LOCATION: N1/2N1/2 sec. 27, T. 7 S., R. 73 W.
LCRM Note there is also a Redskin Claim in Park Co.
QUAD Shawnee 7 1/2'
MAP DENVER
DYEL Small underground mine.
PROD U.S. A.E.C. Production Records indicate that in 1963, 48 tons of ore averaging 0.15% U308 and containing 141 lbs of U308 were mined.

HOST Shear zone in Precambrian Idaho Springs Formation.
STRC Shear zone 1.5 ft wide.
MNZ Thin coatings of secondary uranium minerals, probably uranophane.
DOI 1973
REF U.S. Geol. Surv., 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado.

Rogers Publishing Co. (Katydid Mine)

LOCATION: NW1/4 sec. 2, T. 12 S., R. 73 W.
LCRM The deposit also extends to sec. 3 in this township and range, and into sec. 34, T. 11 S., R. 73 W.
QUAD Glentivar 7 1/2'
MAP DENVER
DYEL The mine has been worked since about 1920 for mica and feldspar. There are six bulldozed pits on property, and 800 ft of diamond drilling is reported.
BKG .03 mr/hr
RNG .15 to .60 mr/hr
HOST Precambrian Pikes Peak Granite. Pegmatite dikes and quartz veins have intruded the granite in the area.
STRC Fracture zone.
MNZ Autunite and samarskite.
DOI 1956
REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Park County, Colorado.

South London House

LOCATION: NE1/4SW1/4 sec. 7, T. 9 S., R. 78 W.
QUAD Cimmax 7 1/2'
MAP LEADVILLE
HOST Tertiary fault gouge from mine dump.
MNZ Chalcopryite and quartz are reported. One grab sample was reported as being a "rock fragment coated with particles of uranium bloom"
DOI 1951
REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Park County, Colorado. Singewald, Q. D., and Butler, B. S., 1941.

Spring Claim

LOCATION: sec. 4, T. 11 S., R. 74 W.
LCRM The occurrence also covers sec. 5, 8, 9, and 17.
MAP DENVER
HOST Lacustrine tertiary tuffs. *Amphro??*
MNZ Carnotite in volcanic tuff ridge lying on granite bedrock.
DOI 1977
REF Atlantic Richfield Corp., 1977.

Sweet Home Mine

LOCATION: W1/2NW1/4SE1/4. sec. 33, T. 8 S., R. 78 W.
MAP LEADVILLE
MNZ Uranium.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.).

PARK COUNTY

Tedco and MacGeorge (Mac George 4)

LOCATION: sec. 16, T. 7 S., R. 75 W.
LCRM Also sec. 17, 20, 21.
MAP DENVER
PROD U.S. A.E.C. Production Records show that, in 1956, 176 tons were mined at a grade of 0.23% U308, producing 814 lbs of U308, and 36 lbs of V205 were also recovered from the ore.
HOST Thin fracture fillings in Precambrian Silver Plume Granite.
STRC Host described as being highly broken.
MNZ Autunite is present.
DOI 1973
REF U.S. Geol. Survey, 1977, CRIB File. Gallagher, G. H., 1976. U. S. A.E.C., 1971, Production Records, Colorado.

Wyandotte Mine

LOCATION: SW1/4NW1/4 sec. 21, T. 8 S., R. 78 W.
MAP LEADVILLE
MNZ Uranium.
DOI 1975
REF U.S. Bur of Mines, 1977, (Unpubl.).

Two Bit Claims

LOCATION: NE1/4 sec. 7, T. 12 S., R. 71 W.
MAP DENVER
MNZ Uranium.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.).

Unnamed No. 1

LOCATION: sec. 1, T. 12 S., R. 73 W.
MAP DENVER
HOST Intrusive in quartz monzonite. The radioactivity occurs in a pegmatite.
DOI 1977
REF Lou Reimer, 1977, Personal Communication.

Unnamed No. 2

LOCATION: sec. 16, T. 7 S., R. 75 W.
LCRM The mineralization also extends into sec. 17, 20, 21.
MAP DENVER
HOST Granite.
STRC Fracture zone.
MNZ Autunite occurs in a "weathered" granite in or along a fracture zone.
DOI 1977
REF Western Nuclear Submitted file, 1977.

Wheel of Fortune Claim

LOCATION: sec. 25, T. 11 S., R. 72 W.
MAP DENVER
MNZ Uranium.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.).

Willow Claims (Bell Property)

LOCATION: sec. 9, T. 15 S., R. 74 W.
DVEL One bulldozer cut and two prospect pits.
HOST Uranium occurs in a chalcedonized opal and with volcanic rock fragments in a clay matrix in the Oligocene Wall Mountain Tuff.
MNZ Autunite.
DOI 1978
REF E. P. Beroni, 1978, Personal Communication.

PHILLIPS COUNTY

No uranium occurrences are reported in Phillips County. The county is underlain by flat-lying Tertiary Ogallala Formation with some minor Quaternary sediments. Potential for uranium resources in the county are small. Sandstone-type uranium occurrences in the Ogallala Formation are the most likely to be found.

PITKIN COUNTY

The only recorded uranium production from the county as of 1971 was from the Frying Pan Claims, which produced 62 tons at an average grade of 0.14 percent U_3O_8 . Potential for more reserves to be found is very limited.

The seat of Pitkin County is the city of Aspen--one of the oldest and richest silver mining camps in Colorado. It is located in west-central Colorado and includes some of the state's most rugged mountains. The Elk Mountains and the Sawatch Range dominate with mountain peaks towering over 14,000 feet. Precambrian rocks are found in the Sawatch Range, and Pennsylvanian-Permian formations are dramatically exposed in the Elk Mountains. The southern extension of the Grand Hogback Monocline crosses the western part of the county from north to south. Roughly paralleling the Grand Hogback but cutting the center of the county is the Castle Creek Fault, which forms the eastern border of the Elk Mountains. Trending northwest to southeast between the Grand Hogback and Castle Creek Fault is the Roaring Fork Syncline. The Sawatch Range Anticline and the Homestake Shear Zone lie in the northeastern corner of the county, and the Grizzly Caldera is directly south of them on the southern border. Precambrian rocks in the Grizzly Mountains are overlain by Tertiary intrusives and extrusives. Sedimentary formations ranging in age from Cambrian to Late Cretaceous cover much of the rest of the county.

The Frying Pan Claims, because of their production, are the most important known uranium occurrences in the county. They are similar in nature to the other uranium occurrences found in the county, all of which lie in fault breccias that host the silver and lead ores found in the old mines near Aspen. Most of these fault breccias cut the Pennsylvanian-Permian Weber Shale and the Mississippian Leadville Limestone, but some are found in the Precambrian granites as well. In all cases the Precambrian rocks and Tertiary intrusives are intimately associated with the mineralization.

Based on known occurrences, the Aspen district appears most favorable for additional uranium occurrences. However, the potential for reserves to be developed is small. Uranium mineralization found in the Aspen district is associated with silver and lead ores from the old mines. If any of the mines were reopened for silver and lead, the uranium could possibly be extracted as a by-product. The other potential area in the county is the Grizzly Caldera in the southeastern part of the county. There, Tertiary intrusives are exposed within the caldera, and related extrusives lie around the borders. This caldera could be the host for volcanogenic deposits such as are found in other parts of the world.

PITKIN COUNTY

Frying Pan Claims 1-16 (Frying Pan Group, Frying Pan Claims)

LOCATION: sec. 7, T. 9 S., R. 83 W.
 LCST UNSURVEYED
 LCRM The deposit also extends to sec. 12-13, T. 9 S., R. 84 W.
 QUAD Meredith 7 1/2'
 MAP LEADVILLE
 DVEL There is an adit with underground workings. 2,000 ft of drilling were carried out on the property.
 PROD In 1958 and 1960, a total of 62 tons of ore had been mined at a grade of 0.14% U308, producing 174 lbs of U308.
 HOST The deposit occurs in a silicified breccia vein that cuts a Precambrian granite and schist.
 STRC A fault zone controlled the emplacement of the mineralization.
 MNZ Autunite and torbernite are present in the vein.
 DOI 1974
 REF E. P. Beroni, 1978, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records.

Silver King

LOCATION: sec. 7, T. 10 S., R. 84 W.
 LCST UNSURVEYED
 LCRM May be in sec. 8. Near Smuggler, Mollie Gibson and J. C. Johnson Mines.
 QUAD Aspen 7 1/2'
 MAP LEADVILLE
 RNG 2 to 3 x bg
 HOST The deposit occurs in a fault breccia between the Pennsylvanian-Permian Weber Shale and the Mississippian Leadville Limestone. It appears to be associated with black to gray carbonaceous shale and gray dolomitic limestone. Upper Devonian Harding Quartzite and a Tertiary quartz porphyry are also present.
 MNZ Galena, sphalerite, argentite, pyrite, chalcopyrite, calcite and barite are all present in the veins, but no uranium minerals were found.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Pitkin County, Colorado.

Smuggler Mine, (Nos. 1 & 2 Tunnels)

LOCATION: sec. 7, T. 10 S., R. 84 W.
 LCST UNSURVEYED
 LCRM This deposit lies 1/2 mile east of Aspen.
 QUAD Aspen 7 1/2'
 MAP LEADVILLE
 DVEL There has been production for silver, lead and zinc. Examination of dump by U.S. A.E.C. geologists in 1954 indicated a small amount of uranium material existed.
 BKG 0.5 mr/hr
 RNG To 8.0 mr/hr

HOST The deposit is located at the fault contact between the Pennsylvanian-Permian Weber Shale and the Mississippian Leadville Limestone in a black carbonaceous shale.
 STRC The silver fault appears to control the radioactivity. All anomalies are within the fault breccia.
 MNZ Galena, sphalerite, argentite, polybasite, native silver, chalcopyrite, pyrite, barite, and calcite are all present, with no visible uranium minerals.
 DOI 1952
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Pitkin County, Colorado. Boyd, F. S., Jr., and Bromley, C. P., 1953. Bastin, E. S., 1925, U.S. Geol. Survey Bull. 750-C, p. 48. Spurr, J. E., 1898, U.S. Geol. Survey Monograph XXXI.

Tower Durant Tunnel and Dump

LOCATION: sec. 19, T. 10 S., R. 84 W.
 LCST UNSURVEYED
 LCRM The U.S. Bur. of Mines source lists this as being in sec. 10.
 QUAD Aspen 7 1/2'
 MAP LEADVILLE
 RNG To 2.5 to 3 x bg
 HOST The host rocks in the area are Pennsylvanian Weber Shale, Mississippian Leadville Limestone, a Tertiary quartz porphyry and a Precambrian granite. The radioactivity is found associated with the decomposed quartz porphyry.
 MNZ Pyrite, chalcopyrite, barite, and calcite are present. No uranium minerals were visible.
 DOI 1952
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Pitkin County, Colorado. Spurr, J. E., 1898, U.S. Geol. Surv. Monograph XXXI.

Unnamed Dump

LOCATION: sec. 27, T. 9 S., R. 84 W.
 LCST UNCERTAIN
 LCRM The adit is near the town of Lenado.
 QUAD Aspen 7 1/2'
 MAP LEADVILLE
 BKG 60 cps
 RNG 120 to 300 cps
 HOST The tunnel portal is in Mississippian Leadville Limestone, and the dump material consists of Leadville Limestone and Pennsylvanian Weber Shale. The anomalous radioactivity occurs in the black mud near the portal and in the dark shale on the dump.
 MNZ No visible minerals were noted.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Pitkin County, Colorado.

PROWERS COUNTY

Neither production nor occurrences are reported from the county. The potential for any uranium resources to be found is very limited.

Prowers County lies on the southern flank of the Las Animas Arch in the southeastern corner of Colorado. The terrane is almost entirely sedimentary, with nearly equal proportions of Cretaceous Niobrara Formation, Benton Group, and Dakota Sandstone, and Miocene-Pliocene Ogallala Formation covering the county. A few small early Tertiary intrusives are found in the extreme southern part of the county along Two Butte Creek, with older formations locally exposed by the uplift associated with the intrusions.

No uranium occurrences are known within the county. In other areas of the state the Dakota Sandstone and the Jurassic Morrison Formation are favorable hosts for uranium deposits. The Dockum Group also shows interesting anomalies in other parts of the state, and exploration drilling could possibly detect some mineralization at depth. Water sampling done by the U.S. Geological Survey has shown higher than average readings of uranium from waters draining the Ogallala Formation north of the Arkansas River. Some exposures of Ogallala are found in the extreme northeastern section of the county, and these also have some potential.

PUEBLO COUNTY

Production appears to have been limited to one deposit, the George Avery Ranch Mine, which shipped 10,553 tons of ore at an average grade of 0.15 percent U_3O_8 , producing 32,213 lb of U_3O_8 by 1971. Most of this production came in the late 1950's; no recent work is known to have taken place. Potential for more reserves to be found in the county is small.

Pueblo County, located in the south-central part of the state, is dominantly covered with sedimentary rocks ranging in age from Cambrian to Quaternary. A small portion of southwestern Pueblo County contains Precambrian crystalline rocks of the Wet Mountains. In general, the youngest rocks lie in the northeastern quarter of the county, and become progressively older toward the southwest.

The George Avery Ranch contains what are probably the most important occurrences in the county. They are tabular deposits within the Cretaceous Dakota Sandstone and are associated with carbonaceous material. The deposits lie on the eastern flank of the Turkey Creek Anticline in the northwestern corner of the county and are related to occurrences nearby in El Paso County. This and two other occurrences lie within the Fort Carson military reservation, and access to them is limited.

Additional small, scattered ore bodies will probably be found in the Dakota Sandstone within the county. Known isolated occurrences are associated with fossils in the Jurassic Morrison Formation. Further exploration in both formations could develop further reserves in them; however, the potential is limited for the county.

PUEBLO COUNTY

Dinosaur No. 1 Claim (John Gatley Ranch)

LOCATION: sec. 10, T. 18 S., R. 67 W.

LCRM Directions to the deposit are as follow:
"From the Penrose monument in Penrose, Colorado go north 0.4 miles on dirt road; continue north on Colorado 115 for 1.2 miles. Turn right on dirt road; continue 3.3 miles, cross Red Creek, go 4.1 miles, cross wooden bridge over gulch, go 1.2 miles; take right fork for 1.1 miles then left fork for 0.3 miles. Go straight ahead for 0.8 miles, through a red gate; turn right on dirt track road for 0.5 miles. Prospect 400 yds further on the foot trail".

MAP PUEBLO

DVEL Several small, shallow prospect pits are present.

BKG .03 mr/hr

RNG To .36 mr/hr

HOST Morrison Formation; shales and clays 100 ft below the contact with the Dakota Sandstone. The shales are green, gray, brown, and contain dinosaur bones.

MNZ Mineralization is present with the dinosaur bones. Calcite, quartz, and minor gypsum are present.

DOI 1954

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1954, Preliminary Reconnaissance Reports, Pueblo County, Colorado.

RMKS The carnotite-bearing bed was traced along the top of the mesa and was found to be radioactive along its entire length.

DOI 1973

REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Pueblo County, Colorado. Colo. Bur. of Mines, 1960, Annual Report.

George Avery Ranch (George Avery Mine, Kathryn No. 2 Incline Mineral Rights Mine)

LOCATION: SW1/4 sec. 6, T. 18 S., R. 66 W.

LCRM Directions to the deposit are as follow:
"Take Colo. 115 south 15.9 miles from Colorado Springs to dirt road (Lytle Road) on left. Go 2.2 miles, take left fork on main road. Proceed 7.3 miles to dirt track on right; go 0.3 miles through gate to ranch; deposit on hill 150-200 yds west of house".

QUAD Timber Mountain 7 1/2'

MAP PUEBLO

DVEL A test pit 5 ft deep by 5 ft long was sunk along a vertical fracture (2/54), 100 ft tunnel with 45 ft shaft and 12 ft crosscuts completed 10/55.

PROD By 1971, 10,553 tons of ore had been mined at an average grade of 0.15% U308, producing 32,213 lbs of U308.

BKG .02 mr/hr

RNG 1.0 to 5.0 mr/hr

HOST The host is Cretaceous Dakota Sandstone(?); gray to buff, fine-grained sandstone with carbonaceous fragments.

STRC A vertical fracture 0.4 ft wide is present but is not radiometrically anomalous.

MNZ There is a yellow coating (carnotite?) on the sandstone, in small solution cavities, and as minor fracture filling. Some uraninite is also present. Chip assays covered the range of 0.03-0.23% U308, with one assaying at 0.63% U308, a 0.4 ft channel sample had a value of 0.103% U308.

RIO BLANCO COUNTY

As of 1971 production from the county totaled 36,637 tons mined which produced 223,679 lb of U_3O_8 , and 832,933 lb V_2O_5 . The county is one of the major producers in the state, and potential for more reserves to be found is excellent. Small-scale mining will continue in the Coal Creek district as long as the price remains at its present value.

Rio Blanco County is situated in the northwestern part of the state. Most of the county lies within the Piceance Creek Basin, an elongate, northwest-trending structure. The north-trending Grand Hogback Monocline forms the boundary between Cretaceous and Tertiary sediments in the Piceance Creek Basin and Paleozoic sediments and Tertiary volcanics in the White River Plateau. At the north end of the Grand Hogback, about 15 miles northeast of Meeker, lies the Coal Creek Anticline, a small uranium district. Uranium mineralization is found where the Morrison Formation is exposed around the nose of the anticline. The ore is of the carnotite-type and concentrated in the Salt Wash Member of the Morrison Formation. This belt of mineralization is less than a mile wide and six miles long.

Most of the deposits in the county are small, commonly less than 500 tons, and were mined by small strip operations and underground methods.

The largest producing mine in the county is in the Midnight Group of claims, where over 12,000 tons of ore were mined and shipped. This and all other large producers-- Burrell 1, 2, 3, and the Burrell 5, the Butterfly Group, and the Shylo Group are located in the Coal Creek district. The Burrell Mines and the Butterfly Group are separate mines all lying within the same claim group. The Salt Wash Member of the Morrison Formation was the host for these deposits and for most other mines in the county.

Additional small occurrences or deposits will probably be found in the Salt Wash Member of the Morrison Formation near the Coal Creek Anticline. Small occurrences have been reported on the White River Plateau where older sedimentary rocks are exposed along the Grand Hogback. Any study of potential within the county should include those rocks of the hogback, with emphasis on the Triassic Chinle Formation and the undivided Pennsylvanian-Permian section. They all host uranium deposits either in this county or in nearby counties. Of the younger rocks to the east, the Lower Cretaceous Dakota Sandstone, the Upper Cretaceous Iles Formation, and the Tertiary Wasatch Formation may be potential hosts as these, too, are known to contain uranium deposits in this or neighboring counties.

RIO BLANCO COUNTY

Allen
 LOCATION:
 LCRM This deposit is located in the Coal Creek area, also known as Uranium Peak area.
 PROD As of 1971, 9 tons of ore had been mined at grades of 0.11% U3O8 and 0.68% V2O5, producing 19 lbs of U3O8 and 122 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Mineralization is probably in the form of tyuyamunite and/or carnotite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Brown Group (Brown 2)

LOCATION: sec. 25, T. 2 N., R. 92 W.
 QUAD Sawmill Mountain 7 1/2'
 MAP CRAIG
 PROD As of 1971, 206 tons of ore had been mined at a grade of 0.53% U3O8, producing 2,168 lbs of U3O8, and 1.41% V2O5, producing 5,797 lbs of V2O5. The Brown 5 added 20 tons of ore from these claims by 1971, at a grade of 0.21% U3O8 and 0.95% V2O5, producing 85 lbs of U3O8 and 381 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Burrell 1, 2 and 3 (Last Day?)

LOCATION: NW1/4NW1/4 sec. 25, T. 2 N., R. 92 W.
 LCRM This deposit is located in the Coal Creek area. Also in sec. 24 & 26.
 QUAD Sawmill Mountain 7 1/2'
 MAP CRAIG
 PROD As of 1971, 6,443 tons of ore had been mined at grades of 0.35% U3O8 and 1.07% V2O5, producing 45,435 lbs of U3O8 and 138,487 lbs of V2O5.
 HOST The host is the Salt Wash Member of the Jurassic Morrison Formation. It is a light gray, medium-grained sandstone and mudstone, with abundant coalified and silicified plant remains.
 MNZ The primary minerals are carnotite and/or tyuyamunite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. L., 1967.

Burrell 5

LOCATION: sec. 25, T. 2 N., R. 92 W.
 QUAD Sawmill Mountain 7 1/2'
 MAP CRAIG
 PROD As of 1971, 597 tons of ore had been mined at a grade of 0.61% U3O8, producing 7,334 lbs of U3O8. 14,348 lbs of V2O5 had been produced with ore grades at 1.20% V2O5.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite and tyuyamunite were the principal ore minerals.

DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Butterfly Group (Butterfly No. 1)

LOCATION: SE1/4SE1/4 sec. 23, T. 2 N., R. 92 W.
 LCRM Also in NE1/4NE1/4 sec. 26.
 QUAD Sawmill Mountain 7 1/2'
 MAP CRAIG
 DVEL This was primarily an underground mine, with production as shown through 1971.
 PROD By 1971, 6,457 tons had been mined at grades of 0.29% U3O8 and 0.90% V2O5, producing 37,485 lbs of U3O8 and 115,596 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite and/or tyuyamunite were the main ore minerals.
 RMKS The Butterfly and Burrell are in the same claim group, but are different mines.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Chris

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit is located in the Coal Creek area.
 PROD As of 1971, two tons of ore had been mined at grades of 0.25% U3O8, and 1.48% V2O5, producing 10 lbs of U3O8 and 59 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation, probably the Salt Wash Member.
 MNZ Carnotite and tyuyamunite are the principal ore minerals.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Coal Creek 1

LOCATION: sec. 25, T. 2 N., R. 92 W.
 QUAD Sawmill Mountain 7 1/2'
 MAP CRAIG
 PROD 5,105 tons of ore had been mined by 1971, at grades of 0.29% U3O8 and 0.76% V2O5, producing 29,405 lbs of U3O8 and 77,942 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation, probably the Salt Wash Member.
 MNZ Carnotite and tyuyamunite are the principal ore minerals.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Columbine 1 - 4

LOCATION: sec. 26, T. 2 N., R. 92 W.
 QUAD Sawmill Mountain 7 1/2'
 MAP CRAIG
 PROD 298 tons of ore had been mined by 1971, at grades of 0.52% U3O8 and 1.44% V2O5, producing 3,084 lbs of U3O8 and 8,577 lbs of V2O5.
 HOST The host is probably the Salt Wash Member

RIO BLANCO COUNTY

of the Jurassic Morrison Formation.
 MNZ Mineralization is of the carnotite and tyuyamunite type.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Evening Star

LOCATION: T. 1 N., R. 91 W.
 LCRM This deposit is located in the Coal Creek area.
 PROD As of 1971, 32 tons of ore had been mined at grades of 0.44% U308 and 0.54% V205, producing 279 lbs of U308 and 347 lbs of V205.
 HOST The host is reported as being the Triassic Chinle Formation.
 MNZ Mineralization is of the carnotite - tyuyamunite type.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Fawn Springs Group

LOCATION: T. 1 N., R. 90-91 W.
 LCST UNLOCATABLE
 LCRM Near Coal Creek.
 QUAD Fawn Creek 7 1/2' & Lost Park 7 1/2'
 MAP CRAIG
 HOST Shinarump Member of the Triassic Chinle Formation.
 MNZ Carnotite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Frying Pan 1

LOCATION:
 LCST UNLOCATABLE
 PROD As of 1971, 2 tons had been mined at grades of 0.25% U308 and 0.82% V205, producing 10 lbs of U308 and 33 lbs of V205.
 HOST The host is probably the Jurassic Morrison Formation.
 MNZ Carnotite and/or tyuyamunite were recognized.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Iles Formation

LOCATION: sec. 24, T. 3 N., R. 103 W.
 QUAD Mellen Hill 7 1/2'
 MAP VERNAL
 DYEL There is one 30 ft x 10 ft x 10 ft cut and numerous smaller pits.
 RNG To 1600 cps
 HOST The host rock is an Upper Cretaceous, fine-grained sandstone with carbonaceous debris.
 STRC The ore-bearing beds have a dip of 75°S.
 ALT Iron staining is common on the outcrop.
 MNZ The deposit shows irregular secondary uranium mineralization in the outcrop of the sandstone. A selected outcrop sample assayed 0.035% U308.
 DOI 1977
 REF Atlantic Richfield Co., 1977, Personal Communication.

Jerry Zochol (Red Doe Claim)

LOCATION: W21/2 sec. 21, T. 2 N., R. 92 W.
 LCRM There are many prospects in this section.
 QUAD Thornburgh 7 1/2'
 MAP CRAIG
 DYEL There was no production on these claims.
 HOST The host is probably the Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Tyuyamunite is probably the principal ore mineral.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File.

Last Day (Urin Mining Claim)

LOCATION: sec. 22, T. 2 N., R. 92 W.
 LCRM There are numerous prospects in this section. This deposit is located in the Coal Creek area.
 QUAD Thornburgh 7 1/2'
 MAP CRAIG
 PROD The Last Day mine, as of 1971, had yielded 1,040 tons of ore at grades of 0.28% U308 and 1.13% V205, producing 5,836 lbs of U308 and 23,581 lbs of V205.
 HOST The deposit lies in the Salt Wash Member of the Jurassic Morrison Formation. It is a gray and brown, medium-grained sandstone with abundant coalified and silicified plant remains.
 MNZ Tyuyamunite was the principle mineral mined.
 DOI 1975, 1974, 1971
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.), U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967. Gale, H. S., 1907.

Lucil 106

LOCATION:
 LCST UNLOCATABLE
 PROD By 1971, one ton of ore had been mined at grades of 0.30% U308 and 1.25% V205, producing 6 lbs of U308 and 25 lbs of V205.
 HOST The host is probably the Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

M & G

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit is located in the Coal Creek area.
 PROD 6 tons of ore were mined from this property by 1971, at grades of 0.35% U308 and 1.52% V205, producing 42 lbs of U308 and 183 lbs of V205.
 HOST The host is the Salt Wash Member of the Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Marvine View 10

RIO ELANCO COUNTY

LOCATION: sec. 26, T. 2 N., R. 92 W.
 LCST UNLOCATABLE
 LCRM Also sec. 25. This deposit is located in the Coal Creek area.
 PROD 147 tons of ore were mined by 1971, at grades of 0.56% U308 and 1.25% V205, producing 1,647 lbs of U308 and 3,668 lbs of V205.
 HOST The host is probably the Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Midnight Group (Midnight Mine, Midnight NH, Caywood No. 1 and No. 2, Sleep Cat Uranium Mine, No Name)

LOCATION: NE1/4NW1/4 sec. 28, T. 2 N., R. 92 W.
 LCRM The claim group also extends to sec. 21.
 QUAD Sawmill Mountain 7 1/2'
 MAP CRAIG
 PROD The Midnight Group, as of 1971, had 12,108 tons of ore mined at grades of 0.29% U308 and 1.49% V205, producing 70,605 lbs of U308 and 360,179 lbs of V205. The Midnight NH by the same time had yielded 1,046 tons of ore at grades of 0.17% U308 and 1.02% V205, producing 3,521 lbs of U308 and 21,382 lbs of V205.
 HOST The host is the Salt Wash Member of the Jurassic Morrison Formation. It is a gray to brown, medium-grained sandstone with abundant coalified and silicified plant remains.
 MNZ Carnotite and/or tyuyamunite are the principal ore minerals. They are often closely associated with the carbonaceous remains and silicified wood fragments.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). Vandersluis, G. D., 1977, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. L., 1967, Gale, H. S., 1907.

Naomi Ann

LOCATION: sec. 21, T. 2 N., R. 92 W.
 LCRM This deposit is located in the Coal Creek area.
 QUAD Thornburgh 7 1/2'
 MAP CRAIG
 PROD As of 1971, 738 tons had been mined at a grade of 0.29% U308, producing 4,237 lbs of U308, and 1.10% V205, producing 16,246 lbs of V205.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Rio Blanco

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit is located in the Coal Creek area.
 DVLE Production on this property involved some

underground workings.
 PROD 27 tons of ore had been mined by 1971, at grades of 0.84% U308 and 2.34% V205, producing 452 lbs of U308 and 1,264 lbs of V205.
 HOST The host is the Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Carnotite and/or tyuyamunite were recognized.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

S & G 4

LOCATION: sec. 1, T. 1 N., R. 91 W.
 QUAD Fawn Creek 7 1/2'
 MAP CRAIG
 PROD By 1971, 59 tons of ore had been mined at grades of 0.45% U308 and 2.21% V205, producing 527 lbs of U308 and 2,609 lbs of V205.
 HOST The host is the Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Mineralization is of the carnotite - tyuyamunite type.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Shylo Group (Brown 2, Brown 5)

LOCATION: sec. 25, T. 2 N., R. 92 W.
 QUAD Ninemile Gap 7 1/2'
 MAP CRAIG
 DVLE All these mines had underground operations.
 PROD The Shylo Group as of 1971 had yielded 3,060 tons of ore at a grade of 0.22% U308 and 0.87% V205, producing 13,340 lbs of U308 and 53,291 lbs of V205.
 HOST The mineralization occurs in the Jurassic Morrison Formation, Salt Wash Member, as reported by U.S. A.E.C. Production Records. According to Rehels, the oldest formation exposed is the Upper Cretaceous Iles Formation.
 MNZ Carnotite and/or tyuyamunite are the primary ore minerals.
 DOI 1971
 REF Marilth Rehels, 1978, Personal Communication. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

St. Lue

LOCATION:
 LCST UNLOCATABLE
 PROD As of 1971, 2 tons of ore had been mined at grades of 0.17% U308 and 1.27% V205, producing 7 lbs of U308 and 52 lbs of V205.
 HOST The host is probably the Jurassic Morrison Formation or the Jurassic Entrada Sandstone.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Stealy Claims (Guy Stealy Claims, James I. Riland Mine, Stanley Claims, James J. Hilland Mine)

LOCATION: NE1/4SE1/4SE1/4 sec. 12, T. 1 N., R. 91 W.
 LCRM These claims extend slightly into SW1/4E1/2 sec. 7, T. 1 N., R. 90 W. and into sec. 13, T. 1 N., R. 91 W.

RIO BLANCO COUNTY

QUAD Fawn Creek 7 1/2'
 MAP CRAIG
 DVEL These were three bulldozer cuts along about 175 ft of rim.
 BKG .018 mr/hr
 RNG .3 to .5 mr/hr
 HOST The host is a sandstone of the Triassic Chinle Formation. It consists of what appear to be sandstone channels with interbedded limestone pebble conglomerate lenses. The deposit is about 4 ft wide, 175 ft long, 30 ft thick, and is probably lenticular.
 STRC There is a NW dip of less than 10°. MNZ The ore mineral is dull black, & highly radioactive. It is probably uraninite. It replaces fragments in the conglomerate, forming highly radioactive pods less than 10 ft long. Tyuyamunite (?) appears along fracture surfaces and disseminated in the sandstone. Channel and grab samples range from 0.02 to 0.28% eU.
 DOI 1954
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Rio Blanco County, Colorado.

TB

LOCATION:

LCST UNLOCATABLE
 LCRM This deposit lies in the Coal Creek area.
 PROD As of 1971, 72 tons had been mined at grades of 0.24% U308 and 1.01% V205, producing 347 lbs of U308 and 1,456 lbs of V205.
 HOST The host is probably the Jurassic Morrison Formation or the Jurassic Entrada Sandstone.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Twin Star 500

LOCATION:

LCST UNLOCATABLE
 LCRM This deposit is located in the Coal Creek area.
 PROD As of 1971, 7 tons of ore had been mined at grades of 0.64% U308 and 3.36% V205, producing 89 lbs of U308 and 470 lbs of V205.
 HOST The host is the Salt Wash Sandstone Member of the Jurassic Morrison Formation.
 MNZ Mineralization is of the carnotite - tyuyamunite type.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado

Unnamed No. 1

LOCATION: sec. 19, T. 2 N., R. 91 W.

QUAD Thornburgh 7 1/2'
 MAP CRAIG
 HOST The host is probably a sandstone of the Cretaceous Dakota Sandstone.
 MNZ Uranium and vanadium mineralization are present, probably in the form of carnotite and/or tyuyamunite.
 DOI 1973

REF Marith Rehels, 1978, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., RME-90.

Ute Group (Blue Dish Group)

LOCATION: T. 2 N., R. 92 W.

LCST UNCERTAIN
 QUAD Sawmill Mountain 7 1/2' or Thornburgh 7 1/2'
 MAP CRAIG
 PROD Two tons of ore had been mined as of 1971, at grades of 0.57% U308 and 2.60% V205, producing 23 lbs of U308 and 104 lbs of V205.
 HOST The host is the Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Uraninite and/or coffinite were found on the property.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Windy Point 1

LOCATION: sec. 22, T. 2 N., R. 92 W.

LCRM There are numerous prospects in this section.
 QUAD Thornburgh 7 1/2'
 MAP CRAIG
 PROD 197 tons of ore at grades of 0.31% U308 and 2.06% V205 had been mined as of 1971, producing 1,207 lbs of U308 and 8,116 lbs of V205.
 MNZ Tyuyamunite is probably the principal ore mineral.
 DOI 1971, 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

RIO GRANDE COUNTY

There is no production of uranium from this county, nor are there any reported occurrences.

The county has two geologic terranes. One is the San Luis Valley Graben, which is a downdropped block filled with thick Quaternary sediments. The other terrane, in the western part of the county, is dominated by Tertiary volcanic rocks.

Although no uranium occurrences are reported, some potential exists for uranium resources to be found within the county. In the volcanic terrain is the possibility of uranium mineralization emplaced during several periods of volcanogenic development. The area around the edges of the caldera near Summitville has good potential for this type of occurrence. The sediments of the San Luis Valley have small potential for sandstone-type of occurrences in the subsurface.

ROUTT COUNTY

No production of uranium has been reported from Routt County to date. Geologically, the county is dominated by relative flat-lying Cretaceous and Tertiary sediments. The exception is the Park Range on the eastern edge of the county where the uplift has exposed Precambrian rocks.

The potential of the county to contain uranium reserves appears to be limited. Many of the rock types that crop out in the county are not considered favorable hosts for uranium mineralization. Examples are the extensive outcrops of the Mancos and Lance

Shales in the western part of the county, and large areas of gneiss in the Park Range on the eastern area of the county.

The Browns Park Formation and Iles Formation have the potential to contain important sandstone-type occurrences similar to those found near Maybell in Moffat County. Granitic rocks, such as the Sherman and Mount Ethel Granites that are exposed in the Park Range could contain uranium occurrences, although not much is known about uranium in these rocks.

ROUTT COUNTY

Dead Horse Claims

LOCATION: sec. 3, T. 11 N., R. 86 W.
 LCST UNCERTAIN
 LCRM Sec. 4, 9, 10 also.
 MAP CRAIG
 DVEL No previous mining or production records. Workings consist of one 250 ft long trench, 12 ft wide and a maximum of 12 ft deep.
 BKG .04 mr/hr
 RNG To just above bg
 HOST Mesaverde Formation(?). A fine-grained, well sorted sandstone. The major concentration of uranium is found adjacent to a rhyolite dike cutting the sandstone. Sandstone is Cretaceous. Dike is probably Tertiary.
 STRC Dike appears to have localized the uranium mineralization.
 MNZ Autunite?
 RMKS The amount of autunite observed decreases away from the dike.
 DOI 1955
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Routt County, Colorado. Gale, H. S., 1906, U.S. Geol. Survey Bull. 285.

Dennis D. Claims

LOCATION: sec. 16, T. 10 N., R. 83 W.
 LCRM Also sec. 17, 20, 21.
 MAP CRAIG
 PROD No production.
 HOST Pegmatite.
 MNZ Uranium.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.

E. C. Ellis Property

LOCATION: T. 10 N., R. 83 W.
 LCST UNCERTAIN
 LCRM 3 miles from Slavonia.
 MAP CRAIG
 DVEL 4 prospect pits.
 HOST Pegmatite in Precambrian granite gneiss, hornblende and biotite schist.
 STRC Pegmatites follow foliation of gneiss.
 MNZ Uraninite, euxenite and gummitite are reported from the pegmatite with hematite, and magnetite.
 DOI 1950
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Routt County, Colorado.

Fair U Claims (Fish Creek Claims)

LOCATION: sec. 12, T. 6 N., R. 84 W.
 MAP CRAIG
 DVEL One tunnel (100?) ft long. Several prospect pits.
 RNG .2 to .5 mr/hr
 HOST Precambrian hornblende gneiss with pegmatites intrusions.
 STRC Foliation is vertical, striking east-west. Pegmatites follow foliation.
 MNZ Gummitite?, autunite?, pitchblende? The biotite pods are radioactive.

DOI 1953
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Routt County, Colorado. U.S. Geol. Survey, 1953, TEI-308, p. 24.

Marth Uranesich (Gilpin Falls No. 1 and 2)

LOCATION: sec. 32, T. 10 N., R. 83 W.
 LCST UNSURVEYED
 LCRM 1/2 mile northeast of Slavonia on east side of Gilpin Creek.
 MAP CRAIG
 DVEL There is a 200 ft tunnel and one prospect pit on outcrop. This was a lead prospect that was worked in early 1900's.
 HOST Precambrian gneiss, ilme schist, and pegmatite.
 STRC Shear zone striking N70°W dipping 77°N.
 MNZ Galena, sphalerite, chalcopyrite, uraninite, gummitite, hematite.
 RMKS Radioactive pegmatites have been sheared and then sulfide mineralization introduced.
 DOI 1953(?)
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Routt County, Colorado. Colo. Geol. Survey, 1st Report, 1908, p. 227.

Sample No. 1

LOCATION:
 LCST UNSURVEYED
 LCRM Sample from the Encampment River approximately 25 miles below where Big Creek Trail joins Main Fork Trail.
 QUAD Davis Peak 7 1/2'
 HOST Stream sediment sample.
 RMKS Sample data: 20 ppm Nb, 18 ppm U, 20 ppm Th.
 DOI 1977
 REF George Snyder, 1977, Personal Communication.

Sample No. 2

LOCATION: NW1/4 sec. 25, T. 7 N., R. 84 W.
 LCST UNSURVEYED
 LCRM Where trail crosses South Fork Soda Creek.
 QUAD Rocky Peak 7 1/2'
 MAP CRAIG
 HOST Stream sediment sample.
 RMKS Sample data: 20 ppm Nb, 17 ppm U, 31 ppm Th.
 DOI 1977
 REF George Snyder, 1977, Personal Communication.

Sample No. 3

LOCATION: NW1/4SE1/4 sec. 22, T. 7 N., R. 84 W.
 LCST UNSURVEYED
 QUAD Rocky Peak 7 1/2'
 MAP CRAIG
 HOST Stream sediment.
 RMKS Sample data: 20 ppm Nb, 10 ppm U, 26 ppm Th.
 DOI 1977
 REF George Snyder, 1977, Personal Communication.

Sample No. 4

LOCATION: NW1/4 sec. 16, T. 7 N., R. 84 W.
 LCRM Point where pack trail crosses Bear Creek.
 QUAD Rocky Peak 7 1/2'
 MAP CRAIG

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HOST Stream sediment sample.
 RMKS Sample data: 20 ppm Nb, 4 ppm U, 52 ppm Th.
 DOI 1977
 REF George Snyder, 1977, Personal Communication.

RMKS Sample data: 30 ppm Nb, 9 ppm U, 53 ppm Th.
 DOI 1977
 REF George Snyder, 1977, Personal Communication.

Sample No. 5

LOCATION: SE1/4NW1/4 sec. 9, T. 7 N., R. 84 W.
 LCRM Taken just below small lake.
 QUAD Rocky Peak 7 1/2'
 MAP CRAIG
 HOST Stream sediment.
 RMKS Sample data: 20 ppm Nb, 10 ppm U, 47 ppm Th.
 DOI 1977
 REF George Snyder, 1977, Personal Communication.

Sample No. 12

LOCATION: NW1/4NW1/4NW1/4 sec. 33, T. 7 N., R. 84 W.
 LCRM Point where road crosses stream.
 QUAD Rocky Peak 7 1/2'
 MAP CRAIG
 HOST Stream sediment sample.
 RMKS Sample data: 30 ppm Nb, 14 ppm U, 48 ppm Th.
 DOI 1977
 REF George Snyder, 1977, Personal Communication.

Sample No. 6

LOCATION: E1/2NW1/4 sec. 11, T. 10 N., R. 85 W.
 LCRM Area west of Farwell Mine.
 QUAD Hahns Peak 7 1/2'
 MAP CRAIG
 HOST Rock sample, probably Precambrian hornblende gneiss.
 RMKS Sample data: 150 ppm Nb, 3 ppm U, 19 ppm Th.
 DOI 1977
 REF George Snyder, 1977, Personal Communication.

Sample No. 13

LOCATION: SW1/4SW1/4 sec. 32, T. 8 N., R. 84 W.
 LCRM Point where trail crosses South Fork.
 QUAD Rocky Peak 7 1/2'
 MAP CRAIG
 HOST Stream sediment sample.
 RMKS Sample data: 100 ppm Nb, 25 ppm U, 146 ppm Th.
 DOI 1977
 REF George Snyder, 1977, Personal Communication.

Sample No. 8

LOCATION: NW1/4 sec. 17, T. 7 N., R. 83 W.
 LCST UNSURVEYED
 LCRM North side of Soda Creek.
 QUAD Buffalo Pass 7 1/2'
 MAP CRAIG
 HOST Rock sample of Precambrian Mount Ethel granite.
 RMKS Sample data: 20 ppm Nb, 34 ppm U, 13 ppm Th.
 DOI 1977
 REF George Snyder, 1977, Personal Communication.

Sample No. 14

LOCATION: NW1/4NE1/4SW1/4 sec. 32, T. 8 N., R. 84 W.
 QUAD Rocky Peak 7 1/2'
 MAP CRAIG
 HOST Stream sediment sample.
 RMKS Sample data: 30 ppm Nb, 21 ppm U, 26 ppm Th.
 DOI 1977
 REF George Snyder, 1977, Personal Communication.

Sample No. 9

LOCATION: NW1/4NE1/4SW1/4 sec. 10, T. 7 N., R. 84 W.
 LCST UNSURVEYED
 QUAD Rocky Peak 7 1/2'
 MAP CRAIG
 HOST Rock sample of Precambrian Mount Ethel granite.
 RMKS Sample data: 30 ppm Nb, 5 ppm U, 46 ppm Th.
 DOI 1977
 REF George Snyder, 1977, Personal Communication.

Twenty Mile Park

LOCATION: T. 5 N., R. 86 W.
 LCST UNCERTAIN
 MAP CRAIG
 PROD Maximum of 2.5 ft of 0.25% eU308, depth range from surface to 50 ft.
 RNG Max. 2000 cps
 HOST Minor secondary tabular type mineralization beneath Fish Creek Coal seam in the Holderness Sandstone Member of the Upper Cretaceous Williams Fork Formation.
 STRC 5° to 7° dip.
 ALT Hematite and ilmonite stain.
 MNZ Eight wells had mineralization ranging from 0.010% to 0.025% eU308.
 RMKS 29 exploration wells were drilled in sec. 10, 14, 22, 27 and 28.
 REF Atlantic Richfield Co., 1977.

Sample No. 10

LOCATION: NE1/4NE1/4SE1/4 sec. 29, T. 7 N., R. 84 W.
 LCRM Small unnamed creek that enters Gunn Creek.
 QUAD Rocky Peak 7 1/2'
 MAP CRAIG
 HOST Stream sediment sample.
 RMKS Sample data: 20 ppm Nb, 9 ppm U, 30 ppm Th.
 DOI 1977
 REF George Snyder, 1977, Personal Communication.

Willow Creek Claims

LOCATION: sec. 12, T. 10 N., R. 86 W.
 LCRM Claims are 2.5 miles south of Columbine on Colorado 128 and approximately 1,000 ft west along Jeep trail.
 MAP CRAIG
 DYEL One 250 ft long trench. Numerous prospect pits.
 BKG .03 to .05 mr/hr
 RNG .2 to .8 mr/hr
 HOST Jurassic Morrison Formation(?). Badly fractured,

Sample No. 11

LOCATION: NE1/4NE1/4NE1/4 sec. 29, T. 7 N., R. 84 W.
 LCRM In Gunn Creek.
 QUAD Rocky Peak 7 1/2'
 MAP CRAIG
 HOST Stream sediment sample.

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weathered and carbonaceous mudstone.
Dip is 46° southwardly.
STRC Autunite is principal mineral, some occasional
MNZ pitchblende. Sample had value of 0.08% eU.
DOI 1955
REF U.S. A.E.C., 1966, Preliminary Reconnaissance
Reports, Routt County, Colorado. Gale, Hoyt
S., 1905. Barnwell, William W., (?), Thesis,
Univ. of Wyoming.

SAGUACHE COUNTY

Uranium production from the county as of 1971 totaled 596,494 tons of ore at an average grade of 0.22 percent U_3O_8 . Development is beginning on a major mine with excellent possibility of more reserves being found in the county.

Igneous rocks of the Miocene Potosi Volcanic Series cover much of Saguache County, located in south-central Colorado. Paleozoic sediments and Precambrian rocks are found along the Sangre de Cristo Range on the eastern edge of the county. These two areas are separated by the valley of the San Luis Graben, which is filled with thousands of feet of recent sediments. Paleozoic and younger rocks crop out in scattered locations around the county. In the Sargents-Marshall Pass-Bonanza area is an extensive field of late Tertiary volcanic flows, known as the Bonanza volcanic field.

Most of the production in the county came from mines in the Cochetopa district and in the Marshall Pass area. No production is currently taking place in these areas, but reserves are large, and at least one major mine, the Pitch, will begin operations soon.

Three mines produced 99 percent of the ore mined in the county--the Los Ochos Mine, the Pitch Mine, and the T-2 Mine. The Los Ochos Group and the T-2 Mine lie on the Los Ochos Fault in the Cochetopa district. Here the mineralization occurs where the Los Ochos Fault brecciates the Morrison Formation, the Dakota Sandstone, and the Mancos Shale, which all overlie Precambrian rocks. Morrison Formation sandstones appear to be the most favorable host, but the Dakota Sandstone should not be overlooked.

The Pitch Mine is the important past producer in the Marshall Pass district. The mine has been inactive for many years, but is currently being readied for strip-mining operations. The uranium at the Pitch Mine occurs in the Pennsylvanian Belden Formation. The Pitch Mine and all other occurrences in this area lie on or near the Chester Fault, which displaces Precambrian rocks against remnants of Paleozoic rocks. Although the Belden Formation is mineralized at the Pitch Mine, nearly any of the Paleozoic formations can act as a host. Some of the occurrences, such as the Little Indian No. 36, are found in Harding Quartzite, while others are found in the Leadville Limestone or in the Chaffee Formation.

Saguache County shows excellent potential for the discovery of relatively large ore bodies. The known deposits in this county primarily lie in the Cochetopa district, the Marshall Pass area, and in the Kerber Creek district. The Kerber Creek area's geology is nearly identical to that of the Marshall Pass area. These are the areas with the major potential in the county. In the Cochetopa district, emphasis should be placed on locations where major faults have brecciated the Dakota Sandstone and the Morrison Formation. Mineralization in both the Marshall Pass area and in the Kerber Creek district is found where such structures as the Chester Fault intersect remnants of the Paleozoic section. Similar stratigraphic and structural conditions in Saguache and adjacent counties could yield similar types of deposits.

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Anna Claim

LOCATION: sec. 27, T. 47 N., R. 3 E.
 QUAD Razor Creek Dome 7 1/2'
 MAP MONTROSE
 DVEL Two trenches, 60 to 75 ft long and 2 to 6 ft deep were bulldozed. A 10 ft deep shaft was sunk.
 BKG .015 mr/hr
 RNG .07 to .4 mr/hr
 HOST The country rock is Precambrian granite and Tertiary andesite flows. Although mineralization occurs in the granite, the contact between granite and volcanics is only about 10 to 15 ft from the mineralization and runs parallel to the trend of mineralization. Shear zones, which are highly fractured and contain the mineralization, cut the granite. The trends range between S35°W and S65°W and dips lie between 65° and 70°E.
 STRC Alteration is common and intense in the shear zones.
 ALT The shear zones are characterized by abundant limonite, hematite, and minor manganese staining. No specific uranium mineral was identified, but traverses reveal radioactivity of from 3 to 15 times background. Channel samples range as high as 27 times background.
 MNZ 1955
 DOI U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Saguache County, Colorado.
 REF

Apache No. 4

LOCATION: sec. 19, T. 48 N., R. 6 E.
 LCRM This claim also extends to sec. 30. It lies 1/4 mile west of Indian Creek.
 QUAD Pahlone Peak 7 1/2'
 MAP MONTROSE
 DVEL There has been no production from the claim. 40 diamond drill holes were completed. A small reserve at an average depth of 100 ft has been developed.
 HOST The deposit occurs as a bedded deposit in the Ordovician Harding Quartzite. A 4.5 ft thick carbonaceous zone localized the radioactivity.
 STRC The mineralized area lies on the Indian Creek anticline.
 MNZ The mineralization averaged 0.24% U3O8. Uraninite or pitchblende and scattered sulfides were noted.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. Ranspot, H. W., 1958.

Barium Lode

LOCATION: sec. 4, T. 46 N., R. 6 E.
 LCST UNCERTAIN
 QUAD Lake Mountain NE 7 1/2'
 MAP MONTROSE
 BKG .05 mr/hr
 RNG .15 to 0.5 mr/hr
 HOST The country rock is principally a hornblende-biotite

schist.

STRC The radioactive material occurs in a pegmatitic vein of hematitic jasperoid material about two to three ft wide.
 MNZ The radioactive mineral was not determined, but it is associated with jasper, hematite, specularite and garnet. One sample assayed 0.087% eU, 0.044% U, 0.031% Th, and contained some radium.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Saguache County, Colorado.

Beginner's Luck Claim (Beginner's Luck 3)

LOCATION: NE 1/4 sec. 33, T. 45 N., R. 11 E.
 LCST UNSURVEYED
 LCRM Claims also extend into sec. 3, T. 44 N., R. 11 W. An access road (trail) was bulldozed to the claim. The claim is approximately 1 1/2 miles up this trail from the buildings where vehicles need to be parked.
 QUAD Mirage 7 1/2'
 MAP PUEBLO
 PROD Nine tons were mined in 1955 at a grade of 0.15% U3O8 and 0.09% V2O5, producing 26 lbs of U3O8 and 16 lbs of V2O5.
 BKG .04 mr/hr
 RNG To 1.3 mr/hr
 HOST The host rock is compact, gray, Ordovician Harding Quartzite which weathers dark gray or buff.
 STRC Small, discontinuous fractures contain the radioactivity. They vary from 1 to 5 ft in length and have a maximum thickness of several inches. They trend N41°W and dip 56°SW. The average depth to ore was five ft.
 MNZ A small amount of autunite is visible. Mineralization of the uraninite-coffinite type was also reported.
 DOI 1955
 REF U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Saguache County, Colorado.

Belle Lode (Balls Lode, Freeman Claims)

LOCATION: sec. 28, T. 48 N., R. 2 E.
 LCRM The deposit also extends to sec. 33.
 QUAD Iris 7 1/2' and Houston Gulch 7 1/2'.
 MAP MONTROSE
 BKG .02 mr/hr
 RNG 2.00 mr/hr
 HOST The host is primarily Precambrian granite cut by Tertiary quartz-lathite dikes.
 STRC Fault fissures appear to control and localize the ore.
 MNZ Malachite and azurite are abundant in a quartz-carbonate-barite gangue. No visible uranium minerals were originally noted, but pitchblende was later found.
 DOI 1954
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Saguache County, Colorado.

Big Indian Group of Claims

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LOCATION: sec. 20, T. 48 N., R. 6 E.

LCST UNSURVEYED
 LCRM This deposit also extends to sec. 19, 20, & 30, and to sec. 24, 25, T. 48 N., R. 5 E.
 QUAD Pahlone Peak 7 1/2'
 MAP MONTROSE
 DVEL Two open adits, 15 ft in length have been opened up with access roads to each. Numerous test pits along the mineralized horizon have been dug, but there has been no production.
 BKG .003 mr/hr
 RNG .1 to .3 mr/hr
 HOST Mineralization has taken place in a 5 ft section of fine- to medium-grained fossiliferous, locally carbonaceous, asphalt pellet bearing, iron stained, rather porous sandstone of the Ordovician Harding Quartzite. The formation is 18 to 20 ft thick and the mineralized zone is both overlain and underlain by a dense quartzitic sandstone with minor iron staining and no asphaltic or carbonaceous material.
 STRC The beds have been folded into an anticlinal fold with Indian Creek roughly bisecting the axis at right angles.
 MNZ Select and channel samples ranged between 0.07 and 0.10 mr/hr. Assay results by a private assayer indicate considerable disequilibrium in favor of chemical uranium. Samples assayed averaged 0.10% U3O8. The primary uranium mineral is pitchblende, or uraninite, but gummite, autunite and zippelite were also found.
 DOI 1955
 REF U.S. Bur. of Mines, 1977, (Unpubl.), U.S. Geol. Survey, 1977, CRIB File. Finch, W. I., 1967. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Saguache County, Colorado. Guner, J. W., and Knot, J. A., 1957.

Bob Cat

LOCATION: sec. 26, T. 44 N., R. 11 E.

DVEL Discovered in 1953, working consists of open cuts and pits.
 PROD A total of 46 tons of 0.14% U3O8 and 0.08% V2O5 were mined in 1953-1954, producing 131 lbs of U3O8 and 78 lbs of V2O5.
 HOST The host is a zone pegmatite in a Precambrian granite. This pegmatite is one of a series of dikes that cut Precambrian schist, gneiss, and granite in a northwest trending belt 3 miles wide and 25 miles long.
 STRC Near vertical and strikes northwest.
 MNZ Uranium, thorium, and rare earth minerals.
 DOI 1971
 REF R. C. Malan, 1978, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado.

Bonita Nos. 1 & 2 Claims (Bonita Claim, Bonita Group)

LOCATION: sec. 23, T. 48 N., R. 7 E.

LCST UNSURVEYED
 LCRM The mine is adjacent to the road. It also extends to sec. 14.
 QUAD Bonanza 15'
 MAP MONTROSE
 DVEL Drifting on the mineralized structure began

In the fall of 1954. Workings as of November 1, 1955 consisted of 375 ft of underground work.

PROD In 1955-1958, a total of 163 tons had been mined at a grade of 0.144% U3O8, producing 472 lbs of U3O8 and 5 lbs of V2O5.
 BKG .08 to .10 mr/hr
 RNG .2 to 1.0 mr/hr
 HOST The host is a carbonaceous regolith of possible Eocene age which rests on Precambrian granite and is overlain by Miocene Potosi Volcanic Series.
 STRC A major fault, which branches out to several faults and steepens where it branches, appears to control the mineralization.
 ALT Heavy wallrock alteration to sericite and kaolinite is present. Heavy hematite alteration exists in the faults.
 MNZ The mineralization appears at one point as minor visible autunite (?) and non-visible minerals in the rhyolitic footwall of the fault. Where the fault branches into vertical trends the mineralization is not megascopically visible, but is associated with the heavy hematite alteration in the faults. Radiometric assays range from 0.008 to 0.35% U3O8, and chemical assays are between 0.026 and 0.526% U3O8. The majority of ore comes from an eight in. seam of black, carbonaceous material which dips 25 ft to the west. The seam occurs between Precambrian granite below and a Tertiary trachyte porphyry above. The primary mineralization is probably of the uraninite - coffinite type with minor pyrite.
 DOI 1955
 REF R. C. Malan, 1978, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Saguache County, Colorado. Malan, R. C., 1959.

Dependable Group (Snowshoe Claim)

LOCATION: sec. 28, T. 47 N., R. 2 E.

QUAD Sawtooth Mountain and Razor Creek Dome 7 1/2'
 MAP MONTROSE
 DVEL Numerous discovery cuts and an elongated open cut exposing a 15 ft face were made. One 75 ft core hole was drilled.
 BKG .01 to .03 mr/hr
 RNG .03 to .2 mr/hr
 HOST The host rock is Precambrian granite cut by pegmatite. It is unconformably overlain by the Salt Wash Member of the Jurassic Morrison Formation.
 STRC Sub-parallel east-west to N70°E trending shear zones cut the Precambrian and Jurassic rocks, and are weakly mineralized in the Precambrian rocks. Intense brecciation and profuse iron-staining are present in the shear zones.
 ALT Moderate kaolinization of the feldspars of the Precambrian rocks is present in the shear zone.
 MNZ No visible mineralization was noted. The radioactivity appears to be confined to

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the shear zones in the Precambrian. Fluorite was noted in the sandstone in the footwall of the shear.

DOI 1955
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Saguache County, Colorado. Cross, Whitman and Larsen, E. S., 1935, U.S. Geol. Survey Bull. 843.

DNG 1, 2, 3, and 4

LOCATION: sec. 35, T. 47 N., R. 1 E.
 LCST UNCERTAIN
 QUAD T11S 7 1/2' or Sawtooth Mountain 7 1/2'
 MAP MONTROSE
 BKG .04 mr/hr
 RNG .50 mr/hr
 HOST The country rock consists of Precambrian in fault contact with Paleozoic sediments.
 STRC A fault zone cuts through the Precambrian and Paleozoic rocks.
 MNZ A highly fluorescent mineral (autunite?) is disseminated throughout the sandstone and granite host rock.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Saguache County, Colorado.

Erie No. 33

LOCATION: SW1/4 sec. 15, T. 48 N., R. 6 E.
 QUAD Pahlone Peak 7 1/2'
 MAP MONTROSE
 DVEL There was no production from this claim.
 HOST The deposit consists of a jasperoid in an iron-rich limestone within the Ordovician Harding Quartzite.
 MNZ Uranium mineralization was present, assaying 0.14% U308.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. Ranspot, H. W., 1958.

Green Cliff Group

LOCATION:
 LCST UNLOCATABLE
 DVEL This was reported as a past producer; but no figures could be located for a deposit with this name.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

I. Kreiner

LOCATION: NE1/4 sec. 23, T. 44 N., R. 11 E.
 LCST UNSURVEYED
 QUAD Electric Peak 15'
 MAP PUEBLO
 DVEL The quartz and feldspar zones of the pegmatite dike were quarried in the past.
 BKG .04 mr/hr
 RNG to 1.5 to 10.0 mr/hr
 HOST The host is a vein in a pegmatite zone of a dike. This is one of a series of dikes which cut Precambrian rocks in a belt 3 miles wide by 25 miles long.
 STRC A two ft pegmatitic vein is exposed for

40 ft. The vein appears to be zoned in this area, with the radioactive zone adjacent to a five ft section of feldspar. Next to the feldspar on its other side is a massive milky quartz zone.

MNZ The radioactive mineral is a dark red to brown, and is found disseminated through the pegmatite and concentrated in the vein. It is concentrated in places, but with no uniformity. Dodecahedral crystals are observed in the radioactive zone. Mica pockets are found in the pegmatite, with mica, tourmaline, beryl; specularite, and a red, highly radioactive mineral occurring together.

DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Saguache County, Colorado.

Judith Claim

LOCATION: sec. 14, T. 44 N., R. 11 E.
 LCST UNCERTAIN
 HOST Northwest trending pegmatite which has intruded a Precambrian granite. This is one of a series of pegmatite dikes which cuts the Precambrian rocks in a belt 25 miles long by 3 miles wide.
 MNZ 0.499% U308 on a 7 ft channel cut. The mineral is samarskite.
 RMKS Also see the I. Kreiner property which is nearby and which a Western Nuclear report said was euxenite mineralization.
 DOI 1977
 REF Western Nuclear Submittal file.

Kerber Creek Prospect

LOCATION: sec. 36, T. 46 N., R. 8 E.
 DVEL Prospects.
 HOST Upper part of Ordovician Harding Quartzite. A well-indurated fine-grained sandstone with carbonaceous trash.
 STRC Reverse faults with Precambrian rocks faulted against sediments.
 ALT Some silicification, there are also some iron oxides.
 MNZ 0.01 to 3% U308 (usually 0.1%), spotty autunite and uranophane. Average thickness of mineralization is 5 ft.
 DOI 1977
 REF Roger Malan, 1978, Personal Communication. Norman Bennette, Personal Communication.

La Rue Claims (Elisha Group, Elisha-LaRue, La Rue 2, La Rue 22)

LOCATION: S1/2NE1/4 sec. 29, T. 47 N., R. 2 E.
 LCRM The trenches are 200 ft east of the old Mercury Mine. U.S. A.E.C. Records also show sec. 30.
 QUAD Sawtooth Mountain 7 1/2'.
 MAP MONTROSE
 DVEL In 1937, exploration for mercury took place. At that time several trenches, pits, drift, and shaft were dug.
 PROD 7 tons of ore were mined during 1954-1960 at a grade of 0.20% U308 and 0.11% V205, producing 28 lbs of U308 and 16 lbs of V205.
 BKG .03 mr/hr

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RNG .3 to 1.5 mr/hr
 HOST The old workings were in the Brushy Basin Member of the the Morrison Formation, Cretaceous Dakota Formation, and also the Salt Wash Member of the Jurassic Morrison Formation.
 STRC There is a northwest trending shear zone with abundant brecciation of the sandstone. The shear zone appears to control mineralization as at the Los Ochos property.
 MNZ Mineralization appears to be, in part at least, associated with overlying fine-grained, silicified Dakota Sandstone boulders. Marcasite (?) was noted, and uranophane, autunite, torbernite, and sparse asphaltite are present in the boulders. A selected sample had a value of 0.23% U3O8 and 0.26% U3O8.
 DOI 1959
 REF R. C. Malan, 1978, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). Finch, W. I., 1967, p. 13. U.S. A.E.C., 1971, Production Records, Colorado. Malan, R. C., 1959.

Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Ranspot, H. W., 1958.

Los Ochos Group (Kathy Jo, East Mine, Thornburg Mine, T-1, Irishman's Dream)

LOCATION: NE1/4 sec. 4, T. 47 N., R. 2 E.
 LCRM These properties lie in the NE1/4 sec. 4, T. 47 N., R. 2 E.; SE1/4 sec. 33, T. 48 N., R. 2 E.; SW1/4 sec. 34, T. 48 N., R. 2 E.; and NW1/4 sec. 3, T. 47 N., R. 2 E.
 QUAD Razor Creek Dome 7 1/2'
 MAP MONTROSE
 DYEL Numerous claims and prospects were located in 1954. One property had over 355 ft of underground workings, while the owner of the Los Ocho Group developed over 2,500 ft of drifting and did 6,200 ft of core drilling. Drilling has resulted in the discovery of at least two significant ore bodies.
 PROD Prior to 1971, 448,685 tons of ore at a grade of 0.14% U3O8 had been mined, producing 1,253,513 lbs of U3O8.

BKG .04 mr/hr
 RNG .05 - .5 mr/hr
 HOST The deposits occur along a fault where Precambrian granite and schists have been faulted against Jurassic Morrison Formation (Brushy Basin Member). One ore body is in the altered Precambrian schists, while another is in a brecciated, silicified mudstone of the Brushy Basin Member. Most of the ore was mined from sandstone and shale of the Morrison Formation. Mineralization has been found for about a mile along the fault, with most of the ore being in the fault breccia or immediately adjacent rocks. Some ore bodies did extend to as much as 200 ft from the fault into the Morrison Formation.

STRC The Los Ochos Fault is the dominant structure in the area; it is about 3 1/2 miles long. All of the ore deposits are closely related to it spatially. Veins cut the Precambrian rocks. They are one to two ft in width, and were originally mined for gold.

ALT Alteration is reported to be intense in the area of the deposits. The Precambrian rocks are kaolinized, chloritized, and sericitized. The sediments are highly silicified.

MNZ The veins are bound by clay minerals. Autunite is found coating fractures with abundant hematite and ilmenite staining. The radioactive minerals primarily occur in the broken and cemented breccia and include uraninite, autunite, uranophane, torbernite, johannite, uranopilite, and zippelite. Uranium was the principal ore mineral. The gangue minerals were chalcedony, barite, clay minerals, marcasite, and quartz. The uraninite occurred in veinlets of marcasite and clay minerals.

DOI 1959
 REF R. C. Malan, 1978, Personal Communication. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File. Olson, J. C., 1976, U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S. A.E.C., 1966, Preliminary Reconnaissance

Little Indian No. 6 (Indian Creek Group)

LOCATION: sec. 17, T. 48 N., R. 6 E.
 LCRM This deposit lies 1/2 mile east of Indian Creek and also extends to sec. 20.
 QUAD Pahlone 7 1/2'
 MAP MONTROSE
 DYEL There was some diamond core drilling completed.
 HOST The host is the Ordovician Harding Quartzite or the sandstone which contains a 4.5 ft thick carbonaceous zone in a fossiliferous, silty sandstone.
 MNZ Autunite and uranophane have been identified. The mineralized zone assays 0.14 % U3O8.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967. Ranspot, H. W., 1958. Gruner, J. W. ;and Knox, J. A., 1957.

Lookout Claims (Lookout Group, Lookout No. 15-34)

LOCATION: NE1/4 sec. 27, T. 48 N., R. 6 E.
 LCRM This occurrence extends to sec. 22.
 QUAD Pahlone Peak 7 1/2'
 MAP MONTROSE
 PROD During the period 1956 through 1960, a total of 514 tons averaging 1.17% U3O8 and containing 13,500 lbs of U3O8 were produced from the Lookout #22 Claim. From 1954 to 1961, other claims in the Lookout Group (#24, #33) produced a total of 63 tons averaging .25% U3O8 and producing 371 lbs of U3O8.
 HOST A vein at the faulted contact of Precambrian pegmatite and schist. At Lookout #22 several hundred tons of high grade ore were produced from the colluvium overlying a weakly mineralized contact of pegmatite and schist.
 MNZ Pitchblende, uraninite, and uranophane are present in the vein, with assays of 1.0 % U3O8. The high grade pitchblende was surrounded by orange alteration products, becquerelite and schoepite.
 DOI 1972
 REF R. C. Malan, 1978, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S.

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Reports, Saguache County, Colorado. Eckel, E. B., 1961. Malan, R. C., and Ranspot, H. W., 1959. U.S. A.E.C., 1959, (RME-141). Derzay, R. C., 1956.

A.E.C., 1966, Preliminary Reconnaissance Reports, Saguache County, Colorado. Wright, R. J. and Everhart, D. L., 1960. Malan, R. C., and Ranspot, H. W., 1959.

M & W Group

LOCATION: SW1/4 sec. 20, T. 47 N., R. 2 E.
 QUAD Sawtooth Mountain 7 1/2'
 MAP MONTROSE
 DVEL Four discovery trenches were dug.
 BKG .015 - .025 mr/hr
 RNG .15 mr/hr
 HOST The rocks in the area consist of Precambrian granite gneiss and the Salt Wash Member of the Jurassic Morrison Formation. The anomalous radioactivity occurs in the Precambrian rocks.
 STRC A nearly vertical shear zone, striking S55°E, trends through exposures of Precambrian granite gneiss and Jurassic Morrison Formation.
 MNZ Radioactivity is associated with the intensely sheared, hematite stained Precambrian rocks. A minor amount of disseminated fluorite is present in the sandstone. No visible uranium mineral was noted.
 DOI 1955
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Saguache County, Colorado. Cross, Whitman, and Larsen, E. S., 1935, U.S. Geol. Survey Bull. 843, 138 p.

Marshall Pass Group Nos. 1-58

LOCATION: sec. ²⁷27, T. 48 N., R. 6 E.
 LCST UNSURVEYED
 QUAD Pahlone Peak 7 1/2'
 MAP MONTROSE
 DVEL The prospect consists of a small pit 10 ft x 10 ft x 6 ft. Two to three tons of ore were stockpiled.
 PROD In 1956, 18 tons of ore were mined at a grade of 1.06% U308 and 0.06% V205, producing 380 lbs of U308 and 22 lbs of V205 from the Marshall Pass No. 5 Claim.
 BKG .07 mr/hr
 RNG 20.0 + mr/hr
 HOST The prospect is in a coarse-grained Precambrian granite that has intruded biotite and muscovite schist. Limestones and quartzites and the Pennsylvanian Belden Shale are all associated with the area. Ore production came from a regolith developed on the Precambrian rocks.
 STRC The Chester Fault has thrown younger sediments against Precambrian igneous and metamorphic rocks. The mineralization is intimately related to the faulting as at the Pitch Mine northwest of this occurrence. Other north-trending faults occur in this area.
 MNZ Two samples sent in by the owners assayed 21.40 and 30.0+% U308. The uranium mineral is pitchblende with minor amounts of uranophane (?) and gummite. A minor amount of galena was present in the pitchblende.
 RMKS This is in the area of the Pitch Mine.
 DOI 1956
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. U.S.

Mercury - Alpine Claims

LOCATION: sec. 33, T. 44 N., R. 12 E.
 LCRM The deposit also extends to sec. 5, T. 42 N., R. 12 W.
 QUAD Electric Peak 15'
 MAP PUEBLO
 DVEL Open cuts, average depth to ore was 5 ft. Shallow jackhammer drilling done at property.
 PROD During 1958-1962, a total of 25 tons had been mined at a grade of 0.31% U308, producing 155 lbs of U308.
 HOST Permian Sangre de Cristo Formation, Carbonaceous Sandstone.
 MNZ Uraninite occurs in pockets in silty arkosic beds.
 DOI 1971
 REF E. P. Beroni, 1978, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado.

Mercury Mine

LOCATION: SW1/4NE1/4 sec. 29, T. 47 N., R. 2 E.
 QUAD Sawtooth Mountain 7 1/2'
 MAP MONTROSE
 PROD No production recorded.
 HOST The deposit occurs where the Jurassic Morrison Formation has been faulted against Precambrian rocks.
 STRC A fault controls the area of mineral deposition.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1962, Minerals Yearbook, v. 222, p. 264. Malan, R. C., and Ranspot, H. W., 1959.

Millie Luna (Sylvia, Faith Groups)

LOCATION: sec. 16, T. 45 N., R. 11 E.
 QUAD Valley View Hot Springs 7 1/2'
 MAP PUEBLO
 DVEL Some underground mining was completed on the prospect.
 HOST The deposit lies in Pennsylvanian limestones and sandstones where the bedding planes have shears within them.
 STRC Shearing?
 MNZ Uranium mineralization was recognized, but no uranium minerals were visible.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. Geol. Survey, 1977, CRIB File.

Mocking Bird Claim

LOCATION: sec. 4, T. 46 N., R. 10 E.
 LCST UNCERTAIN
 LCRM Possibly in sec. 3 also.
 QUAD Howard 15'
 MAP PUEBLO
 DVEL Several development cuts and pits were made.
 PROD In 1954, six tons of 0.20% U308 ore were mined, yielding 24 lbs of U308.

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BKG .04 mr/hr
 RNG .4 to 4.0 + mr/hr
 HOST Precambrian hornblende gneiss and granite gneiss cut by a zoned pegmatite dike which contains the mineralization. This is one of a series of these dikes which cut Precambrian rocks in a belt 3 miles wide and 25 miles long.
 MNZ The radioactive mineral is black, heavy, and appears massive. It was described as a "xenotime-type" ore. One sample assayed 0.366% eU308, 0.271% U308 with 0.68% Nb and 0.5% Ta. Other samples assayed ranged in value from 0.015 to 0.032% eU, 0.006 to 0.20% U, 0.031% Th, with minor radium. Minerals are xenotime, monazite, samarskite, garnet and cyrtolite.
 DOI 1953
 REF Malan, R. C., 1978, Personal Communication. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Saguache County, Colorado.

Old Rawley Mine

LOCATION: SW1/4 sec. 18, T. 47 N., R. 8 E.
 HOST The host is a quartz barite vein in Tertiary volcanics.
 STRC Veins form along fault fissures or along subsidiary tension fissures in walls of large faults.
 MNZ 0.25% U. Uranium identified as sooty pitchblende and uraninite.
 RMKS Pitchblende was also found in the drainage tunnel of the mine. Also in the Whale Mine just south of the Rawley.
 DOI 1977
 REF Pierson, C. T.; and others, 1958.

Pitch Mine (Erle No. 28)

LOCATION: NE1/4NE1/4 sec. 21, T. 48 N., R. 6 E.
 LCRM The deposit also extends to the NW1/4NW1/4 sec. 22, T. 48 N., R. 6 E.
 QUAD Pahlone Peak 7 1/2
 MAP MONTROSE
 DVEL The mine was first established as an underground mine in the 1950's. Later work has been done on the surface. Homestake Mining Company is in the process of developing an open pit mine on property as of 1977.
 PROD 104,520 tons were mined prior to 1971 at a grade of 0.58% U308, producing 1,206,112 lbs of U308. In a paper given at the American Institute of Mining Engineers Meeting, Denver 1978, reserves were reported as 2.1 million tons of ore at a grade of 0.17% U308. This would be equivalent to 1.74 million lbs of U308. The pit will be approximately 5,000 ft long by 400 ft deep. It is to be elongated along the Chester Fault with the fault being the axis of the pit.
 HOST The deposit occurs in the Pennsylvanian Belden shale and limestones where they have been faulted into contact with Precambrian rocks.
 STRC The Chester Thrust Fault controlled ore deposition in the vein.

ALT Rocks are altered near the fault. Swelling ground necessitated the use of arched steel sets in areas of highly altered Precambrian rocks.
 MNZ Uraninite, pitchblende, uranophane, and pyrite are found at the mine.
 REF Ward, J. M., 1978, AIME Conference, Denver. U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). Mining Journal, August 1976. U.S. A.E.C., 1971, Production Records, Colorado. U.S. A.E.C., 1959. Malan, R. C., and Ranspot, H. W., 1959. Ranspot, H. W., 1957.

Rainbow's End

LOCATION: S1/2NE1/4 sec. 33, T. 46 N., R. 9 E.
 QUAD Villa Grove 7 1/2
 MAP PUEBLO
 DVEL The property has no history of production. Workings consist of a few small pits 1-2 ft deep.
 BKG .02 - .09 mr/hr
 RNG .18 mr/hr
 HOST The host rock is Ordovician Harding Quartzite. The Harding Quartzite strikes N60°E and dips N22°W.
 STRC
 MNZ The mineralized zone is confined to a 4.5 ft thick carbonaceous bed within the Upper Harding Quartzite. No uranium minerals were visible but radioactivity appears to be associated with limonite staining and carbonaceous matter in the form of fish scales and asphaltic pellets. An unidentified copper mineral was present in places.
 DOI 1956
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Saguache County, Colorado. Burbank, W. S., 1932, Geology and ore deposits of the Bonanza mining district, Colorado, with a section on history and production by C. W. Henderson: U.S. Geol. Survey Prof. Paper 169, 166 p.

Ram Lode and Pam Lode (Ram Lode 1)

LOCATION: sec. 3, T. 44 N., R. 11 E.
 LCRM Also sec. 4. This lease also extends into sec. 33, 34, T. 45 N., R. 11 E.
 DVEL Shallow open cuts.
 PROD From Pam Lode 10 tons had been mined in 1955, at a grade of 0.06% U308 and 0.04% V205, producing 12 lbs of U308 and 8 lbs. of V205. From Ram Lode 1, 19 tons had been mined in 1955 at a grade of 0.16% U308 and 0.09% V205, producing 61 lbs of U308 and 34 lbs of V205.
 HOST The host is a zoned pegmatite in a Precambrian granite or metasediment. This is one of a series of pegmatite dikes which cut the Precambrian rocks in a belt 3 miles wide by 25 miles long.
 MNZ Autunite, xenotime, monazite, samarskite, garnet.
 DOI 1971
 REF R. C. Malan, 1978, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado.

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Ridgeway No. 3 Claim

LOCATION: NW1/4NW1/4 sec. 8, T. 47 N., R. 2 E.
 QUAD Sawtooth Mountain Quadrangle 7 1/2'
 MAP MONTROSE
 DVEL Two small (2 to 4 ft deep) prospect pits were dug.
 BKG .01 to .015 mr/hr
 RNG .05 to .3 mr/hr
 HOST The mineralized area lies in Precambrian granite surrounded by Precambrian biotite schist and granite gneiss cut by stringers and irregular bodies of pegmatite.
 STRC The mineralization lies in shear zones trending N55°E and N70°W with an apparent intersection at or near the upper prospect pit.
 ALT The shear zones are heavily altered.
 MNZ The only mineralization seen was hematite staining. Uranium minerals were not visible.
 RMKS Other claims in the group did not show abnormal radioactivity.
 DOI 1955
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Saguache County, Colorado.

Sage Hen (Friendly Neighbor)

LOCATION: sec. 34, T. 48 N., R. 2 E.
 LCRM This also extends to sec. 35, and to sec. 2, 3, T. 47 N., R. 2 E.
 QUAD Houston Gulch 7 1/2'
 MAP MONTROSE
 DVEL The area was explored and some underground mining was carried out.
 PROD Drilling developed on small ore body at an average depth of 475 ft. No uranium production on record with the U.S. A.E.C. According to CRIB, 4,800 tons of ore were mined at a grade of 0.15% U308 from the 370 ft level.
 HOST The deposit lies in the Jurassic Morrison Formation, Salt Wash Member, silicified sandstones and mudstones in fault contact with Precambrian rocks.
 MNZ Uranium mineralization was found, in the form of pitchblende or uraninite. Scattered sulfides are also present.
 DOI 1972
 REF R. C. Malan, 1978, Personal Communication. U.S. Geol. Survey, 1977, CRIB File. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Shurshot Claims

LOCATION: T. 47 N., R. 1 E.
 QUAD Sawtooth Mountain 7 1/2'
 MAP MONTROSE
 HOST The deposit occurs where Precambrian metamorphics contact the Jurassic Morrison Formation.
 STRC A fault contact controlled the ore emplacement.
 MNZ Pitchblende is present.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.

T-2 Mine (Sec. 3 Mine)

LOCATION: N1/2NE1/4 sec. 3, T. 47 N., R. 2 E.

LCRM N1/2 of sec. 3 is patented land.
 QUAD Razor Creek Dome 7 1/2'
 MAP MONTROSE
 DVEL There was an incline entry with extensive underground workings extending 900 ft along the Los Ochos fault, and 50 to 250 ft in width on the north side of the fault. Average depth to ore was 70 ft.
 PROD During the period 1959 through 1962, a total of 37,565 tons of ore were produced with an average grade of 0.13% U308 and containing 97,618 lbs of U308.
 HOST Ore bodies occurred in brecciated and fractured sandstone of the Salt Wash Member of the Morrison Formation on the north side of the Los Ochos Fault.
 STRC E-W Los Ochos Fault.
 ALT The rocks on either side of fault are altered (see Los Ochos Group).
 MNZ Uraninite is the only uranium mineral reported.
 DOI 1971
 REF R. C. Malan, 1978, Personal Communication. U.S. A.E.C., 1971, Production Records, Colorado. Malan, R. C., and Ranspot, H. W., 1959.

Unnamed No. 1

LOCATION: T. 48 N., R. 2 E.
 QUAD Houston Gulch 7 1/2' or Iris 7 1/2'
 MAP MONTROSE
 DVEL This was a small gold mine, with production begun in 1905.
 HOST The deposit is in the Jurassic Morrison Formation and/or Cretaceous Dakota Sandstone, in fault contact with Precambrian granites.
 STRC A fault brought the sedimentary units into contact with the Precambrian rocks.
 MNZ Uranium and gold mineralization is present.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. Malan, R. C., and Ranspot, H. W., 1959.

Unnamed No. 2

LOCATION: sec. 17, T. 48 N., R. 3 E.
 LCRM This deposit also extends to sec. 19 through 22 and 28.
 QUAD Houston Gulch 7 1/2'
 MAP MONTROSE
 DVEL There has been some production.
 HOST The deposit lies in Cretaceous rocks overlain by the Miocene Potosi Volcanic Series.
 MNZ Uranium mineralization was found.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. Malan, R. C., and Ranspot, H. W., 1959.

Unnamed No. 3

LOCATION: sec. 29, T. 48 N., R. 3 E.
 LCRM This deposit also extends to sec. 30-34.
 QUAD Houston Gulch 7 1/2'
 MAP MONTROSE
 HOST The deposit lies in Cretaceous rocks overlain by Miocene Potosi Volcanic Series.
 MNZ Uranium mineralization was discovered.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. Malan, R. C., and Ranspot, H. W., 1959.

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Unnamed No. 4

LOCATION: NE1/4SW1/4 sec. 13, T. 48 N., R. 6 E.
 QUAD Pahlone Peak 7 1/2'
 MAP MONTROSE
 HOST The deposit lies in the Miocene Potosi Volcanic Series.
 MNZ Uranium mineralization was detected.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.

Unnamed No. 5

LOCATION: sec. 15, T. 48 N., R. 4 E.
 LCRM This deposit also extends to sec. 20, 21, 28, 29, and 32.
 QUAD Doyleville 7 1/2'
 MAP MONTROSE
 HOST The deposit occurs in the Jurassic Morrison Formation and/or the Cretaceous Dakota Group.
 MNZ Uranium mineralization was recognized.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.

Unnamed No. 6

LOCATION: sec. 1, T. 45 N., R. 2 E.
 LCRM This occurrence also extends to sec. 13.
 QUAD Cochetopa Park 7 1/2'
 MAP MONTROSE
 HOST The deposit lies in the Miocene Potosi Volcanic Series.
 MNZ Uranium mineralization was found.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.

Unnamed No. 7

LOCATION: NW1/4NW1/4NE1/4 sec. 6, T. 45 N., R. 3 E.
 QUAD Cochetopa Park 7 1/2'
 MAP MONTROSE
 HOST The deposit is in the Miocene Potosi Volcanic Series.
 MNZ Uranium mineralization was recognized.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.

Unnamed No. 8

LOCATION: sec. 4, T. 45 N., R. 5 E.
 LCRM The deposit extends to parts of sec. 5, 8, 10, 16, and 17. It lies north of Saguache Creek.
 QUAD Trickle Mountain 7 1/2'
 MAP MONTROSE
 HOST The deposit lies in Miocene Potosi Volcanic Series.
 MNZ Gold and uranium mineralization were both found.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.

Unnamed No. 9

LOCATION: sec. 1, T. 46 N., R. 2 E.
 LCRM The deposit extends to sec. 3, 10, 11, and 15.
 QUAD Razor Creek Dome 7 1/2'
 MAP MONTROSE
 HOST The deposit lies in the Miocene Potosi Volcanic

Series.
 MNZ Uranium mineralization was detected.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.

Unnamed No. 10

LOCATION: sec. 4, T. 47 N., R. 3 E.
 LCRM The occurrence extends to sec. 7, 17, 18, 31 and 33.
 QUAD Razor Creek Dome 7 1/2'
 MAP MONTROSE
 HOST The deposit occurs in Cretaceous rocks overlain by the Miocene Potosi Volcanic Series.
 MNZ Uranium mineralization was detected.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.

Unnamed No. 11

LOCATION: sec. 1, T. 47 N., R. 1 E.
 LCRM The occurrence extends to sec. 2, 12, 24, 25, and 36.
 QUAD Sawtooth Mountain 7 1/2'
 MAP MONTROSE
 HOST The deposit occurs in the Jurassic Morrison Formation, overlain by the Miocene Potosi Volcanic Series.
 MNZ Uranium mineralization was discovered.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. Maian, R. C., and Ranspot, H. W., 1959.

Unnamed No. 12

LOCATION: S1/2SE1/4 sec. 25, T. 48 N., R. 1 E.
 LCRM The deposit extends to SW1/4NE1/4SE1/4 sec. 36.
 QUAD Iris 7 1/2'
 MAP MONTROSE
 HOST The deposit occurs in the Jurassic Morrison Formation.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File. Malan, R. C., and Ranspot, H. W., 1959.

Unnamed No. 13

LOCATION: sec. 5, T. 46 N., R. 3 E.
 LCRM The occurrence extends to sec. 6, 7, 16, 17, and 18.
 QUAD Razor Creek Dome 7 1/2'
 MAP MONTROSE
 DVEL There has been no production at this site.
 HOST The host is the Miocene Potosi Volcanic Series.
 MNZ Uranium mineralization was detected.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.

Unnamed No. 14

LOCATION: UNLOCATABLE
 LCST UNLOCATABLE
 PROD U.S. A.E.C. Records show that in 1955 Wycol Minerals shipped 44 tons averaging .05% U308 and containing 44 lbs. of U308 to the Kerr McGee mill at Shiprock, N.M. from an unnamed property in Saguache County, Colorado.

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DOI 1955
REF U.S. A.E.C., 1971, Production Records, Colorado.

Venus 14 (Venus 1-14)

LOCATION: T. 44 N., R. 12 E.
LCST UNCERTAIN
LCRM Located near the Mercury-Alpine Claims.
DYEL A small part of ore was developed at an average depth of 9 ft. No production to date.
HOST The deposit occurs in a carbonaceous sandstone of the Sangre de Cristo Formation.
MNZ Uraninite - coffinite type mineralization was discovered.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Willow Creek Group (Beta Group)

LOCATION: sec. 4, T. 46 N., R. 1 W.
LCRM This deposit extends to sec. 2, 3, 5, and 6 as well, which overlap very slightly into Gunnison County.
QUAD Spring Hill Creek 7 1/2' and Powderhorn 7 1/2'.
MAP MONTROSE
DYEL There are no mines, but there are a few prospect pits in the area.
MNZ Uranium mineralization was recognized in the area.
DOI 1972
REF U.S. Geol. Survey, 1977, CRIB File.

Whale Mine

LOCATION: NW1/4NE1/4 sec. 19, T. 47 N., R. 8 E.
LCRM The deposit also extends to sec. 18.
QUAD Bonanza 15'
MAP MONTROSE
DYEL There are several old shafts and adits that were inaccessible in 1953. The workings were reopened in 1955. The main drift is 800 ft long with several small cross cuts and raises.
BKG .03 to .06 mr/hr
RNG .06 to 20.0 mr/hr
HOST The deposit is a vein deposit in Tertiary Rawley Andesite. The vein is 1,200 ft long, five ft wide, and tabular in shape.
STRC The Michigan Vein is the primary control. It strikes N15°E and dips 70°E. The pitchblende is localized where a small fault intersects the Michigan Vein. Its strike parallels the Michigan Vein's strike, but it dips 35°E.
MNZ Primary ore minerals are pitchblende(?), galena, silver, sphalerite, and chalcopyrite. Malachite is present as a secondary mineral. Gangue minerals include limonite, barite, and quartz. The pitchblende(?) occurs as veinlets and coatings in mixtures of sulfides and gangue. A grab sample of lead silver ore taken from the dump registered 2.0 mr/hr.
DOI 1955
REF U.S. Bur. of Mines, 1977, (Unpubl.) U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Saguache County, Colorado, Pierson, C. T., Weeks, W. F., and Kleinhampl, F. J., 1958. Burbank, W. S., 1932, U.S. Geol. Survey Prof. Paper 169, p. 134-135.

Wild Cherry Creek Area (Beginners Luck Claims)

LOCATION: T. 44 N., R. 11 E.
PROD An average value of 0.25% U3O8 is reported.
HOST The host is a vein in a rhyolite porphyry of Tertiary age.
MNZ Mineralization is in a 1 ft to 3 ft zone along steeply dipping rhyolite porphyry hogback 700 ft long.
REF Atlantic-Richfield Co., 1977.

SAN JUAN COUNTY

The production of uranium from the county has been relatively large. However, it has been from only one mine. The Graysill Mine produced 31,494 tons of ore that contained 51,012 lb of U_3O_8 . The potential for more reserves of uranium to be found in the county is limited.

The county is in the center of the San Juan Mountains in the southwestern part of the state. Paleozoic and Precambrian rocks crop out in the southern part of the county. A majority of the county is covered by Tertiary volcanic rocks associated with the San Juan Mountain Uplift. Large caldera systems are associated with the volcanic activity. These systems are important because of the base- and precious-metal mining associated with them. Mining for silver and gold has been important in the county since the late 1800's.

Two mines in the county have produced U_3O_8 -- the Elk Park Prospect and the Graysill Mines. Although Elk Park Mine is a very minor producer of uranium, it is important from the standpoint of being a polymetallic type of uranium occurrence. Cobalt, silver and arsenic are associated with uranium in

the mine, making this one of the few mines of this type in Colorado. The Graysill Mine is a sandstone-type of uranium occurrence. The ore occurs in the Jurassic Entrada Sandstone. This is one of the Entrada roscoelite-type deposits that form a north-south belt from the Rifle Mine in Garfield County to the Good Hope-Nevada Group in La Plata County. This type of deposit is typified by primary vanadium and uranium as its by-product. The vanadium mica roscoelite is always in abundance at these deposits, and the Entrada Sandstone is the main host.

The potential for more reserves to be found in the county is small. The Graysill Mine has been closed for a number of years. The majority of the county is covered by volcanics, and, to date, these types of rocks have not been uranium producers, although uranium mineralization has been noted in volcanogenic rocks in other areas. Studies are now being carried out on this type of mineralization. Areas near calderas such as the Silverton could someday become potential host rocks after more research into this type of uranium occurrence. Also, the mineralization at the Elk Park is extremely interesting but appears to be limited.

SAN JUAN COUNTY

1969. Mineral Resources of the San Juan Primitive Area, Colorado. U.S. Geol. Survey Bull. 1261-F, p. 88.

Black Hawk Mine

LOCATION: sec. 22, T. 42 N., R. 7 W.
 LCRM Original directions to mine are as follows: "North from Silverton, on road to Gladstone. Continue past mill site at Gladstone to well-defined branch of road, take right."
 DYEL This is an inactive precious metal mine with extensive workings.
 HOST Vein in Tertiary volcanics.
 STRC Shear zone of varying thickness.
 RMKS On traverse from portal to face the background went 0.02 to .18 mr/hr. Radon gas was suspected.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, San Juan County, Colorado.

Bushwacker (B & B No. 1 & 2)

LOCATION: sec. 26, T. 40 N., R. 10 W.
 LCRM Near Hermosa Creek.
 HOST Entrada Sandstone of Jurassic age.
 MNZ Roscoelite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Carbon Lake Shaft

LOCATION: T. 42 N., R. 8 W.
 LCST UNSURVEYED
 QUAD Ironton 7 1/2'
 DYEL This is an inactive gold-silver mine with extensive workings.
 HOST Hydrothermal chimney in Tertiary volcanics.
 MNZ Galena, sphalerite, pyrite, silver, gold, enargite, tennantite. One sample had a value of 0.013% U.
 DOI 1958
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Ouray County, Colorado. Pierson, C. T.; and others, 1958. Burbank, W. S., and Pierson, C. T., 1953. Burbank, W. S., and Pierson, C. T., 1952.

Elk Park (Surprise Claims, Clyde Long Property)

LOCATION: sec. 20, T. 40 N., R. 7 W.
 LCST UNSURVEYED
 LCRM Mine is located about 1,000 ft west of the Animas River at point where the railroad crosses river just below Elk Park.
 QUAD Snowden Peak 7 1/2'
 PROD By 1971, 33 tons had been mined at a grade of 0.45% U308 producing 2,972 lbs of U308.
 BKG 150 cps
 RNG 150 to 10,000 cps
 HOST Shears and faults in quartzite and schist of the Precambrian Uncompaghe Formation.
 STRC Faults?
 MNZ Uraninite, autunite, meta-torbernite, and erythrite, plus other uranium (?) oxides.
 DOI 1977
 REF R. G. Malan, 1978, Personal Communication. Atlantic Richfield Company, 1977, Maxwell, J. W., 1977. Stevens, T. A.; and others,

Graysill Mine

LOCATION: T. 40 N., R. 10 W.
 LCST UNSURVEYED
 LCRM Located near the San Juan-Dolores county line near Bolam Pass.
 QUAD Hermosa Peak 7 1/2'
 DYEL There are numerous adits.
 PROD By 1971, 171 tons had been mined at grades of 0.049% U308 and 1.907, V205 at the Graysill No. 1 Mine. At the Graysill No. 2 Mine, 31,778 tons had been mined at grades of 0.08% U308 and 2.41% V205. These separations are listed in the U.S. A.E.C. Production Records.
 HOST Jurassic Entrada Sandstone with rhyolite sills at base or top.
 STRC Sills and faults.
 ALT Bleached host.
 MNZ Mineralization is of the roscoelite type. The concentration seems to be related to the proximity of the rhyolite sills. Also, mineralization is localized around carbon trash.
 REF U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967. Bain, G. W., 1952b.

Henrietta Mine

LOCATION:
 LCST UNCERTAIN
 LCRM Original directions are as follows: "Start at Silverton, and take road to Gladstone for 6.4 miles. Take sharp left turn for 7.9 miles. Henrietta Mine southwest of road. Mine located at elevation of 11,500 ft, on west slope near head of Prospect Gulch."
 QUAD Ironton 7 1/2'
 DYEL Inactive gold-silver mine with extensive workings.
 BKG .02 to .05 mr/hr
 RNG .02 to .1 mr/hr
 HOST Vein in Tertiary volcanics.
 MNZ Galena, sphalerite, bornite, chalcopryrite, pyrite, quartz. Rough table concentrates had reading of 1.2 mr/hr. The washed concentrates had a reading of .1 mr/hr.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, San Juan County, Colorado.

Hercules

LOCATION:
 LCST UNCERTAIN
 LCRM Directions to mine are as follows: "Start from Silverton on road to Gladstone 6.4 miles - take sharp left turn, 8.5 miles. First mine is Hercules and second is Galena Queen. Mine is located at 12,000 ft in west end of Prospect Gulch, south of Red Mountain #3."
 QUAD Ironton 7 1/2'
 BKG .03 to .05 mr/hr

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RNG .03 to .08 mr/hr
 HOST Chimney In Tertiary volcanics.
 MNZ Galena, sphalerite, pyrite.
 RMKS The tabled concentrates from the tailings of the ore had a reading of .04 to .4 mr/hr.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, San Juan County, Colorado.

Koehler Tunnel

LOCATION:
 LCST UNSURVEYED
 LCRM Located about 1,500 ft southeast of Red Mountain Pass on US 550.
 QUAD Ironton 7 1/2'
 DVEL This is an inactive silver-gold mine with extensive workings.
 RNG To 6 x bg
 HOST Chimney deposit In Tertiary latite volcanics.
 MNZ Pyrite, enargite, galena, sphalerite, and ilmonite in gangue quartz, dickite, sericite, fluorite, and carbonates. Radioactive material was found chiefly in mixed sulphide and gangue material mainly in galena bearing samples.
 DOI 1951
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, San Juan County, Colorado.

Lark Tunnel

LOCATION: T. 42 N., R. 8 W.
 LCST UNSURVEYED
 DVEL An inactive gold-silver mine with extensive workings.
 HOST Hydrothermal chimney In Tertiary volcanics.
 MNZ Galena, sphalerite, pyrite, silver, gold, enargite, and tennantite. A sample had a value of 0.35% U. Tabled tailings of the ore are reported to have been anomalous by as much as 10 x bg.
 DOI 1958
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Ouray County, Colorado. Pierson, C. T.; and others, 1958. Burbank, W. S., 1953. Varnes, D. J.; and others, 1945, Lark Mine, Cement Creek area, San Juan County, Colorado. Colo. Min. Assoc. Mining Yearbook, p. 36.

Longfellow Mine

LOCATION: T. 42 N., R. 8 W.
 LCST UNCERTAIN
 LCRM Reported to be about 200 yds north of Koehler Tunnel, but small sketch map shows the anomaly as being on the north side of a pond which would be north of the Longfellow Mine.
 QUAD Ironton 7 1/2'
 DVEL This is an inactive silver-gold mine.
 BKG .02 to .05 mr/hr
 RNG .07 to .2 mr/hr
 HOST Chimney deposit In Tertiary volcanics.
 MNZ Galena, sphalerite, and hydrothermal clay.
 DOI 1953
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, San Juan County, Colorado. Pierson,

C. T.; and others, 1958. Burbank, W. S.; and others, 1953.

Mighty Monarch Mine

LOCATION: T. 41 N., R. 7 W.
 LCST UNCERTAIN
 LCRM Original directions to occurrence are as follows: "Near base northwest slope of Mount Kendall adjacent to Silverton townsite".
 HOST Vein in Tertiary volcanics.
 MNZ Lead, zinc, copper, and uranium.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File.

Surprise

LOCATION: sec. 18, T. 40 N., R. 7 W.
 LCRM Also reported in sec. 17, 19, 20, 30, 29.
 MNZ Uranium.
 DOI 1972
 REF U.S. Geol. Survey, 1977, CRIB File.

Syracuse Pride

LOCATION: T. 43 N., R. 7 W.
 LCST UNSURVEYED
 LCRM Original direction to mine are as follows: "On road to Engineer Mountain at about 12,500 ft elevation. .7 mile east of Engineer Mountain and 2.17 miles north of Animas Forks." Possibly in Ouray County.
 QUAD Handies Peak 7 1/2'
 HOST Vein in Tertiary volcanics.
 MNZ Sphalerite, galena, chalcopryite, pyrite, quartz, kaolinite. A grab sample from dump had a value of 0.051% U.
 DOI 1952
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, San Juan County, Colorado. Pierson, C. T.; and others, 1958. Burbank, W. S.; and others, 1953. Kelly, V. C., 1946, Geology, ore deposits and mines of the Mineral Point, Poughkeepsie and Upper Uncompaghere districts, Ouray, San Juan, Hinsdale Counties, Colorado, Colo. Sci. Soc., Proc., v. 14, no. 7.

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San Miguel County lies within the Uravan mineral belt. Production from the county has been large and will continue to be so.

Production from January 1, 1948 to January 1, 1978 was 3,722,900 tons mined with 15,889,200 lb of U_3O_8 produced at a grade of 0.21 percent U_3O_8 . Of the tons mined, 3,720,000 tons were processed for vanadium and produced 177,416,000 lb V_2O_5 at a grade of 1.58 percent V_2O_5 .

The county lies on the Utah-Colorado border in southwestern Colorado and is underlain by flat-lying Cretaceous and Jurassic sediments. Volcanic rocks associated with the San Juan Mountain Uplift cover much of the eastern panhandle. The major structure in the county is the Big Gypsum Valley Anticline, a breached salt uplift.

Because of the production from the Uravan belt, the county is a major uranium producer in the state.

However, a second district separate from the Uravan district has produced uranium. This is the Placerville district in the eastern part of the county. Around the town of Placerville, uranium is associated as a by-product with vanadium in bedded deposits within the Jurassic Entrada Sandstone. This district is part of a large roscoelite belt that stretches from the Rifle Mine in Garfield County to the Good Hope-Nevada Group of claims in La Plata County. All along this belt the Entrada Sandstone contains tabular ore bodies in which roscoelite is always associated with uranium and vanadium minerals. The uranium in these deposits has a grade of about 0.05 percent U_3O_8 and vanadium averages 1 to 1.5 percent V_2O_5 . Mining is not being carried out at this time.

Reserves in the county are fairly large, and the potential is excellent for more to be found. Production in the county will continue for years to come.

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1, AEC Mining Lease (C-SR-10*, DOE Lease Tract)
(King No. 2, Sam [Legin Group])

LOCATION: SW1/4NW1/4 sec. 28, T. 43 N., R. 19 W.
 LCRM These deposits lie in the Slick Rock district.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 DVEL See C-SR-10, DOE Lease Tract.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 RMKS *Only parts of C-SR-10, AEC Mining Lease were included in 1, AEC Mining Lease.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

4, AEC Mining Lease (C-SR-11, DOE Lease Tract)
[Tomboy, Beth Emma Lou, Teller, Mercantile, Independence, Avoca, Ike Nos. 1-6, Sibley, Park, and Brighton] (C-SR-16, DOE Lease Tract) [Nucleus, Easton B, Michael Bray, Michael Bray No. 1, Ann No. 1 & 2 & Fraction adjacent to Ann No. 2, and Frankie No. 2] (C-SR-10, DOE Lease Tract) [Blk 32 (Black Jack Strip)]]

LOCATION: S1/2 sec. 8, T. 43 N., R. 19 W.
 LCRM Also sec. 16, 17 & 18. This deposit lies in the Slick Rock district.
 QUAD Egnar 7 1/2' & Horse Range Mesa 7 1/2'
 MAP CORTEZ & MOAB
 DVEL See C-SR-11, DOE Lease Tract.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

6, AEC Mining Lease (C-SR-15, DOE Lease Tract)
[Lower Group] (Cougar, Last Chance, Rainbow, Little Marie I, Chico, Lower Fraction)

LOCATION: NW1/4SE1/4 and NE1/4SW1/4 sec. 23, T. 44 N., R. 19 W.
 LCRM This lease lies in the Slick Rock district.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 DVEL See C-SR-15, DOE Lease Tract.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

7, AEC Mining Lease (C-SR-16A, DOE Lease Tract)
(Golden Rod Mine, Fraction 3 Mine) (Golden Rod Group)

LOCATION: E1/2NE1/4 sec. 14, T. 43 N., R. 19 W.
 LCRM These deposits are all part of the Golden Rod Group in the Slick Rock district.

QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD See C-SR-16A, DOE Lease Tract.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

8, AEC Mining Lease (C-SR-16, DOE Lease Tract)
(Fraction No. 1, Summit, Charles T. No. 1, Fraction No. 5, Benny T. No. 1 & 2)

LOCATION: sec. 10, T. 43 N., R. 19 W.
 LCRM These deposits lie in the Slick Rock district and are part of Ram Lode (Pam Lode, Ram Lode 1)
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 DVEL See C-SR-16, DOE Lease Tract.
 HOST Jurassic Morrison Formation, Salt Wash Member, gray and brown shaly sandstone and fine-to medium-grained sandstone with abundant carbonized logs and other plant remains.
 MNZ Carnotite - tyuyamunite, vanadium and uranium.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado.

16, AEC Mining Lease

LOCATION: SE1/4SE1/4 sec. 20, T. 43 N., R. 19 W.
 LCRM This was a lease block adjacent to the Falcon Claim, lying in the Slick Rock district.
 PROD As of 1955, 281 tons of ore had been mined at an average grade of 0.23% U3O8 and 2.35% V2O5. Lease expired 1955.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium and vanadium minerals were mined.
 DOI 1974
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado.

17, AEC Mining Lease (C-SR-13A, DOE Lease Tract)
(Georgeto Claim)

LOCATION: S1/2NW1/4 sec. 30, T. 44 N., R. 18 W.
 LCRM This lease was located in the Slick Rock district.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 DVEL See C-SR-13A, DOE Lease Tract.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

18, AEC Mining Lease (C-SR-10, DOE Lease Tract)
[Legin Group], Eloisa Claims, Otero Claims)

LOCATION: NW1/4 sec. 28, T. 43 N., R. 19 W.
 LCRM This lease lies in the Slick Rock district.
 QUAD Egnar 7 1/2'

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MAP CORTEZ
 DYEL See C-SR-10, DOE Lease Tract.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite,
 high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records,
 Colorado. U.S. Bur. of Mines, 1977, (Unpubl.).
 U.S. A.E.C., 1971, Production Records, Colorado.

20, AEC Mining Lease (C-SR-15, DOE Lease Tract)
(Knoll, Helen, Cacti, Alice [Lower Group])

LOCATION: SW1/4SW1/4 sec. 23, T. 44 N., R. 19 W.
 LCRM The deposit extends to sec. 26. It lies
 in the Slick Rock district.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 DYEL See C-SR-15, DOE Lease Tract.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite,
 high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records,
 Colorado. U.S. Bur. of Mines, 1977, (Unpubl.).
 U.S. A.E.C., 1971, Production Records, Colorado.

21, AEC Mining Lease (C-SR-14, DOE Lease Tract)
[Upper Group] (Sunnyside, Grant, Big Four)

LOCATION: S1/4NW1/4 sec. 5, T. 43 N., R. 18 W, NMPM.
 LCRM This lease is located in the Slick Rock
 district.
 QUAD Horse Range Mesa 7 1/2' & Hamm Canyon 7 1/2'
 MAP MOAB
 DYEL See C-SR-14, DOE Lease Tract.
 HOST The host is the Jurassic Morrison formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records,
 Colorado. U.S. Bur. of Mines, 1977, (Unpubl.).
 U.S. A.E.C., 1971, Production Records, Colorado.

22, AEC Mining Lease (C-SR-16A, DOE Lease Tract)
[Golden Rod Group] (Golden Rod No. 1 & 2,
 Fraction No. 4)

LOCATION: SE1/4 sec. 11, T. 43 N., R. 19 W.
 LCRM The lease area lies in the Slick Rock district.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 DYEL See C-SR-16A, DOE Lease Tract.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium and vanadium minerals were found.
 RMKS The lease was terminated in 1954. The claims
 adjoin 48, AEC Mining Lease.
 DOI 1974
 REF U.S. D.O.E., 1977, Lease Production Records,
 Colorado.

25, AEC Mining Lease (C-SR-16A, DOE Lease Tract)
(Golden Rod No. 5)

LOCATION: NE1/4NW1/4 sec. 14, T. 43 N., R. 19 W.
 LCRM The lease lies in the Slick Rock district.
 DYEL See C-SR-16A, DOE Lease Tract.

HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium and vanadium minerals were mined.
 DOI 1974
 REF U.S. D.O.E., 1977, Lease Production Records,
 Colorado.

28, AEC Mining Lease (C-SR-13, DOE Lease Tract)
(Hawkeye)

LOCATION: W1/2SW1/4 sec. 32, T. 44 N., R. 18 W.
 LCRM The deposit lies in the Slick Rock district.
 QUAD Horse Range Mesa 7 1/2' & Hamm Canyon 7 1/2'
 MAP MOAB
 DYEL See C-SR-13, DOE Lease Tract.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records,
 Colorado. U.S. Bur. of Mines, 1977, (Unpubl.).
 U.S. A.E.C., 1971, Production Records, Colorado.

29, AEC Mining Lease (C-SR-10, DOE Lease Tract)
[Legin Group] (Frenchy, King, May, Cowgirl)

LOCATION: NE1/4 sec. 29, T. 43 N., R. 19 W.
 LCRM These deposits lie in the Slick Rock district.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 DYEL See C-SR-10, DOE Lease Tract.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 RMKS *This lease was originally 2, AEC Mining
 Lease. It became 29, AEC Mining Lease on
 7/1/52. Only parts of C-SR-10, AEC Mining
 Lease were included in 29, AEC Mining Lease.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records,
 Colorado. U.S. Bur. of Mines, 1977, (Unpubl.).
 U.S. A.E.C., 1971, Production Records, Colorado.

30, AEC Mining Lease (C-SR-13, DOE Lease Tract)
[Middle Group] (Little Yolande, Herbert,
 Vanadium, Ocumpaugh)

LOCATION: W1/2NE1/4 sec. 31, T. 44 N., R. 18 W.
 LCRM This lease lies in the Slick Rock district.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 DYEL See C-SR-13, DOE Lease Tract.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite,
 high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records,
 Colorado. U.S. Bur. of Mines, 1977, (Unpubl.).
 U.S. A.E.C., 1971, Production Records, Colorado.

32, AEC Mining Lease (C-SR-13, DOE Lease Tract)
[Middle Group] (Elliison, Burro)

LOCATION: NE1/4NE1/4 sec. 31, T. 44 N., R. 18 W.
 LCRM The deposit lies in the Slick Rock district.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 DYEL See C-SR-13, DOE Lease Tract.
 HOST Jurassic Morrison Formation.

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MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

42, AEC Mining Lease (C-SR-13, DOE Lease Tract) (Dan)

LOCATION: SW1/4 sec. 30, T. 44 N., R. 18 W.
 LCRM This lease lies in the Slick Rock district.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD See C-SR-13, DOE Lease Tract.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

43, AEC Mining Lease (C-SR-16, DOE Lease Tract) (Charles T. No. 2 & 4)

LOCATION: SW1/4 sec. 10, T. 43 N., R. 19 W.
 LCRM This lease lies in the Slick Rock district.
 QUAD Horse Range Mesa 7 1/2' & Egnar 7 1/2'
 MAP MOAB & CORTEZ
 PROD See C-SR-16, DOE Lease Tract.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

44, AEC Mining Lease (C-SR-14, DOE Lease Tract) (Canyon View, Grants, Black Fox [Upper Group])

LOCATION: SW1/4 sec. 5, T. 43 N., R. 18 W.
 LCRM This lease lies in the Slick Rock district.
 QUAD Horse Range Mesa 7 1/2' & Hamm Canyon 7 1/2'
 MAP MOAB
 PROD See C-SR-14, DOE Lease Tract.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

45, AEC Mining Lease (C-SR-16, C-SR-16A, DOE Lease Tracts) (Sunflower, Pretty Boy [Charles T. Group], Bush Nos. 6 & 7)

LOCATION: NE1/4NE1/4 sec. 15, T. 43 N., R. 19 W.
 LCRM The lease extends to the SW1/4 sec. 10 and the NW1/4 sec. 14. Since 1974, it is included in C-SR-16 and C-SR-16A, DOE Lease Tracts. It lies in the Slick Rock district, near the Golden Rod Group.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 DVEL See C-SR-16A, DOE Lease Tracts.

HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 RMKS Part of this lease was originally 5, AEC Mining Lease, which terminated 11/12/52.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

46, AEC Mining Lease (C-SR-13A, DOE Lease Tract) (Georgetown Group, Veta Mad, Veta Glad)

LOCATION: NW1/4NW1/4 sec. 30, T. 44 N., R. 18 W.
 LCRM This lease lies in the Slick Rock district.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 DVEL See C-SR-13A, DOE Lease Tract.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 RMKS This lease was originally issued as 12, AEC Mining Lease.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

48, AEC Mining Lease (C-SR-16A, DOE Lease Tract) (Neomie D., Neomie D. Angle, Fraction No. 1)

LOCATION: SW1/4 sec. 11, T. 43 N., R. 19 W.
 LCRM The lease area lies in the Slick Rock district, just west of the Golden Rod Group. The deposit also extends to the NW1/4 sec. 14.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 DVEL See C-SR-16A, DOE Lease Tract.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium and vanadium minerals were found.
 RMKS 22, AEC Mining Lease adjoins this lease.
 DOI 1974
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado.

Ada Bell

LOCATION: sec. 16, T. 45 N., R. 19 W., NMPM.
 LCRM U.S. A.E.C. Production Records show location as sec. 9 and 15, T. 45 N., R. 16 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 47 tons had been mined at a grade of 0.24% U3O8, producing 223 lbs of U3O8, and 2.91% V2O5, producing 2,740 lbs of V2O5.
 HOST Jurassic Salt Wash Member of the Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

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Ajax Lease (Thomas, Richard; Robin B, 9, 12; Susan 3 and 4)

LOCATION: sec. 31, T. 44 N., R. 19 W.
 LCRM Also sec. 6, 7, T 43 N. This deposit lies in the Slick Rock district.
 QUAD Mt. Peale 4 SE 7 1/2'
 MAP MOAB
 DYEL No production to 1978.
 HOST The host is the Brushy Basin Member.
 MNZ Carnotite.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Alchemist (Alchemist #1)

LOCATION: SW1/4 sec. 33, T. 43 N., R. 10 W, NMPM.
 LCRM Placerville district, Leopard Crock locality.
 MAP MOAB
 PROD By 1971, 136 tons had been mined at a grade of 0.13% U3O8, producing 341 lbs of U3O8, and 3.15% V2O5, producing 8,570 lbs of V2O5.
 HOST Jurassic Entrada Formation.
 MNZ Roscoelite.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

April (April 1-13, Rio Grande)

LOCATION: sec. 27, T. 44 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show Sec. 28.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 1,327 tons had been mined at a grade of 0.29% U3O8, producing 7,710 lbs of U3O8, and 1.72% V2O5, producing 45,733 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Ava Jay Group (Chinese, Four Fingers, Lost Dutchman, Ava Jay)

LOCATION: sec. 25, T. 44 N., R. 20 W.
 LCRM U.S. A.E.C. Production Records also show sec. 36.
 QUAD Mount Peale 4 SE 7 1/2'
 MAP MOAB
 PROD By 1971, 1,503 tons had been mined at a grade of 0.39% U3O8, producing 11,597 lbs of U3O8, and 2.05% V2O5, producing 61,484 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Babe 1-4

LOCATION:
 LCST UNLOCATABLE
 PROD By 1971, 8 tons had been mined at a grade of 0.29% U3O8, producing 46 lbs of U3O8, and 1.82% V2O5, producing 291 lbs of V2O5.
 MNZ Carnotite - tyuyamunite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Bachelor Mine (Bachelor #3)

LOCATION: S1/2 sec. 15, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 30,600 tons had been mined at a grade of 0.29% U3O8, producing 179,983 lbs of U3O8, and 1.76% V2O5, producing 1,074,635 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bald Eagle (Uravan #1, Morning Glory, Keystone #1)

LOCATION: sec. 30, T. 44 N., R. 16 W.
 QUAD Gypsum Gap 7 1/2'
 MAP MOAB
 PROD By 1971, 6,657 tons had been mined at a grade of 0.18% U3O8, producing 24,337 lbs of U3O8, and 1.72% V2O5, producing 229,430 lbs of V2O5.
 HOST Pennsylvanian Hermosa Formation.
 MNZ Carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bay Mule

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in Gypsum Valley.
 PROD By 1971, 14 tons had been mined at a grade of 0.12% U3O8, producing 34 lbs of U3O8, and 1.07% V2O5, producing 301 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Bean 2 and 3

LOCATION: sec. 5, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 4.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 5,328 tons had been mined at a grade of 0.27% U3O8, producing 28,723 lbs of U3O8, and 1.61% V2O5, producing 171,890 lbs of V2O5.
 HOST Jurassic Morrison Formation.

SAN MIGUEL COUNTY

MNZ Uranium, vanadium, carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bean 4, 5 (Bean 4, Parker Lease)

LOCATION: sec. 5, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 8 and 9.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 4,020 tons had been mined at a grade of 0.26% U3O8, producing 20,666 lbs of U3O8, and 1.46% V2O5, producing 120,087 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bean 6

LOCATION: sec. 5, T. 43 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 272 tons had been mined at a grade of 0.41% U3O8, producing 2,223 lbs of U3O8, and 2.40% V2O5, producing 13,068 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bean 8, 9 (North Slope #2 [E1/2])

LOCATION: NW1/4 sec. 5, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records give location as sec. 32, T. 44 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bean 10

LOCATION: sec. 32, T. 44 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 5,821 tons had been mined at a grade of 0.23% U3O8, producing 26,206 lbs of U3O8, and 1.51% V2O5, producing 175,634 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bean 15, 16, 17

LOCATION: sec. 31, T. 44 N., R. 19 W.
 QUAD Mount Peale 4 SE 7 1/2' & Horse Range Mesa 7 1/2'

MAP MOAB
 PROD By 1971, 15 tons had been mined at a grade of 0.14% U3O8, producing 42 lbs of U3O8, and 0.80% V2O5, producing 241 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bean No. 1 (Radium No. 9) (Radium Group)

LOCATION: sec. 4, T. 43 N., R. 19 W.
 LCRM This deposit lies in the Slick Rock district.
 PROD As of 1971, 15,000 tons had been mined at a grade of 0.49% U3O8.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Bean Patch (Parker Lease, Bean Patch Incline 3 and 4)

LOCATION: sec. 5, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 4, T. 42 N., R. 10 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD By 1971, 24,047 tons had been mined at a grade of 0.33% U3O8, producing 159,675 lbs of U3O8, and 1.79% V2O5, producing 861,275 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bear Creek

LOCATION: sec. 4, T. 42 N., R. 10 W.
 QUAD Gray Head 7 1/2'
 MAP CURTEZ
 PROD By 1971, 14,919 tons had been mined at a grade of 0.05% U3O8, producing 15,302 lbs of U3O8, and 2.01% V2O5, producing 600,070 lbs of V2O5.
 HOST Jurassic Entrada Sandstone; white to buff, fine-grained sandstone.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S. Geol. Survey Prof. Paper 538, p. 13.

Belle

LOCATION:
 LCST UNLOCATABLE
 LCRM Near Lower Group of claims.
 PROD As of 1971, five tons of ore have been mined at a grade of 0.46% U3O8, producing 4.23% V2O5, and 46 lbs of U3O8.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

SAN MIGUEL COUNTY

Bench

LOCATION:

LCST UNLOCATABLE
 LCRM This deposit lies in the Slick Rock district.
 MAP MOAB
 PROD By 1971, 5 tons had been mined at a grade of 0.59% U308, producing 59 lbs of U308, and 5.92% V205, producing 592 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Betty Jane 2

LOCATION: sec. 24, T. 45 N., R. 19 W.
 PROD By 1971, 10 tons had been mined at a grade of 0.38% U308, producing 75 lbs of U308, and 1.73% V205, producing 345 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Betty Ruth

LOCATION: sec. 28, T. 43 N., R. 18 W.
 LCRM This deposit lies in the Spud Patch area, Slick Rock district. U.S. A.E.C. Production Records also show sec. 33.
 PROD As of 1971, 0.91 tons had been mined at a grade of 0.85% U308.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Big Buck 1 (Little Buck, Jackle)

LOCATION: sec. 26, T. 44 N., R. 20 W.
 QUAD Mount Peale 4 SE 7 1/2'
 MAP MOAB
 PROD By 1971, 6 tons had been mined at a grade of 0.02% U308, producing 2 lbs of U308, and 1.56% V205, producing 187 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Big Chief (Mineral Survey #20580)

LOCATION: sec. 27, T. 44 N., R. 17 W.
 LCRM This deposit lies in Gypsum Valley. U.S. A.E.C. Production Records also show sec. 34.
 PROD As of 1971, 564 tons had been mined at a grade of 0.32% U308 and 0.78% V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado, C-1070 Circular 6 Records.

Big Chief (Spud Patch Group)

LOCATION: sec. 29, T. 43 N., R. 18 W.

LCRM This deposit lies in the Slick Rock district.
 PROD No production prior to 1977.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Big Gyp 1-8

LOCATION: N1/2 sec. 33, T. 45 N., R. 18 W.
 LCRM This deposit lies in Silvey's Pocket area, Gypsum Valley.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 35 tons had been mined at a grade of 0.08% U308.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Big Medicine

LOCATION:
 PROD As of 1971, 149 tons of ore had been mined at a grade of 0.40% U308, producing 1,199 lbs of U308, and 1.74% V205, producing 5,197 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Big S

LOCATION: sec. 32, T. 44 N., R. 18 W.
 PROD As of 1971, 13 tons of ore had been mined at a grade of 0.03% U308, producing 9 lbs of U308, and 0.34% V205, producing 89 lbs of V205.
 HOST Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Black Fox (Upper Group Claims)(44, AEC Mining Lease) C-SR-14, DOE Lease Tract)

LOCATION: sec. 5, T. 43 N., R. 18 W.
 DYEL See C-SR-14, DOE Lease Tract.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Black Jack (Hot Rock)

LOCATION: sec. 28, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD By 1971, 12,758 tons had been mined at a grade of 0.24% U308, producing 62,287 lbs of U308, and 1.51% V205, producing 384,929 lbs of V205.
 HOST Jurassic Morrison Formation.

SAN MIGUEL COUNTY

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Black King 5 (Weatherly)

LOCATION: sec. 27, T. 44 N., R. 11 W.
 QUAD Placerville 7 1/2'
 MAP MOAB
 PROD By 1971, 3 tons had been mined at a grade of 1.35% U308, producing 81 lbs of U308, and 0.05% V205, producing 3 lbs of V205.
 HOST Permian Cutler and Triassic Dolores; fault breccias and gangue in quartz conglomerate and sandy shale with abundant hard "hydrocarbon" and sparse viscous asphalt.
 MNZ Uraninite, autunite, torbernite, coffinite, uranophane.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S. Geol. Survey Prof. Paper 538, p. 13.

Bluebird (Radium Group)

LOCATION: sec. 24, T. 43 N., R. 20 W.
 LCRM U.S. A.E.C. Production Records show location as being sec. 36, T. 44 N., R. 20 W.
 QUAD Verdure 1 NE 7 1/2'
 MAP CORTEZ
 PROD By 1971, 19 tons had been mined at a grade of 0.29% U308, producing 110 lbs of U308, and 1.75% V205, producing 666 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Black Spider (Red Ant)

LOCATION: NW1/4 sec. 30, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show location as sec. 25, T. 43 N., R. 20 W.
 QUAD Verdure 1 NE 7 1/2' and Egnar 7 1/2'
 MAP CORTEZ
 PROD By 1971, 4,054 tons had been mined at a grade of 0.23% U308, producing 18,398 lbs of U308, and 0.71% V205, producing 57,960 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bluff (Mexico Group)

LOCATION: sec. 35, T. 45 N., R. 18 W.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 100 tons mined at a grade of 0.22% U308, producing 435 lbs of U308, and 0.95% V205, producing 1,906 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bobtail

LOCATION: sec. 33, T. 44 N., R. 16 W.
 LCST UNLOCATABLE
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Blue Horse & Nancy

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Slick Rock district.
 PROD As of 1971, there were 6 tons mined at a grade of 0.12% U308, producing 14 lbs of U308. 1.12% V205, producing 134 lbs of V205.
 HOST Jurassic Morrison Formation.
 DOI January 1, 1971.
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Breezy

LOCATION: sec. 25, T. 45 N., R. 18 W.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 244 tons had been mined at a grade of 0.25% U308, producing 1,207 lbs of U308, and 1.37% V205, producing 6,692 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Blue Moon (Lucky #1, 2)

LOCATION: sec. 16, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 20, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD By 1971, 211 tons had been mined at a grade of 0.20% U308, producing 856 lbs of U308, and 1.105% V205, producing 4,647 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.

Bretton & Norcott

LOCATION:
 LCRM This deposit lies in the Georgetown area.
 PROD As of 1971, 11 tons had been mined at a grade of 0.04% U308, producing 9 lbs of U308, and 0.27% V205, producing 60 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.

SAN MIGUEL COUNTY

DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Brown Mule

LOCATION: sec. 7, T. 43 N., R. 16 W.
LCRM U.S. A.E.C. Production Records show location as being sec. 6, 7; T. 44 N., R. 17 W.
QUAD Gypsum Gap 7 1/2'
MAP MOAB
PROD As of 1971, 50 tons had been mined at a grade of 0.18% U3O8, producing 177 lbs of U3O8, and 2.31% Y2O5, producing 2,310 lbs of Y2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Buck Horn

LOCATION: sec. 30, T. 44 N., R. 19 W.
DOI 1958
REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uraven Mineral Belt, 1958.

Buckhorn (Lone Star 1 & 2, Canary Bird No. 1, Rim, Humming Bird)

LOCATION: sec. 34, T. 43 N., R. 18 W.
LCRM U.S. A.E.C. Production Records show location as sec. 26, 27, 34-36; T. 43 N., R. 18 W.; sec. 1, 2, T. 42 N., R. 18 W.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 318 tons had been mined at a grade of 0.25% U3O8, producing 1,615 lbs of U3O8, and 2.05% Y2O5, producing 13,032 lbs of Y2O5.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bugwine (Empire Group)

LOCATION: sec. 1, T. 44 N., R. 20 W.
LCRM U.S. A.E.C. Production Records show location as being sec. 1, T. 44 N., R. 19 W., Slick Rock district, McIntire Canyon.
QUAD Mount Peale 4 SE 7 1/2'
MAP MOAB
PROD As of 1971, 297 tons had been mined at a grade of 0.27% U3O8, producing 1,592 lbs of U3O8, and 1.22% Y2O5, producing 7,242 lbs of Y2O5.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bull Moose

LOCATION: sec. 32, T. 43 N., R. 19 W.
QUAD Egnar 7 1/2'
MAP CORTEZ
PROD As of 1971, 56 tons had been mined at a grade of 0.27% U3O8, producing 305 lbs of U3O8, and 3.46% Y2O5, producing 3,878 lbs. of Y2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Bull Snake No. 1 and No. 2 Claims

LOCATION: sec. 1, T. 42 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 2, 11 & 12.
QUAD Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 157 tons had been mined at a grade of 0.21% U3O8, producing 665 lbs of U3O8, and 3.39% Y2O5, producing 10,795 lbs of Y2O5.
HOST Upper Triassic Wingate Sandstone or Chinle Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Burro Point

LOCATION: sec. 16, T. 45 N., R. 18 W.
LCRM U.S. A.E.C. Production Records only show sec. 21.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 2,879 tons had been mined at a grade of 0.35% U3O8, producing 29,118 lbs of U3O8, and 1.80% Y2O5, producing 103,411 lbs of Y2O5.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Burro Tunnel (Burro 1-10, Jack 1-5)

LOCATION: sec. 30, T. 44 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 29.
QUAD Horse Range Mesa 7 1/2'
DYEL As of 1971, 404,804 tons had been mined at a grade of 0.25% producing 1,992,898 lbs of U3O8, and 1.50% Y2O5, producing 12,149,659 lbs of Y2O5.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977 (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

SAN MIGUEL COUNTY

Butterfly

LOCATION: sec. 32, T. 42 N., R. 9 W.
 QUAD Mount Wilson 7 1/2'
 MAP CORTEZ
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977 (Unpubl.).

C-SR-10, DOE Lease Tract (1, AEC Mining Lease)
[King No. 2, Sam] (Legin Group) (2, AEC
Mining Lease)[Frenchy, King, May, and Cowgirl]
(Legin Group) (4, AEC Mining Lease) [Bik
32] (Black Jack Strip) (18, AEC Mining Lease)
[Eloisa and Otero] (Legin Group) (29, AEC
Mining Lease)[Cowgirl, King, Frenchy, and
May] (Legin Group)

LOCATION: W1/2 sec. 28, T. 43 N., R. 19 W.
 LCRM Also E1/2 sec. 29. These deposits all lie
 in the Slick Rock district, Legin Group area.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 DYEL From 1949-1962, production from the four
 former AEC Mining Leases included in this
 DOE Lease Tract totaled 127,944 tons at
 0.28% U308 and 1.99% V205. This includes,
 from 1, AEC Mining Lease, 48,727 tons at
 0.31% U308, 2.20% V205; 2, AEC Mining Lease,
 11,132 tons at 0.32% U308, 2.33% V205; 18,
 AEC Mining Lease, 9,926 tons at 0.29% U308,
 1.75% V205; 29, AEC Mining Lease, 58,162
 tons at 0.25% U308, 1.80% V205. In addition,
 a nominal amount was produced under 4, AEC
 Mining Lease, Black Jack Strip, which cannot
 be accurately separated, and is included
 in production from 11, DOE Lease Tract (4,
 AEC Mining Lease). From May 1975 through
 December 1977, production from C-SR-10,
 DOE Lease Tract was 1,201 tons at 0.15%
 U308 and 0.74% V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium,
 low ilme.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records,
 Colorado.

C-SR-11, DOE Lease Tract (4, AEC Mining Lease)
(Tomboy, Beth Emma Lou, Teller, Mercantile,
Independence, Avoca, Ike Nos. 1-6, Sibley,
Park, Brighton [Mercantile Group])

LOCATION: E1/2SW1/4S1/2NW1/4 sec. 18, T. 43 N.,
 R. 19 W.
 LCRM Also S1/2 sec. 8 & sec. 17. This property
 lies in the Slick Rock district.
 QUAD Egnar, Verdure 1 NE, & Horse Range Mesa 7 1/2'
 MAP CORTEZ & MOAB
 DYEL The majority of the production attributed
 to former 4, AEC Mining Lease came from
 the area included in this DOE lease: 112,974
 tons at 0.32% U308 and 1.59% V205. In addition,
 production from C-SR-11, DOE Lease Tract
 from September 1975 through December 1977
 was 24,624 tons at 0.18% U308 and 0.95% V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium,
 low ilme.

DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records,
 Colorado. U.S. A.E.C., 1971, Production
 Records, Colorado.

C-SR-12, DOE Lease Tract

LOCATION: sec. 32, T. 43 N., R. 18 W, NMPM.
 LCRM This lease lies in the Slick Rock district,
 Spud Patch area.
 QUAD Egnar 7 1/2' and Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD No production prior to August 1977. Production
 to 12/31/77 was 1,204 tons at 0.14% U308
 and 1.31% V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium,
 low ilme.
 DOI 1977
 REF U.S. D.O.E., 1977, Lease Production Records,
 Colorado.

C-SR-13, DOE Lease Tract (28, AEC Mining Lease)
(Hawkeye) (30, AEC Mining Lease) (Little
Yolande, Herbert, Vanadium, Ocumpaugh, [Middle
Group]) (32, AEC Mining Lease) (Ellison
Claim, Burro Claim) (42, AEC Mining Lease)
(Dan Claim)

LOCATION: W1/2, and lots 1-4 sec. 32, T. 44 N.,
 R. 18 W.
 LCRM Also SW1/4 sec. 29, SE1/4 and SE1/4SW1/4
 sec. 30, NE1/4 and NE1/4SE1/4 sec. 31; T.
 44 N., R. 18 W. This lease lies in the
 Slick Rock district, Middle Group area.
 QUAD Hamm Canyon 7 1/2' & Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD From 1952-1958, 18,529 tons had been mined
 from the four mining leases, at average
 grades of 0.26% U308 and 1.21% V205. This
 was 1,456 tons at 0.33% U308 and 1.12% V205
 from 28, AEC Mining Lease; 15,308 tons at
 0.24% U308 and 1.17% V205 from 30, AEC Mining
 Lease; 1,741 tons at 0.36% U308 and 1.67%
 V205 from 32, AEC Mining Lease; and 14 tons
 at 0.23% U308 and 1.45% V205 from 42, AEC
 Mining Lease. From June 1975 through December
 1977, production from C-SR-13, DOE Lease
 Tract was 30,895 tons at 0.20% U308 and
 1.40% V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium,
 low ilme.
 DOI 1977
 REF U.S. D.O.E., 1977, Lease Production Records,
 Colorado. U.S. A.E.C., 1971, Production
 Records, Colorado.

C-SR-13A, DOE Lease Tract (12, AEC Mining Lease)
(Veta Mad, Veta Glad, Georgeto Group) (17,
AEC Mining Lease) (Georgeto Mine) (46, AEC
Mining Lease)

LOCATION: NW1/4 sec. 30, T. 44 N., R. 18 W.
 LCRM Also SW1/4 sec. 19, T. 44 N., R. 18 W.;
 SE1/4SE1/4 and E1/2NE1/4SE1/4 sec. 24 and
 NE1/4NE1/4 sec. 25, T. 44 N., R. 19 W.
 These deposits lie in the Slick Rock district.

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DVEL These was production from each of the mining leases.

PROD From 1951-1962, production from the three former AEC mining leases included in this lease had totaled 59,991 tons at average grades of 0.33% U308 and 1.65% V205. This was 4,246 tons at 0.50% U308 and 2.37% V205 from 12, AEC Mining Lease; 13,415 tons at 0.36% U308 and 1.75% V205 from 17, AEC Mining Lease; 42,330 tons at 0.30% U308 and 1.55% V205 from 46, AEC Mining Lease. From December 1975 through December 1977, production from DC-SR-13A, DOE Lease Tract was 4,485 tons at 0.19% U308 and 0.97% V205.

HOST The host is the Jurassic Morrison Formation.

MNZ Uranium and vanadium minerals were mined.

DOI 1977

REF U.S. D.O.E., 1977, Lease Production Records, Colorado.

C-SR-14, DOE Lease Tract (21, AEC Mining Lease)
(Sunnyside, Grant, Big Four [Upper Group])
(4, AEC Mining Lease,) (Canyon View, Grants,
Black Fox)

LOCATION: Sec. 5 E1/2 sec. 6, T. 43 N., R. 18 W.

LCRM This lease lies in the Slick Rock district, Upper Group area.

QUAD Hamm Canyon 7 1/2' & Horse Range Mesa 7 1/2'

MAP MOAB

PROD As of 1977, all production was from the two former AEC mining leases included in this lease and had totalled 9,488 tons at average grades of 0.28% U308 and 1.82% V205. This includes 1,798 tons from 21, AEC Mining Lease at 0.26% U308 and 1.79% V205 and 7,690 tons at 0.30% U308 and 1.86% V205 from 44, AEC Mining Lease.

HOST Jurassic Morrison Formation.

MNZ Carnotite - tyuyamunite, high vanadium, low lime.

DOI 1977

REF U.S. D.O.E., 1977, Lease Production Records, Colorado.

C-SR-14A, DOE Lease Tract (27, AEC Mining Lease)
(Ned Claim)

LOCATION: NW1/4NE1/4 sec. 1, T. 43 N., R. 19 W.

LCRM This lease lies in the Slick Rock district. It extends to sec. 36, T. 44 N., R. 19 W. The lease boundaries are identical with former 27, AEC Mining Lease.

QUAD Horse Range Mesa 7 1/2'

MAP MOAB

DVEL No production since 1954 to December 1977.

PROD From 1952 to 1954, 970 tons were mined from the former 27, AEC Mining Lease at a grade of 0.20% U308, producing 3,841 lbs of U308, and 1.23% V205, producing 23,814 lbs of V205.

HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1977

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

C-SR-15, DOE Lease Tract (6, AEC Mining Lease)
(Lower Group, Cougar, Last Chance, Rainbow,
Little Marie 1, Chico, Lower Fraction) (20,
AEC Mining Lease) (Knoll, Helen, Cactl and
Alice)

LOCATION: S1/2 sec. 23, T. 44 N., R. 19 W.

LCRM This lease extends into the N1/2 sec. 23 and the NW1/4 NW1/4 sec. 26, T. 44 N., R. 19 W. district.

QUAD Horse Range Mesa 7 1/2'

MAP MOAB

PROD From 1949 to 1959, production from the two former AEC mining leases making up this lease had totaled 40,435 tons at average grades of 0.38% U308 and 2.18% V205. This was 25,638 tons at 0.42% U308 and 2.44% V205 from 6, AEC Mining Lease; 14,799 tons at 0.32% U308 and 1.74% V205 from 20, AEC Mining Lease. Also from Sept. 1976 to Dec. 1977, production from C-SR-15, DOE Lease Tract was 2,447 tons at 0.18% U308 and 1.11% V205.

HOST Jurassic Morrison Formation.

MNZ Carnotite - tyuyamunite, high vanadium, low lime.

DOI 1977

REF U.S. D.O.E., 1977, Lease Production Records, Colorado.

C-SR-16, DOE Lease Tract (43, AEC Mining Lease)
(Nucleus, Easton B., Michael Bray No. 1 &
2.) [see 4, AEC Mining Lease] (4, AEC Mining
Lease) [Nucleus, Easton B., Michael Bray
No. 1, Ann No. 1 & 2, Fraction adjacent
to Ann No. 2, Hawk 2, Frankie 2] (5, AEC
Mining Lease) [Charles T. No. 2 & 4, Sunflower
(8, AEC Mining Lease) [Fraction No. 1, Summit,
Charles T. No. 1, Fraction No. 5, Benny
T. No. 1 & 2] (9, AEC Mining Lease) [Fraction
No. 1, Summit, Bennie T. No. 1, Fraction
No. 5, Bennie T. No. 2. (see 8, AEC Mining
Lease)] (43, AEC Mining Lease) [Charles
T. No. 2 & 4] (45, AEC Mining Lease)

LOCATION: sec. 10, T. 43 N., R. 19 W.

LCRM This lease extends into N1/2SE1/2 and W1/2SE1/4 sec. 15 and E1/2SW1/4 and E1/2NW1/4 sec. 16. These deposits lie in the Slick Rock district.

QUAD Horse Range Mesa 7 1/2' & Egnar 7 1/2'

MAP MOAB & CORTEZ

DVEL From 1949, production from five former AEC leases included in this lease amounted to 30,998 tons at 0.34% U308 and 1.92% V205. Additional ore mined from the area included in 4, AEC Mining Lease cannot be determined from records available and is included in production from C-SR-11, DOE Lease Tract (4, AEC Mining Lease). The 30,998 tons includes, from 3, AEC Mining Lease, 1,862 tons at 0.26% U308 and 1.89% V205; 5, AEC Mining Lease, 9,490 tons at 0.34% U308 & 1.44% V205; 8, AEC Mining Lease, 33,536 tons at 0.37% U308 & 2.15% V205; 9, AEC Mining Lease, 3,555 tons at 0.36% U308 & 2.62% V205; 43, AEC Mining Lease, 2,555 tons at 0.23% U308 & 1.54% V205. From December 1976 through

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December 1977, production from C-SR-16, DOE Lease Tract was 2,021 tons at 0.25% U308 & 1.29% V205.

HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 RMKS Map name is MOAB (Horse Range Mesa), and CORTEZ (mostly CORTEZ, Egnar Quad.).
 DOI 1977
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado, U.S. A.E.C., 1971, Production Records, Colorado.

C-SR-16A, DOE Lease Tract (5, AEC Mining Lease) [Pretty Boy Claim] (Charles T. Group) (7, AEC Mining Lease) [Golden Rod, Fraction 3], Golden Rod Group (22, AEC Mining Lease) [Golden Rod No. 1 & 2, Fraction No. 4 (see 48, Mining Lease)] (25, AEC Mining Lease) [Golden Rod No. 5] (45, AEC Mining Lease) [Pretty Boy, Bush Nos. 6 & 7] (48, AEC Mining Lease) [Neomie D., Neomie D. Angle, Fraction No. 1]

LOCATION: N1/2E1/2SE1/4 sec. 14, T. 43 N., R. 19 W.
 LCRM Also S1/2 sec. 11. This lease lies in the Slick Rock district, Goldenrod area.

QUAD Horse Range Mesa 7 1/2' & Egnar 7 1/2'
 MAP CORTEZ

DVEL From 1950-1955, production from five former AEC leases included in this DOE Lease Tract amounted to 14,299 tons at 0.26% U308 and 2.51% V205. This includes, from 7, AEC Mining Lease, 7,220 tons at 0.24% U308 and 2.44% V205; 22, AEC Mining Lease, 2,058 tons at 0.26% U308 and 2.35% V205; 25, AEC Mining Lease, 4,482 tons at 0.29% U308 and 2.77% V205; 45, AEC Mining Lease, 346 tons at 0.15% U308 and 1.45% V205; 48, AEC Mining Lease, 203 tons at 0.21% U308 and 2.56% V205. From August 1975 through December 1977 production from C-SR-16A, DOE Lease Tract was 2,898 tons at 0.18% U308 and 1.40% V205.

HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium and vanadium minerals were mined.
 DOI 1977
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado.

Canyon Group (Snyder Dunning Group)

LOCATION: sec. 29, T. 43 N., R. 18 W.
 QUAD Egnar 7 1/2' and Joe Davls Hill 7 1/2'
 MAP CORTEZ

DVEL As of 1971, 411 tons had been mined at a grade of 0.28% U308, producing 2,297 lbs of U308, and 2.70% V205, producing 22,215 lbs of V205.

HOST The host is the Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Canyon View

LOCATION: sec. 5, T. 43 N., R. 18 W.

LCRM This deposit lies in the Slick Rock district.
 MAP MOAB
 PROD As of 1971, 349 tons had been mined at a grade of 0.35% U308, producing 2,459 lbs of U308, and 2.08% V205, producing 14,542 lbs of V205.

HOST The host is the Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.

DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado, U.S. A.E.C., 1971, Production Records, Colorado.

Cape Malrs

LOCATION:

LCST UNLOCATABLE
 LCRM This deposit lies in the Slick Rock district.
 PROD As of 1971, 14 tons had been mined at a grade of 0.04% U308, producing 11 lbs of U308, and 0.87% V205, producing 243 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971

REF U.S. D.O.E., 1977, Lease Production Records, Colorado, U.S. A.E.C., 1971, Production Records, Colorado.

Cardinal No. 2

LOCATION: sec. 28, T. 44 N., R. 16 W.

LCRM Also sec. 29, 32, 33. This deposit lies in Long Ridge.

HOST Jurassic Morrison Formation.
 MNZ Carnotite.

DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Carnation Mine (Carnation 1-5, St. Jude)

LOCATION: SW1/4 sec. 13, T. 44 N., R. 18 W.

LCRM Also sec. 14.
 PROD As of 1971, 62,894 tons had been mined at a grade of 0.24% U308, producing 296,304 lbs of U308, and 1.49% V205, producing 1,871,748 lbs of V205.

HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.

DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Charles T1 (8, AEC Mining Lease)(C-SR-16, DOE Lease Tract)

LOCATION: sec. 10, T. 43 N., R. 19 W.

DVEL See C-SR-16, DOE Lease Tract.
 HOST The host is Jurassic Morrison Formation, Salt Wash Sandstone Member, gray and brown shaly sandstone and fine- to medium-grained sandstone with abundant carbonized logs and other plant remains.

MNZ Carnotite - tyuyamunite.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado, U.S. A.E.C., 1971, Production

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Records, Colorado. Finch, W. I., 1967, U.S. Geol. Survey Prof. Paper 538, p. 12.

Charlotte 1

LOCATION: sec. 23, T. 44 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 53 tons had been mined at a grade of 0.63% U308, producing 670 lbs of U308, and 3.55% V205, producing 3,762 lbs of V205.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Chesta (Mexico Group)

LOCATION: sec. 26, T. 45 N., R. 18 W.
 QUAD Hamm Canyon 7 1/2' and Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 247 tons had been mined at a grade of 0.04% U308, producing 208 lbs of U308, and 0.60% V205, producing 2,959 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Chief 1 & 3

LOCATION: NW1/4 sec. 21, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 6,396 tons had been mined at a grade of 0.26% U308, producing 33,309 lbs of U308, and 1.91% V205, producing 244,302 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Chile 5 (Old Mexico, New Mexico, Breezy)

LOCATION: sec. 25, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 26.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 8,477 tons had been mined at a grade of 0.25% U308, producing 42,964 lbs of U308, and 1.44% V205, producing 243,736 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Chinnase (Ava Jay Group)

LOCATION: sec. 25, T. 44 N., R. 20 W.

LCRM This deposit lies in the Slick Rock district.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Chipmonk

LOCATION: sec. 16, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 23-27, T. 45 N., R. 18 W.; sec. 1, 6, 7, 12, T. 44 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 630 tons had been mined at a grade of 0.19% U308, producing 2,407 lbs of U308, and 2.21% V205, producing 27,904 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Chipmunk

LOCATION: W1/2 sec. 22, T. 45 N., R. 19 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Chipmunk 1

LOCATION: sec. 34, T. 45 N., R. 19 W.
 LCRM Also sec. 35.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 178 tons had been mined at a grade of 0.57% U308, producing 2,028 lbs of U308, and 2.89% V205, producing 10,284 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Civet Cat Group (Vanadium Queen)

LOCATION: sec. 36, T. 45 N., R. 20 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 1-2, T. 44 N., R. 20 W.
 QUAD Mount Peale 4 SE 7 1/2'
 PROD As of 1971, 895 tons had been mined at a grade of 0.32% U308, producing 5,775 lbs of U308, and 1.16% V205, producing 20,682 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Clear Creek

LOCATION:

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LCST UNLOCATABLE
 LCRM This deposit lies in the Slick Rock district.
 PROD As of 1971, 11 tons had been mined at a grade of 0.14% U308, producing 30 lbs of U308, and 0.55% V205, producing 122 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Clear View

LOCATION:
 LCST UNLOCATABLE
 PROD As of 1971, 77 tons had been mined at a grade of 0.25% U308, producing 384 lbs of U308, and 1.88% V205, producing 2,895 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Clear View Claims (Horseshoe Group)

LOCATION: sec. 6, T. 42 N., R. 17 W.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Cliff Dweller (Cliff Dweller Nail)

LOCATION: sec. 9, T. 44 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 8.
 QUAD Hamm Canyon 7 1/2' and Gypsum Gap 7 1/2'
 MAP MOAB
 PROD As of 1971, 917 tons had been mined at a grade of 0.33% U308, producing 6,041 lbs of U308 and 2.02% V205.
 HOST Jurassic Morrison Formation, Salt Wash Sandstone Member; fine- to medium-grained sandstone.
 MNZ Uranium, vanadium, carnotite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S.G.S. Prof. Paper 538, (p. 12).

Colorado Cat

LOCATION: sec. 15, T. 44 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 16 tons had been mined at a grade of 0.53% U308, producing 171 lbs of U308, and 2.89% V205, producing 926 lbs of V205.
 HOST Brushy Basin Member of the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Cone 1-6

LOCATION: sec. 30, T. 44 N., R. 19 W.
 QUAD Mount Peale 4 SE 7 1/2' & Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,821 tons had been mined at a grade of 0.23% U308, producing 8,334 lbs of U308, and 1.62% V205, producing 59,115 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Cone No. 14

LOCATION: sec. 30, T. 44 N., R. 19 W.
 PROD Reserves, no production.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Cowhand 2

LOCATION: sec. 31, T. 45 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records show location as being sec. 1-12, 6-7; T. 44 N., R. 19 & 20 W.
 QUAD Mount Peale 4 SE 7 1/2'
 MAP MOAB
 PROD As of 1971, 54 tons had been mined at a grade of 0.20% U308, producing 216 lbs of U308, and 1.07% V205, producing 1,159 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Crucible

LOCATION: sec. 7, T. 43 N., R. 10 W.
 LCRM U.S. A.E.C. Production Records also show sec. 8.
 QUAD Placerville 7 1/2'
 MAP MOAB
 PROD As of 1971, 13 tons had been mined at a grade of 0.07% U308, producing 17 lbs of U308, and 1.58% V205, producing 410 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Cub 1

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Slick Rock district.
 PROD As of 1971, 32 tons had been mined at a grade of 0.26% U308, producing 164 lbs of

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U308, and 2.49% V205, producing 1,594 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Curtis

LOCATION: sec. 28, T. 43 N., R. 18 W.
 LCRM Also sec. 27.
 QUAD Joe Davls Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 220 tons had been mined at a grade of 0.43% U308, producing 18,893 lbs of U308, and 2.11% V205, producing 9,281 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Deremo (Bigler Shaft, Pup No. 1, W. B. Snyder, Bigler, Geisinger Leases)

LOCATION: NE1/4N1/2 sec. 2, T. 42 N., R. 20 W.
 LCRM U.S. A.E.C. Production Records also show sec. 35 & 36, T. 43 N., R. 20 W.
 QUAD Verdure 1 NE 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 794,810 tons had been mined at a grade of 0.20% U308, producing 3,218,079 lbs of U308, and 1.97% V205, producing 31,240,735 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Cusco

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Slick Rock district.
 PROD As of 1971, 10 tons had been mined at a grade of 0.13% U308, producing 26 lbs of U308, and 1.59% V205, producing 318 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Deremo Dumps

LOCATION: NE1/4N1/2 sec. 2, T. 42 N., R. 20 W.
 QUAD Verdure 1 NE 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 87 tons had been mined at a grade of 0.20% U308, producing 355 lbs of U308, and 2.91% V205, producing 5,070 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

D.U. and Vanderwalker Groups

LOCATION: sec. 26, T. 44 N., R. 18 W.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Deremo No. 2

LOCATION: SE1/4 sec. 2, T. 42 N., R. 20 W.
 QUAD Verdure 1 NE 7 1/2'
 MAP CORTEZ
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Dalpaz

LOCATION:
 LCST UNLOCATABLE
 PROD AS of 1971, 1 182 tons had been mined at a grade of 0.14% U308, producing 518 lbs of U308, and 2.18% V205, producing 7,948 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Dickle 1 & 3 (Dickle Group)

LOCATION: sec. 12, T. 42 N., R. 18 W.
 LCRM Also sec. 13.
 QUAD Joe Davls Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 35 tons had been mined at a grade of 0.11% U308, producing 75 lbs of U308, and 1.20% V205, producing 838 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Deluxe & Master Deluxe

LOCATION: sec. 22, T. 44 N., R. 19 W.
 LCRM Also sec. 23-27.
 QUAD Horse Range Mesa 7 1/2'
 PROD As of 1971, 3,674 tons had been mined at a grade of 0.22% U308, producing 16,135 lbs of U308, and 1.58% V205, producing 116,446 lbs of V205.

Dolores River (Horseshoe Group)

LOCATION: NE1/4 sec. 1, T. 42 N., R. 18 W.
 LCRM This deposit lies in the Slick Rock district.

SAN MIGUEL COUNTY

QUAD Joe Davls Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 15 tons had been mined at a grade of 0.20% U308, producing 60 lbs of U308, and 2.25% V205, producing 675 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Dolores Uranium (Monument Valley, Red Canyon, Deer, Bush Creek, Slick Claims, Northeastern Slick Rock Claims, Valley, Faults, Cedar Flat)

LOCATION: sec. 18, T. 43 N., R. 18 W.
QUAD Egnar 7 1/2'
MAP CORTEZ
MNZ Uranium, vanadium.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.).

Donald Hill

LOCATION: sec. 15, T. 44 N., R. 18 W.
LCRM Also sec. 10-14.
QUAD Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 8 tons had been mined at a grade of 0.17% U308, producing 28 lbs of U308, and 1.56% V205, producing 250 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Donagan Lease

LOCATION: sec. 8, T. 43 N., R. 10 W.
LCRM This deposit lies in the Slick Rock district.
QUAD Sams 7 1/2'
MAP MOAB
PROD As of 1971, 78 tons had been mined at a grade of 0.04% U308, producing 66 lbs of U308, and 2.51% V205, producing 3,923 lbs of V205.
HOST Jurassic Entrada Sandstone; white to buff, fine-grained sandstone.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S.G.S. Prof. Paper 538, (p. 13).

Doss Claim Group

LOCATION: sec. 9, T. 43 N., R. 18 W.
QUAD Hamm Canyon 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.).

Dragon

LOCATION:

LCST UNLOCATABLE
PROD As of 1971, 498 tons had been mined at a grade of 0.10% U308, producing 1,044 lbs of U308, and 1.63% V205, producing 16,260 lbs of V205.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Duncan (Mexico Group)

LOCATION: sec. 26, T. 45 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 35.
QUAD Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 33 tons had been mined at a grade of 0.14% U308, producing 93 lbs of U308, and 0.815 V205, producing 535 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Durango and Las Animas

LOCATION: sec. 33, T. 44 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show sec. 28.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 97 tons had been mined at a grade of 0.25% U308, producing 476 lbs of U308, and 2.64% V205, producing 5,119 lbs of V205.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Early Morn Group

LOCATION: sec. 24, T. 44 N., R. 17 W.
QUAD Gypsum Gap 7 1/2'
MAP MOAB
PROD As of 1971, 854 tons had been mined at a grade of 0.14% U308, producing 2,375 lbs of U308, and 1.6% V205, producing 28,553 lbs of V205.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Everson Lease

LOCATION: sec. 26, T. 43 N., R. 19 W.
QUAD Egnar 7 1/2'
MAP CORTEZ
MNZ Uranium, vanadium.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.).

Eclipse

LOCATION: sec. 10, T. 44 N., R. 18 W.
LCRM This deposit lies in the Uravan district.

SAN MIGUEL COUNTY

QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 9 tons had been mined at a grade of 0.22% U308, producing 40 lbs of U308, and 1.22% V205, producing 219 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Edna Mae

LOCATION: sec. 21, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 468 tons had been mined at a grade of 0.16% U308, producing 1,532 lbs of U308, and 1.96% V205, producing 18,390 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Empire Group (Tunis, Libia, Sudan, Algiers, Bugwine, Cowhand)

LOCATION: sec. 1, T. 44 N., R. 20 W.
 LCRM This deposit lies in the Slick Rock district, McIntire Canyon. Also sec. 11 and 12, T. 44 N., R. 20 W. and sec. 6, T. 44 N., R. 19 W.
 PROD As of 1971, 12 tons had been mined at a grade of 0.41% U308, producing 98 lbs of U308, and 1.60% V205, producing 384 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

Fair View

LOCATION: UNLOCATABLE
 LCRM This deposit lies in the Slick Rock district.
 PROD As of 1971, 9 tons had been mined at a grade of 0.31% U308, producing 56 lbs of U308, and 2.61% V205, producing 469 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Falcon (Bov Ayla, Bob Incline)

LOCATION: SW1/4 sec. 21, T. 45 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 20 & 28.
 QUAD Egner 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 7,240 tons had been mined at a grade of 0.24% U308, producing 35,266 lbs of U308, and 2.15% V205, producing 310,855 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.

DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Fall Creek Group

LOCATION: sec. 18, T. 43 N., R. 10 W.
 LCRM U.S. A.E.C. Production Records only show sec. 7.
 QUAD Little Cone 7 1/2' & Gray Head 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 8,232 tons had been mined at a grade of 0.07% U308, producing 11,804 lbs of U308, and 1.91% V205, producing 314,084 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, roscoelite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Faultless (Faultless Group, Blue Bird Fraction, Faultless #1, New Moon)

LOCATION: sec. 24, T. 45 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 99 tons had been mined at a grade of 0.23% U308, producing 455 lbs of U308, and 1.63% V205, producing 3,221 lbs of V205.
 HOST Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Federal

LOCATION: S1/2SE1/4 sec. 14, T. 44 N., R. 20 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Fervanite

LOCATION: sec. 7, T. 43 N., R. 16 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Firefly 3 (Firefly Mine)

LOCATION: sec. 21, T. 43 N., R. 19 W.
 QUAD Egner 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 1,523 tons had been mined at a grade of 0.28% U308, producing 8,436 lbs of U308, and 2.51% V205, producing 76,432 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

SAN MIGUEL COUNTY

Five Points (Five Points No. 1-3, 5, 6 and Oneta 2 & 3)

LOCATION: sec. 36, T. 44 N., R. 19 W.
 LCRM Also sec. 31, T. 44 N., R. 18 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 42 tons had been mined at a grade of 0.10% U308, producing 84 lbs of U308, and 1.21% V205, producing 1,015 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Florence (Radium Group)

LOCATION: sec. 5, T. 43 N., R. 19 W.
 LCST UNLOCATABLE
 LCRM U.S. A.E.C. Production Records also show location as being sec. 36, T. 44 N., R. 19 W.
 PROD As of 1972, 382 tons had been mined at a grade of 0.34% U308, producing 22,64 lbs of U308, and 1.84% V205, producing 14,137 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Fort Knox Claims

LOCATION: sec. 19, T. 45 N., R. 18 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Fox Group

LOCATION: sec. 26, T. 43 N., R. 18 W.
 LCRM Also sec. 13, 24; 18, 19; T. 44 N., R. 19 W., 18 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 355 tons had been mined at a grade of 0.12% U308, producing 863 lbs of U308, and 1.65% V205, producing 11,695 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Fraction

LOCATION: sec. 8, T. 43 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 303 tons had been mined at a grade of 0.32% U308, producing 1,945 lbs of U308, and 1.63% V205, producing 9,902 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Fraction 1 (one)

LOCATION: sec. 10, T. 43 N., R. 19 W.
 LCRM Map name is also CORTEZ.
 QUAD Horse Range Mesa 7 1/2' & Egner 7 1/2'
 MAP MOAB
 PROD As of 1971, 110 tons had been mined at a grade of 0.44% U308, producing 972 lbs of U308, and 2.40% V205, producing 5,279 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

France

LOCATION: sec. 20, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 19.
 QUAD Egner 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 1,436 tons had been mined at a grade of 0.27% U308, producing 7,644 lbs of U308, and 1.56% V205, producing 44,861 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Frances (Speed Patch Group)

LOCATION: sec. 29, T. 43 N., R. 18 W.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Frazier (Vanadium No. 1-3, Belvedere)

LOCATION: sec. 24, T. 43 N., R. 11 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 24, T. 44 N., R. 11 W. (Denver, Belvedere MS)
 QUAD Little Cone 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 671 tons had been mined at a grade of 0.17% U308, producing 2,216 lbs of U308, and 2.92% V205, producing 39,234 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Frazier Mine (Fall Creek Mine)

LOCATION:
 LCST UNLOCATABLE

SAN MIGUEL COUNTY

HOST Jurassic Morrison Formation; white to buff fine-grained sandstone.
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.). Finch, W. I., 1967, U.S.G.S. Prof. Paper 538, 121 p. (p. 13).

Frenchy 2

LOCATION: sec. 29, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 2,365 tons had been mined at a grade of 0.36% U308, producing 17,239 lbs of U308, and 2.38% V205, producing 112,578 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Sandstone Member; light brown fine- to medium-grained sandstone & gray & green mudstone with abundant carbonized plant remains and sparse logs.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S.G.S. Prof. Paper 538, (p. 12).

Full Property

LOCATION: sec. 4, T. 43 N., R. 10 W.
 QUAD Sams 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Full Moon Group (Full Moon #4, Full Moon #7)

LOCATION: sec. 5, T. 43 N., R. 18 W.
 LCRM Also E1/2, sec. 8 & 16
 QUAD Horse Range Mesa 7 1/2' & Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 9,425 tons had been mined at a grade of 0.20% U308, producing 36,825 lbs of U308, and 1.18% of V205, producing 221,640 lbs of V205.
 HOST Brushy Basin Member of the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

G M D 1 (Little Gyp Group)

LOCATION:
 LCRM This deposit lies in Gypsum Valley.
 PROD As of 1971, 13 tons had been mined at a grade of 0.14% U308, producing 36 lbs of U308, and 0.96% V205, producing 250 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.

DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Gap

LOCATION: sec. 16, T. 43 N., R. 16 W.
 LCRM This deposit lies in the Slick Rock district.
 QUAD Dawson Draw 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 17 tons had been mined at a grade of 0.16% U308, producing 56 lbs of U308, and 1.60% V205, producing 545 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Gelsinger

LOCATION: sec. 6, T. 42 N., R. 19 W.
 QUAD Verdure 1 NE 7 1/2' & Egnar 7 1/2'
 MAP CORTEZ
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Gerald T.

LOCATION: sec. 19, T. 44 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 24, T. 44 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 728 tons had been mined at a grade of 0.21% U308, producing 53,384 lbs of U308, and 0.75% V205, producing 10,944 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Giant (Giant No. 2)

LOCATION: sec. 24, T. 45 N., R. 19 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 407 tons had been mined at a grade of 0.12% U308, producing 1,005 lbs of U308, and 1.13% V205, producing 9,171 lbs of U308.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Glen 24 (Dowdy Lease)

LOCATION: sec. 28, T. 44 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records show locations as sec. 30 & 31, T. 45 N., R. 18 W.; sec. 29, 26, 6 & 7, T. 44 N., R. 19 W.
 QUAD Hamm Canyon 7 1/2'

SAN MIGUEL COUNTY

MAP MOAB
 PROD As of 1971, 288 tons had been mined at a grade of 0.23% U308, producing 1,313 lbs of U308, and 1.33% V205, producing 7,671 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

GMG (GMG 4-7, 10-13; GMG South 6 & 7)

LOCATION: sec. 13, T. 44 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 13 & 24, T. 44 N., R. 18 W.; sec. 18 & 19, T. 44 N., R. 17 W.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 27,777 tons had been mined at a grade of 0.24% U308, producing 133,053 lbs of U308, and 1.47% V205, producing 818,713 lbs of V205
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Goforth Homestead

LOCATION: sec. 15, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 36 tons had been mined at a grade of 0.10% U308, producing 75 lbs of U308, and 1.11% V205, producing 797 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Golden Eagle No. 14-16

LOCATION: sec. 18, T. 45 N., R. 18 W.
 LCRM Also sec. 19.
 PROD As of 1971, 407 tons had been mined at an average grade of 0.29% U308, yielding 2,164 lbs of U308.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Golden Rod 1

LOCATION: sec. 11, T. 43 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 639 tons had been mined at a grade of 0.26% U308, producing 3,332 lbs of U308, and 2.15% V205, producing 27,529 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Sandstone Member; gray and brown shaly sandstone and

fine- to medium-grained sandstone, with abundant carbonized logs and other plant remains.

MNZ Uranium, vanadium, carnotite - tyuyamunite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S.G.S. Prof. Paper 538, (p. 12).

Golden Rod 2

LOCATION: sec. 14, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 1,638 tons had been mined at a grade of 0.25% U308, producing 8,259 lbs of U308, and 2.45% V205, producing 8,310 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Golden Rod 4

LOCATION: sec. 14, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 4,483 tons had been mined at a grade of 0.29% U308, producing 26,113 lbs of U308, and 2.77% V205, producing 248,541 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Gopher (Wedding Bell Group)

LOCATION: sec. 21, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,366 tons had been mined at a grade of 0.25% U308, producing 6,944 lbs of U308, and 1.62% V205, producing 44,292 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Governor Mine

LOCATION: sec. 29, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 30.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 207 tons had been mined at a grade of 0.23% U308, producing 963 lbs of U308, and 2.08% V205, producing 8,267 lbs of V205.

SAN MIGUEL COUNTY

HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Grass Flats (Phillura Group)

LOCATION: sec. 32, T. 44 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 32.
QUAD Horse Range Mesa 7 1/2' and Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 3,513 tons had been mined at a grade of 0.18% U308, producing 12,866 lbs of U308, and 0.79% V205, producing 55,696 lbs of V205.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Grassy Hill

LOCATION: sec. 24, T. 45 N., R. 19 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 31 tons had been mined at a grade of 0.12% U308, producing 75 lbs of U308, and 0.78% V205, producing 486 lbs of V205.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Green Arrow

LOCATION:
LCRM This deposit lies in Gypsum Valley.
PROD As of 1971, 4 tons had been mined at a grade of 0.06% U308, producing 5 lbs of U308, and 3.15% V205, producing 252 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Ground Hog

LOCATION: sec. 21, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 9,563 tons had been mined at a grade of 0.22% U308, producing 42,003 lbs of U308, and 1.02% V205, producing 195,388 lbs of V205.
HOST Brushy Basin Member of the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. ilme.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Ground Hog Dump

LOCATION: sec. 21, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 1,111 tons had been mined at a grade of 0.21% U308, producing 4,631 lbs of U308, and 1.18% V205, producing 26,153 lbs of V205.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Grub Stake

LOCATION: sec. 23, T. 44 N., R. 19 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 7 tons had been mined at a grade of 0.28% U308, producing 39 lbs of U308, and 1.46% V205, producing 205 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Gypsum Homestead (Big Gyp Homestead)

LOCATION: sec. 33, T. 45 N., R. 18 W.
QUAD Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 1,569 tons had been mined at a grade of 0.18% U308, producing 5,668 lbs of U308, and 1.52% V205, producing 47,601 lbs of V205.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Gypsum Valley Claims

LOCATION: sec. 33, T. 44 N., R. 16 W.
QUAD Gypsum Gap 7 1/2'
MAP MOAB
PROD As of 1971, 1,318 tons of ore were mined at an average grade of 0.14% U308, yielding 4,435 lbs of U308.
MNZ Uranium, vanadium.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.).

Hackett

LOCATION: E1/2NW1/4 sec. 20, T. 43 N., R. 19 W.
DOI 1958
REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Halloween

LOCATION:
LCRM This deposit lies in Gypsum Valley.

SAN MIGUEL COUNTY

PROD As of 1971, 23 tons had been mined at a grade of 0.07% U3O8, producing 31 lbs of U3O8, and 1.75% V2O5, producing 805 lbs of V2O5.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Hangover (Hangover No. 3)

LOCATION: NW1/4 sec. 21, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 10,989 tons had been mined at a grade of 0.25% U3O8, producing 56,001 lbs of U3O8, and 2.62% V2O5, producing 576,525 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Happy Jack (Gypsy Rose)

LOCATION: sec. 36, T. 44 N., R. 20 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 4, T. 43 N., R. 19 W.
 QUAD Mount Peale SE 7 1/2'
 MAP MOAB
 PROD As of 1971, 243 tons had been mined at a grade of 0.37% U3O8, producing 1,810 lbs of U3O8, and 2.40% V2O5, producing 11,685 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Hawk - Frankle

LOCATION: sec. 16, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 9,681 tons had been mined at a grade of 0.22% U3O8, producing 41,745 lbs of U3O8, and 1.61% V2O5, producing 310,900 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Haymaker - Sunset (Sunset, Susan H.)

LOCATION: sec. 29, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 32.
 QUAD Anderson Mesa 7 1/2' and Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 230 tons had been mined at a grade of 0.24% U3O8, producing 1,111 lbs

of U3O8, and 1.70% V2O5, producing 7,809 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Hazel (Hazel #3, 4, and 5)

LOCATION: sec. 19, T. 43 N., R. 19 W.
 QUAD Verdure 1 NE 7 1/2' and Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 119 tons had been mined at a grade of 0.20% U3O8, producing 483 lbs of U3O8, and 2.25% V2O5, producing 5,364 lbs of V2O5.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Hogback

LOCATION: sec. 19, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 20.
 QUAD Verdure 1 NE 7 1/2' and Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 909 tons have been mined at a grade of 0.20% U3O8, producing 3,600 lbs of U3O8, and 1.74% V2O5, producing 31,605 lbs of V2O5.
 HOST The host is the Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Horseshoe 1

LOCATION: sec. 6, T. 42 N., R. 17 W.
 QUAD Joe Davis Hill 7 1/2'
 PROD As of 1971, 799 tons had been mined at a grade of 0.20% U3O8, producing 3,254 lbs of U3O8, and 1.77% V2O5, producing 28,355 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Sandstone Member, sandstone and mudstone with abundant carbonized plant remains and sparse logs.
 MNZ Uranium, vanadium, carnotite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado, Finch, W.L., 1967, U.S. Geol. Survey Prof. Paper 538, (p. 12).

Horseshoe 2

LOCATION: sec. 6, T. 42 N., R. 17 W.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 152 tons had been mined at a grade of 0.17% U3O8, producing 519 lbs of U3O8, and 1.21% V2O5, producing 3,686 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.

SAN MIGUEL COUNTY

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Horseshoe 3

LOCATION: sec. 6, T. 42 N., R. 17 W.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 235 tons had been mined at a grade of 0.15% U308, producing 720 lbs of U308, and 1.26% V205, producing 5,934 lbs of V205.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Horseshoe 4

LOCATION: sec. 6, T. 42 N., R. 17 W.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 12 tons had been mined at a grade of 0.30% U308, producing 71 lbs of U308, and 2.96% V205, producing 710 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Horseshoe 5

LOCATION: sec. 6, T. 42 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 31, T. 43 N., R. 17 W.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 1,857 tons had been mined at a grade of 0.26% U308, producing 9,481 lbs of U308, and 2.22% V205, producing 82,481 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Horseshoe 6

LOCATION: sec. 6, T. 42 N., R. 17 W.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 155 tons had been mined at a grade of 0.20% U308, producing 618 lbs of U308, and 1.56% V205, producing 4,850 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Horseshoe 7

LOCATION: sec. 6, T. 42 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 31, T. 43 N., R. 17 W.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 696 tons had been mined at a grade of 0.20% U308, producing 2,823 lbs of U308, 1.75% V205, producing 24,414 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Horseshoe Bend 1

LOCATION:
 PROD As of 1971, 1,638 tons have been mined at a grade of 0.30% U308, producing 9,915 lbs of U308, and 2.76% V205, producing 90,519 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Hot Drill 11

LOCATION: sec. 11, T. 42 N., R. 18 W.
 LCRM This deposit lies in the Slick Rock district (overlaps S. B. Group).
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 38 tons had been mined at a grade of 0.07% U308, producing 53 lbs of U308, and 0.61% V205, producing 465 lbs of V205.
 HOST Triassic Wingate or Chinle Formation.
 MNZ Uranium, vanadium, uraninite (coffinite), low vanadium, high ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Hot Shot

LOCATION: sec. 16, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,297 tons had been mined at a grade of 0.33% U308, producing 15,223 lbs of U308, and 1.77% V205, producing 81,323 lbs of V205.
 MNZ Uranium, vanadium, carnotite, tyuyamunite, high vanadium, intermed. ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

SAN MIGUEL COUNTY

Hot Spot

LOCATION: sec. 17, T. 44 N., R. 17 W.
 LCRM This deposit lies in Gypsum Valley.
 PROD As of 1971, 53 tons had been mined at a grade of 0.16% U308, producing 170 lbs of U308, and 2.12% V205, producing 2,248 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Hoyman Lease (Gravy Claims, West Group)

LOCATION: sec. 27, T. 44 N., R. 18 W.
 LCRM Also sec. 28, 29, 32, 33, 34.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 4,651 tons had been mined at a grade of 0.21% U308, producing 19,579 lbs of U308, and 1.26% V205, producing 116,860 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

I.V.

LOCATION: sec. 15, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 29 tons had been mined at a grade of 0.18% U308, producing 106 lbs of U308, and 1.24% V205, producing 721 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Independence (Lower Group)

LOCATION: sec. 17, T. 43 N., R. 19 W.
 LCRM This deposit lies in the Slick Rock district.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 13 tons had been mined at a grade of 0.25% U308, producing 64 lbs of U308, and 0.69% V205, producing 179 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Inspiration 1 (Lost Group)

LOCATION: sec. 33, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 34.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 110 tons had been mined at a grade of 0.06% U308, producing 124 lbs of

U308, and 0.93% V205, producing 2,053 lbs of V205.

HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Inspiration 15

LOCATION: sec. 33, T. 45 N., R. 18 W.
 LCRM This deposit lies in Gypsum Valley.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 16 tons had been mined at a grade of 0.06% U308, producing 19 lbs of U308, and 1.08% V205, producing 346 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

J V Eavenson Lease

LOCATION: sec. 27, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 26.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 30 tons had been mined at a grade of 0.18% U308, producing 107 lbs of U308, and 1.73% V205, producing 1,035 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

J.J.Z.

LOCATION: sec. 33, T. 43 N., R. 18 W.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 6 tons had been mined at a grade of 0.28% U308, producing 33 lbs of U308, 1.17% V205, producing 140 lbs of U308.
 HOST Salt Wash Member of the Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Jack Knife (Jack Knife No. 1, Wedding Bell Group)

LOCATION: sec. 21, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,517 tons had been mined at a grade of 0.22% U308, producing 11,296 lbs of U308, and 1.38% V205, producing 69,467 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite, tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

SAN MIGUEL COUNTY

Jack Knife No. 3 (Wedding Bell Group)

LOCATION: sec. 21, T. 45 N., R. 18 W.
 PROD As of 1971, 13,766 tons of ore had been mined at a grade of 0.29% U308, producing 78,751 lbs of U308, and 1.58% V205, producing 435,458 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Jack-o-lantern

LOCATION: sec. 32, T. 44 N., R. 18 W.
 QUAD Horse Range Mesa 7 1/2' & Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 21 tons had been mined at a grade of 0.29% U308, producing 123 lbs of U308, and 2.50% V205, producing 1,051 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Jackie L

LOCATION: sec. 8, T. 43 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1977, 48 tons had been mined at a grade of 0.04% U308, producing 36 lbs of U308, and 1.82% V205, producing 1,744 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Jackie Walls 3

LOCATION: sec. 36, T. 44 N., R. 20 W.
 QUAD Mount Peale 4 SE 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,039 tons had been mined at a grade of 0.22% U308, producing 4,588 lbs of U308, and 1.61% V205, producing 33,379 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Jackknife 3 East E

LOCATION: sec. 16, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Jackknife 3 West W

LOCATION: sec. 16, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records show sec. 21.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 199 tons had been mined at a grade of 0.06% U308, producing 247 lbs of U308, and 0.32% V205, producing 1,271 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Jackknife No. 2

LOCATION: sec. 16, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Jackpot Group (Long Ridge Group, Jackpot No. 1-3)

LOCATION: sec. 16, T. 44 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 17.
 QUAD Hamm Canyon 7 1/2' & Gypsum Gap 7 1/2'
 MAP MOAB
 PROD As of 1971, 182 tons had been mined at a grade of 0.16% U308, producing 582 lbs of U308, and 1.23% V205, producing 4,492 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Jim 2

LOCATION: sec. 11, T. 42 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 2, 3, 10.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 330 tons had been mined at a grade of 0.19% U308, producing 1,251 lbs of U308, and 2.59% V205, producing 17,098 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Joe Dandy Group (Edward, Wesley, Lone Wolf)

LOCATION: sec. 8, T. 43 N., R. 10 W.
 QUAD Sams 7 1/2'
 MAP MOAB
 PROD As of 1971, 686 tons had been mined at a grade of 0.06% U308, producing 867 lbs of U308, and 1.68% V205, producing 23,063 lbs of V205.
 HOST Jurassic Entrada Sandstone; white to buff fine-grained sandstone.

SAN MIGUEL COUNTY

MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S.G.S. Prof. Paper 538, 121 p. (p. 13).

Jungle Basin

LOCATION: sec. 35, T. 45 N., R. 17 W.
 QUAD Gypsum Gap 7 1/2'
 MAP MOAB
 PROD As of 1971, 10 tons had been mined at a grade of 0.03% U308, producing 6 lbs of U308, and 0.21% V205, producing 43 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Jupiter

LOCATION: sec. 32, T. 43 N., R. 18 W.
 QUAD Egnar 7 1/2' & Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 269 tons had been mined at a grade of 0.26% U308, producing 1,372 lbs of U308, and 2.40% V205, producing 12,929 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Kate Meyers

LOCATION:
 LCRM This deposit lies in the Slick Rock district.
 PROD As of 1971, 23 tons had been mined at a grade of 0.11% U308, producing 51 lbs of U308, and 0.72% V205, producing 330 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Katie

LOCATION: sec. 24, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 91 tons had been mined at a grade of 0.21% U308, producing 384 lbs of U308, and 2.74% V205, producing 4,978 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Keystone

LOCATION: sec. 14, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records only show sec 26.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 437 tons had been mined at a grade of 0.19% U308, producing 1,691 lbs of U308, and 1.94% V205, producing 16,952 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Klondike (Lower Group)

LOCATION: sec. 1, T. 43 N., R. 17 W.
 LCRM This deposit lies in the Slick Rock district.
 QUAD Gypsum Gap 7 1/2'
 MAP MOAB
 PROD As of 1971, 2 tons had been mined at a grade of 0.10% U308, producing 4 lbs of U308, and 0.90% V205, producing 36 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

La Salle

LOCATION: sec. 30, T. 44 N., R. 19 W.
 QUAD Mount Peale 4 SE 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,407 tons had been mined at a grade of 0.12% U308, producing 3,260 lbs of U308, and 0.59% V205, producing 16,671 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lara's Pengent

LOCATION: E1/2SE1/4NW1/4 sec. 29, T. 43 N., R. 19 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Larimer Street

LOCATION: sec. 16, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

SAN MIGUEL COUNTY

Last Chance

LOCATION: sec. 23, T. 44 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 36 tons had been mined at a grade of 0.36% U308, producing 261 lbs of U308, and 1.49% V205, producing 1,076 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, Intermed. Ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Last Chance

LOCATION: sec. 32, T. 45 N., R. 19 W.
 LCRM Also sec. 35.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 10 tons had been mined at a grade of 0.11% U308, producing 22 lbs of U308, and 0.94% V205, producing 188 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low Ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Last Hope

LOCATION: sec. 24, T. 43 N., R. 20 W.
 QUAD Verdure 1 NE 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 419 tons had been mined at a grade of 0.21% U308, producing 1,731 lbs of U308, and 2.26% V205, producing 19,969 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Latricia

LOCATION: sec. 20, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 959 tons had been mined at a grade of 0.20% U308, producing 3,796 lbs of U308, and 1.08% V205, producing 20,640 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, Intermed. Ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lawton (Fall Creek Group)

LOCATION: sec. 1, T. 43 N., R. 11 W.
 QUAD Placerville 7 1/2'
 MAP MOAB
 HOST Jurassic Morrison Formation.

MNZ Roscoelite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Lease 875 N W 16

LOCATION:
 LCRM This deposit lies in the Slick Rock district.
 PROD As of 1971, 6 tons had been mined at a grade of 0.53% U308, producing 64 lbs of U308, and 1.23% V205, producing 147 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Lee C

LOCATION: NE1/4NE1/4 sec. 8, T. 43 N., R. 19 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Lee Mack (Lemack)

LOCATION: sec. 1, T. 43 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 6 tons had been mined at a grade of 0.18% U308, producing 22 lbs of U308, and 1.82% V205, producing 218 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Leopard Vanadium 2 & 3

LOCATION: sec. 26, T. 44 N., R. 11 W.
 QUAD Placerville 7 1/2'
 MAP MOAB
 PROD As of 1971, 150 tons had been mined at a grade of 0.14% U308, producing 430 lbs of U308, and 2.54% V205, producing 7,610 lbs of V205.
 HOST Jurassic Entrada Sandstone; light gray to buff, fine-grained sandstone.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S.G.S. Prof. Paper 538, (p.13).

Letty Jones (Letty Jones Lease)

LOCATION: sec. 1, T. 43 N., R. 20 W.
 LCRM Also NE1/4 sec. 6, 7, 12, 13, 14, 18, T. 43 N., R. 19 W & 20 W.
 DYEL Reserves, no production.
 HOST Brushy Basin Member of the Jurassic Morrison Formation.
 MNZ Uraninite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado. Hague, R. S., Goldenstein, S. J., and Blakey,

SAN MIGUEL COUNTY

E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Liberty Bell

LOCATION:

LCRM This deposit lies in the Slick Rock district.
 PROD As of 1971, 7 tons had been mined at a grade of 0.15% U308, producing 21 lbs of U308, and 1.17% V205, producing 164 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Little Chief

LOCATION:

LCRM This deposit lies in the Slick Rock district.
 PROD As of 1971, 21 tons had been mined at a grade of 0.11% U308, producing 47 lbs of U308, and 0.97% V205, producing 409 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Little Helen

LOCATION: sec. 18, T. 43 N., R. 18 W.

QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 31 tons had been mined at a grade of 0.25% U308, producing 157 lbs of U308, and 2.29% V205, producing 1,419 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Little Marle

LOCATION: sec. 23, T. 44 N., R. 19 W.

LCRM This deposit lies in the Slick Rock district.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 5 tons had been mined at a grade of 0.33% U308, producing 33 lbs of U308, and 2.36% V205, producing 236 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Little Max

LOCATION: sec. 28, T. 43 N., R. 18 W.

QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 326 tons had been mined at a grade of 0.21% U308, producing 1,342 lbs of U308, and 1.84% V205, producing 11,977 lbs of V205.

HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Little Roy

LOCATION: sec. 28, T. 43 N., R. 18 W.

LCRM U.S. A.E.C. Production Records also show sec. 27.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 22 tons had been mined at a grade of 0.14% U308, producing 60 lbs of U308, and 2.67% V205, producing 1,175 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lizzie Group (Lizzie OS)

LOCATION: sec. 8, T. 43 N., R. 10 W.

QUAD Sams 7 1/2' & Gray Head 7 1/2'
 MAP MOAB
 PROD As of 1971, 398 tons had been mined at a grade of 0.05% U308, producing 374 lbs of U308, and 1.47% V205, producing 11,699 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Lone Peak 1-3

LOCATION: sec. 32, T. 43 N., R. 18 W.

QUAD Egnar 7 1/2' & Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 755 tons had been mined at a grade of 0.17% U308, producing 2,605 lbs of U308, and 1.66% V205, producing 25,006 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lone Star Group

LOCATION: sec. 4, T. 43 N., R. 19 W.

LCRM U.S. A.E.C. Production Records only show sec. 8.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 483 tons had been mined at a grade of 0.20% U308, producing 1,912 lbs of U308, and 1.20% V205, producing 11,555 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

SAN MIGUEL COUNTY

Lonesome 34

LOCATION: sec. 36, T. 45 N., R. 18 W.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 5,195 tons had been mined at a grade of 0.17% U308, producing 17,549 lbs of U308, and 0.90% V205, producing 93,908 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Long Ridge and Long Ridge 2 (Mist)

LOCATION: sec. 23, T. 44 N., R. 17 W.
 QUAD Gypsum Gap 7 1/2'
 MAP MOAB
 PROD As of 1971, 7,903 tons had been mined at a grade of 0.31% U308, producing 49,641 lbs of U308, and 1.85% V205, producing 292,060 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member. Fine- to medium-grained sandstone.
 MNZ Uranium, vanadium, carnotite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S.G.S. Prof. Paper 538, p. 12.

Lookout

LOCATION: NW1/4 sec. 36, T. 45 N., R. 18 W.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 76,345 tons had been mined at a grade of 0.13% U308, producing 15,848 lbs of U308, and 2.12% V205, producing 268,647 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Sandstone Member; light gray, fine- to medium-grained sandstone with sparse to abundant carbonized logs and other plant remains.
 MNZ Uranium, vanadium, carnotite.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S.G.S. Prof. Paper 538, p. 12.

Lost

LOCATION: sec. 33, T. 45 N., R. 18 W.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 815 tons had been mined at a grade of 0.21% U308, producing 3,452 lbs of U308, and 1.61% V205, producing 26,272 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Sandstone Member; red-brown, fine-grained sandstone, shaly sandstone, and carbonaceous shale with some carbonized plant remains.
 MNZ Uranium, vanadium, carnotite.

DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S.G.S. Prof. Paper 538, p. 12.

Lost Brothers

LOCATION: sec. 27, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2' & Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 166 tons had been mined at a grade of 0.32% U308, producing 1,063 lbs of U308, and 2.77% V205, producing 9,210 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lost Dog

LOCATION: sec. 16, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records only show sec. 21, 22, & 27.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 189 tons had been mined at a grade of 0.25% U308, producing 928 lbs of U308, and 2.21% V205, producing 8,367 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lucky 1 and Joe Ray 1

LOCATION: sec. 8, T. 43 N., R. 18 W.
 LCRM This deposit lies in the Silck Rock district.
 QUAD Horse Range Mesa 7 1/2' & Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 13 tons had been mined at a grade of 0.26% U308, producing 67 lbs of U308, and 1.61% V205, producing 418 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lucky B (Rowena, Nancy 1-4, Blue Horse)

LOCATION: sec. 15, T. 44 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 57 tons had been mined at a grade of 0.26% U308, producing 292 lbs of U308, and 2.22% V205, producing 2,527 lbs of V205.
 HOST Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

SAN MIGUEL COUNTY

Lucky Day

LOCATION: sec. 24, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 883 tons had been mined at a grade of 0.23% U3O8, producing 3,997 lbs of U3O8, and 2.79% V2O5, producing 49,328 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Lucky Strike

LOCATION: sec. 19, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 38.
 QUAD Verdure 1 NE 7 1/2' & Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 223 tons had been mined at a grade of 0.14% U3O8, producing 637 lbs of U3O8, and 0.79% V2O5, producing 3,524 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mac Intyre Claims

LOCATION:
 LCRM This deposit lies in the Slick Rock district.
 PROD As of 1971, 8 tons had been mined at a grade of 0.28% U3O8, producing 44 lbs of U3O8, and 1.04% V2O5, producing 166 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Magpie 2

LOCATION: sec. 25, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records only show sec. 36.
 QUAD Bull Canyon 7 1/2' & Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 28,330 tons had been mined at a grade of 0.20% U3O8, producing 113,528 lbs of U3O8, and 0.99% V2O5, producing 559,171 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., Production Records, Colorado.

Magpie (Mine)

LOCATION: sec. 10, T. 44 N., R. 18 W.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB

PROD As of 1971, 9,352 tons had been mined at a grade of 0.22% U3O8, producing 40,328 lbs of U3O8, and 1.24% V2O5, producing 231,726 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mainstreet (Almon Street)

LOCATION: sec. 16, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 10,306 tons had been mined at a grade of 0.28% U3O8, producing 57,698 lbs of U3O8, and 1.45% V2O5, producing 297,964 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Margaret C. 1-6

LOCATION: sec. 7, T. 43 N., R. 16 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 21, T. 44 N., R. 17 W.
 QUAD Dawson Draw 7 1/2'
 MAP MOAB
 PROD As of 1971, 24 tons had been mined at a grade of 0.23% U3O8, producing 110 lbs of U3O8, and 1.30% V2O5, producing 625 lbs of V2O5.
 HOST Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Marie

LOCATION: sec. 19, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records only show sec. 29.
 QUAD Verdure 1 NE 7 1/2' & Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 535 tons had been mined at a grade of 0.20% U3O8, producing 2,185 lbs of U3O8, and 1.33% V2O5, producing 14,284 lbs of V2O5.
 HOST Salt Wash Member of the Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Marie 1 (Legin Group)

LOCATION: sec. 29, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show R. 19 E.
 QUAD Egnar 7 1/2'

SAN MIGUEL COUNTY

MAP CORTEZ
PROD As of 1971, 790 tons had been mined at a grade of 0.16% U308, producing 2,543 lbs of U308, and 1.20% V205, producing 18,903 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Marne Group

LOCATION: sec. 32, T. 43 N., R. 18 W.
QUAD Egnar 7 1/2' & Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 3,032 tons had been mined at a grade of 0.24% U308, producing 14,698 lbs of U308, and 2.11% V205, producing 128,036 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Martha Sue

LOCATION: sec. 11, T. 43 N., R. 19 W.
LCRM This deposit lies in the Slick Rock district.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 8 tons had been mined at a grade of 0.34% U308, producing 54 lbs of U308, and 3.65% V205, producing 584 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mary Jane (Broadway)

LOCATION: sec. 22, T. 45 N., R. 18 W.
QUAD Bull Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 3,929 tons had been mined at a grade of 0.19% U308, producing 15,295 lbs of U308, and 1.86% V205, producing 146,074 lbs of V205.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mary M

LOCATION:
LCRM This deposit lies in the Slick Rock district.
PROD As of 1971, 8 tons had been mined at a grade of 0.05% U308, producing 8 lbs of U308, and 0.76% V205, producing 122 lbs of V205.
HOST Jurassic Morrison Formation.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

May Day (Speed Patch Group)

LOCATION: sec. 32, T. 43 N., R. 18 W.
LCRM U.S. A.E.C. Production Records only show sec. 29.
QUAD Egnar 7 1/2' & Joe Davis Hill 7 1/2'
MAP CORTEZ
PROD As of 1971, 6 tons had been mined at a grade of 0.13% U308, producing 16 lbs of U308, and 0.99% V205, producing 119 lbs of V205.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Maybe 1 & 2 (Mercantile Group)

LOCATION:
LCST UNLOCATABLE
PROD As of 1971, 58 tons had been mined at a grade of 0.26% U308, producing 301 lbs of U308, and 1.60% V205, producing 1,853 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Mayflower

LOCATION: sec. 33, T. 44 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show sec. 32.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 15 tons had been mined at a grade of 0.07% U308, producing 20 lbs of U308, and 1.25% V205, producing 374 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mc Kee Group

LOCATION: sec. 22, T. 45 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show sec. 23.
QUAD Bull Canyon 7 1/2'
MAP MUAB
PROD As of 1971, 28 tons had been mined at a grade of 0.37% U308, producing 208 lbs of U308, and 2.83% V205, producing 1,582 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1975, 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mc Millan

LOCATION:
LCST UNLOCATABLE
LCRM This deposit lies in Gypsum Valley.

SAN MIGUEL COUNTY

PROD As of 1971, 6 tons had been mined at a grade of 0.08% U308, producing 10 lbs of U308, and 1.65% V205, producing 198 lbs of V208.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

PROD As of 1971, 125 tons had been mined at a grade of 0.28% U308, producing 708 lbs of U308, and 1.35% V205, producing 3,314 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Memphis 1 & 2

LOCATION: sec. 29, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 30, 31, 32.
 QUAD Horse Range Mesa 7 1/2' & Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 32 tons had been mined at a grade of 0.14% U308, producing 92 lbs of U308, and 1.79% V205, producing 1,146 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mickey 3 (Mickey Group)

LOCATION: sec. 20, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 14 tons had been mined at a grade of 0.08% U308, producing 22 lbs of U308, and 0.52% V205, producing 147 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mercantile (4, AEC Mining Lease) (C-SR-11, DOE Lease Tract)

LOCATION: sec. 18, T. 43 N., R. 19 W.
 QUAD Verdure 1 NE 7 1/2' & Egnar 7 1/2'
 MAP CORTEZ
 PROD See C-SR-11, DOE Lease Tract.
 HOST Jurassic Morrison Formation, Salt Wash Member; light brown, fine- to medium-grained sandstone, and gray and green mudstone with abundant carbonized plant remains and sparse logs.
 MNZ Uranium, vanadium, uraninite, carnotite - tyuyamunite.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. J., 1967, U.S.G.S. Prof. Paper 538, 121 p. (p. 12).

Midnight

LOCATION:
 LCST UNLOCATABLE
 PROD As of 1971, 1,372 tons had been mined at a grade of 0.18% U308, producing 4,889 lbs of U308, and 1.36% V205, producing 37,359 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Mesa 7

LOCATION: sec. 31, T. 44 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 33, T. 46 N., R. 19 W.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 23 tons had been mined at a grade of 0.08% U308, producing 38 lbs of U308, and 1.45% V205, producing 668 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Midnight

LOCATION: NE1/4 sec. 27, T. 44 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 589 tons had been mined at a grade of 0.17% U308, producing 2,061 lbs of U308, and 1.38% V205, producing 16,296 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mesa Mill

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Slick Rock district.

Midnight

LOCATION: NE1/4 sec. 27, T. 44 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,097 tons had been mined at a grade of 0.16% U308, producing 3,545 lbs of U308, and 1.22% V205, producing 26,664 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

SAN MIGUEL COUNTY

Mike 1

LOCATION: sec. 36, T. 44 N., R. 17 W.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 1 ton had been mined at a grade of 0.95% U308, producing 19 lbs of U308, and 5.90% V205, producing 118 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mineral Mines

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Slick Rock district.
 PROD As of 1971, 556 tons had been mined at a grade of 0.28% U308, producing 3,166 lbs of U308, and 2.83% V205, producing 31,486 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Mineral Mountain 3

LOCATION:
 LCST UNLOCATABLE
 PROD As of 1971, 242 tons had been mined at a grade of 0.18% U308, producing 890 lbs of U308, and 1.68% V205, producing 8,120 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Mineral Mountain 3 & 4

LOCATION:
 LCST UNLOCATABLE
 PROD As of 1971, 29 tons had been mined at a grade of 0.8% U308, producing 46 lbs of U308, and 1.16% V205, producing 675 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Mineral Mountain 4

LOCATION:
 LCST UNLOCATABLE
 PROD As of 1971, 79 tons had been mined at a grade of 0.39% U308, producing 623 lbs of U308, and 3.15% V205, producing 4,976 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Mineral Mountain 5

LOCATION:
 LCST UNLOCATABLE

PROD As of 1971, 339 tons had been mined at a grade of 0.22% U308, producing 1,514 lbs of U308, and 1.89% V205, producing 12,835 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Mineral Mountain 6

LOCATION:
 LCST UNLOCATABLE
 PROD As of 1971, 84 tons had been mined at a grade of 0.23% U308, producing 379 lbs of U308, and 1.68% V205, producing 2,829 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Mineral Mountain 7

LOCATION:
 LCST UNLOCATABLE
 PROD As of 1971, 243 tons had been mined at a grade of 0.19% U308, producing 944 lbs of U308, and 1.73% V205, producing 8,397 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Mint #1

LOCATION: S1/2NE1/4 sec. 35, T. 45 N., R. 20 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Mint #13

LOCATION: E1/2SW1/4 sec. 36, T. 45 N., R. 20 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Mitchel and Archer Group (Baby Ruth, September Horn, Diana)

LOCATION: sec. 14, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 427 tons had been mined at a grade of 0.17% U308, producing 1,469 lbs of U308, and 1.91% V205, producing 16,332 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Montezuma

LOCATION: sec. 19, T. 43 N., R. 18 W.
 LCRM This deposit lies in the Speed Patch area, Slick Rock district.

SAN MIGUEL COUNTY

QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 4 tons had been mined at a grade of 0.21% U308, producing 17 lbs of U308, and 2.29% V205, producing 183 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Monument 4

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Slick Rock district.
 PROD As of 1971, 14 tons had been mined at a grade of 0.12% U308, producing 33 lbs of U308, and 1.83% V205, producing 513 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Moqui Jug (Depression, Dorothy May)

LOCATION: W1/2 sec. 29, T. 43 N., R. 18 W.
 LCRM This deposit lies in the Speed Patch area.
 QUAD Egnar 7 1/2' and Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 12,389 tons had been mined at a grade of 0.09% U308, producing 23,275 lbs of U308, and 1.94% V205, producing 481,677 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Mortgage Lifter (Radium Group)

LOCATION: sec. 4, T. 43 N., R. 19 W.
 LCRM Also sec. 9. This deposit lies in the Slick Rock district.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 25 tons had been mined at a grade of 0.28% U308, producing 139 lbs of U308, and 1.54% V205, producing 772 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mucho (Grande)

LOCATION: sec. 1, T. 42 N., R. 18 W.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 724 tons had been mined at a grade of 0.19% U308, producing 2,743 lbs of U308, and 2.00% V205, producing 29,018 lbs of V205.
 HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mule Group (Horseshoe Group)

LOCATION: T. 43 N., R. 18 W.
 LCST UNLOCATABLE
 LCRM This deposit lies in the Slick Rock district.
 PROD As of 1971, 4 tons had been mined at a grade of 0.13% U308, producing 10 lbs of U308, and 1.80% V205, producing 144 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Muleshoe 6

LOCATION: sec. 22, T. 43 N., R. 18 W.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 20 tons had been mined at a grade of 0.14% U308, producing 57 lbs of U308, and 1.31% V205, producing 524 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Murietta

LOCATION: sec. 25, T. 45 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 26 & 36.
 QUAD Bull Canyon 7 1/2' & Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 877 tons had been mined at a grade of 0.19% U308, producing 3,328 lbs of U308, and 0.88% V205, producing 15,469 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Mystery (Muleshoe Group)

LOCATION: sec. 26, T. 43 N., R. 18 W.
 LCRM This deposit lies in the Slick Rock district.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 115 tons had been mined at a grade of 0.14% U308, producing 330 lbs of U308, and 1.58% V205, producing 3,625 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

SAN MIGUEL COUNTY

National

LOCATION:

LCST UNLOCATABLE
 LCRM This deposit lies in the Slick Rock district.
 PROD As of 1971, 7 tons had been mined at a grade of 0.09% U308, producing 13 lbs of U308, and 2.86% V205, producing 400 lbs of V205.
 HOST Jurassic Morrison Formation.
 DJI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Nava Jo

LOCATION: sec. 22, T. 45 N., R. 18 W.
 PROD As of 1971, 41 tons had been mined at a grade of 0.41% U308, and 1.491% V205.
 HOST Brushy Basin Member of the Jurassic Morrison Formation.
 DJI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Nave Jo

LOCATION: sec. 19, T. 45 N., R. 18 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 1 ton had been mined at a grade of 0.20% U308, producing 4 lbs of U308, and 0.50% V205, producing 10 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DJI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Nellie Gray

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Slick Rock district.
 PROD As of 1971, 5 tons had been mined at a grade of 0.20% U308, producing 20 lbs of U308, and 2.23% V205, producing 225 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DJI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

New Deal

LOCATION: sec. 26, T. 45 N., R. 18 W.
 LCST UNLOCATABLE
 PROD As of 1971, 259 tons had been mined at a grade of 0.17% U308, producing 902 lbs of U308, and 1.36% V205, producing 7,033 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DJI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

New Discovery (Barbara Jo Claim, White Spur)

LOCATION: sec. 35, T. 43 N., R. 11 W.
 QUAD Little Cone 7 1/2'
 MAP CORTEZ

MNZ Uranium, vanadium.
 DJI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Nigger Head (Radium Group)

LOCATION: sec. 36, T. 44 N., R. 20 W.
 LCRM This deposit lies in the Slick Rock district, west of Horse Range Mesa.
 QUAD Mount Peale 4 SE 7 1/2'
 MAP MOAB
 PROD As of 1971, 21 tons had been mined at a grade of 0.12% U308, producing 51 lbs of U308, and 1.54% V205, producing 646 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DJI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Norma Jean No. 1 & 2

LOCATION: sec. 29, T. 43 N., R. 18 W.
 QUAD Egnar 7 1/2' & Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 4,793 tons had been mined at a grade of 0.33% U308, producing 31,356 lbs of U308, and 1.82% V205, producing 174,384 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DJI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

North Continent Mill (C-SR-13, DOE Lease Tract)

LOCATION: SW1/4SE1/4 sec. 30, T. 44 N., R. 16 W.
 PROD As of 1971, 6 tons had been mined at a grade of 0.11% U308, producing 13 lbs of U308, and 0.79% V205, producing 95 lbs of V205. This ore came from stockpile cleanup at the North Continent Mill at Slick Rock, Colorado, in 1952.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DJI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

North Slope 2

LOCATION: sec. 5, T. 43 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,025 tons had been mined at a grade of 0.17% U308, producing 3,426 lbs of U308, and 0.97% V205, producing 19,985 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DJI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

SAN MIGUEL COUNTY

Northern 5 & 6

LOCATION: sec. 22, T. 44 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 31,936 tons had been mined at a grade of 0.23% U308, producing 144,724 lbs of U308, and 1.64% V205, producing 1,044,613 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Northern Light

LOCATION: SW1/4 sec. 19, T. 44 N., R. 18 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 338 tons had been mined at a grade of 0.41% U308, producing 2,786 lbs of U308, and 2.00% V205, producing 13,547 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Old Mexico

LOCATION: SW1/4 sec. 25, T. 45 N., R. 18 W.
 LCRM Mexico Group, Bull Canyon district.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 9 tons had been mined at a grade of 0.17% U308, producing 30 lbs of U308, and 0.78% V205, producing 140 lbs of V205.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Omega

LOCATION: sec. 35, T. 44 N., R. 11 W.
 QUAD Placerville 7 1/2'
 MAP MOAB
 PROD As of 1971, 8 tons had been mined at a grade of 0.09% U308, producing 14 lbs of U308, and 1.68% V205, producing 269 lbs of V205.
 HOST Jurassic Entrada Sandstone; light gray to buff, fine-grained sandstone.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Owensby

LOCATION: sec. 16, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 69 tons had been mined at a grade of 0.16% U308, producing 221 lbs of U308, and 1.67% V205, producing 2,300 lbs of V205.

MNZ Uranium, vanadium.
 RMKS Possibly also known as Ownbey Group (Finch, 1967, U.S.G.S. Prof. Paper 538, p. 12).
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Painted Rock

LOCATION: sec. 31, T. 44 N., R. 18 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 4 tons had been mined at a grade of 0.30% U308, producing 24 lbs of U308, and 1.48% V205, producing 118 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Parrot Group

LOCATION: SW1/4 sec. 26, T. 43 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 27, 34 & 35.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 5,298 tons had been mined at a grade of 0.20% U308, producing 21,247 lbs of U308, and 1.55% V205, producing 164,202 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Payday

LOCATION: sec. 34, T. 45 N., R. 18 W.
 LCRM Location from U.S. A.E.C. Production Records.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 21 tons had been mined at a grade of 0.06% U308, producing 27 lbs of U308, and 0.92% V205, producing 387 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Paystreak No. 3

LOCATION: sec. 30, T. 43 N., R. 18 W.
 LCRM This deposit lies in the Speed Patch area, Slick Rock district.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 290 tons had been mined at a grade of 0.15% U308, producing 844 lbs of U308, and 1.95% V205, producing 11,329 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

SAN MIGUEL COUNTY

Peanut Group (Mines)

LOCATION: sec. 31, T. 45 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 32.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 61,920 tons had been mined at a grade of 0.26% U308, producing 316,061 lbs of U308, and 2.30% V205, producing 2,851,891 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member; gray, very fine- to medium-grained sandstone with abundant carbonized plant remains.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado. Finch, W. I., 1967, U.S.G.S. Prof. Paper 538, (p. 12).

Pecas No. 1

LOCATION:
 LCST UNLOCATABLE
 PROD As of 1971, 6 tons had been mined at a grade of 0.03% U308, producing 3 lbs of U308, and 0.45% V205, producing 54 lbs of V205.
 HOST Jurassic Morrison Formation.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Penlgal

LOCATION: sec. 24, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 1,044 tons had been mined at a grade of 0.29% U308, producing 6,067 lbs of U308, and 2.99% V205, producing 62,429 lbs of V205.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Penju

LOCATION: sec. 7, T. 43 N., R. 16 W.
 LCRM U.S. A.E.C. Production Records also show sec. 6.
 QUAD Gypsum Gap 7 1/2'
 MAP MOAB
 PROD As of 1971, 625 tons had been mined at a grade of 0.20% U308, producing 2,439 lbs of U308, and 1.39% V205, producing 17,421 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Phillips 66 1 (one)

LOCATION: sec. 24, T. 44 N., R. 17 W.
 QUAD Gypsum Gap 7 1/2'
 MAP MOAB
 PROD As of 1971, 110 tons had been mined at a grade of 0.12% U308, producing 266 lbs of U308, and 1.96% V205, producing 4,319 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Phillura Group

LOCATION: sec. 10, T. 43 N., R. 18 W.
 QUAD Hamm Canyon 7 1/2' and Joe Davls Hill 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Pine Bug (Legln Group, Pine Berg)

LOCATION: sec. 29, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 8 tons had been mined at a grade of 0.37% U308, producing 59 lbs of U308, and 3.16% V205, producing 505 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Pinto #1

LOCATION: S1/2 sec. 30, T. 44 N., R. 19 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Pioneer

LOCATION: sec. 20, T. 44 N., R. 17 W.
 QUAD Gypsum Gap 7 1/2'
 PROD No production.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Pitchfork

LOCATION: sec. 32, T. 44 N., R. 16 W.
 LCRM U.S. A.E.C. Production Records show only sec. 33.
 QUAD Gypsum Gap 7 1/2'
 MAP MOAB
 PROD As of 1971, 19,080 tons had been mined at a grade of 0.21% U308, producing 79,510 lbs of U308, and 1.13% V205, producing 432,650 lbs of V205.
 HOST The host is the Jurassic Morrison Formation, Salt Wash Sandstone Member; light brown and gray sandstone.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

SAN MIGUEL COUNTY

DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Pointed Rock

LOCATION: sec. 31, T. 44 N., R. 18 W.
LCRM Also sec. 32.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Polaris 1

LOCATION:
LCST UNLOCATABLE
PROD As of 1971, 50 tons had been mined at a grade of 0.10% U308, producing 99 lbs of U308, and 2.61% V205, producing 2,613 lbs of V205.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Pond

LOCATION: sec. 23, T. 44 N., R. 17 W.
QUAD Gypsum Gap 7 1/2'
MAP MOAB
PROD As of 1971, 21,543 tons had been mined at a grade of 0.17% U308, producing 74,360 lbs of U308, and 1.38% V205, producing 592,547 lbs of V205.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Pour Off

LOCATION:
PROD As of 1971, 10 tons had been mined at a grade of 0.46% U308, producing 92 lbs of U308, and 2.96% V205, producing 593 lbs of V205.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Prospectors Fortune Group

LOCATION: sec. 25, T. 45 N., R. 19 W.
LCRM U.S. A.E.C. Production Records show sec. 22 - 27 and 36.
QUAD Horse Range Mesa 7 1/2' and Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 1,912 tons had been mined at a grade of 0.21% U308, producing 8,040 lbs of U308, and 0.63% V205, producing 24,060 lbs of V205.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Queen of Spades

LOCATION: sec. 18, T. 43 N., R. 18 W.
QUAD Egnar 7 1/2'
MAP CORTEZ
PROD As of 1971, 85 tons had been mined at a grade of 0.21% U308, producing 364 lbs of U308, and 2.26% V205, producing 3,841 lbs of V205.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.) U.S. A.E.C., 1971, Production Records, Colorado.

R. L. Duncan Mining Property

LOCATION: sec. 5, T. 43 N., R. 18 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
MNZ Uranium, vanadium.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.).

Radar, Early Morning

LOCATION: sec. 24, T. 45 N., R. 19 W.
LCRM U.S. A.E.C. Production Records also show sec. 9 & 30, T. 45 N., R. 18 W.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 6 tons had been mined at a grade of 0.23% U308, producing 28 lbs of U308, and 1.42% V205, producing 170 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radio

LOCATION: sec. 10, T. 44 N., R. 18 W.
LCRM Also sec. 11, 14, 15. This deposit lies in Gypsum Valley.
PROD No production.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Radium

LOCATION: sec. 5, T. 43 N., R. 19 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 10,035 tons had been mined at a grade of 0.22% U308, producing 43,284 lbs of U308, and 1.55% V205, producing 311,146 lbs of V205.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radium 1 (one)

LOCATION: sec. 5, T. 43 N., R. 19 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB

SAN MIGUEL COUNTY

PROD As of 1971, 11 tons had been mined at a grade of 0.06% U3O8, producing 14 lbs of U3O8, and 0.64% V2O5, producing 141 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radium 3

LOCATION: sec. 4, T. 43 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 431 tons had been mined at a grade of 0.20% U3O8, producing 1,739 lbs of U3O8, and 1.40% V2O5, producing 12,035 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radium 4

LOCATION: sec. 4, T. 43 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,776 tons had been mined at a grade of 0.35% U3O8, producing 191,717 lbs of U3O8, and 1.84% V2O5, producing 1,021,190 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radium 5 & 6

LOCATION: sec. 8, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 7.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 35,727 tons had been mined at a grade of 0.37% U3O8, producing 264,194 lbs of U3O8, and 1.96% V2O5, producing 1,400,954 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radium 6

LOCATION: sec. 9, T. 43 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 55 tons had been mined at a grade of 0.10% U3O8, producing 113 lbs of U3O8, and 1.02% V2O5, producing 1,125 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radium 7

LOCATION: sec. 8, T. 43 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,810 tons had been mined at a grade of 0.16% U3O8, producing 9,192 lbs of U3O8, and 1.19% V2O5, producing 66,638 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radium 8

LOCATION: sec. 9, T. 43 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 10,695 tons had been mined at a grade of 0.21% U3O8, producing 44,790 lbs of U3O8, and 1.06% V2O5, producing 226,580 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radium 9, 10 & 11

LOCATION: sec. 4, T. 43 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 52,723 tons had been mined at a grade of 0.33% U3O8, producing 52,132 lbs of U3O8, and 1.73% V2O5, producing 1,819,985 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radium 12

LOCATION: sec. 4, T. 43 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,547 tons had been mined at a grade of 0.28% U3O8, producing 14,404 lbs of U3O8, and 1.61% V2O5, producing 82,135 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radium 19

LOCATION: sec. 5, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 4.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB

SAN MIGUEL COUNTY

PROD As of 1971, 285 tons had been mined at a grade of 0.27% U308, producing 1,513 lbs of U308, and 1.25% V205, producing 7,117 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radium 22

LOCATION: sec. 32, T. 44 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 97 tons had been mined at a grade of 0.15% U308, producing 292 lbs of U308, and 0.77% V205, producing 1,503 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radium 24

LOCATION: sec. 5, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records only show sec. 4.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,473 tons had been mined at a grade of 0.23% U308, producing 11,352 lbs of U308, and 1.53% V205, producing 75,519 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radium 25

LOCATION: sec. 5, T. 43 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 8 tons had been mined at a grade of 0.02% U308, producing 3 lbs of U308, and 0.69% V205, producing 111 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radium 26 & 27

LOCATION: sec. 5, T. 43 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 950 tons had been mined at a grade of 0.18% U308, producing 3,497 lbs of U308, and 1.20% V205, producing 22,763 lbs of V205.
 HOST Jurassic Morrison Formation.

MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radium GP (Blackbird)

LOCATION: sec. 32, T. 44 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 285 tons had been mined at a grade of 0.23% U308, producing 1,304 lbs of U308, and 1.77% V205, producing 10,067 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Radium Hills

LOCATION: sec. 16, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Radium No. 29

LOCATION: NE 1/4 sec. 8, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 5.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,358 tons had been mined at a grade of 0.29% U308, producing 13,653 lbs of U308, and 1.62% V205, producing 76,270 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rainy Day

LOCATION: sec. 25, T. 45 N., R. 18 W.
 LCRM Also sec. 26.
 PROD As of 1971, 11,013 tons had been mined.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Rainy Day

LOCATION: sec. 35, T. 45 N., R. 18 W.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 7,870 tons had been mined at a grade of 0.14% U308, producing 22,223 lbs of U308, and 0.83% V205, producing 129,952 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971

SAN MIGUEL COUNTY

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rambler

LOCATION: SW1/4 sec. 9, T. 44 N., R. 17 W.
 QUAD Hamm Canyon 7 1/2' & Gypsum Gap 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,900 tons had been mined at a grade of 0.17% U308, producing 10,119 lbs of U308, and 1.11% V205, producing 64,139 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rambler

LOCATION: sec. 23, T. 45 N., R. 19 W.
 LCRM Location from U.S. A.E.C. Production Records.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 21 tons had been mined at a grade of 1.57% U308, producing 658 lbs of U308, and 6.98% V205, producing 2,932 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rat Hole

LOCATION:
 LCST UNLOCATABLE
 LCRM This deposit lies in the Georgetown area, Slick Rock district.
 PROD As of 1971, 5 tons had been mined at a grade of 0.11% U308, producing 11 lbs of U308, and 1.82% V205, producing 182 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Rattlesnake 2

LOCATION: sec. 19, T. 43 N., R. 18 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 37 tons had been mined at a grade of 0.04% U308, producing 27 lbs of U308, and 0.09% V205, producing 69 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rattlesnake 2

LOCATION: sec. 33, T. 45 N., R. 18 W.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB

PROD As of 1971, 8 tons had been mined at a grade of 0.05% U308, producing 8 lbs of U308, and 1.32% V205, producing 211 lbs of V205.

MNZ Uranium, vanadium.
 DOI 1971

REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Red Ant

LOCATION: sec. 30, T. 43 N., R. 19 W.
 QUAD Verdure 1 NE 7 1/2' & Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 28 tons had been mined at a grade of 0.21% U308, producing 118 lbs of U308, and 1.34% V205, producing 750 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Red Horse

LOCATION: SE1/4 sec. 26, T. 45 N., R. 18 W.
 QUAD Hamm Canyon 7 1/2' & Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 3,176 tons had been mined at a grade of 0.18% U308, producing 11,164 lbs of U308, and 0.97% V205, producing 61,504 lbs of V205.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Red Rock 4

LOCATION: sec. 35, T. 43 N., R. 18 W.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 4,023 tons had been mined at a grade of 0.22% U308, producing 17,622 lbs of U308, and 1.34% V205, producing 107,861 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Red Rock 5

LOCATION: sec. 35, T. 43 N., R. 18 W.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 6,693 tons had been mined at a grade of 0.27% U308, producing 35,880 lbs of U308, and 1.94% V205, producing 259,640 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

SAN MIGUEL COUNTY

Red Snake

LOCATION:

LCST UNLOCATABLE
 LCRM This deposit lies in Gypsum Valley, Little Gyp area.
 PROD As of 1971, 6 tons had been mined at a grade of 0.13% U308, producing 16 lbs of U308, and 2.67% V205, producing 320 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. D.O.E., 1977, Lease Production Records, Colorado. U.S. A.E.C., 1971, Production Records, Colorado.

QUAD Hamm Canyon 7 1/2' & Gypsum Gap 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Rex Claim

LOCATION:

LCST UNLOCATABLE
 LCRM This deposit lies in the Bull Canyon district.
 PROD As of 1971, 12 tons had been mined at a grade of 0.12% U308, producing 29 lbs of U308, and 2.24% V205, producing 537 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Red Top 1 (Horseshoe Group)

LOCATION: sec. 9, T. 44 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 6, T. 42 N., R. 17 W.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 24 tons had been mined at a grade of 0.15% U308, producing 74 lbs of U308, and 1.38% V205, producing 662 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Rim (Buckhorn, et al)

LOCATION: sec. 1, T. 42 N., R. 18 W.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 12 tons had been mined at a grade of 0.43% U308, producing 102 lbs of U308, and 4.95% V205, producing 1,189 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 RMKS May be same as "Shinarump Rim" Group mentioned in Finch, 1967, U.S.G.S. Prof. Paper 538, p. 12.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Red Top 2

LOCATION: sec. 6, T. 42 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 9, T. 44 N., R. 18 W.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 42 tons had been mined at a grade of 0.02% U308, producing 19 lbs of U308, and 0.17% V205, producing lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Riverview

LOCATION: sec. 33, T. 45 N., R. 18 W.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 264 tons had been mined at a grade of 0.21% U308, producing 1,097 lbs of U308, and 1.42% V205, producing 7,520 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Red Wing

LOCATION: sec. 23, T. 44 N., R. 17 W.
 QUAD Gypsum Gap 7 1/2'
 MAP MOAB
 PROD As of 1971, 14 tons had been mined at a grade of 0.09% U308, producing 25 lbs of U308, and 0.93% V205, producing 261 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Robert M

LOCATION: sec. 16, T. 44 N., R. 17 W.
 QUAD Hamm Canyon 7 1/2' & Gypsum Gap 7 1/2'.
 MAP MOAB
 PROD As of 1971, 44 tons had been mined at a grade of 0.16% U308, producing 144 lbs of U308, and 1.99% V205, producing 1,754 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Retribution

LOCATION: SE 1/4 sec. 9, T. 44 N., R. 17 W.

SAN MIGUEL COUNTY

Roberta Jean

LOCATION:

LCST UNLOCATABLE
 PROD As of 1971, 21 tons had been mined at a grade of 0.16% U308, producing 67 lbs of U308, and 1.69% V205, producing 709 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Rosa L

LOCATION: N1/2 sec. 15, T. 43 N., R. 18 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Rose June

LOCATION: sec. 16, T. 44 N., R. 17 W.
 LCRM Also sec. 17.
 QUAD Hamm Canyon 7 1/2' & Gypsum Gap 7 1/2'
 MAP MOAB
 PROD As of 1971, 31 tons had been mined at a grade of 0.42% U308, producing 258 lbs of U308, and 1.32% V205, producing 81 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Roy Lee

LOCATION: sec. 34, T. 43 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 35.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 2,486 tons had been mined at a grade of 0.24% U308, producing 11,778 lbs of U308, and 1.52% V205, producing 75,791 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

S. B. Group

LOCATION: sec. 11, T. 42 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 10, 12 & 14.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 5,224 tons had been mined at a grade of 0.15% U308, producing 16,036 lbs of U308, and 2.01% V205, producing 210,119 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sage II

LOCATION: sec. 32, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records only show sec. 34.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 7,622 tons had been mined at a grade of 0.30% U308, producing 45,635 lbs of U308, and 2.80% V205, producing 427,497 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Saint Jude

LOCATION: S1/2 sec. 13, T. 44 N., R. 18 W.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

San Miguel (Radium Group)

LOCATION: sec. 8, T. 43 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 3,679 tons had been mined at a grade of 0.28% U308, producing 20,532 lbs of U308, and 1.27% V205, producing 93,550 lbs of V205.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Santa Maria (Charles I and Golden Rod Group)

LOCATION: sec. 14, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 26.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 47 tons had been mined at a grade of 0.17% U308, producing 157 lbs of U308, and 2.75% V205, producing 2,587 lbs of V205.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

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Sarah Ellen (Muleshoe Group)

LOCATION: W1/2 sec. 26, T. 43 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 13, 14, 22, and 23.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 396 tons had been mined at a grade of 0.18% U3O8, producing 1,389 lbs of U3O8, and 1.76% V2O5, producing 13,962 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sarah Jane

LOCATION:
 LCST UNLOCATABLE
 PROD As of 1971, 24 tons had been mined at a grade of 0.24% U3O8, producing 113 lbs of U3O8, and 2.34% V2O5, producing 1,121 lbs of V2O5.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Sarah M. (Muleshoe Group, Mystery Group)

LOCATION: sec. 26, T. 43 N., R. 18 W.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 382 tons had been mined at a grade of 0.15% U3O8, producing 1,112 lbs of U3O8, and 2.26% V2O5, producing 17,233 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Schlee (Golden Rod Group)

LOCATION: sec. 26, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show R. 18 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 14 tons had been mined at a grade of 0.19% U3O8, producing 54 lbs of U3O8, and 2.90% V2O5, producing 812 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sibley

LOCATION: sec. 17, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 223 tons had been mined at a grade of 0.22% U3O8, producing 977 lbs of U3O8, and 2.83% V2O5, producing 12,609 lbs of V2O5.
 MNZ Uranium, vanadium.

DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Silver Chief

LOCATION: sec. 12, T. 42 N., R. 9 W.
 QUAD Telluride 7 1/2'
 MAP CORTEZ
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Single Jack

LOCATION: sec. 26, T. 44 N., R. 11 W.
 LCRM This deposit lies in the Slick Rock district.
 QUAD Placerville 7 1/2'
 MAP MOAB
 PROD As of 1971, 34 tons had been mined at a grade of 0.09% U3O8, producing 60 lbs of U3O8, and 3.23% V2O5, producing 2,193 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Slick Rim

LOCATION: sec. 16, T. 45 N., R. 18 W.
 QUAD Bull Canyon 7 1/2'
 MAP MUAB
 PROD As of 1971, 55 tons had been mined at a grade of 0.29% U3O8, producing 314 lbs of U3O8, and 1.91% V2O5, producing 2,098 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Slick Rock Mill

LOCATION: SE1/4 sec. 25, T. 44 N., R. 19 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 137 tons had been mined at a grade of 0.45% U3O8, producing 1,225 lbs of U3O8, and 1.89% V2O5, producing 5,179 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Snyder (Snyder and Peterson)

LOCATION: SE1/4 sec. 2, T. 42 N., R. 20 W.
 LCRM U.S. A.E.C. Production Records also show sec. 11.
 QUAD Verdure 1 NE 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 97,727 tons had been mined at a grade of 0.17% U3O8, producing 334,770

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lbs of U3O8, and 1.22% V2O5, producing 2,392,738 lbs of V2O5.

HUST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Spring

LOCATION: LCRM This deposit lies in the Long Ridge area, Gypsum Valley.
 PROD As of 1971, 34 tons had been mined at a grade of 0.10% U3O8, producing 69 lbs of U3O8, and 1.00% V2O5, producing 681 lbs of V2O5.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Spud Patch

LOCATION: sec. 29, T. 43 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records show location as Slick Rock district.
 PROD As of 1971, 1,525 tons had been mined at a grade of 0.16% U3O8, producing 4,992 lbs of U3O8, and 2.03% V2O5, producing 62,048 lbs of V2O5.
 HUST The host is the Jurassic Morrison Formation, Salt Wash Sandstone Member, buff and gray medium-grained sandstone, shaly sandstone, grit, and conglomerate, with abundant carbonized plant remains and sparse logs.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Star

LOCATION: sec. 30, T. 43 N., R. 18 W.
 LCRM This deposit lies in the Speed Patch area.
 PROD As of 1971, 7 tons had been mined at a grade of 0.14% U3O8, producing 19 lbs of U3O8, and 1.19% V2O5, producing 167 lbs of V2O5.
 HUST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Start

LOCATION: sec. 30, T. 43 N., R. 18 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 7 tons had been mined at a grade of 0.14% U3O8, producing 19 lbs of U3O8, and 1.19% V2O5, producing 167 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

State Line

LOCATION: SW1/4NE1/4 sec. 23, T. 44 N., R. 20 W.
 DOI 1958
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E. Uranium - vanadium deposits of the Uravan Mineral Belt, 1958.

Strawberry Roan

LOCATION: sec. 32, T. 43 N., R. 19 W.
 LCRM U.S. A.E.C. Production Records also show sec. 31.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 7,829 tons had been mined at a grade of 0.35% U3O8, producing 55,275 lbs of U3O8, and 2.86% V2O5, producing 448,066 lbs of V2O5.
 HUST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, uraninite (coffinite), high vanadium, intermed. lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Summit Incline 1 (Summit No. 21)

LOCATION: sec. 28, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 DVEL Suncup (Puckett)
 PROD As of 1971, 16,403 tons had been mined at a grade of 0.20% U3O8, producing 65,165 lbs of U3O8, and 1.12% V2O5, producing 368,793 lbs of V2O5.
 HUST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Suncup (Puckett)

LOCATION: SW1/4 sec. 31, T. 43 N., R. 17 W.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 16,130 tons had been mined.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sunday Group

LOCATION: S1/2 sec. 15, T. 44 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show N1/2 sec. 24 and sec. 29, T. 43 N., R. 18 W.
 QUAD Hamm Canyon 7 1/2'
 MAP MDAB
 PROD As of 1971, 26,316 tons had been mined at a grade of 0.27% U3O8, producing 143,221 lbs of U3O8, and 2.11% V2O5, producing 1,111,112 lbs of V2O5.
 HUST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

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DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sundown

LOCATION: sec. 27, T. 44 N., R. 19 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 85 tons had been mined at a grade of 0.25% U308, producing 419 lbs of U308, and 2.45% V205, producing 4,161 lbs of V205.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sundown Group

LOCATION: sec. 22, T. 45 N., R. 19 W.
LCRM Also sec. 25, 26, 27 and 34.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 46 tons had been mined at a grade of 0.26% U308, producing 242 lbs of U308, and 1.48% V205, producing 1,364 lbs of V205.
HOST The host is the Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, Intermed. lime.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Sunnyside

LOCATION: 1/2 sec. 32, T. 44 N., R. 18 W.
LCRM U.S. A.E.C. Production Records also show E1/2 of sec. 31.
QUAD Horse Range Mesa 7 1/2' and Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 227 tons had been mined at a grade of 0.15% U308, producing 699 lbs of U308, and 1.12% V205, producing 5,073 lbs of V205.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sunrise

LOCATION: sec. 5, T. 43 N., R. 19 W.
LCRM U.S. A.E.C. Production Records show location as sec. 33, 34, T. 46 N., R. 18 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 12,130 tons had been mined at a grade of 0.33% U308, producing 81,254 lbs of U308, and 1.89% V205, producing 458,160 lbs of V205.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sunrise 1 (one)

LOCATION: sec. 8, T. 43 N., R. 19 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 8,295 tons had been mined at a grade of 0.27% U308, producing 44,928 lbs of U308, and 1.65% V205, producing 274,283 lbs of V205.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sunrise 3, 4 and 5

LOCATION: sec. 8, T. 43 N., R. 19 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971 666 tons had been mined at a grade of 0.16% U308, producing 2,191 lbs of U308, and 0.37% V205, producing 4,939 lbs of V205.
HOST The host is the Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Sunrise and Patented Land

LOCATION: sec. 5, T. 43 N., R. 19 W.
LCRM Also sec. 8
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 16,749 tons had been mined at a grade of 0.32% U308, producing 106,644 lbs of U308, and 2.04% V205, producing 683,173 lbs of V205.
HOST The host is the Jurassic Morrison Formation.
MNZ Carnotite - tyuyamunite, high vanadium, low lime.
DOI 1971
REF U.S. A.E.C., 1971, Production Records, Colorado.

Sunshine 6

LOCATION: sec. 21, T. 44 N., R. 17 W.
LCRM U.S. A.E.C. Production Records also show sec. 34.
QUAD Gypsum Gap 7 1/2' and Hamm Canyon 7 1/2'
MAP MOAB
PROD As of 1971, 29 tons had been mined at a grade of 0.16% U308, producing 93 lbs of U308, and 1.70% V205, producing 988 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Tailhoft

LOCATION: SW1/4 sec. 27, T. 44 N., R. 19 W.

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LCRM U.S. A.E.C. Production Records also show sec. 28.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 3,206 tons had been mined at a grade of 0.32% U3O8, producing 20,327 lbs of U3O8, and 2.03% V2O5, producing 130,176 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Texas Chief 1

LOCATION: sec. 28, T. 43 N., R. 19 W.
 LCRM This deposit lies in the Slick Rock district.
 PROD As of 1971, 28 tons had been mined at a grade of 0.08% U3O8, producing 46 lbs of U3O8, and 0.35% V2O5, producing 198 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Tiny

LOCATION: sec. 30, T. 44 N., R. 16 W.
 LCRM U.S. A.E.C. Production Records also show sec. 25, T. 44 N., R. 17 W.
 QUAD Gypsum Gap 7 1/2'
 MAP MOAB
 PROD As of 1971, 3,118 tons had been mined at a grade of 0.18% U3O8, producing 11,346 lbs of U3O8, and 1.40% V2O5, producing 87,026 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Topaz Group

LOCATION: sec. 9, T. 44 N., R. 18 W.
 LCRM Also sec. 10, 11, 14-16.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Two Bar

LOCATION: sec. 24, T. 44 N., R. 17 W.
 QUAD Gypsum Gap 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,258 tons had been mined at a grade of 0.17% U3O8, producing 4,255 lbs of U3O8, and 1.96% V2O5, producing 49,215 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.

DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Uintah

LOCATION: sec. 28, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,259 tons had been mined at a grade of 0.17% U3O8, producing 211 lbs of U3O8, and 0.96% V2O5, producing 1,194 lbs of V2O5.
 HOST The host is the Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, intermed. lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Uintah 2 Lode

LOCATION: sec. 28, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP MOAB
 PROD As of 1971, 36 tons had been mined at a grade of 0.17% U3O8, producing 124 lbs of U3O8, and 1.60% V2O5, producing 1,151 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Uncle Sam 1

LOCATION: S1/2 sec. 10, T. 44 N., R. 18 W.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,916 tons had been mined at a grade of 0.21% U3O8, producing 12,520 lbs of U3O8.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Uncle Sam 2

LOCATION: sec. 6, T. 42 N., R. 17 W.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 300 tons had been mined at a grade of 0.23% U3O8, producing 1,371 lbs of U3O8, and 2.09% V2O5, producing 12,560 lbs of V2O5.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Valley View

LOCATION: sec. 19, T. 45 N., R. 18 W.
 QUAD Anderson Mesa 7 1/2'
 MAP MOAB

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PROD As of 1971, 40 tons had been mined at a grade of 0.21% U3O8, producing 172 lbs of U3O8, and 1.69% V2O5, producing 1,355 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Van

LOCATION:

LCRM This deposit lies in the Uravan district.
 PROD As of 1971, 30 tons had been mined at a grade of 0.18% U3O8, producing 110 lbs of U3O8, and 1.70% V2O5, producing 1,019 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Vanadium 7

LOCATION: sec. 23, T. 44 N., R. 17 W.
 LCRM This deposit lies in Gypsum Valley.
 QUAD Gypsum Gap 7 1/2'
 MAP MOAB
 PROD As of 1971, 6 tons had been mined at a grade of 0.21% U3O8, producing 25 lbs of U3O8, and 0.84% V2O5, producing 101 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Vanadium (Middle Group)

LOCATION: sec. 31, T. 44 N., R. 18 W.
 LCRM This deposit lies in the Slick Rock district.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 PROD As of 1971, 190 tons had been mined at a grade of 0.20% U3O8, producing 762 lbs of U3O8, and 0.82% V2O5, producing 3,132 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Vanadium Queen

LOCATION: sec. 12, T. 44 N., R. 20 W.
 LCRM U.S. A.E.C. Production Records show location as sec. 23, T. 47 N., R. 17 W (?); sec. 1-7, 30-36, T. 44 N., R. 19 W.
 QUAD Mount Peale 4 SE 7 1/2'
 MAP MOAB
 PROD By 1971, 2,273 tons had been mined at a grade of 0.36% U3O8, producing 16,544 lbs of U3O8, and 1.23% V2O5, producing 56,024 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Vanura Claims

LOCATION: sec. 11, T. 44 N., R. 18 W.
 QUAD Hamm Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 43 tons had been mined at a grade of 0.09% U3O8, producing 77 lbs of U3O8, and 1.11% V2O5, producing 956 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, Intermed. lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Veta Med Mine

LOCATION: sec. 19, T. 44 N., R. 18 W.
 QUAD Horse Range Mesa 7 1/2'
 MAP MOAB
 MNZ Uranium, vanadium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.).

Victor

LOCATION: sec. 7, T. 43 N., R. 16 W.
 LCRM U.S. A.E.C. Production Records also show R. 19 W.
 QUAD Gypsum Gap 7 1/2'
 MAP MOAB
 PROD As of 1971, 5 tons had been mined at a grade of 0.16% U3O8, producing 16 lbs of U3O8, and 1.45% V2O5, producing 145 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Victor 2

LOCATION: sec. 20, T. 43 N., R. 19 W.
 QUAD Egnar 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 430 tons had been mined at a grade of 0.17% U3O8, producing 1,474 lbs of U3O8, and 1.11% V2O5, producing 9,515 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low lime.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Virginia

LOCATION: sec. 19, T. 43 N., R. 18 W.
 PROD As of 1971, 10 tons had been mined at a grade of 0.23% U3O8, producing 46 lbs of U3O8, and 2.95% V2O5, producing 589 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

SAN MIGUEL COUNTY

Wally (Wally 1, Double Jack, Double Buck)

LOCATION: sec. 14, T. 43 N., R. 18 W.
 LCRM U.S. A.E.C. Production Records also show sec. 15.
 QUAD Joe Davis Hill 7 1/2'
 MAP CORTEZ
 PROD As of 1971, 1,375 tons had been mined at a grade of 0.26% U3O8, producing 7,019 lbs of U3O8, and 1.76% V2O5, producing 48,280 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, Intermed. Ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Weatherly Claims (Evans Claims, Black King No. 5)

LOCATION: T. 44 N., R. 11 W.
 LCST UNLOCATABLE
 QUAD Placerville 7 1/2'
 MAP MOAB
 HOST Triassic Dolores Formation and Permian Cutler Formation. Fault breccia and gouge in quartz conglomerate and sandy shale; with abundant hard "hydrocarbon" and sparse viscous asphalt.
 MNZ Uranium, vanadium, uraninite, autunite, torbernite, coffinite, uranophane.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.). Finch, W. I., 1967, U.S. Geol. Survey Prof. Paper 538, p. 13.

Wedding Bell Group (Ground Hog Claims)

LOCATION: NE1/4 sec. 21, T. 45 N., R. 18 W.
 LCRM Also sec. 16 and 22, Wedding Bell Mountain area, Bull Canyon district.
 QUAD Bull Canyon 7 1/2'
 MAP MOAB
 PROD As of 1971, 1,530 tons of ore were mined at grades of 0.33% U3O8 and 1.5% V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

White Star and Black King Claims

LOCATION: sec. 35, T. 44 N., R. 11 W.
 QUAD Placerville 7 1/2'
 MAP MOAB
 HOST Triassic Dolores Formation & Permian Cutler Formation. Fault gouge in a conglomerate with abundant hard "hydrocarbon".
 MNZ Uranium, vanadium, uraninite, coffinite.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.). Finch, W. I., 1967, U.S. Geol. Survey Prof. Paper 538, p. 13.

Wilmarth

LOCATION: sec. 24, T. 44 N., R. 17 W.
 QUAD Gypsum Gap 7 1/2'
 MAP MOAB

PROD As of 1971, 143 tons had been mined at a grade of 0.11% U3O8, producing 318 lbs of U3O8, and 1.17% V2O5, producing 3,352 lbs of V2O5.
 MNZ Uranium, vanadium.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Windswept

LOCATION: sec. 15, T. 44 N., R. 17 W.
 LCRM U.S. A.E.C. Production Records also show sec. 14, 22, 23.
 QUAD Gypsum Gap 7 1/2'
 MAP MOAB
 PROD As of 1971, 2,764 tons had been mined at a grade of 0.16% U3O8, producing 8,928 lbs of U3O8, and 0.99% V2O5, producing 54,527 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low Ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Windy Day (Bell)

LOCATION: sec. 8, T. 43 N., R. 16 W.
 QUAD Gypsum Gap 7 1/2'
 MAP MOAB
 PROD As of 1971, 506 tons had been mined at a grade of 0.21% U3O8, producing 2,167 lbs of U3O8, and 2.64% V2O5, producing 26,749 lbs of V2O5.
 HOST Jurassic Morrison Formation.
 MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low Ilme.
 DOI 1971
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Wyoming

LOCATION:
 LCRM This deposit lies in the Slick Rock district.
 PROD As of 1971, 40 tons had been mined at a grade of 0.26% U3O8, producing 207 lbs of U3O8, and 1.86% V2O5, producing 1,488 lbs of V2O5.
 HOST Jurassic Morrison Formation, Salt Wash Member.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Yellow Girl

LOCATION: NE1/4 sec. 13, T. 44 N., R. 20 W.
 DOI 1957
 REF Hague, R. S., Goldenstein, S. J., and Blakey, E., 1958, Uranium - vanadium deposits of the Uravan Mineral Belt.

Yellow Girl (Lower Group)

LOCATION: NE1/4 sec. 13, T. 44 N., R. 13 W.
 QUAD Oak Hill 7 1/2'
 MAP MOAB

SAN MIGUEL COUNTY

PROD As of 1971, 349 tons had been mined at a grade of 0.20% U308, producing 1,428 lbs of U308, and 1.16% V205, producing 8,127 lbs of V205.
HOST Jurassic Morrison Formation, Salt Wash Member.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Yellowbird (Radium)

LOCATION: sec. 4, T. 43 N., R. 19 W.
QUAD Horse Range Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 3,802 tons had been mined at a grade of 0.31% U308, producing 23,521 lbs of U308, and 1.81% V205, producing 137,286 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Yorkton

LOCATION: sec. 19, T. 45 N., R. 18 W.
LCRM U.S. A.E.C. Production Records show sec. 13 & 14.
QUAD Anderson Mesa 7 1/2'
MAP MOAB
PROD As of 1971, 13 tons had been mined at a grade of 0.30% U308, producing 79 lbs of U308, and 1.93% V205, producing 502 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

Zebra Claims AN (Yellow Jacket, D. Hattie Claims)

LOCATION: sec. 15, T. 43 N., R. 16 W.
QUAD Dawson Draw 7 1/2' & McKenna Peak 7 1/2'
MAP CORTEZ
PROD As of 1971, 28 tons had been mined at a grade of 0.07% U308, producing 41 lbs of U308, and 1.59% V205, producing 678 lbs of V205.
HOST Jurassic Morrison Formation.
MNZ Uranium, vanadium, carnotite - tyuyamunite, high vanadium, low ilme.
DOI 1971
REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1971, Production Records, Colorado.

SEDGWICK COUNTY

There are no reported occurrences of uranium in this county.

The geology of the county is very simple, consisting of flat-lying Tertiary and Quaternary sediments.

Potential for uranium resources in the county is small. The Ogallala Formation is the most favorable unit in the county for such resources.

SUMMIT COUNTY

No recorded production of uranium is reported in Summit County. Only three occurrences of uranium have been reported in the county, and the validity of one is questionable.

Geologically, the county is quite complex. Its southern part lies astride the Colorado mineral belt in the Park Range and includes the mining districts of Breckenridge, Montezuma, and Kokomo. The northern half includes the Gore Range and the Williams Forks Mountains separated by the valley of the Blue River.

Precambrian, Paleozoic, and Tertiary rocks are intermingled in all of the mountain ranges. Quaternary and Cretaceous rocks are found in the valley of the Blue River.

Potential for reserves to be found in the county appears to be small, due to the unfavorable host-rock types that occur in the county. Because of the complexity of structures and intrusions, the most likely occurrences that would be found in the county would be the vein-type or igneous-type.

SUMMIT COUNTY

Como Claims

LOCATION: sec. 30, T. 6 S., R. 77 W.
MAP LEADVILLE
MNZ Uranium.
DOI 1975
REF U.S. Bur. of Mines, 1977 (Unpubl.).

Loveland Pass

LOCATION: T. 4 S., R. 76 W.
LCST UNSURVEYED
LCRM Just west of Pass Lake.
MAP DENVER
HOST Precambrian Idaho Springs Formation and
Precambrian granite.
STRC Area is in the Loveland Pass-Berthoud Pass
shear zone with moderate to intense shear
in the rocks of the area.
MNZ 0.031% to 0.964% U308 assay by Charlie Parker
reported.
RMKS Claims located as the Tet, Pete, Nell and
Sher Claims.
DOI 1977
REF Western Nuclear Inc. submittal file, 1977.

Unnamed No. 1

LOCATION: sec. 22, T. 6 S., R. 76 W.
MAP DENVER
RNG 2 x bg
STRC Fissure vein.
MNZ 0.027% eU308, cerussite, pyrolusite, ilmonite.
DOI 1953
REF U.S. A.E.C., 1966, Preliminary Reconnaissance
Reports, Summit County, Colorado.

TELLER COUNTY

Little uranium has been produced from Teller County. Records show that by 1971, 401 tons of ore were mined that yielded 1,226 lb of U_3O_8 .

The geology of the county is not complex. It is almost entirely underlain by Precambrian igneous rocks, mostly the Pike's Peak Granite. Scattered volcanics are found in the southern part of the county, and some Tertiary lake beds lie along the western edge. A large graben near the town of Woodland Park has preserved Cambrian to Mississippian sediments. Uranium occurrences are recorded in almost all these rock types, except for the Paleozoic sediments found in the graben.

Only five mines or prospects out of 13 total uranium occurrences in the county have recorded uranium production. All of these mines have produced from one formation, the Tallahassee Creek Conglomerate. The producing mines include Abril 2, 6, 8, Genevieve Lode, High Park Prospect, McVey Lease, and SWQ NEQ, sec. 36. Three of these producers are clustered in the southwestern corner of the county. One is on Grouse Mountain southwest of Victor. The other producing mine is near Rhyolite Mountain north of the town of Cripple Creek. Those three producers all occur in the Tertiary Tallahassee Creek Conglomerate in an area known as High Park. This area was extensively explored in the 1950's, and recent exploration carried out by Cyprus Mines has found economic reserves at the High Park Prospect. In 1977 a small pilot open pit was under development at this site to test the feasibility of mining. Mining at High Park Prospect is planned to commence at the same time the Hansen Ore Body at Tallahassee Creek in Fremont County begins production.

The SWQ NEQ, sec. 36 mine on Grouse Mountain has produced approximately 76 percent of the recorded tonnage mined for uranium in the county. This mine also is reported to be in the Tallahassee Creek Conglomerate.

The last-mentioned producer is the Genevieve Lode north of Cripple Creek. It is reported to occur in Tertiary volcanics, tuffs, and in a conglomeratic sandstone possibly within the Tallahassee Creek Conglomerate.

The potential for more reserves to be found in the county is high. All producing mines in Teller County are within the Tallahassee Creek Conglomerate, which is the host for the large Hansen Ore Body in the Tallahassee Creek area. Therefore, this formation will become a high-priority exploration target. Other rock showing potential are the Florissant lake beds. These sediments were explored near the towns of Divide and Lake George (Del Rio, 1960, p. 364) in the 1950's. Exploration was also carried out at these localities in 1976-77. It is very likely that these areas contain uranium reserves, but we were not able to document them. Another potential host for uranium resources in the county is the Mt. Rosa alkaline granite, a series of granitic bodies that extend from Teller into El Paso County. A number of occurrences associated with this granite are noted in El Paso County with one in Teller County. The areas where this granite is sheared and/or altered have potential for uranium occurrences and resources. For more information on this particular host see Murphy, M., Wollenberg, H., Strisower, B., and others, 1978, Uranium in Alkaline Rocks, U.S. Department of Energy GJBX078(78), p. 50.

Uraninite and uranothorite are found in small pegmatites within the Pike's Peak Granite. However, these are too small to be considered economic.

In conclusion, rock types and structures in the county have potential for hosting uranium resources. The small historical production belies the future potential for uranium resources in the county.

TELLER COUNTY

Abril Nos. 2,6,8

LOCATION: NE1/4 sec. 30, T. 15 S., R. 70 W.
 LCRM Occurrence is on Four Mile Creek 1/2 mile north of Booger Red Hill.
 QUAD Cover Mountain 15'
 MAP PUEBLO
 PROD In 1961, 8 tons were mined at a grade of 0.18% U308, producing 29 lbs of U308.
 HOST Oligocene Tallahassee Creek Conglomerate, conglomeratic sandstone associated with volcanics.
 MNZ Autunite and uraninite.
 DOI 1973
 REF U.S. Geol. Survey, 1977, CRIB File. Young, P., and Mickle, D. G., 1976. U.S. A.E.C., 1971, Production Records, Colorado. U.S. Geol. Survey, 1964, Mineral and Water Resources of Colorado, p. 140.

Carl Claim No. 1

LOCATION: sec. 7, T. 15 S., R. 68 W.
 LCST UNCERTAIN
 LCRM The directions to claim are as follows: "From the junction of S. Tejon St. and Cheyenne Blvd. in Colorado Springs go west on Cheyenne Blvd. for 2.9 miles and take a right fork onto Gold Camp Road. Proceed for 3.2 miles and take left fork toward Cripple Creek for 8.9 miles. Now take a left fork for .4 mile and a right fork for 3.2 miles. Then take left fork for 0.15 mile and a right fork onto work road for .7 mile. Park and go up hill in direction of N41°W for 350 yds to claim".
 QUAD Pikes Peak 7 1/2'
 MAP PUEBLO
 BKG .08 mr/hr
 RNG .08 to 4.8 mr/hr
 HOST Coarse-grained, almost pegmatitic Precambrian Pikes Peak Granite.
 MNZ No radioactive minerals were observed.
 DOI 1954
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Teller County, Colorado.

Curtis, Thorpe & Green Lease (Tree No. 3)

LOCATION: E1/2 sec. 25, T. 15 S., R. 71 W.
 LCRM Not same as Sand Creek No. 4. (U.S. A.E.C. note).
 HOST Arkosic sandstone in Oligocene Tallahassee Creek Conglomerate.
 MNZ Uraninite.
 DOI 1971
 REF U.S. A.E.C., 1971, Production Records, Colorado.

Fluorine Mine

LOCATION: sec. 7, T. 15 S., R. 70 W.
 LCST UNCERTAIN
 MAP PUEBLO
 RNG 5 x bg.

HOST Replacement in Tertiary phonolite and phonolite breccia.
 MNZ Gold, silver, no uranium observed.
 DOI 1950
 REF U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Teller County, Colorado.

Genevieve Lode (Phonolite Mountain)

LOCATION: SE1/4 sec. 19, T. 14 S., R. 69 W.
 QUAD Cripple Creek North 7 1/2'
 MAP PUEBLO
 PROD In 1957 and 1958, a total of 5 tons were mined at a grade of 0.44% U308, producing 44 lbs of U308 and 0.02% Y205, producing 2 lbs of Y205.
 HOST Tertiary volcanics and welded tuffs associated with conglomeratic sandstone (probably Oligocene Tallahassee Creek Conglomerate).
 MNZ Autunite identified on fractures.
 DOI 1971
 REF U.S. A.E.C., 1977, Production Records, Colorado. U.S. Geol. Survey, 1977, CRIB File. Young, P., and Mickle, D. G., 1976.

High Park Prospect

LOCATION: N1/2 sec. 31, T. 15 S., R. 70 W.
 LCRM On High Creek 1 mile south of the Abril Mine.
 QUAD Cover Mountain 15'
 MAP PUEBLO
 DVEL There is a small open pit.
 PROD Prior to 1971, 46 tons were mined averaging .13% U308 and containing 115 lbs of U308.
 HOST Oligocene Tallahassee Creek Conglomerate.
 MNZ Autunite, saleeite, sabugalite (a uranium bearing titanium oxide) were identified in oxidized ores. Uraninite was identified in unoxidized ores.
 DOI 1977
 REF E. P. Beroni, 1978, Personal Communication. Young, P., and Mickle, D. G., 1976. U.S. A.E.C., 1971, Production Records, Colorado.

Hilda May Claim No. 3

LOCATION: sec. 22, T. 11 S., R. 71 W.
 LCST UNCERTAIN
 QUAD Hackett Mtn. 7 1/2'
 MAP DENVER
 BKG .02 mr/hr
 RNG .02 to .45 mr/hr
 HOST Pegmatite in Precambrian Pikes Peak Granite.
 STRC Pegmatite strikes NW.
 MNZ Quartz, biotite, feldspar, fluorite, lepidolite. Thorium? No radioactive minerals identified.
 DOI 1955
 REF U.S. Bur. of Mines, 1977, (Unpubl.). U.S. A.E.C., 1966, Preliminary Reconnaissance Reports, Teller County, Colorado.

Lady Stith Claim (Globe Hill Group)

LOCATION: sec. 18, T. 15 S., R. 69 W.
 LCST UNCERTAIN
 LCRM Two shafts and underground workings which were inaccessible in 1955. There was substantial gold production prior to 1902.

TELLER COUNTY

DVEL There has been no uranium production. There was an estimated reserve of 12 tons at a grade of 0.24% U308 stockpiled.

BKG .05 mr/hr

RNG .15 to 4.0 mr/hr

HOST Tertiary volcanic breccia intruded by a phonolite or basic dike.

STRC Uranium occurs in a shear zone at the contact between the breccia and altered zone. Uraniferous zone is 4-8 in. wide with a strike length of 5 ft.

ALT "Talc and Kaolinite in strangely altered zone."

MNZ Tyuyamunite, fluorite, talc, kaolinite, gypsum. A 1-ft channel sample assayed 0.44% U308.

RMKS This claim is a patented claim. Patent number is 7686.

DOI 1955

REF U.S. A.E.C., 1955, Unpublished notes by Newcomb, E. L.

McVey Lease

LOCATION: NE1/4 sec. 25, T. 15 S., R. 71 W.

QUAD Cover Mountain 15'

MAP PUEBLO

DVEL Adit with small workings.

PROD In 1959, 37 tons averaging 0.10% U308 and containing 73 lbs of U308 were mined.

HUST Conglomeratic sandstone associated with volcanics in the Oligocene Tallahassee Creek Conglomerate.

MNZ Uraninite.

DOI 1971

REF R. C. Malan, 1978, Personal Communication. U.S. A.E.C., 1977, Production Records, Colorado. U.S. Geol. Survey, 1977, CRIB File.

Rhyolite Mountain

LOCATION: SW1/4 sec. 6, T. 15 S., R. 69 W.

QUAD Cripple Creek

MAP PUEBLO

DVEL Drilling has been carried out by a major company on the property.

BKG Rhyolite 100-150 cps

RNG 500-1000 cps

HOST Tertiary altered rhyolite plug.

ALT Bleached

MNZ Autunite and torbernite associated with fluorite. (Pods 3 ft across in area of much clay. Area nearby has petrified wood per Comm. Nate Salo).

DOI 1977

REF David Wolf, 1977, Personal Communication. E. P. Beroni, 1977, Personal Communication. Nate Salo, 1977, Personal Communication.

School Section (Park City No. 1)

LOCATION: NE1/4NE1/4 sec. 36, T. 15 S., R. 71 W.

QUAD Cover Mountain 15'

MAP PUEBLO

PROD No production reported, drilled out ore body.

HOST Tertiary conglomeratic sandstone associated with volcanics (Tallahassee Creek Conglomerate).

MNZ Uraninite, average depth to ore 40 ft.

DOI 1973

REF U.S. Geol. Survey, 1977, CRIB File. U.S. A.E.C., 1971, Production Records, Colorado.

Summit Claims; (Dandy Dollar; McDonough; Breen Extension Lucky M)

LOCATION: sec. 6, T. 15 S., R. 69 W.

MAP PUEBLO

MNZ Uranium.

DOI 1977

REF U.S. Bur. of Mines, 1977, (Unpubl.).

SWQ NEQ SEC. 36

LOCATION: SW1/4NE1/4 sec. 36, T. 15 S., R. 70 W.

DVEL Small open pit with an adit in wall of pit.

PROD In 1962, 305 tons were mined at a grade of .16% U308, producing 965 lbs of U308.

HOST Oligocene Tallahassee Creek Conglomerate.

MNZ Uraninite (coffinite), autunite, scattered sulfide.

DOI 1971

REF U.S. A.E.C., 1971, Production Records, Colorado. R. C. Malan, 1963, Personal Notes.

WASHINGTON COUNTY

Neither uranium production nor occurrences have been reported from this county. The county is underlain by flat-lying Quaternary and Tertiary sediments. Potential for uranium resources within the county is small, but the most favorable unit for occurrences is the Tertiary Ogallala Formation, which outcrops in the eastern area of the county.

WELD COUNTY

No production of uranium from Weld County has taken place to date. Production will begin in the near future as Power Resources Corporation and Wyoming Minerals Corporation develop their in-situ leach project near the communities of Grover and Keota.

Weld County is in northeastern Colorado in the Great Plains Province. Upper Cretaceous sedimentary rocks dip gently southwest into the Denver Basin. The bedrock formations are mantled extensively by Tertiary gravels and clays and Quaternary eolian sands and valley-fill deposits.

Exploration in the northern part of the Denver Basin for uranium has been underway since 1970. Occur-

rences in outcrops of the Laramie Formation caused accelerated exploration, and subsequent wide-spaced drilling discovered several deposits. These deposits occur in what may be unaltered beach sands in the Laramie Formation, very similar to the uranium deposits in Texas. The deposit near Grover was chosen as an in-situ leach test site. The pilot test of this program is in operation at this time. Reserves at the Grover site have been reported to be about 1,000,000 lb of U_3O_8 (Reade, H. L., 1976). Other deposits of this type will likely be discovered in the county. The 30 occurrences in the county almost all lie in the Laramie or Fox Hills Formations.

WELD COUNTY

Eastman Basin

LOCATION: sec. 27, T. 9 N., R. 65 W.
 LCRM Other anomalies in sec. 28, 33, 34.
 QUAD Antelope Reservoir 7 1/2'
 MAP GREELEY
 BKG 100 cps
 RNG 1100 cps or 11 x bg
 HOST Cretaceous Laramie Formation.
 ALT Heavy Fe and Mn staining in the sands.
 RMKS These were some of the first finds of anomalies when the Grover anomaly was discovered. Radioactive anomalies in stream valleys and irrigation ditches.
 REF Kenneth Baker, 1977, Personal Communication.

DOI 1975
 REF U.S. Bur. of Mines, 1977 (Unpubl.)

Unnamed No. 1

LOCATION: NW1/4 sec. 19, T. 9 N., R. 65 W.
 MAP GREELEY
 HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
 RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
 DOI 1977
 REF Ken Holmes, 1977, Personal Communication.

Unnamed No. 2

LOCATION: NW1/4 sec. 12, T. 9 N., R. 66 W.
 MAP GREELEY
 HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
 RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
 DOI 1977
 REF Ken Holmes, 1977, Personal Communication.

Unnamed No. 3

LOCATION: SW1/4 sec. 7, T. 9 N., R. 65 W.
 MAP GREELEY
 HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
 RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
 DOI 1977
 REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 4

LOCATION: NW1/4 sec. 17, T. 9 N., R. 65 W.
 MAP GREELEY
 HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
 RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
 DOI 1977
 REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 5

LOCATION: SE1/4 sec. 6, T. 9 N., R. 65 W.
 MAP GREELEY
 HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
 RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
 DOI 1977
 REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 6

LOCATION: SE1/4 sec. 5, T. 9 N., R. 65 W.
 MAP GREELEY
 HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
 RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".

Grover Deposit

LOCATION: sec. 24, T. 10 N., R. 62 W.
 LCRM See also sec. 23, 25, 36.
 MAP GREELEY
 PROD Grade of 0.14% eU308, gross reserves quoted as being 1,007,000 lbs. U308 at a 0.05% U308 cutoff and a grade thickness above 0.20.
 HOST Sandstone, gray, medium- to fine-grained, quartzose, micaceous, in part carbonaceous, in the Upper Cretaceous Fox Hills Sandstone and Laramie Formation.
 STRC Fluvial channel sands trending in a N-S direction.
 ALT None identified. Sands reported to be similar on both sides of geochemical cell.
 RMKS Exploration was carried out extensively in this area 1970-1973 by Hyland Nuclear and Trend Exploration Limited. Development now being carried out by Power Resources Corp. and Wyoming Mineral Corp. Several deposits reported found by drilling in the area. This deposit is being tested for possible solution mining.
 REF U.S. Bur. of Mines, 1977, (Unpubl.). Power Resources Corporation, 1977. Reade, H. L., Jr., 1976.

Indian Creek

LOCATION: sec. 19, T. 10 N., R. 67 W.
 MAP GREELEY
 MNZ Uranium.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.)

King Solomon

LOCATION: sec. 34, T. 9 N., R. 65 W.
 MAP GREELEY
 MNZ Uranium, vanadium.
 RMKS Federal lease.
 DOI 1975
 REF U.S. Bur. of Mines, 1977, (Unpubl.)

Pawnee Buttes N.E.

LOCATION: sec. 25, T. 8 N., R. 60 W.
 MAP GREELEY
 MNZ Uranium, vanadium.

WELD COUNTY

DOI 1977
 REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Fox Hills Formation at base.
 RMKS Pit.
 DOI 1977
 REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 7

LOCATION: SE1/4 sec. 4, T. 9 N., R. 65 W.
 MAP GREELEY
 HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
 RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
 DOI 1977
 REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 13

LOCATION: SW1/4 sec. 22, T. 9 N., R. 64 W.
 MAP GREELEY
 HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
 RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
 DOI 1977
 REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 8

LOCATION: SW1/4 sec. 3, T. 9 N., R. 65 W.
 MAP GREELEY
 HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
 RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
 DOI 1977
 REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 14

LOCATION: NE1/4 sec. 27, T. 9 N., R. 64 W.
 MAP GREELEY
 HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
 RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
 DOI 1977
 REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 9

LOCATION: SW1/4 sec. 22, T. 10 N., R. 65 W.
 MAP GREELEY
 HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
 RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
 DOI 1977
 REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 15

LOCATION: SE1/4 sec. 10, T. 8 N., R. 64 W.
 MAP GREELEY
 HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
 RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
 DOI 1977
 REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 10

LOCATION: SE1/4 sec. 19, T. 10 N., R. 65 W.
 MAP GREELEY
 HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
 RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
 DOI 1977
 REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 16

LOCATION: NW1/4 sec. 24, T. 8 N., R. 64 W.
 MAP GREELEY
 HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
 RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
 DOI 1977
 REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 11

LOCATION: NE1/4 sec. 15, T. 9 N., R. 65 W.
 MAP GREELEY
 HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
 RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
 DOI 1977
 REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 17

LOCATION: SE1/4 sec. 28, T. 8 N., R. 64 W.
 MAP GREELEY
 HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
 RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
 DOI 1977
 REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 12

LOCATION: NW1/4 sec. 34, T. 9 N., R. 65 W.
 MAP GREELEY
 HOST Cretaceous Lance Formation, equivalent to

Unnamed No. 18

WELD COUNTY

LOCATION: NW1/4 sec. 34, T. 8 N., R. 64 W.
MAP GREELEY
HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
DOI 1977
REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 19

LOCATION: NW1/4 sec. 24, T. 8 N., R. 64 W.
HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
DOI 1977
REF Ken Holmes, 1977, Personal Communication.

Unnamed No. 20

LOCATION: NW1/4 sec. 4, T. 9 N., R. 63 W.
MAP GREELEY
HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
DOI 1977
REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 21

LOCATION: SE1/4 sec. 10, T. 9 N., R. 63 W.
MAP GREELEY
HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
DOI 1977
REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 22

LOCATION: S1/2 sec. 14, T. 9 N., R. 63 W.
MAP GREELEY
HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
DOI 1977
REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 23

LOCATION: NE1/4 sec. 4, T. 8 N., R. 62 W.
MAP GREELEY
HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
DOI 1977
REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Unnamed No. 24

LOCATION: NW1/4 sec. 10, T. 8 N., R. 62 W.
MAP GREELEY
HOST Cretaceous Lance Formation, equivalent to Fox Hills Formation at base.
RMKS No radioactivity range given - merely noted as a "sand outcrop with uranium showings".
DOI 1977
REF Ken Holmes, Mobil Oil Corp., 1977, Personal Communication.

Wildhorse

LOCATION: sec. 20, T. 9 N., R. 63 W.
MAP GREELEY
MNZ Uranium.
DOI 1975
REF U.S. Bur. of Mines, 1977, (Unpubl.)

YUMA COUNTY

There has been no production of uranium from Yuma County, nor are any occurrences reported.

The geology of the county is simple, consisting of flat-lying Quaternary, Tertiary, and Cretaceous sediments.

Potential for uranium resources in the county is small. The Tertiary Ogallala Formation is the most favorable unit for uranium occurrences.

PART TWO

Bibliography

Introduction

This bibliography is a compilation of references dealing with radioactive occurrences and radioactivity in Colorado. We have attempted to make it complete as of approximately October 1977, with more recent references added as they came to our attention. Obviously a "complete" bibliography is virtually impossible, but this work is as comprehensive as we could achieve within the given time constraints. Readers' contributions of any additional references will be added to our files.

DESCRIPTION OF COMPILATION METHODS, STYLE AND FORMAT

References were compiled from a large variety of sources and entered in a standard format onto a mini-computer. The format chosen was taken from "Suggestions to Authors", 5th edition, 1958, by the U.S. Geological Survey. The references are arranged alphabetically by the first author's last name, and then by additional authors where they exist. This alphabetization was done by computer and carries to 28 places. When an author has written more than one paper, the references are arranged chronologically. Each reference includes the author's name(s), year of publication, title of the article, publication source, and number of pages:

Shoemaker, E. M., and Newman, W. L.,
1957, Notes on the Moenkopi
Formation in the salt anticline
region of Colorado and Utah: U.S.
Geol. Survey T-681, 43 p., (see
Am. Assoc. Petroleum Geologists
Bull., v. 43, p. 1835-1851).

The names of serial publications are abbreviated but are listed in full in the serials list at the beginning of the bibliography. Cross-references, where known to us, are shown in parentheses with each reference (see example), so that if one publication is unobtainable, the same or similar information may be found in another journal or book.

DESCRIPTION OF SOURCES

Sources of information include published and unpublished bibliographies, computerized bibliographic searches, state and federal libraries and librarians, and miscellaneous references furnished by many people who have helped in completing the project. The U.S. Geological Survey Library in Lakewood, Colorado was the main reference facility used, with some additional work done at the Department of Energy Library in Grand Junction, Colorado and at the Colorado State Library in Denver, Colorado. The primary literature sources include:

Colorado Geological Survey, 1976,
Bibliography and Index of Colorado
geology, 1875 to 1975: Colorado Geol.
Survey Bull. 37, 488 p.

Cooper, Margaret, 1954, Bibliography and
Index of literature on uranium and
thorium and radioactive occurrences in

the United States, Part 3, Colorado and
Utah: Geol. Soc. America Bull., v. 65,
p. 467-590.

Curtis, Diane, 1958, Selected annotated
bibliography of the uranium geology of
igneous and metamorphic rocks in the
United States: U.S. Geol. Survey Bull.
1059-E, p. 205-262.

Dean, B. G., 1960, Selected annotated
bibliography of the geology of uranium-
bearing veins in the United States:
U.S. Geol. Survey Bull. 1059-G,
p. 327-440.

Flx, C. E., 1958, Selected annotated
bibliography of the geology and
occurrence of uranium-bearing marine
black shales in the United States:
U.S. Geol. Survey Bull. 1059-F,
p. 263-326.

Jones, H. N., 1958, Selected annotated
bibliography of uraniumiferous and
radioactive native bituminous
substances, exclusive of coals in the
United States: U.S. Geol. Survey Bull.
1059-D, p. 177-203.

Krusiewski, S. V., 1973, Availability of
U.S. A.E.C. geology -- mineralogy
reports: U.S. Atomic Energy Commission
PB-187559 (rev.), 124 p.

Lockheed DIALOG System Data Bases
6: NTIS 1964-1976
#34: SCISEARCH 74-76
#35: DISSERTATIONS Nov. 76
8: ENGR INDEX 70-76/NOV
#40: ENVIROLINE OCT 76

Mellin, R. E., 1957, Selected annotated
bibliography of the geology of
sandstone-type uranium deposits in the
United States: U.S. Geol. Survey Bull.
1059-C, p. 159-175.

Mineral Economics Consultants, Inc., 1975,
Uranium and vanadium occurrences in
Colorado: U.S. Bureau of Mines
Contract H-0252026, 49 p., (unpubl.).

Oak Ridge Retrieval, February, 1977,
Ecological Sciences Information Center
of Oak Ridge National Laboratory,
retrieval of information on uranium and
thorium in Colorado and RECON printouts
from the ERDA Energy Data Base and
Nuclear Science Abstracts.

Solster, P. E. and Conklin, D. R., 1959,
Bibliography of U.S. Geological Survey
reports on uranium and thorium, 1942
through May 1958, in Contributions to
the geology of uranium: U.S. Geol.
Survey Bull. 1107-A, 93 p.

- Solster, P. E., Conklin, D. R. and Bowman, M. D., 1956, Bibliography and index of U.S. Geological Survey Trace Elements and related reports through June 1956: U.S. Geol. Survey TEI-600, 533 p.
- U.S. Atomic Energy Commission, 1969, Selected topical references relating to uranium exploration: U.S. Atomic Energy Commission, PB-187560, 31 p.
- U.S. Atomic Energy Commission, 1972, Selected bibliography on radioactive occurrences in Colorado: U.S. Atomic Energy Commission, 17 p.
- U.S. Atomic Energy Commission, 1973, Selected bibliography on radioactive occurrences on the Colorado Plateau: U.S. Atomic Energy Commission, 12 p.
- U.S. Atomic Energy Commission, 1974, U.S. Atomic Energy Commission Grand Junction Office Open-file reports: U.S. Atomic Energy Commission, 25 p.
- U.S. Energy Research and Development Administration, 1976, Nuclear raw materials, a selected bibliography: U.S. Energy Research and Development Administration TID-3357, 18 p., Indexes.
- U.S. Energy Research and Development Administration, 1977, Open-file report, April 1952 to October, 1977: U.S. Energy Research and Development Administration, October, 1977, 47 p.
- U.S. Geological Survey, 1976, Geologic and water-supply reports and maps, Colorado: U.S. Geol. Survey, July, 1976, 69 p.
- U.S. Geological Survey, 1977, Uranium and thorium resources program bibliography of reports issued 1972 to 1976: U.S. Geol. Survey, Branch of Uranium and Thorium Resources, 34 p.
- Wenrich-Verbeek, K. J., Collins, D. B., and Feilmee, J. K., 1977, Bibliography on uranium and daughter products in water and associated sediments: U.S. Geol. Survey Open-file Report 77-82, 139 p.

Several types of references need some explanation for those who are not already familiar with them. These include Trace Elements Investigations Reports (TEI), Trace Elements Memorandum Reports (TEM), Raw Materials Exploration Reports (RME) and Raw Materials Operations Reports (RMO).

Trace Elements Investigations reports (TEI) and Trace Elements Memorandum reports (TEM) resulted from investigations conducted by the U.S. Atomic Energy Commission and/or the U.S. Geological Survey,

primarily during the 1950's. Raw Materials Exploration Reports (RME) and Raw Materials Operations Reports (RMO) were issued by the Division of Raw Materials of the Atomic Energy Commission. All of these reports concerned investigations of and for defense-related minerals--primarily uranium, thorium, and beryllium. The reports were not originally intended for public inspection and were considered "classified" or for "official use only". When information contained in these reports was to be made public, it was published in journal articles or other forms such as U.S. Geological Survey Circulars, Bulletins, Professional Papers, and Open-file reports. Where known, the reference to the published form of these previously classified reports is given as a note following each individual reference in this bibliography.

In 1975 the U.S. Geological Survey reviewed and declassified many of the older TEI's and TEM's. However, some 350 of these reports remained classified as "official use only". In response to requests resulting from this current study, the majority of the remaining 350 classified reports are being or have been declassified. Microfiche copies of these will soon be available for public inspection at various federal government depositories. Since declassification is nearing completion, we have included references to these reports.

USE OF THE BIBLIOGRAPHY

The bibliography volume is broken into two major sections: the bibliographic references and the cross-indexes. The references are presented first and have already been described partially as to style and format. The cross-indexes follow the references and are divided into the general categories of county and host rock, and the special categories of "Colorado Plateau", "Front Range", and "thorium".

The bibliography primarily includes references to specific information on uranium or other radioactive minerals in Colorado. Some reports, however, contain only general reference to uranium and uranium geology, applicable to Colorado as well as to other uranium-producing states. A few references contain no information on uranium but deal with geographic areas or deposits in which uranium has been found in significant amounts.

Keywords were assigned to each reference in the bibliography and were determined by consulting the individual reports or their abstracts when possible. Most of the reports deal with specific deposits or localities within Colorado and, therefore, include information on counties and host rocks. All reports were specifically keyworded and cross-indexed for these two subjects, with additional keywords added as known and appropriate. The generalized host rock type names which were used for the cross indexing include:

coal, shale
igneous-metamorphic
limestone, phosphorite
sandstone, siltstone
spring deposits, groundwater

If the report was unlocatable or unobtainable, the keywords were taken from the title of the report.

Some reports of a general nature discuss only such larger provinces as the "Colorado Plateau" or the "Front Range" and do not cite specific counties or host rocks. These reports were included in the cross-index as special categories since they are major uranium provinces in Colorado. When specific locations could be inferred from these general citations, the appropriate county and host-rock keywords were added to facilitate retrieval by the cross-indexes.

Stratigraphic nomenclature used in keywording is taken from many sources and from references written over a period of years; therefore, certain nomenclature may be outdated. We sought to make the names consistent as the entries were keyworded. As a result, names like "Entrada sandstone", "Entrada Formation", "Entrada Sandstone", and "Entrada formation" have all been standardized to "Entrada Sandstone" in the keywording. Also, if old nomenclature was used in the reports, and if the currently accepted formation names were known, both terms were used in keywording the entries.

To use the cross-indexes, first look for the county, host rock, or special category in which you are interested. For example, if you want information on Lake County, turn to the cross-index for Lake County to find:

LAKE COUNTY

Pierson, C. T., and Singewald, Q. D., 1953
Sugar Loaf district/St. Kevin district/
Lake County/ igneous-metamorphic/

geology/ veins/ minerals/ autunite/
florencite/ metatorbernite/ torbernite/
Josie May mine/ Turquoise Chief mine/
granite/ turquoise/ Wilkesbarre adit/
mineralogy/ leaching/Precambrian rocks/
Tertiary/ schist/

This report discusses deposits in Lake County, with information on all of the other subjects in the keywords. Note that this reference would also be listed under the host-rock cross-index for "igneous-metamorphic". If the subjects listed within the keywords describe a reference of interest, turn to the bibliography and look for the author's name(s):

Pierson, C. T., and Singewald, Q. D., 1953,
Occurrences of uranium-bearing
minerals in the St. Kevin district,
Lake County, Colorado: U.S. Geol.
Survey T-234, 39 p., maps. (see
U.S. Geol. Survey Bull. 1027-E).

This reference is one of the T-234's, which are sometimes difficult to obtain. In this case, because of the cross-reference, the U.S. Geological Survey Bulletin that should contain similar or identical information can easily be obtained from any major library.

We hope that you will find the bibliography and cross-indexes both useful and easily useable, as these were two of the major goals in compiling them. If the general features and limitations of each are kept in mind, we think that they can be valuable tools for geologists, explorationists, planners, government officials, students, and many others, for years.

Serials List

Acad. Nat. Sci. Philadelphia Proc.	Academy of Natural Sciences of Philadelphia Proceedings. Philadelphia, Pennsylvania.
Acta Cryst.	Acta Crystallographica (International Union of Crystallographica). Copenhagen.
Akad. Nauk SSSR Inst. Geologii Rudnykh Mestorozhdeniy, Petrografi, Mineralogii i Geokhimii.	Akademlya Nauk S.S.S.R. Institut Geologii Rudnykh Mestorozhdenii, Petrografii, Mineralogii: Geokhimii.
Akad. Nauk SSSR Izv. Ser. Geol.	Akademlya Nauk S.S.S.R. Izvestiya. Seriya Geologicheskaya.
Akad. Sci., Comptes Rendus	Akademlya Nauk S.S.S.R. Science, Comptes Rendus.
Am. Assoc. Petroleum Geologists Bull.	American Association of Petroleum Geologists, Bulletin. Tulsa, Oklahoma.
Am. Assoc. Petroleum Geologists, Geol. Record.	American Association of Petroleum Geologists, Geologic Record.
Am. Assoc. Petroleum Geologists Mem.	American Association of Petroleum Geologists, Memoir. Tulsa, Oklahoma.
Am. Geophys. Union Trans.	American Geophysical Union, Transactions. Washington, D.C.
Am. Inst. Mining and Metallurgical Engineers, Mining Geology, Geophysics Div. Ann. Mtg., Abs. Tech. Papers.	American Institute of Mining and Metallurgical Engineers, Mining Geology, Geophysics Division Annual Meeting, Abstract of Technical Papers.
Am. Inst. Mining Eng. Trans.	American Institute of Mining Engineers Transcript.
Am. Inst. Mining, Metallurgical, and Petroleum Engineers, Ann. Minerals Symposium.	American Institute of Mining, Metallurgical and Petroleum Engineers, Annual Minerals Symposium.
Am. Jour. Sci.	American Journal of Science. New Haven, Connecticut.
Am. Mineralogist.	American Mineralogist (Mineralogical Society of America, Journal). Washington, D.C.
Am. Mining Cong., Ann. Rept. Proc.	American Mining Congress, Annual Report of Proceedings.
Am. Mus. Nat. History Bull.	American Museum of Natural History, Bulletin. New York.
Am. Philos. Soc. Proc.	American Philosophical Society, Proceedings. Philadelphia, Pennsylvania.
American Assoc. Adv. Sci. Proc.	American Association for the Advancement of Science Proceedings, Washington, D.C.
Anal. Chemistry	Analytical Chemistry.
Arch. Ind. Health	Archives of Industrial Health.
Arizona Bur. Mines Bull.	Arizona Bureau of Mines, Bulletin.
Atom - U.S.	Atom - United States.
Austria, Z. Bergwirtsch. Huettenwes.	Austria, Z. Bergwirtsch. Hue Huettenwes.
Bull. Atomic Scientists	Bulletin of Atomic Scientists.
Bull. Volcanol.	Bulletin of Volcanology.
California Div. Mines	California Division of Mines.
California Inst. Technology	California Institute of Technology.
Canada Inst. Mining Metall., Geol. Div., Soc. Econ. Geology	Canadian Institute of Mining and Metallurgy, Geological Division, Society of Economic Geology.
Canadian Mineralogist	Canadian Mineralogist.
Canadian Mining Metall. Bull.	Canadian Mining and Metallurgy, Bulletin.
Chem. Abs.	Chemical Abstracts.
Chemical News	Chemical News.
Chemikerzeitung	Chemikerzeitung.
Colorado Basic Data Report	Colorado Basic Data Report.
Colorado Bur. Mines Circ.	Colorado Bureau of Mines, Circular. Denver, Colorado.
Colorado Bur. Mines Pub.	Colorado Bureau of Mines, Publication.
Colorado Bur. Mines Rept.	Colorado Bureau of Mines, Report.
Colorado Geol. Survey Bull.	Colorado Geological Survey, Bulletin. Denver, Colorado.
Colorado Geol. Survey Inf. Ser.	Colorado Geological Survey, Information Series. Denver, Colorado.
Colorado Geol. Survey Map Ser.	Colorado Geological Survey, Map Series. Denver, Colorado.
Colorado Magazine.	Colorado Magazine.
Colorado Metal Mining Fund	Colorado Metal Mining Fund.

Colorado Mineral Resources Board Colorado Mineral Resources Board.
Colorado Mining Assoc. Mining Yearbook Colorado Mining Association Mining Yearbook.
Colorado Mining Assoc., Nat'l. Western Mining
Conf. Trans. Colorado Mining Association, National Western Mining
Conference Transcript.
Colorado Mining Assoc. Spec. Pub. Colorado Mining Association Special Publication.
Colorado School Mines Colorado School of Mines. Golden, Colorado.
Colorado School Mines, Bienn. Report Colorado School of Mines Biennial Report. Golden, Colorado.
Colorado School Mines Mineral Industries
Bull. Colorado School of Mines Mineral Industries Bulletin.
Golden, Colorado.
Colorado School Mines Progress Rpt. Colorado School of Mines, Progress Report. Golden,
Colorado.
Colorado School Mines Quart. Colorado School of Mines, Quarterly. Golden, Colorado.
Colorado School Mines Remote Sensing Rpt. .. Colorado School of Mines Remote Sensing Report. Golden,
Colorado.
Colorado School Mines Research Foundation,
Inc. Colorado School of Mines, Research Foundation Incorporated.
Golden, Colorado.
Colorado School Mines, Unpub. notes Colorado School of Mines, Unpublished Notes. Golden,
Colorado.
Colorado Sci. Soc. Proc. Colorado Scientific Society, Proceedings. Denver, Colorado.
Colorado Water Conserv. Board Ground Water
Ser. Basic Data Rpt. Colorado Water Conservation Board Ground Water Series Basic
Data Report.
Commonwealth Mining and Metal. Cong., Proc.,
Inst. Mining and Metallurgy..... Commonwealth Mining and Metallurgy, Congress, Proceedings,
Institute of Mining and Metallurgy.
Compass..... Compass of Sigma Gamma Epsilon. Lawrence, Kansas.
Comptes Rendus..... Comptes Rendus.
Contributions to Geology..... Contributions to Geology (Wyoming University). Laramie,
Wyoming.
Dallas Dig. Dallas Digest.
Denison Univ. Sci. Lab. Jour. Denison University, Journal of Scientific Laboratories.
Granville, Ohio.
Denver Magazine..... Denver Magazine.
Dissert. Abs. Internat. Dissertation Abstracts International; Abstracts of
Dissertation Available on Microfilm or as Xerox
Reproductions. Ann Arbor, Michigan.
Earth Science Bull. Earth Science Bulletin (Wyoming Ecological Association).
Casper, Wyoming.
Econ. Geology..... Economic Geology and the Bulletin of the Society of
Economic Geologists. New Haven, Connecticut.
Eng. and Mining Jour. Engineering and Mining Journal. New York.
Explosives Engineer..... Explosives Engineer.
Four Corners Geol. Soc. Field Conf. Four Corners Geological Society Field Conference.
Four Corners Geol. Soc. Guidebook..... Four Corners Geological Society Guidebook.
Fuel..... Fuel; the Journal of Fuel Science. London.
Geochim. et Cosmochim. Acta..... Geochimica et Cosmochimica Acta (The Geochemical Society,
Pergamon Press, Oxford.
Geol. Soc. America Abs. with Programs..... Geological Society of America, Abstracts with Programs.
Geol. Soc. America Bull. Geological Society of America, Bulletin. Boulder, Colorado.
Geol. Soc. America Mem. Geological Society of America, Memoir. Boulder, Colorado.
Geol. Soc. America Spec. Paper..... Geological Society of America, Special Paper. Boulder,
Colorado.
Geophysics..... Geophysics (Society of Exploration Geophysicists, Journal).
Tulsa, Oklahoma.
Globus..... Globus.
Health Physics..... Health Physics.
Idaho Mineral Industries Ann. Rpt. Idaho Mineral Industries Annual Report.
Inst. Geol., Anu..... Institutul de Geologie si Geofizica. Darl de Seama Ale
Sedintelor. Romania.
Intermtn. Assoc. Geologists Ann. Field
Conf. Intermountain Association of Geologists Annual Field
Conference.
Intermtn. Assoc. Petroleum Geologists Ann.
Field Conf. Guidebook Intermountain Association of Petroleum Geologists Annual
Field Conference Guidebook.

Internat. Atomic Energy Agency Symposium.....	International Atomic Energy Agency Symposium.
Internat. Geol. Cong.	International Geological Congress.
Internat. Geology Review.....	International Geology Review.
Internat. Mineralog. Assoc.	International Mineralogical Association.
Isochron West.....	Isochron/West; a Bulletin of Isotopic Geochronology. Socorro, New Mexico.
Jour. Geology.....	Journal of Geology. Chicago, Illinois.
Jour. Geophys. Research.....	Journal of Geophysical Research (American Geophysical Union). Washington, D.C.
Jour. Metals.....	Journal of Metals.
Jour. Sed. Petrology.....	Journal of Sedimentary Petrology. Tulsa, Oklahoma.
Kansas Geol. Soc. Guidebook.....	Kansas Geological Society Guidebook.
Los Alamos Scientific Lab. Report NTIS # LA.,	Los Alamos Scientific Laboratory Report National Technical Information Service. LA.
M.S.S. Report.....	Master of Social Studies Report.
Metallurgia.....	Metallurgia.
Mineral Industries.....	Mineral Industries Bulletin.
Mines and Mineral Reports of Colorado.....	Mines and Mineral Reports of Colorado.
Mines and Minerals.....	Mines and Minerals.
Mines and Minerals, Quart. Jour. Indian Bur. Mines, Nagpur, India.....	Mines and Minerals; Quarterly Journal of the Indian Bureau of Mines. Nagpur.
Mine & Quarry Eng.	Mine and Quarry Engineering.
Mines Mag.	Mines Magazine. Golden, Colorado.
Mining and Contracting Review.....	Mining and Contracting Review.
Mining Cong. Jour.	Mining Congress Journal.
Mining Eng.	Mining Engineering, American Institute of Mining Metallurgical and Petroleum Engineers. New York.
Mining Mag.	Mining Magazine. London.
Mining Rev.	Mining Review.
Mining Sci.	Mining Science.
Mining Sci. Press.....	Mining and Scientific Press. San Francisco, California.
Mining World.....	Mining World. San Francisco, California.
Moscow Atomizdat.....	Moscow Atomizdat.
Mtn. Geologist.....	Mountain Geologist (Rocky Mountain Association of Geologists). Denver, Colorado.
NASA Rept.	National Aeronautics and Space Administration Report.
Natl. Geog. Mag.	National Geographic Magazine (National Geographic Society). Washington, D.C.
Natl. Research Council Pub.	National Research Council Publication.
Natl. Tech. Inf. Service Pub. PB _____ Natl. Sci. Found.	National Technical Information Service, Publication of the National Science Foundation.
Natl. Tech. Inf. Service Pub. PB _____ U.S. Geol. Survey	National Technical Information Service, Publication of the U.S. Geological Survey.
New Mexico Bur. Mines and Mineral Resources..	New Mexico Bureau of Mines and Resources. Campus Station, Socorro, New Mexico.
New Mexico Geol. Soc. Field Conf. Guidebook..	New Mexico Geological Society, Annual Field Conference Guidebook. Socorro, New Mexico.
New Mexico Univ. Pubs. Geology.....	New Mexico University Publications Geology.
NSA.....	Nuclear Science Abstracts.
Nuclear Eng. Sci. Cong., Proc.	Nuclear Engineering Science Congress, Proceedings.
Nuclear Sci.	Nuclear Science.
Nucleonics.....	Nucleonics.
Oak Ridge National Lab. URNL.....	Oak Ridge National Laboratory. Oak Ridge, Tennessee.
Oil and Gas Jour.	Oil and Gas Journal. Tulsa, Oklahoma.
Ores and Metals.....	Ores and Metals.
Pan-American Geology.....	Pan America Geology. Des Moines, Iowa.
Periodical Geology and Metallurgy.....	Periodical Geology and Metallurgy.
Precambrian.....	Precambrian.
Rocks and Minerals.....	Rocks and Minerals. Peatsville, New York.
Rocky Mtn. Assoc. Geologists Guidebook.....	Rocky Mountain Association of Geologists Field Conference Guidebook. Denver.
Schweiz. Mineralog. U. Petrogr. Mitt.	Schweizerische Mineralogische und Petrographische Mittellungen--Bulletin Suisse de Mineralogie et Petrografia Zuerich.
Science.....	Science (American Association for the Advancement of Science). Washington, D.C.

Ser. Hydrol., France, Office Recherches Sci.
 Tech. Outre-Mer, Cah. Serie Hydrogeologie, France, Office de Recherches
 Scientifique et Technique, Outre-Mer, Cah.

Soc. Chim. de Paris Bull. Societe de Chimie de Paris, Bulletin.

Soc. Francaise Mineralogie Bull. Societe Francaise de Mineralogie et de Cristallographie,
 Bulletin. Paris.

Soc. Mining Bull. Society of Mining, Bulletin.

Soil Sci. Soil Science, Williams & Wilkins Co., Baltimore, Maryland.

Tech. Inf. Service CU Technical Information Service, Colorado University.

Tschermaks Mineralogy Petrog. Mitt. Tschermaks Mineralogische und Petrographische Mitteilungen,
 Vienna.

U. K. Atomic Energy Authority United Kingdom Atomic Energy Authority.

U.N. Internat. Conf. on Peaceful Uses of
 Atomic Energy, Proc. United Nations International Conference on Peaceful Uses of
 Atomic Energy, Proceedings.

Uranium Uranium.

Uranium Pubs. Uranium Publications.

U.S. Atomic Energy Comm. AEC-RD. U.S. Atomic Energy Commission Report, AEC-RD.

U.S. Atomic Energy Comm. AEC-RID U.S. Atomic Energy Commission Report, AEC-RID.

U.S. Atomic Energy Comm. CEX U.S. Atomic Energy Commission Report, CEX.

U.S. Atomic Energy Comm. COM U.S. Atomic Energy Commission Report, COM.

U.S. Atomic Energy Comm. COO U.S. Atomic Energy Commission Report, COO.

U.S. Atomic Energy Comm. DAO-3-TM U.S. Atomic Energy Commission Report, DAO-3-TM.

U.S. Atomic Energy Comm. DEB-3-TM U.S. Atomic Energy Commission Report, DEB-3-TM.

U.S. Atomic Energy Comm. GJO U.S. Atomic Energy Commission Report, GJO.

U.S. Atomic Energy Comm. open-file map U.S. Atomic Energy Commission open-file map.

U.S. Atomic Energy Comm. open-file report ... U.S. Atomic Energy Commission open-file report.

U.S. Atomic Energy Comm. PB U.S. Atomic Energy Commission Report PB.

U.S. Atomic Energy Comm. Prelim. Map U.S. Atomic Energy Commission Preliminary Map.

U.S. Atomic Energy Comm. Press Release U.S. Atomic Energy Commission Press Release.

U.S. Atomic Energy Comm. RCD U.S. Atomic Energy Commission Report RCD.

U.S. Atomic Energy Comm. Report U.S. Atomic Energy Commission Report.

U.S. Atomic Energy Comm. RME U.S. Atomic Energy Commission Report of the Raw Materials
 Division, RME.

U.S. Atomic Energy Comm. RMO U.S. Atomic Energy Commission Report of the Raw Materials
 Division, RMO.

U.S. Atomic Energy Comm. TID U.S. Atomic Energy Commission Report TID.

U.S. Atomic Energy Comm. TM U.S. Atomic Energy Commission Report TM.

U.S. Atomic Energy Comm. Uranium Workshop ... U.S. Atomic Energy Commission, Uranium Workshop.

U.S. Atomic Energy Comm. WASH U.S. Atomic Energy Commission Report, Washington, D.C.,
 WASH.

U.S. Bur. Indian Affairs Admin. Rept. U.S. Bureau of Indian Affairs Administration, Report.

U.S. Bur. Mines Bull. U.S. Bureau of Mines, Mines Bulletin, Washington, D.C.

U.S. Bur. Mines Inf. Circ. U.S. Bureau of Mines, Information Circular, Washington,
 D.C.

U.S. Bur. Mines Mineral Resources U.S. U.S. Bureau of Mines and Mineral Resources in the U.S.

U.S. Bur. Mines Rept. Inv. U.S. Bureau of Mines, Report of Investigations, Washington,
 D.C.

U.S. Bur. Mines TPR U.S. Bureau of Mines Report TPR.

U.S. Dept. Energy GJT U.S. Department of Energy Report GJT. Grand Junction,
 Colorado.

U.S. Dept. Interior Press Memo U.S. Department of the Interior, Press Memo.

U.S. 88th Cong. 2d sess., Comm. Print U.S. 88th Congress, 2nd session, [Commission Print].

U.S. Energy Research Devel. Adm. ERDA U.S. Energy Research and Development Administration Report
 ERDA.

U.S. Energy Research Devel. Adm. GJBX U.S. Energy Research and Development Administration Report
 GJBX. Grand Junction, Colorado.

U.S. Energy Research Devel. Adm. GJO U.S. Energy Research and Development Administration Report
 GJO. Grand Junction, Colorado.

U.S. Environmental Protection Agency Conf. .. U.S. Environmental Protection Agency, Conference.

U.S. Environmental Protection Agency, Office
 Water Program U.S. Environmental Protection Agency, Office Water Program.

U.S. Environmental Protection Agency PB U.S. Environmental Protection Agency Report PB.

U.S. Environmental Protection Agency
 Radiation Data and Repts. U.S. Environmental Protection Agency Radiation Data and
 Reports.

U.S. Govt. Printing Office U.S. Government Printing Office.

U.S. Natl. Mus. Proc. U.S. National Museum, Proceedings. Washington, D.C.

U.S. Geol. and Geog. Terr. Survey (Hayden)	
Ann. Rept.	U.S. Geologic and Geographic Territorial Survey (Hayden) Annual Report.
U.S. Geol. Survey Bull.	U.S. Geological Survey, Bulletin.
U.S. Geol. Survey Circ.	U.S. Geological Survey, Circular.
U.S. Geol. Survey Geol. Quad. Map GQ	U.S. Geological Survey, Geologic Quadrangle Map.
U.S. Geol. Survey Geophys. Inv. Map GP	U.S. Geological Survey, Geophysical Investigations Map.
U.S. Geol. Survey Jour. Research	U.S. Geological Survey, Journal of Research.
U.S. Geol. Survey leaflet	U.S. Geological Survey, leaflet.
U.S. Geol. Survey Mineral Inv. Field Studies	
Map MF	U.S. Geological Survey, Mineral Investigations, Field Studies Map.
U.S. Geol. Survey Mineral Inv. Resource Map	
MR	U.S. Geological Survey, Mineral Investigations Resource Map.
U.S. Geol. Survey Mineral Resources U.S.	U.S. Geological Survey, Mineral Resources of the U.S.
U.S. Geol. Survey Minerals Inv. Prelim. Map	U.S. Geological Survey Minerals Investigations, Preliminary Map.
U.S. Geol. Survey Misc. Geol. Inv. Map I	U.S. Geological Survey, Miscellaneous Geologic Investigations Map.
U.S. Geol. Survey Missouri Basin Studies	
Map	U.S. Geological Survey Missouri Basin Studies Map.
U.S. Geol. Survey Oil and Gas Inv. Prelim.	
Map	U.S. Geological Survey Oil and Gas Investigations, Preliminary Map.
U.S. Geol. Survey open-file map	U.S. Geological Survey open-file map.
U.S. Geol. Survey open-file report	U.S. Geological Survey open-file report.
U.S. Geol. Survey Press Release	U.S. Geological Survey Press Release.
U.S. Geol. Survey Prof. Paper	U.S. Geological Survey, Professional Paper.
U.S. Geol. Survey Strategic Minerals Inv.	
Prelim. Map	U.S. Geological Survey, Strategic Minerals Investigations, Preliminary Map.
U.S. Geol. Survey Strategic Minerals Inv.	
Report	U.S. Geological Survey Strategic Minerals Investigations Report.
U.S. Geol. Survey TEI	U.S. Geological Survey Report, Trace Element Investigation.
U.S. Geol. Survey TEM	U.S. Geological Survey Report, Trace Element Memorandum.
U.S. Geol. Survey Water-Supply Paper	U.S. Geological Survey Water-Supply Paper.
Utah Geol. and Mineralog. Survey Spec.	
Studies	Utah Geological and Mineralogical Survey, Special Studies.
Utah Geol. Soc. Guidebook	Utah Geological Society, Guidebook to the Geology of Utah. Utah Geological & Mineralogical Survey, Salt Lake City.
Washington Acad. Sci. Jour.	Washington Academy of Science, Journal. Washington, D.C.
Western Chem. Metallurgy	Western Chemistry Metallurgy.
Wyoming Geol. Assoc. Field Conf. Guidebook ..	Wyoming Geological Association, Field Conference Guidebook.
Zeitschr. Erzbergbau u. Metallhüttenwesen ...	Zeitschriften Erzbergbau und Metallhüttenwesen.

Bibliography

- Aamodt, P. L., Hansel, J. M., Minor, M. M., and others, 1977, Hydrogeochemical and stream sediment reconnaissance of the National Uranium Resource Evaluation program quarterly report covering October-December 1976: U.S. Energy Research Devel. Adm. GJBX-20(77).
- Aamodt, P. L., Waterbury, G. R., and Bunker, M. E., 1977, Hydrogeochemical and stream sediment reconnaissance of the National Uranium Resource Evaluation program, January-March 1977: U.S. Energy Research Devel. Adm. GJBX-51(77).
- Abdel-Gawad, A. M., 1960, Alteration features associated with some basal Chino uranium deposits; Colorado Plateau [abs.]: Dissert. Abs. Internat., v. 21, no. 3, p. 590.
- Abdel-Gawad, A. M., and Kerr, P. F., 1959, Basal Chino silicification, Colorado Plateau [abs.]: Geol. Soc. America Bull., v. 70, no. 12, pt. 2, p. 1559.
- 1959, Basal Chino silicification; Colorado Plateau [abs.]: Econ. Geology, v. 54, no. 7, p. 1350-1351.
- 1961, Urano-organic mineral association: Am. Mineralogist, v. 46, p. 402-419.
- Aberdeen, E. J., White, W. F., Sherwood, A. M., and others, 1952, Interim report on the location of nonsaline uraniumiferous waters suitable for ion-exchange process: U.S. Geol. Survey TEM-281.
- Adams, J. A. S., 1954, Uranium and thorium contents of volcanic rocks, in Nuclear geology - a symposium on nuclear phenomena in the earth sciences: New York, John Wiley & Sons, Inc., p. 89-98.
- Adams, J. W., 1948, The beryl deposits of the Mount Antero region, Chaffee County, Colorado: U.S. Geol. Survey TEM-69.
- 1951, Beryllium deposits of the Mount Antero region, Chaffee County, Colorado: U.S. Geol. Survey TEI-126, (see U.S. Geol. Survey Bull. 982-D).
- 1953, Beryllium deposits of the Mount Antero region, Chaffee County, Colorado: U.S. Geol. Survey Bull. 982-D, p. 95-119, illus.
- 1953, Uranium in the Golden Gate Canyon and Ralston Creek areas, Jefferson County, Colorado: Geol. Soc. America Bull., v. 64, p. 1539.
- 1953, Frequency distribution of uranium with relation to enclosing wall rocks [Colorado], in Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 92-93.
- 1954, Frequency distribution of uranium with relation to enclosing rock type [Colorado], in Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-440, p. 96-98.
- Adams, J. W., and Sharp, W. N., 1970, Thalenite in the White Cloud pegmatite, South Platte district, Jefferson County, Colorado, in Geological Association of Canada - Mineralogical Association of Canada, Joint Annual Meetings, Abstracts of Papers [abs.]: Winnipeg, Manitoba, Canada, Univ. Manitoba, p. 1.
- 1972, Thalenite and allanite derived from yttrifluorite in the White Cloud pegmatite, South Platte area, Colorado, in Geological Survey research 1972: U.S. Geol. Survey Prof. Paper 800-C, p. C63.
- Adams, J. W., and Staats, M. H., 1973, Rare-earth elements, in Brobst, D. A., and Pratt, W. P., United States Mineral Resources: U.S. Geol. Survey Prof. Paper 820, p. 547-556.
- Adams, J. W., and Stugard, Frederick, Jr., 1953, Frequency distribution of uranium with relation to enclosing rock type [Colorado], in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 96-97, geol. sketch map.
- 1954, Wall-rock control of certain pitchblende deposits in Golden Gate Canyon, Jefferson County, Colorado: U.S. Geol. Survey TEI-430, (see U.S. Geol. Survey Bull. 1030-G).
- 1956, Summary of wall-rock control of certain pitchblende deposits in Golden Gate Canyon, Jefferson County, Colorado, in Geology of uranium and thorium: U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc., v. 6, p. 279-282.
- 1956, Summary of wall-rock control of certain pitchblende deposits in Golden Gate Canyon, Jefferson County, Colorado, in Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955: U.S. Geol. Survey Prof. Paper 300, p. 113-116.
- 1956, Wall-rock control of certain pitchblende deposits in Golden Gate Canyon, Jefferson County, Colorado: U.S. Geol. Survey Bull. 1030-G, p. 187-209, illus. (incl. geol. maps).
- Adams, J. W., Gude, A. J., 3d, and Beroni, E. P., 1953, Uranium occurrences in the Golden Gate Canyon and Ralston Creek areas, Jefferson County, Colorado: U.S. Geol. Survey TEM-154, 45 p., maps. (see U.S. Geol. Survey Circ. 320).
- 1953, Uranium occurrences in the Golden Gate Canyon and Ralston Creek areas, Jefferson County, Colorado: U.S. Geol. Survey Circ. 320, 16 p., [1954], illus. (incl. geol. sketch map).

- Adams, J. W., Hildebrand, F.A., and Havens, R. G., 1962, Thalenite from Teller County, Colorado, *In Geological Survey research 1962: U.S. Geol. Survey Prof. Paper 450-D, p. D6-D8, illus., tables.*
- Adler, H. H., 1963, Concepts of genesis of sandstone-type uranium ore deposits: *Econ. Geology*, v. 58, no. 6, p. 839-852.
- 1964, The conceptual uranium ore roll and its significance, *In uranium exploration: Econ. Geology*, v. 59, p. 46-53.
- 1974, Concepts of uranium-ore formation in reducing environments in sandstones and other sediments, *In Formation of uranium ore deposits: Internat. Atomic Energy Agency*, p. 141-168.
- Adler, H. H., and Sharp, B. J., 1967, Uranium ore rolls - occurrence, genesis and physical and chemical characteristics, *In Hintze, L. F., ed., Uranium districts of southeastern Utah: Utah Geol. Soc. Guidebook no. 21, p. 53-77.*
- Albee, H. F., 1956, Comparison of the pebbles of the Shinarump and Moss Back members of the Chinle Formation: *U.S. Geol. Survey TEM-832, (see Jour. Sed. Petrology, 1957, v. 27, p. 135-142).*
- Aley, Maxwell, Some financing approaches for small uranium operators, *In Colorado Mining Assoc. Mining Yearbook, 1970: Denver, Colorado Mining Assoc., p. 61-64.*
- Allen, M. A., and Butler, G. M., 1921, Vanadium: *Arizona Bur. Mines Bull. 115, 23 p.*
- Allen, R. E., 1953, Uranium and its compounds, a bibliography of unclassified literature: *U.S. Atomic Energy Comm. TID-3041, 126 p.*
- Alsdorf, P. R., 1916, Occurrence, geology and economic value of pitchblende deposits of Gilpin County, Colorado: *Econ. Geology*, v. 11, p. 266-275.
- Alvord, D. C., 1953, Preliminary reserve statement 30, Reserve Block A, San Miguel Bench, Montrose County, Colorado: *U.S. Geol. Survey TEM-496, 8 p., figures.*
- 1953, Preliminary reserve statement 31, Reserve Blocks B and C, San Miguel Bench, Montrose County, Colorado: *U.S. Geol. Survey TEM-497, 10 p., figures.*
- 1953, Preliminary report on exploration of the San Miguel Bench, Montrose County, Colorado: *U.S. Geol. Survey TEM-628, 6 p., figures.*
- 1955, Carnotite resources of the San Miguel Bench, Montrose County, Colorado: *U.S. Geol. Survey TET-289, 19 p., tables, maps.*
- Anderson, J. J., Feldmann, R. M., and Palmer, D. F., 1975, Summary of reserve and resource data on coal, uranium, and oil shale in the states of Michigan, Ohio, Kentucky, Tennessee, West Virginia, North Dakota, South Dakota, Montana, Wyoming, Colorado, and Utah: *Kent, Ohio, Petroleum Inst., maps and tables.*
- Anderson, J. P., 1950, Preliminary reconnaissance: *U.S. Atomic Energy Comm. Report 35, (unpub.).*
- Anonymous, 1873, Occurrence of pitchblende in Gilpin County: *Mining Rev.*, v. 1, no. 6, p. 2.
- 1897, Uranium ore in Colorado: *Eng. Mining Jour.*, v. 64, p. 456.
- 1904, Radium: *Ores and Metals*, v. 13, no. 7, p. 17.
- 1908, Carnotite in Colorado: *Mining World*, v. 29, p. 160.
- 1913, The uranium and radium situation: *Eng. and Mining Jour.*, v. 95, no. 23, p. 1160.
- 1913, The Mining News, Colorado, San Juan region: *Eng. and Mining Jour.*, v. 96, no. 4, p. 187.
- 1913, Radium from American carnotite: *Eng. and Mining Jour.*, v. 95, no. 22, p. 1106.
- 1914, Molybdenum, tungsten and uranium ores: *Eng. and Mining Jour.*, v. 97, no. 2, p. 114.
- 1914, Colorado radium: *Eng. and Mining Jour.*, v. 97, no. 6, p. 336-337.
- 1920, Colorado--Colorado Pitchblende Co.: *Eng. and Mining Jour.*, v. 109, no. 12, p. 151.
- 1950, Four Corners Uranium Corp. will develop a reported uranium discovery: *Eng. and Mining Jour.*, v. 151, no. 7, p. 92.
- 1950, Colorado--A new discovery of uranium: *Eng. and Mining Jour.*, v. 151, no. 12, p. 132.
- 1950, Colorado--A new uranium processing plant may be built: *Eng. and Mining Jour.*, v. 151, no. 2, p. 153.
- 1950, Colorado--At Pagosa Springs: *Eng. and Mining Jour.*, v. 151, no. 12, p. 131.
- 1950, Colorado--Consolidated Caribou Silver Mines, Inc.: *Eng. and Mining Jour.*, v. 151, no. 3, p. 115.
- 1950, Colorado--Consolidated Caribou Silver Mines, Inc.: *Eng. and Mining Jour.*, v. 151, no. 5, p. 112, 114.
- 1950, Colorado--Pitchblende has been rediscovered: *Eng. and Mining Jour.*, v. 151, no. 9, p. 114.
- 1950, Colorado--R.O. Dulaney...Uranium Mines: *Eng. and Mining Jour.*, v. 151, no. 3, p. 114-115.
- 1950, Colorado--U.S. Vanadium Co.: *Eng. and Mining Jour.*, v. 151, no. 1, p. 109.

- 1950, Colorado--Uranium ore has been found in Oil Creek Canyon: Eng. and Mining Jour., v. 151, no. 10, p. 112.
- 1950, Colorado--Vitro Manufacturing Co.: Eng. and Mining Jour., v. 151, no. 9, p. 135.
- 1951, Five uranium mines: Eng. and Mining Jour., v. 152, no. 11, p. 131.
- 1951, A.E.C. reports...: Eng. and Mining Jour., v. 152, no. 11, p. 131.
- 1951, Colorado--Below Gold Creek near Gunnison: Eng. and Mining Jour., v. 152, no. 7, p. 162.
- 1951, Colorado--Beryllium, Inc.: Eng. and Mining Jour., v. 152, no. 4, p. 151.
- 1951, Colorado--Climax Molybdenum Co.: Eng. and Mining Jour., v. 152, no. 7, p. 162.
- 1951, Colorado--The operations of the Vanadium Corporation of America: Eng. and Mining Jour., v. 152, no. 4, p. 151.
- 1951, Colorado Western Land Co.: Eng. and Mining Jour., v. 152, no. 11, p. 131.
- 1951, Samples of ore taken from the Copper King Mine: Eng. and Mining Jour., v. 152, no. 11, p. 132.
- 1952, U.S. Vanadium's Uravan, Colo. mill doubles output--Colorado Plateau scene of stepped-up exploration: Mining Eng., v. 4, p. 1025-1026.
- 1975, The Rocky Mountain region - the nation's energy breadbasket?: Atom - U.S., v. 12, no. 1, p. 12 (4).
- Antony, J., 1967, Tucker Gulch area, Jefferson County, Colorado: Colorado School Mines, senior thesis, geol. map.
- Appleman, D. E., and Evans, H. T., Jr., 1957, The crystal structure of carnotite: Acta Cryst., v. 10, p. 765.
- Archbold, N. L., 1955, Relationships of calcium carbonate to lithology and vanadium-uranium deposits in the Salt Wash sandstone member of the Morrison Formation [abs.]: Econ. Geology, v. 50, p. 766.
- 1955, Relationships of calcium carbonate to lithology and vanadium-uranium deposits in the Salt Wash sandstone member of the Morrison Formation [abs.]: Geol. Soc. America Bull., v. 66, no. 12, pt. 2, p. 1526.
- 1956, Relationships of calcium carbonate to lithology and vanadium-uranium deposits in the Salt Wash sandstone of southwestern Colorado: U.S. Geol. Survey open-file report 396, 27 p.
- 1958, Relationship of carbonate cement to lithology and vanadium-uranium deposits in the Morrison Formation in southwestern Colorado: U.S. Geol. Survey TEI-513, (see Econ. Geology, 1959, v. 54, p. 666-682).
- 1959, Relationship of carbonate cement to lithology and vanadium-uranium deposits in the Morrison Formation in southwestern Colorado: Econ. Geology, v. 54, no. 4, p. 666-682, illus. (incl. geol. sketch map).
- Argall, G. O., Jr., 1943, The occurrences and production of vanadium: Colorado School Mines Quart., v. 38, no. 4, 56 p., illus. (incl. sketch map).
- Armbrustmacher, T. J., 1975, Thorium deposits in the Wet Mountains area, Fremont and Custer Counties, Colorado, in Craig, L. C., Brooks, R. A., and Patton, P. C., eds., Abstracts of the 1975 uranium and thorium research and resources conference [abs.]: U.S. Geol. Survey open-file report 75-595, p. 4.
- 1976, Thorium deposits in the Wet Mountains area, Fremont and Custer Counties, Colorado: U.S. Geol. Survey open-file report 76-284, 18 p.
- Armstrong, F. C., 1952, Pitchblende deposits on Quartz Hill, Central City district, Gilpin County, Colorado [abs.]: Geol. Soc. Am. Bull., v. 63, no. 12, pt. 2, p. 1232.
- 1952, Pitchblende deposits on Quartz Hill, Central City district, Gilpin County, Colorado: Econ. Geology, v. 47, no. 7, p. 767-768, (see also Geol. Soc. America Bull. v. 63, 1952, p. 1232).
- 1953, Pitchblende deposits on Quartz Hill, Central City district, Gilpin County, Colorado [abs.]: Am. Mineralogist, v. 38, nos. 3-4, p. 329.
- 1974, Uranium resources of the future "porphyry" uranium deposits, in Formation of uranium ore deposits: Internat. Atomic Energy Agency, p. 625-635.
- 1975, Distribution of uranium in granitic igneous rocks, in Craig, L. C., Brooks, R. A., and Patton, P. C., eds., Abstracts of the 1975 uranium and thorium research and resources conference [abs.]: U.S. Geol. Survey open-file report 75-595, p. 5.
- Aurand, H. A., 1920, Mineral deposits of the Western Slope: U.S. Geol. Survey Bull. 22, 78 p., 2 pls., 1 table, bibl.; maps (scale 1:1,000,000).
- Austin, S. R., 1962, Mineralogy of thorium: U.S. Atomic Energy Comm. TM-178 16 p., (for abstract see NSA 32:00732).
- Bachman, G. O., and Read, C. B., 1952, Trace elements reconnaissance investigations in New Mexico and adjoining states in 1951: U.S. Geol. Survey TEM-443-A, 22 p.
- Bachmann, H. G., 1957, Crystal-chemical studies of fibrous calcium-sodium vanadates [Colorado

- Plateau] [abs.]: Geol. Soc. America Bull., v. 68, no. 12, pt. 2, p. 1698.
- Baillie, W. N., 1962, Feldspar occurrences in Colorado: Colorado School Mines Mineral Industries Bull., v. 5, no. 4, p. 4.
- Bain, G. W., 1950, Geology of the fissionable materials: Econ. Geology, v. 45, p. 273-323.
- 1952, Uranium deposits in southwestern Colorado Plateau [rev.]: U.S. Atomic Energy Comm. RMO-982, p. 1-59.
- 1952, Geologic history of the Plateau uranium deposits: M.S.S. Report.
- 1953, Geology of the Plateau uranium deposits [Colorado Plateau], in Experimental simulation of plateau-type uranium deposits: U.S. Atomic Energy Comm. RMO-44, p. 20-33, sketch map.
- 1953, Experimental work suggested by observational study [Colorado Plateau], in Experimental simulation of plateau-type uranium deposits: U.S. Atomic Energy Comm. RMO-44, p. 34-49.
- 1956, Reconnaissance for uranium in the Phosphoria Formation: U.S. Atomic Energy Comm. RME-3141, 64 p.
- 1957, Discussion of urano-organic ores [Colorado Plateau]: Econ. Geology, v. 52, no. 2, p. 193-196.
- Bain, G. W., Eastman, H. P., Ruckmick, J. C., and others, 1953, Experimental simulation of Plateau type uranium deposits [Colorado Plateau]: U.S. Atomic Energy Comm. RMO-44, 210 p., illus. (incl. sketch maps).
- Bain, H. F., 1914, Idaho Springs; radium discovery: Mining Sci. Press, v. 108, p. 165.
- Baker, A. A., Dane, C. H., and Reaside, J. B., Jr., 1936, Correlation of Jurassic formations of parts of Utah, Arizona, New Mexico and Colorado: U.S. Geol. Survey Prof. Paper 183, 66 p.
- 1947, Revised correlations of Jurassic formations of parts of Utah, Arizona, New Mexico, and Colorado [geol. notes]: Am. Assoc. Petroleum Geologists Bull., v. 31, no. 9, p. 1664-1668.
- Baker, Arthur, 3d, 1960, Geology at the Pitch mine; Colorado [abs.]: Mining Eng., v. 12, no. 12, p. 1248.
- Baker, Arthur, 3d, and Scott, B. C., 1961, The mine geologist -- Past problems, present purpose at Pitch: Mining Eng., v. 13, no. 5, p. 488-491, illus.
- Baker, K. E., 1953, Preliminary report on uranium at the Ralston Creek mine, Jefferson County, Colorado: U.S. Atomic Energy Comm. report, (unpub.).
- Bail, M. M., 1954, The sedimentary carnotite deposits of the Colorado Plateau: Compass, v. 31, no. 3, p. 172-174.
- Baltz, E. H., Jr., 1953, Uranium in carbonaceous rocks, southwestern Colorado and New Mexico, in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 119-121, sketch map.
- 1954, New Mexico and southeastern Colorado, in Geologic investigations of radioactive deposits - Semiannual progress report, June 1, 1954 to Nov. 30, 1954: U.S. Geol. Survey TEI-490, p. 219-222.
- 1954, Uranium in carbonaceous rocks, southwestern Colorado and northwestern New Mexico, in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-440, p. 101-102.
- 1955, A reconnaissance for uranium in carbonaceous rocks in southwestern Colorado and parts of New Mexico: U.S. Geol. Survey TEM-915, 52 p., sketch maps.
- 1955, A reconnaissance for uranium in parts of New Mexico and Colorado, 1954: U.S. Geol. Survey TEM-929, 44 p., geol. sketch map.
- 1957, Distribution and thickness of salt in the Paradox Basin of southwestern Colorado and southeastern Utah--A preliminary report: U.S. Geol. Survey TEI-706.
- Banks, P. O., and Silver, L. T., 1964, Re-examination of isotopic relationships in Colorado Front Range uranium ores: Geol. Soc. America Bull., v. 75, no. 5, p. 469-476, illus., tables.
- Barge, E. M., 1953, Development drilling on the Early Morn group of claims, Gypsum Valley district, San Miguel County, Colorado: U.S. Geol. Survey TEM-623, 7 p., figures.
- 1953, Development drilling on the Tiny claim, Gypsum Valley district, San Miguel County, Colorado: U.S. Geol. Survey TEM-680, 8 p., figures.
- 1953, Development drilling on the Sunset claim, Gypsum Valley district, San Miguel County, Colorado: U.S. Geol. Survey TEM-574, 8 p., figures.
- Barker, Fred, 1969, Precambrian geology of the Needle Mountains, southwestern Colorado: U.S. Geol. Survey Prof. Paper 644-A, 35.
- Barnes, J. W., 1969, Future uranium requirements: Mines Mag., v. 59, no. 1, p. 20-23.
- Barrett, J. K., and Pearl, R. H., 1976, Hydrogeological data of thermal springs and wells in Colorado: Colorado Geol. Survey Inf. Ser. 6, 124 p., 2 figures, 3 tables, map (scale approx. 1:2,600,000).
- Bartleson, B. L., Bryant, B., and Mutschler,

- F. E., 1968, Permian and Pennsylvanian stratigraphy and nomenclature, Elk Mountains, Colorado, In Geological Survey research 1968: U.S. Geol. Survey Prof. Paper 600-C, p. C53.
- Barton, P. B., Jr., 1957, Synthesis and properties of carnotite and its alkali analogues: U.S. Geol. Survey TEI-645, (see Am. Mineralogist, 1958, v. 43, p. 799-817).
- Baskerville, W., 1909, Uranium: Eng. and Mining Jour., v. 87, p. 257-258.
- Bass, N. W., Eby, J. B., and Campbell, M. R., 1955, Geology and mineral fuels of parts of Routt and Moffat Counties, Colorado: U.S. Geol. Survey Bull. 1027-D, p. 143-250.
- Bastin, E. S., 1915, Geology of the pitchblende ores of Colorado: U.S. Geol. Survey Prof. Paper 90-A, 5 p., illus.
- 1916, Occurrence, geology, and economic value of the pitchblende deposits of Gilpin County, Colorado [discussion]: Econ. Geology, v. 11, p. 681-685.
- 1950, Interpretation of ore textures: Geol. Soc. America Mem. 45, 101 p.
- Bastin, E. S., and Hill, J. M., 1915, Some features of the ore deposits of Gilpin County, Colorado: Washington Acad. of Sci. Jour., v. 5, pp. 160-164.
- 1915, Preliminary report on the economic geology of Gilpin County, Colorado: U.S. Geol. Survey Bull. 620, 295-330.
- Bates, R. C., 1959, An application of statistical analysis to exploration for uranium on the Colorado Plateau: Econ. Geology, v. 54, no. 3, p. 449-466, illus.
- Battelle-Pacific Northwest Laboratories, 1974, Assessment of uranium and thorium resources in the United States and the effect of policy alternatives: Natl. Tech. Inf. Service PB-238 658, Natl. Sci. Found.
- Becke, F., 1909, Uranpöcherz von Kirk Mine, Bald Mountain, Gilpin County [Pitchblende from the Kirk mine, Bald Mountain, Gilpin County]: Tschermaks Mineralog. Petrog. Mitt., v. 28, p. 188.
- Bell, Henry, 3d, 1950, Results of diamond-drill exploration and plans for additional drilling in the Legin group area, San Miguel County, Colorado: U.S. Geol. Survey TEM-113, 12 p., figures, maps.
- 1950, Carnotite resources of the Lower group of claims, San Miguel County, Colorado: U.S. Geol. Survey TEI-114, 24 p., (see U.S. Geol. Survey MF-241, TEI-690).
- 1951, Preliminary report on diamond-drill exploration of the Legin group area, San Miguel County, Colorado: U.S. Geol. Survey TEM-275, 7 p., figures.
- 1951, Preliminary appraisal of diamond-drill exploration in the Legin group area, San Miguel County, Colorado: U.S. Geol. Survey TEM-200, 6 p., maps, figures.
- 1951, Preliminary reserve statement 15, Reserve Block D, Legin group area, San Miguel County, Colorado: U.S. Geol. Survey TEM-191, 4 p., tables, figures.
- 1951, Preliminary reserve statement 14, Reserve Blocks B and C, Legin group area, San Miguel County, Colorado: U.S. Geol. Survey TEM-190, 4 p., tables, figures.
- 1952, Interim report on exploration in the Spud Patch area, San Miguel County, Colorado: U.S. Geol. Survey TEM-294, 7 p., figures.
- 1952, Carnotite resources of the Legin group area, San Miguel County, Colorado: U.S. Geol. Survey TEI-164, 102 p., maps, tables, (see U.S. Geol. Survey TEI-690).
- 1953, Carnotite resources of the Spud Patch area, San Miguel County, Colorado: U.S. Geol. Survey TEI-286, 46 p., maps, (see U.S. Geol. Survey TEI-690).
- Bell, Henry, 3d, and Cramer, M. A., 1951, Preliminary reserve statement 19, supplemental report on Reserve Block F, Legin group area, San Miguel County, Colorado: U.S. Geol. Survey TEM-257, 4 p., figures, tables.
- 1951, Preliminary reserve statement 16, Reserve Blocks E, F, and G, Legin group area, San Miguel County, Colorado: U.S. Geol. Survey TEM-192, 4 p., figures, tables.
- 1952, Preliminary reserve statement 21, Reserve Blocks A and B, Spud Patch area, San Miguel County, Colorado: U.S. Geol. Survey TEM-259, 4 p., tables, figures.
- Bell, Henry, 3d, and Icke, H. M., 1950, Preliminary appraisal of diamond-drill exploration in the Spud Patch area, San Miguel County, Colorado: U.S. Geol. Survey TEM-112, 7 p., map.
- Bell, K. G., 1949, Semiquantitative determination of uranium and stratigraphic correlation by gamma-ray logging of drill holes in carnotite deposits: U.S. Geol. Survey TEI-87.
- 1954, Uranium and thorium in sedimentary rocks, In Nuclear geology - A symposium on nuclear phenomena in the earth sciences: New York, N.Y. John Wiley & Sons, Inc. p. 98-114.
- 1956, Uranium in precipitates and evaporites, In Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc., v. 6, p. 520-524.
- 1956, Uranium in precipitates and evaporites, In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf.

- on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 381-386.
- 1960, Uranium and other trace elements in petroleum and rock asphalts: U.S. Geol. Survey Prof. Paper 356-B, p. 45-65.
- Bell, K. G., and Rogers, A. S., 1950, Experimental gamma-ray logging of drill holes in the Calamity area, Mesa County, Colorado: U.S. Geol. Survey TEI-84, 10 p., figures (gamma-ray logs).
- Bellamy, R. G., and Hill, N. A., 1963, Extraction and metallurgy of uranium, thorium, and beryllium, in International series on monographs on nuclear energy, Division 8: Materials, v. 1, New York, N. Y., Pergamon Press Book, The MacMillan Co., 206 p.
- Belser, Carl, 1952, Arkansas-White-Red river basins; county report, Colorado: Mines and Mineral Reports of Colorado, (19 parts in two volumes, consisting of individual county reports).
- Bendix Field Engineering Corporation, 1975, Survey of lands held for uranium exploration, development and production in fourteen western states in the six month period ending June 30, 1975: U.S. Energy Research Devel. Adm. GJO-109 (76-1) open-file report, 23 p.
- 1976, Survey of lands held for uranium exploration, development and production in fourteen western states in the six month period ending December 31, 1975: U.S. Energy Research Devel. Adm. GJBX-11(76), open-file report.
- 1977, Survey of lands held for uranium exploration, development and production in fourteen western states, for six-month period ending December 31, 1976: U.S. Energy Research Devel. Adm. GJBX-33(77) open-file report, 20 p.
- 1977, Annual NURE report, 1976: U.S. Energy Research Devel. Adm. GJBX-11(77) open-file report, 75 p.
- 1977, Survey of lands held for uranium exploration, development and production in fourteen western states for six-month period ending June 30, 1976: U.S. Energy Research Devel. Adm. GJBX-2(77).
- Benicke, A., 1911, Uranium and vanadium from Colorado: Mining Eng. World, v. 35, p. 917-918.
- Bergin, M. J., 1955, Washakie Basin, Wyoming and Colorado; Maybell-Lay area, Moffat County, Colorado, in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 176-179, geol. sketch map.
- 1956, Maybell-Lay area, Moffat County, Colorado, in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956: U.S. Geol. Survey TEI-640, p. 138-143, geol. sketch maps.
- 1957, Maybell-Lay area, Colorado, in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, p. 280-291, illus. (incl. geol. sketch maps).
- Bergin, M. J., and Chisholm, W. A., 1956, Maybell-Lay area, Moffat County, Colorado, in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 190-199, illus. (incl. geol. sketch map).
- Berghof, W. R., 1970, Absolute age relationships in selected Colorado Plateau uranium ores: Columbia Univ. Ph.D. dissert., 150 p.
- 1973, Absolute age of relationships in selected Colorado Plateau uranium ores [abs.]: Dissert. Abs. Internat., v. 34, p. 2093-B.
- Beroni, E. P., and Derzay, R. C., 1955, The uranium deposits of the Fish Creek district, Colorado, in Guidebook to the geology of northwest Colorado: Internat. Assoc. Petroleum Geologists 6th Ann. Field Conf. Guidebook, Salt Lake City, Utah, p. 123.
- Beroni, E. P., and King, R. U., 1950, The Mike Doyle carnotite deposit, El Paso County, Colorado: U.S. Geol. Survey TEM-133, 8 p., geol. sketch maps.
- 1952, The Mike Doyle carnotite deposit, El Paso County, Colorado: U.S. Geol. Survey TEM-133A, 6 p., geol. sketch maps.
- Beroni, E. P., and McKeown, F. A., 1952, Reconnaissance for uraniumiferous rocks in northwestern Colorado, southwestern Wyoming, and northeastern Utah: U.S. Geol. Survey TEI-308, 41 p., illus. (incl. geol. sketch maps).
- Beroni, E. P., Granger, H. C., and King, R. U., 1950, Radiometric examination of the Williamson and General Chemical fluorite deposits, Jamestown district, Boulder County, Colorado: U.S. Geol. Survey TEM-25.
- Berthoud, E. L., 1875, On the occurrence of uranium, silver, iron, etc., in the Tertiary Formation of Colorado territory: Acad. Nat. Sci. Philadelphia Proc., v. 27, p. 363-366.
- Bertrand, Didier, 1950, The biogeochemistry of vanadium, pt. 2 of Survey of contemporary knowledge of biogeochemistry: Am. Mus. Nat. History Bull., v. 94, p. 405-455.
- Bethke, P. M., 1953, Influences on precipitation of uranium minerals from uranyl solutions, in Experimental simulation of plateau type uranium deposits: U.S. Atomic Energy Comm. RMO-44, p. 165-210, illus.
- Bever, J. E., 1952, Petrology of the Guffey-Micanite region, Colorado [abs.]: Am. Mineralogist, v. 37, p. 285.
- Beverly, R. G., and Bishop, V. P., 1961, Air

- sampling limits radiation exposure in Colorado uranium mines: *Mining Eng.*, v. 13, no. 6, p. 962-965.
- Bleber, P. P., 1954, Preliminary reserve statement 41, Reserve Block H, Long Park, Montrose County, Colorado: U.S. Geol. Survey TEM-778, 7 p., figures.
- Bleber, P. P., and Bowers, H. E., 1954, Preliminary reserve statement 34, Reserve Block E, Long Park area, Montrose County, Colorado: U.S. Geol. Survey TEM-686, 7 p., figures.
- Bleniewski, C. L., Persse, F. H., and Brauch, E. F., 1971, Availability of uranium at various prices from resources in the U. S.: U.S. Bur. Mines Inf. Circ. 8501, 92 p.
- Bird, A. G., 1956, Primary pitchblende deposits at the Ralston Creek mine: *Uranium*, v. 3, no. 8, p. 8.
- 1957, Uranium deposits in the Golden Gate Canyon and Ralston Creek area, Jefferson County, Colorado: Colorado Mining Assoc., Natl. Western Mining Conf., 60th, Denver, Colo., Trans., v. 1, p. 148-151.
- 1957, Uranium deposits in the Golden Gate Canyon and Ralston Creek area, Jefferson County, Colorado: *Mines Mag.*, v. 47, no. 3, p. 91-93, illus.
- 1957, Pitchblende occurrences in the Golden Gate Canyon-Ralston Creek areas of Jefferson County, Colorado [abs.]: *Geol. Soc. America Bull.*, v. 68, no. 12, pt. 2, p. 1858-1859.
- 1958, Petrology and ore deposits of Schwartzwalder uranium mine, Jefferson County, Colorado: Univ. Colorado M. S. thesis.
- 1966, Metamorphic petrology of the Schwartzwalder mine area, Jefferson County, Colorado [abs.]: *Geol. Soc. America Spec. Paper* 87, p. 274.
- Bird, A. G., and Stafford, H. S., 1955, Uranium deposits of the Colorado Front Range foothills region: *Mines Mag.*, v. 45, no. 3, p. 81-82.
- Black, R. A., 1953, Geophysical district studies [Colorado Plateau], in *Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953*: U.S. Geol. Survey TEI-390, p. 50-55.
- 1953, Geophysical investigations [Colorado Plateau], in *Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953*: U.S. Geol. Survey TEI-330, p. 68-72.
- 1953, Geophysical investigations on the Gramlich group, Paradox district, Montrose County, Colorado: U.S. Geol. Survey TEM-578, 19 p., figures.
- 1954, District geophysical studies, in *Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1954*: U.S. Geol. Survey TEI-490, p. 78-85, illus.
- 1954, District geophysical studies [Colorado], in *Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1953, to May 31, 1954*: U.S. Geol. Survey TEI-440, p. 45-47.
- 1956, Geophysical studies in uranium geology [Colorado, Utah, Wyoming], in *Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956*: U.S. Geol. Survey TEI-640, p. 241-243.
- 1956, Geophysical exploration for uranium on the Colorado Plateau, in *Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955*: U.S. Geol. Survey Prof. Paper 300, p. 721-726.
- 1956, Geophysical exploration for uranium on the Colorado Plateau, in *Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc.*, v. 6, p. 766-771, illus.
- Black, R. A., and Davis, W. E., 1953, Geophysical investigations of uranium deposits in the Colorado Plateau [abs.]: *Am. Inst. Mining & Metallurgical Engineers, Mining Geology, Geophysics Div. Ann. Mtg., Abs. Tech. Papers*, p. 3.
- Blackman, D. H., 1950, Geologic guides to carnotite deposits on the Colorado Plateau: U.S. Geol. Survey TEM-170.
- 1950, Geologic guides to carnotite deposits, progress report: U.S. Geol. Survey TEM-101.
- 1950, Geologic guides to carnotite deposits on the Colorado Plateau [abs.]: *Mining Cong. Jour.*, v. 36, no. 10, p. 84.
- 1951, Geologic guides to prospecting for carnotite deposits on the Colorado Plateau: U.S. Geol. Survey TEI-119 (see U.S. Geol. Survey Bull. 988-B).
- Blanc, V., 1905, A few properties of uranium; its preparation, gravimetric determination and occurrence: *Western Chem. Metallurgy*, v. 1, p. 252-256.
- Boardman, R. L., 1954, Preliminary reserve statement 42, Reserve Block G, Long Park area, Montrose County, Colorado: U.S. Geol. Survey TEM-779, 7 p., figures.
- 1954, Preliminary reserve statement 43, parts of Reserve Block A, Atkinson Mesa, and Reserve Block 5, Dolores Bench, Montrose County, Colorado: U.S. Geol. Survey TEM-801, 12 p., figures.
- 1955, Uravan district, in *Geologic investigations of radioactive deposits - Semiannual progress*

- report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 29-31.
- 1955, Uravan project, Uravan district, Montrose County, Colorado, In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEI-540, p. 39-41.
- 1955, Preliminary report on diamond-drill exploration in the southern part of the Uravan district, including the Long Park area, Montrose County, Colorado: U.S. Geol. Survey TEM-885, 13 p., figures.
- 1956, Uravan district, Montrose County, Colorado, In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 45-47.
- 1957, Uravan district, Colorado, In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1957: U.S. Geol. Survey TEI-700, p. 18-25, 29-30, illus.
- Boardman, R. L., Bowers, H. E., Litsey, L. R., and others, 1955, Exploration for uranium-vanadium deposits in Long Park and adjacent areas in the southern part of the Uravan district, Montrose County, Colorado: U.S. Geol. Survey TEI-550, 170 p., maps, tables. (see U.S. Geol. Survey TEI-690).
- Boardman, R. L., Ekren, E. B., and Bowers, H. E., 1956, Sedimentary features of upper sandstone lenses of the Salt Wash member and their relation to uranium-vanadium deposits in the Uravan district, Montrose County, Colorado [rev.], In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 221-226.
- Boardman, R. L., Litsey, L. R., and Bowers, H. E., 1957, Results of U.S. Geological Survey exploration for uranium-vanadium deposits in the Club Mesa area, Uravan district, Montrose county, Colorado: U.S. Geol. Survey TEM-979 (see U.S. Geol. Survey Mineral Inv. Field Studies Map MF-169).
- 1958, Exploration for uranium-vanadium deposits by the U.S. Geological Survey in the Club Mesa area, Uravan district, Montrose County, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-169, scale 1:7,200, geol. map, te.
- Boberg, W. W., 1970, Transportation and precipitation of uranium in the South Platte river, Colorado Univ. Colorado M.S. thesis.
- Boberg, W. W., and Runnells, D. D., 1971, Reconnaissance study of uranium in the South Platte River, Colorado: Econ. Geology, v. 66, no. 3, p. 435-450, illus. (incl. geol. sketch map).
- Boos, C. M., and Boos, M. F., 1957, Tectonics of eastern flank and foothills of Front Range, Colorado: Am. Assoc. Petroleum Geologists Bull., v. 41, no. 12, p. 2603-2676.
- Borrowman, S. R., and Bridges, D. W., 1963, Solvent extraction recovery of thorium and yttrium from siliceous Colorado ores: U.S. Bur. Mines Report Inv. 6457, 16 p.
- Borrowman, S. R., and Rosenbaum, J. B., 1962, Recovery of thorium from ores in Colorado, Idaho, and Montana: U.S. Bur. Mines Report Inv. 5916, 35 p.
- Botinelly, Theodore, 1955, Ore mineralogy [Colorado], In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEI-540, p. 74-75.
- 1955, Mineralogic studies, ore mineralogy [Colorado], In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 122-124.
- 1956, Ore mineralogy [Colorado Plateau], In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 117-119.
- Botinelly, Theodore, and Fischer, R. P., 1955, Mineralogy and geology of the vanadium-uranium deposit of the Rifle and Garfield Mines, Garfield County, Colorado: U.S. Geol. Survey TEI-516 (see U.S. Geol. Survey Prof. Paper 320, p. 13-24).
- 1959, Mineralogy and geology of the Rifle and Garfield mines, Garfield County, Colorado, In Garrels, R. M., and Larsen, E. S., 3d, compilers, Geochemistry and mineralogy of the Colorado Plateau uranium ores: U.S. Geol. Survey Prof. Paper 320, p. 213-218, illus.
- Botinelly, Theodore, and Weeks, A. D., 1954, General mineralogic studies [Colorado Plateau], In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-440, p. 40-42.
- 1954, General mineralogic studies [Colorado Plateau], In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-490, p. 54-58.
- 1957, Mineralogical classification of uranium-vanadium deposits of the Colorado Plateau: U.S. Geol. Survey TEM-1011 12 p., (see U.S. Geol. Survey Bull. 1074-A).
- 1957, Mineralogical classification of uranium-vanadium deposits of the Colorado Plateau: U.S. Geol. Survey Bull. 1074-A, 5 p., (see U.S. Geol. Survey TEM-1011).

- Botinelly, Theodore, Weeks, A. D., and Johnson, D. H., 1953, General mineralogic studies [Colorado Plateau], in *Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953*: U.S. Geol. Survey T21-390, p. 45-48.
- Boudette, E. L., 1956, Progress report on investigation of methods using aerial photographs in regional fracture pattern studies on the Colorado Plateau: U.S. Geol. Survey TEM-728.
- Boutwell, J. M., 1904, Vanadium and uranium in southeastern Utah: U.S. Geol. Survey Bull. 260-E, p. 200-210 [1905].
- Bowers, H. E., 1954, Interim report on diamond-drill exploration and plans for additional drilling in the Long Park area, Montrose County, Colorado: U.S. Geol. Survey TEM-771, 6 p., figures.
- 1955, Preliminary reserve statement 47, reserve block J, Long Park area, Montrose County, Colorado: U.S. Geol. Survey TEM-886.
- 1955, Preliminary reserve statement 46, Reserve Block I, Long Park area, Montrose County, Colorado: U.S. Geol. Survey TEM-839, 13 p., figures.
- Bowers, H. E., and Shawe, D. R., 1961, Heavy minerals as guides to uranium-vanadium ore deposits in the Slick Rock district, Colorado: U.S. Geol. Survey Bull. 1107-B, p. 169-218, illus., tables.
- Bowie, S. H. U., 1970, Some geological concepts for consideration in the search for uranium provinces and major uranium deposits [with discussion], in *Uranium exploration geology: Internat. Atomic Energy Agency Symposium, Vienna, 1970 Proc.*, p. 285-300, illus. (incl. sketch maps).
- 1970, Uranium; the present and the future, in *Mining and petroleum geology: Commonwealth Mining and Metal Cong.*, 9th, 1969, Proc., Inst. Mining and Metallurgy, London, v. 2, p. 405-420.
- Bowie, S. H. U., and Cameron J., 1976, Existing and new techniques in uranium exploration, in *Exploration for uranium ore deposits: Internat. Atomic Energy Agency Symposium, Vienna, 1976, Proc.*, p. 3-13.
- Boyd, F. S., Jr., and Bromley, C. P., 1953, Reconnaissance of the Aspen area, including Smuggler Mine, Pitkin County, Colorado: U.S. Atomic Energy Comm. RME-4031, 23 p.
- Boyden, T. A., 1975, The marketing of uranium, in *Colorado Mining Assoc. Mining Yearbook: Denver, Colorado, Colorado Mining Assoc.*, p. 110.
- Boyer, R. E., 1961, Occurrence of radioactive fluoritic sandstone, Wet Mountains, Colorado: *Econ. Geology*, v. 56, no. 4, p. 780-783, illus.
- Boyer, W. H., 1956, Geologic reconnaissance of the northwestern White River Plateau, Rio Blanco and Garfield Counties, Colorado: U.S. Atomic Energy Comm. RME-90 46 p.
- Bozag, H. A., 1943, Precambrian geology of an area near the mouth of Golden Gate Canyon: Colorado School Mines M.S. thesis no. 605.
- Braddock, W. A., 1969, Geology of the Empire quadrangle, Grand, Gilpin, and Clear Creek Counties, Colorado: U.S. Geol. Survey Prof. Paper 616, 56 p.
- Bradley, W. H., 1945, Geology of the Washakie Basin, Sweetwater and Carbon Counties, Wyoming, and Moffat County, Colorado [map]: U.S. Geol. Survey Oil and Gas Inv. Prelim. Map 32, 1 sheet.
- 1950, Occurrence of uranium deposits: *Bull. Atomic Scientists*, v. 4, p. 149-152.
- Brady, F. W., 1911, Vanadium, its properties and metallurgy: *Mines and Minerals*, v. 32, Scranton, Penn., International Textbook Co., p. 106-107.
- Brasher, G. K., 1951, Preliminary reserve statement 20, Reserve Blocks H, I, J, K, L, M, and N, Outlaw Mesa, Mesa County, Colorado: U.S. Geol. Survey TEM-258, 5 p., tables, figures.
- 1952, Preliminary report on diamond-drill exploration on Outlaw Mesa, Mesa County, Colorado: U.S. Geol. Survey TEM-295.
- 1952, Carnotite resources of Outlaw Mesa, Mesa County, Colorado: U.S. Geol. Survey T21-163, 117 p., maps, tables, (see U.S. Geol. Survey T21-690).
- Brasher, G. K., and Douglas, R. F., 1952, Development drilling on the Gramlich group, Paradox district, Montrose County, Colorado: U.S. Geol. Survey TEM-459, 22 p., figures.
- Brasher, G. K., and Jobin, D. A., 1951, Results of diamond-drill exploration and plans for additional drilling on Outlaw Mesa, Mesa County, Colorado: U.S. Geol. Survey TEM-202, 9 p., maps, figures.
- 1951, Preliminary reserve statement 13, Reserve Blocks D, E, F, and G, Outlaw Mesa, Mesa County, Colorado: U.S. Geol. Survey TEM-189, 4 p., tables, figures.
- 1951, Preliminary reserve statement 10, Reserve Blocks B and C, Mineral Channel Nos. 10 and 12 claims, Outlaw Mesa, Mesa County, Colorado: U.S. Geol. Survey TEM-186, 4 p., figures, tables.
- Bray, J. M., 1942, Minor chemical elements in fluorite from Jamestown, Colorado: *Am. Mineralogist*, v. 27, p. 769-775.
- Breger, I. A., 1955, Association of uranium with a naturally occurring coal extract [abs.]: *Econ. Geology*, v. 50, no. 7, p. 767-768.

- 1955, Association of uranium with a naturally occurring coal extract [abs.]: Geol. Soc. America Bull., v. 66, no. 12, pt. 2, p. 1534.
- 1956, Organic geochemistry of uranium [Colorado Plateau], in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956: U.S. Geol. Survey TEI-640, p. 289-291.
- 1956, Preliminary studies of coalified wood associated with uranium on the Colorado Plateau: U.S. Geol. Survey TEI-714, 49 p.
- 1956, Studies of fossil plant debris associated with uranium on the Colorado Plateau: U.S. Geol. Survey TEM-952.
- 1957, Organic geochemistry of uranium, in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1957: U.S. Geol. Survey TEI-700, p. 246-248.
- 1957, Organic geochemistry of uranium, in Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1957, to May 31, 1958: U.S. Geol. Survey TEI-740, p. 278-282.
- 1958, Association of uranium with coalified logs [Colorado Plateau], in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1958: U.S. Geol. Survey TEI-750, p. 114-115.
- 1961, Preliminary studies of coalified wood associated with uranium on the Colorado Plateau, in Origin and constitution of coal: Canada, Dept. Energy, Mines and Resources Conf., 3d, Halifax, Nova Scotia, p. 356-385.
- 1974, Role of organic matter in the accumulation of uranium: The organic geochemistry of the coal-uranium association, in Formation of uranium ore deposits: Internat. Atomic Energy Agency Symposium, Athens, 1974, Proc., p. 99-124.
- Breger, I. A., and Chandler, J. C., 1959, Extractability of humic substances from coalified logs as a guide to temperatures in Colorado Plateau sediments [abs.]: Geol. Soc. America Bull., v. 70, no. 12, pt. 2, p. 1574.
- 1960, Extractability of humic acid from coalified logs as a guide to temperatures in Colorado Plateau sediments: Econ. Geology, v. 55, no. 5, p. 1039-1047, illus.
- Breger, I. A., and Deul, Maurice, 1952, Status of investigations on the geochemistry and mineralogy of uraniumiferous lignites: U.S. Geol. Survey TEI-284 80 p., (see also U.S. Geol. Survey Bull. 1036-H; Econ. Geology, v. 50, no. 2, p. 206-226).
- 1953, Uranium in lignite and coal, in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 159-161.
- 1955, The association of uranium with carbonaceous materials on the Colorado Plateau: U.S. Geol. Survey TEI-539 35 p., (see U.S. Geol. Survey Prof. Paper 320, p. 139-149; Geol. Soc. America Bull., v. 66, no. 12, pt. 2, p. 1534, 1955; Econ. Geology, v. 50, no. 7, p. 767-768, 1955).
- 1955, Geochemistry of uranium-bearing carbonaceous rocks [Colorado Plateau], in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 273-275.
- 1956, Geochemistry of uranium-bearing carbonaceous rocks [Colorado Plateau], in Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 334-337.
- 1956, The organic geochemistry of uranium, in Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 505-510.
- 1956, The organic geochemistry of uranium, in Geology of uranium and thorium: U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc., v. 6, p. 418-421.
- Breger, I. A., and Moore, R. T., 1955, Preliminary experiments on the reduction of the uranyl ion to uraninite by carbonaceous substances: U.S. Geol. Survey TEM-942.
- Breger, I. A., and Schopf, J. M., 1956, Geochemical studies of coalified wood from the Colorado Plateau coal [abs.]: Geol. Soc. America Bull., v. 67, no. 12, pt. 2, p. 1675.
- Brew, D. A., 1953, Development drilling on the American Eagle group, Gypsum Valley district, Montrose County, Colorado: U.S. Geol. Survey TEM-490, 9 p., figures.
- 1953, Preliminary reserve statement 32, Reserve Block A, Atkinson Mesa, Montrose County, Colorado: U.S. Geol. Survey TEM-498, 19 p., figures.
- 1953, Preliminary report on exploration in the Atkinson Mesa area, Montrose County, Colorado: U.S. Geol. Survey TEM-274, 5 p., figures.
- 1954, Exploration for uranium deposits in the Atkinson Mesa area, Montrose County, Colorado: U.S. Geol. Survey TEI-290, 63 p., maps, tables, (see U.S. Geol. Survey TEI-690).
- Brinkworth, G. L., 1974, Geophysical investigation of the Colorado Front Range mineral belt: Univ. Colorado Ph.D. thesis.
- Brock, M. R., and Singewald, Q. D., 1968, Geologic map of the Mount Tyndall quadrangle, Custer County Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-596, (2 sheets accompanied by 5-page text.) scale 1:24,000.

- Broding, R. A., and Rummerfeld, B. F., 1956, *Uranium hunters adopt oil exploration techniques [Colorado Plateau]*: Oil and Gas Jour., v. 54, no. 71, p. 185-188, illus.
- 1956, Petroleum exploration methods as applied to uranium exploration [Colorado Plateau]: Mines Mag., v. 46, no. 7, p. 14-24, illus.
- Bromfield, C. S., 1967, Geology of the Mount Wilson Quadrangle, western San Juan Mountains, Colorado: U.S. Geol. Survey Bull. 1227, 100 p.
- Bromfield, C. S., and Conroy, A. R., 1964, Preliminary geologic map of the Mount Wilson quadrangle, San Miguel and Dolores Counties, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-273, scale 1:24,000 (see U.S. Geol. Survey Bull. 1227).
- Bromfield, C. S., and Williams, F. E., 1972, Mineral resources of Wilson Mountains Primitive area, Colorado, with a section on Geophysical studies, by Peter Popenoe: U.S. Geol. Survey Bull. 1353-A, 79 p.
- Brooks, R. A., 1975, Role of colloids in epigenesis -- speculations on the ore-forming process, In Craig, L. C., Brooks, R. A., and Patton, P. C., eds., Abstracts of the 1975 uranium and thorium research and resources conference [abs.]: U.S. Geol. Survey open-file report 75-595, p. 7-8.
- 1975, The use of the redox component of S-P in uranium exploration [abs.]: Geophysics.
- Brooks, R. A., and Campbell, J. A., 1976, Preliminary investigations of the elemental variation and diagenesis of a tabular uranium deposit, La Sal mine, San Juan County, Utah: U.S. Geol. Survey open-file report 76-287, 30 p., 14 figures, 5 tables.
- 1976, Preliminary investigations of the elemental variation and diagenetic aspects of a tabular uranium deposit, La Sal Mine, San Juan County, Utah [abs.]: Am. Assoc. Petroleum Geologists Bull., v. 60, no. 4, p. 653-654.
- Brown, Andrew, 1961, Geologic investigations of radioactive deposits, a bibliography of U.S. Geological Survey publications on the geology of radioactive deposits: U.S. Geol. Survey TEI-777.
- Brown, H., and Silver, L. T., 1956, The possibilities of obtaining long-range supplies of uranium, thorium, and other substances from igneous rocks, in Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 91-95.
- Brown, L. J., 1955, Reconnaissance for uranium in the Julesburg Basin, Logan County, northeastern Colorado: U.S. Atomic Energy Comm. DEB-3-TM-27
- 10 p., (for abstract see NSA 32:00671).
- Brown, L. J., and Easton, W. W., 1955, Results of an airborne reconnaissance for uranium in southeastern and south central Colorado: U.S. Atomic Energy Comm. RME-1059, 14 p., sketch maps.
- Brown, L. J., and Maian, R. C., 1954, Reconnaissance for uranium in the south central part of Colorado: U.S. Atomic Energy Comm. RME-1044, 17 p., illus. (incl. geol. maps).
- Brown, L. J., and Stehle, F. T., 1956, Airborne and ground reconnaissance in the Denver Basin, Colorado: U.S. Atomic Energy Comm. DEB-3-TM-30 11 p., (for abstract see NSA 32:03452).
- Brown, L. J., Easton, W. W., and Mallory, N. S., 1955, Airborne reconnaissance in South Park, Colorado: U.S. Atomic Energy Comm. RME-1058, 10 p.
- Bruyn, Kathleen, 1955, Uranium country [Colorado Plateau]: Boulder, Colorado, Univ. Colorado Press, 165 p., illus. (incl. geol. sketch map).
- Bryner, Leonid, 1950, Preliminary appraisal of the results of diamond-drill exploration on Club Mesa, Montrose County, Colorado: U.S. Geol. Survey TEM-111, 12 p., maps, figures.
- 1952, Carnotite resources of Club Mesa, Montrose County, Colorado: U.S. Geol. Survey TEI-147, 91 p., tables, maps, (see U.S. Geol. Survey Mineral Inv. Field Studies Map MF-169).
- 1971, Map showing locations of holes drilled in 1948 to 1953 by U.S. Geological Survey, Club Mesa area, Montrose County, Colorado: U.S. Geol. Survey open-file report, 4 p., (1 sheet).
- Bryner, Leonid, and Cramer, M. A., 1951, Preliminary reserve statement 18, Reserve Block 6, Club Mesa, Montrose County, Colorado: U.S. Geol. Survey TEM-256, 4 p., tables, figures.
- 1952, Preliminary reserve statement 23, Reserve Block 8, Club Mesa, Montrose County, Colorado: U.S. Geol. Survey TEM-251, 4 p., tables, figures.
- 1952, Preliminary reserve statement 22, Reserve Block 7, Club Mesa, Montrose County, Colorado: U.S. Geol. Survey TEM-260, 4 p., figures, tables.
- Bryner, Leonid, and Douglas, R. F., 1952, Interim report on exploration on Club Mesa, Montrose County, Colorado: U.S. Geol. Survey TEM-296, 8 p., figures.
- Bryner, Leonid, and Withington, C. F., 1951, Interim report of diamond-drill exploration, Club Mesa, Montrose County, Colorado: U.S. Geol. Survey TEM-204, 9 p., maps.
- Buck, K. L., 1955, Selected annotated bibliography and index map of thorium and rare-earth deposits in the United States and Alaska: U.S. Geol.

- Survey TEI-531, (see U.S. Geol. Survey Bull. 1019-F, p. 517-541).
- 1957, Selected annotated bibliography of thorium and rare-earth deposits in the United States, including Alaska: U.S. Geol. Survey Bull. 1019-F, p. 517-541.
- Bunker, C. M., and Bush, C. A., 1968, Radioelement composition of surface soil in Adams County, Colorado, in Geological Survey research: U.S. Geol. Survey Prof. Paper 600-B, p. B71-B75, illus.
- Bunker, C. M., and Hamontre, H. C., 1955, A comparison among caliper-log, gamma-ray-log, and other diamond-drill-hole data: U.S. Geol. Survey TEM-785.
- 1959, A comparison among caliper-log, gamma-ray-log, and other diamond-drill-hole data: U.S. Geol. Survey Bull. 1052-G, p. 241-255, illus.
- Burbank, W. S., and Pierson, C. T., 1952, Preliminary results of radiometric reconnaissance of parts of the northwestern San Juan Mountains, Gunnison, Ouray, San Juan, San Miguel and Dolores Counties, Colorado: U.S. Geol. Survey TEM-310, (see U.S. Geol. Survey Circ. 236).
- 1953, Preliminary results of radiometric reconnaissance parts of the northwestern San Juan Mountains, Colo.: U.S. Geol. Survey Circ. 236, 11 p.
- Burnside, S. S., and Wenrich-Yerbeek, K. J., 1976, Chemical analysis and statistical data for water samples collected in Colorado, New Mexico, and Arizona as part of a study of surface-water and stream-sediment sampling techniques used in uranium exploration: U.S. Geol. Survey open-file report 76-851, 314 p.
- Burwell, Blair, 1920, Carnotite mining in southwestern Colorado: Eng. and Mining Jour., v. 110, no. 16, p. 755-758, illus.
- 1932, Mining methods and costs at the vanadium mine of the U. S. Vanadium Corp., Rifle, Colorado: U.S. Bur. Mines Inf. Circ. 6662, 10 p.
- Busch, P. M., 1961, Vanadium, a materials survey: U.S. Bur. Mines Inf. Circ. 8060, 95 p.
- Bush, A. L., 1950, Preliminary reserve statement 5, Reserve Block A, Otero and Eloisa claims, Legin group, San Miguel County, Colorado: U.S. Geol. Survey TEM-180, 1 p., map, tables.
- 1950, Carnotite resources in the Charles T. area and vicinity, San Miguel County, Colorado: U.S. Geol. Survey TEI-112, 30 p., (see U.S. Geol. Survey TEI-690).
- 1953, Western San Juan Mountains, in Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 101-102.
- 1953, Western San Juan Mountains, Colorado, in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 111-112.
- 1954, Western San Juan Mountains, Colorado, in Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-440, p. 28-30, sketch map.
- 1954, Western San Juan Mountains area, Colorado, quadrangle mapping, in Geologic Investigations of radioactive deposits - Semiannual report, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-490, p. 40-41.
- 1955, Western San Juan Mountains, Colorado, quadrangle mapping, in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEI-540, p. 55.
- 1955, Western San Juan Mountains, Colorado, in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 31-32.
- 1956, Vanadium-uranium deposits in the Entrada sandstone, western San Juan Mountains, Colorado [abs.]: Geol. Soc. America Bull., v. 67, no. 12, pt. 2, p. 1678.
- Bush, A. L., and Bromfield, C. S., 1966, Geologic map of the Dolores Peak quadrangle, Dolores and San Miguel Counties, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-536, scale 1:24,000, with section.
- Bush, A. L., and Bryner, Leonid, 1953, Preliminary report on the uranium and vanadium resources of the Entrada sandstone, western San Juan Mountains, Colorado: U.S. Geol. Survey TEM-298, 17 p.
- Bush, A. L., and Stager, H. K., 1954, Appraisal of the accuracy of U.S. Geological Survey ore reserve estimates for uranium-vanadium deposits on the Colorado Plateau: U.S. Geol. Survey TEI-288, (see U.S. Geol. Survey Bull. 1030-D; Econ. Geology [abs.], v. 49, no. 7, p. 805; Geol. Soc. America Bull. [abs.] v. 65, no. 12, pt. 2, p. 1236-1237).
- 1954, Estimation of reserves for uranium-vanadium deposits on the Colorado Plateau [abs.]: Geol. Soc. America Bull., v. 65, no. 12, pt. 2, p. 1236-1237, (see U.S. Geol. Survey TEI-288).
- 1954, The estimation of reserves for uranium-vanadium deposits on the Colorado Plateau [abs.]: Econ. Geology, v. 49, no. 7, p. 805.
- 1955, The estimation of uranium-vanadium reserves of the Colorado Plateau: Mining Cong. Jour., v. 41, no. 9, p. 80-82, illus.

- 1956, Accuracy of ore reserve estimates for uranium-vanadium deposits on the Colorado Plateau: U.S. Geol. Survey Bull. 1030-D, (See U.S. Geol. Survey TEI-288).
- Bush, A. L., and Taylor, R. B., 1958, Western San Juan Mountains, Colorado, in *Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1957, to May 31, 1958*: U.S. Geol. Survey TEI-740, p. 20-21.
- Bush, A. L., Bromfield, C. S., and Pierson, C. T., 1956, Preliminary geologic map of the Placerville quadrangle, Colorado [map]: U.S. Geol. Survey TEM-777.
- 1956, Areal geology of the Placerville quadrangle, Colorado: U.S. Geol. Survey TEI-547, (see U.S. Geol. Survey Bull. 1072-E, p. 299-384).
- 1956, Preliminary geologic map of Placerville quadrangle, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-96, scale 1:24,000 (see U.S. Geol. Survey Bull. 1072-E).
- 1959, Areal geology of the Placerville quadrangle, San Miguel County, Colorado: U.S. Geol. Survey Bull. 1072-E, p. 299-384, illus. (Incl. geol. map).
- 1961, Preliminary geologic map of the Gray Head quadrangle, San Miguel County, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-176, scale 1:24,000.
- Bush, A. L., Hilpert, L. S., and Trace, R. D., 1950, Carnotite resources of the Georgetown group of claims, San Miguel County, Colorado: U.S. Geol. Survey TEI-116, 26 p., (see U.S. Geol. Survey Mineral Inv. Field Studies Map MF-241, TEI-690).
- Bush, A. L., Marsh, O. T., and Taylor, R. B., 1957, Western San Juan Mountains, Colorado, in *Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1956, to May 31, 1957*: U.S. Geol. Survey TEI-690, p. 67-71, geol. sketch map.
- 1958, Areal geology of the Little Cone quadrangle, Colorado: U.S. Geol. Survey TEI-602, (see U.S. Geol. Survey Bull. 1082-G).
- 1959, Preliminary geologic map of the Little Cone quadrangle, San Miguel County, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-223, scale 1:24,000 (see U.S. Geol. Survey Bull. 1082-G).
- 1960, Areal geology of the Little Cone quadrangle, Colorado: U.S. Geol. Survey Bull. 1082-G, p. 423-492.
- Bush, A. L., Taylor, R. B., and Marsh, O. T., 1956, Western San Juan Mountains, Colorado, in *Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956*: U.S. Geol. Survey TEI-640, p. 47-49, geol. sketch map.
- Bush, A. L., Taylor, R. B., Marsh, O. T., and others, 1956, Western San Juan Mountains, Colorado, in *Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956*: U.S. Geol. Survey TEI-620, p. 47-50, sketch map.
- Butler, A. P., Jr., 1947, Memorandum on thorium resources: U.S. Geol. Survey TEM-39.
- 1952, The Geological Survey's work on the geology of uranium and thorium deposits: U.S. Geol. Survey TEI-207, 26 p.
- 1955, Some factors in the appraisal of part of domestic uranium resources: *Mines Mag.*, v. 45, no. 3, p. 91-94, 108.
- 1956, Ground water as related to the origin and search for uranium deposits in sandstones: *Contributions to Geology*, v. 8, no. 2, pt. 1, p. 81-86.
- 1964, Miscellaneous metals--Uranium, in *Mineral and water resources of Colorado*: U.S. 88th Cong., 2d sess., Comm. Print, p. 136-144, illus.
- 1972, Uranium, in *Geologic atlas of the Rocky Mountain region*: Rocky Mtn. Assoc. Geologists, p. 315-317, map.
- 1972, Resource significance of uranium deposits in fluvioclastic rocks in Tertiary volcanic terranes [abs.]: *Am. Assoc. Petroleum Geologists Bull.*, v. 56, no. 3, p. 607.
- 1973, Some unsettled aspects of potential uranium resources [abs.]: *Mining Eng.*, v. 25, no. 12, p. 58.
- 1974, Some unsettled aspects of potential uranium resources [abs.]: *Econ. Geology*, v. 69, no. 1, p. 149.
- Butler, A. P., Jr., and Schnabel, R. W., 1956, Distribution and general features of uranium occurrences in the United States, in *Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955*: U.S. Geol. Survey Prof. Paper 300, p. 27-40.
- 1956, Distribution and general features of uranium occurrences in the United States, in *Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc.*, v. 6, p. 224-230.
- Butler, A. P., Jr., and Stead, F. W., 1947, Present investigations of radioactive raw materials by the Geological Survey and a recommended program for future work: U.S. Geol. Survey TEI-36, 36 p.
- Butler, A. P., Jr., Finch, W. I., and Twerhofel, W. S., 1962, Epigenetic uranium deposits in the United States (exclusive of Alaska and Hawaii): U.S. Geol. Survey Mineral Inv. Resource

Map MR-21, scale 1:3,168,000.

- Butler, A. P., Jr., Killeen, P. L., Page, G. B., and Rubey, W. W., 1947, Proposed program for and present status of the Geological Survey's investigation of domestic resources of radioactive raw materials: U.S. Geol. Survey TEI-35, 26 p., maps.
- Byerly, P. E., and Joesting, H. R., 1958, Regional geophysical investigations of the Lisbon Valley area, Utah and Colorado: U.S. Geol. Survey TEI-677, 4 p., (see U.S. Geol. Survey Prof. Paper 316-C).
- 1959, Regional geophysical investigations of the Lisbon Valley area, Utah and Colorado: U.S. Geol. Survey Prof. Paper 316-C, p. 39-50, (pl. 8 is an aeromagnetic map, scale 1:25,000), illus. incl. map.
- Cadigan, R. A., 1954, A field method for making a quantitative estimate of altered tuff in sandstone: U.S. Geol. Survey TEI-174.
- 1954, Correlative units in the San Rafael group on the Colorado Plateau [abs.]: Geol. Soc. America Bull., v. 65, no. 12, pt. 2, p. 1237-1238.
- 1955, Characteristics of Tertiary and Jurassic uranium-bearing host rocks of the Colorado Plateau: U.S. Geol. Survey TEI-517, (see U.S. Geol. Survey Prof. Paper 320, p. 13-24).
- 1955, Sedimentary petrology laboratory [Colorado Plateau] in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 81-90, illus.
- 1956, Lithologic studies [Colorado Plateau] in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956: U.S. Geol. Survey TEI-640, p. 178-185, illus.
- 1957, Lithologic studies [Colorado], in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, p. 354-366, illus.
- 1959, Characteristics of the host rock, in Garrels, R. M., and Larsen, E. S., 3d, compilers, Geochemistry and mineralogy of the Colorado Plateau uranium ores: U.S. Geol. Survey Prof. Paper 320, pt. 2, p. 13-24, illus.
- 1963, Tuffaceous sandstones in the Tertiary Chinle formation, Colorado Plateau, in Short papers in geology and hydrology: U.S. Geol. Survey Prof. Paper 475-B, p. 848.
- 1967, Petrology of the Morrison formation in the Colorado Plateau region: U.S. Geol. Survey Prof. Paper 556, 113 p.
- 1971, Petrology of the Tertiary Moenkopi Formation and related strata in the Colorado Plateau region, with a section on Stratigraphy, by J. H. Stewart: U.S. Geol. Survey Prof. Paper 692, 70 p.
- 1971, Geochemical distribution of some metals in the Moenkopi Formation and related strata, Colorado Plateau region: U.S. Geol. Survey Bull. 1344, 56 p.
- 1972, Stratigraphy and origin of the Chinle Formation and related upper Tertiary strata in the Colorado Plateau region: U.S. Geol. Survey Prof. Paper 690, p. 56-62.
- 1972, Geochemical anomalies and alteration in the Moenkopi Formation, Skull Creek, Moffat County, Colorado: U.S. Geol. Survey Prof. Paper 761, 21 p.
- Cadigan, R. A., and Feilmøe, J. K., 1975, Radioactive mineral springs in Delta County, Colorado: Geol. Soc. America Abs. with Programs, v. 7, no. 7, p. 1016-1017.
- 1975, Use of the geochemistry of radioactive springs in uranium exploration, in Craig, L. C., Brooks, R. A., and Patton, P. C., eds., Abstracts of the 1975 uranium and thorium research and resources conference [abs.]: U.S. Geol. Survey open-file report 75-595, p. 8-9.
- 1976, Radioactive-springs geochemical data related to uranium exploration [abs.]: Internat. Geol. Congress, 25th, Sydney, Australia, 1976, Abstracts, v. 2, sec. 10B, p. 436-437.
- Cadigan, R. A., and Miesch, A. T., 1958, Lithologic studies, in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1957, to May 31, 1958: U.S. Geol. Survey TEI-740, p. 146-158.
- Cadigan, R. A., Feilmøe, J. K., and Rosholt, J. N., 1976, Radioactive mineral springs in Delta County, Colorado: U.S. Geol. Survey open-file report 76-223, 39 p., 14 figures, 8 tables.
- California Division of Mines, 1955, Uranium, a comparison of its geologic occurrence in California and in the Colorado Plateau: California Div. Mines, 8, no. 5, p. 1-7.
- Campbell, G. C., and Schlottmann, J. D., 1957, Geology of uranium occurrence in the Vail Pass area, Eagle County, Colorado: U.S. Atomic Energy Comm. DAO-3-TM-43 19 p., (for abstract see NSA 32:00666).
- Campbell, J. A., 1975, Uranium potential in the Permian rocks of the southwestern United States, in Craig, L. C., Brooks, R. A., and Patton, P. C., eds., Abstracts of the 1975 uranium and thorium research and resources conference [abs.]: U.S. Geol. Survey open-file report 75-595, p. 10-11.
- Campbell, J. A., and Steele, B. A., 1976, Uranium

- potential of Permian rocks in the Southwestern United States: U.S. Geol. Survey open-file report 76-529, 26 p., 4 figures, 10 tables.
- Campbell, J. A., ed., 1977, Short papers of the U.S. Geological Survey uranium - thorium symposium, 1977: U.S. Geol. Survey Circ. 753, 75 p.
- Campbell, R. H., 1953, Radiometric reconnaissance of the Gold Hill mining area, Boulder County, Colorado, *In Search for and geology of radioactive deposits - Semiannual progress report*, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 90-92.
- 1955, Reconnaissance for radioactivity in the Gold Hill mining area, Boulder County, Colorado: U.S. Geol. Survey TEM-563A, 28 p., (see U.S. Geol. Survey TEM-563) illus. (incl. geol. ma.
- 1955, Reconnaissance for radioactivity in the Gold Hill mining area, Boulder County, Colorado: U.S. Geol. Survey TEM-563A, 28 p., figures. (see U.S. Geol. Survey TEM-563A).
- Campbell, R. H., and Schafer, M., 1953, A systematic radioactivity reconnaissance of part of the North Gilpin County mining district, Colorado: U.S. Geol. Survey TEM-512.
- Caneer, W. T., and Saum, N. M., 1974, Radon emanometry in uranium exploration: *Mining Eng.*, v. 26, no. 5, p. 26-29.
- Cannon, H. L., 1951, The effect of uranium-vanadium deposits on the vegetation of the Colorado Plateau: U.S. Geol. Survey TEI-160, 40 p., (see *Am. Jour. Sci.*, 1952, v. 250, p. 735-770).
- 1951, Preliminary report on geobotanical prospecting studies on the Colorado Plateau: U.S. Geol. Survey TEM-199.
- 1952, The effect of uranium-vanadium deposits on the vegetation of the Colorado Plateau: *Am. Jour. Sci.*, v. 250, no. 10, p. 735-770, illus.
- 1953, Geobotanical research [Colorado Plateau], *In Geologic Investigations of radioactive deposits - Semiannual progress report*, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 37-38, illus.
- 1954, Methods of botanical prospecting for uranium deposits on the Colorado Plateau: U.S. Geol. Survey TEI-422, 103 p., (see U.S. Geol. Survey Bull. 1030-M).
- 1954, Botanical methods of prospecting for uranium: *Mining Eng.*, v. 6, no. 2, p. 217-220, illus.
- 1955, Botanical studies, research [Colorado Plateau], *In Geologic Investigations of radioactive deposits - Semiannual progress report*, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 118-119.
- 1955, Botanical methods of prospecting for uranium [Colorado Plateau]: *Am. Inst. Mining Eng. Trans.*, v. 199, p. 217.
- 1956, Botanical studies, research [Colorado Plateau], *In Geologic Investigations of radioactive deposits - Semiannual progress report*, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 113-114.
- 1957, Botanical research [Colorado, Utah], *In Geologic Investigations of radioactive deposits - Semiannual progress report*, Dec. 1, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, book 2, p. 491-492.
- 1957, Description of indicator plants and methods of botanical prospecting for uranium deposits on the Colorado Plateau: U.S. Geol. Survey Bull. 1030-M, p. 399-516, illus.
- 1957, The development of botanical methods of prospecting for uranium on the Colorado Plateau: U.S. Geol. Survey TEI-605, 84 p., (see U.S. Geol. Survey Bull. 1085-A).
- 1960, The development of botanical methods of prospecting for uranium on the Colorado Plateau: U.S. Geol. Survey Bull. 1085-A, p. 1-50, illus. (incl. geol. maps).
- 1963, The biochemistry of vanadium: *Soil Sci.*, v. 96, p. 196-204.
- Cannon, H. L., and Kleinhampl, F. J., 1956, Botanical methods of prospecting for uranium, *In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy*, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 681-686.
- 1956, Botanical methods of prospecting for uranium, *In Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy Geneva, 1955, Proc.*, v. 6, p. 801-805.
- Cannon, R. S., Jr., 1952, Geological Survey's work on isotope geology of uranium and thorium and their decay products: U.S. Geol. Survey TEI-209, 12 p.
- Carlithers, L. W., and Clinton, N. J., 1956, Uranium in shoreline sandstones of terrestrial and marine origin, Colorado Plateau, *In Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc.*, v. 6, p. 383-386, (see U.S. Geol. Survey Prof. paper 300, p. 445-449).
- Carl, P. H., 1911, Tungsten and vanadium in Colorado and elsewhere: *Mining Sci.*, v. 63, p. 92-94, illus.
- 1912, Vanadium as a staple Colorado product: *Mining Sci.*, v. 65, p. 409-410.
- Carr, W. J., 1948, *Uranium deposit in Moffat*

County, Colorado: U.S. Geol. Survey TEM-60.

Carter, W. D., 1953, Interim report on diamond-drill exploration and plans for additional drilling in the Long Park area, Montrose County, Colorado, in Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEM-581, 6 p., figures.

1955, La Sal Creek area, Paradox district, Montrose County, Colorado and San Juan County, Utah: U.S. Geol. Survey TEI-540, p. 36-38.

1956, The disconformity between the Lower and Upper Cretaceous formations in western Colorado and eastern Utah: U.S. Geol. Survey TEM-749, 18 p.

1956, The Burro Canyon-Dakota contact in the Mount Peale No. 1 Quadrangle, western Colorado and eastern Utah, in Geology and economic deposits of east central Utah, 7th Ann. Field Conf.: Salt Lake City, Utah Intermt. Assoc. Petroleum Geologists p. 113-115 illus.

1956, Disconformity between Lower and Upper Cretaceous in western Colorado and eastern Utah [abs.]: Geol. Soc. America Bull., v. 67, p. 1679-1680.

1957, Disconformity between Lower and Upper Cretaceous in western Colorado and eastern Utah: Geol. Soc. America Bull., v. 68, no. 3, p. 307-314.

Carter, W. D., and Gualtieri, J. L., 1956, La Sal Creek area, Montrose County, Colorado, and San Juan County, Utah, in Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 57-60, sketch map.

1957, La Sal Creek area, Colorado and Utah, in Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, p. 84-95, illus. (incl. sketch map).

1957, Preliminary geologic map of the Mount Peale 1 SE quadrangle, Montrose County, Colo., and San Juan County, Utah [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-123, scale 1:24,000 (see U.S. Geol. Survey Prof. Paper 508).

1958, Preliminary tectonic map of northern Colorado and northeastern Utah, showing the distribution of uranium deposits [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-130, scale 1:500,000.

1965, Geology and uranium - vanadium deposits of the La Sal quadrangle, San Juan County, Utah, and Montrose County, Colorado: U.S. Geol. Survey Prof. Paper 508, 82 p.

1970, Maps showing locations of holes drilled in 1952 to 1954 by U.S. Geological Survey,

La Sal Creek area, Paradox district, Montrose County, Colorado, and San Juan County, Utah [map]: U.S. Geol. Survey open-file report, (5 pls.).

Carter, W. D., Gualtieri, J. L., and Hedlund, D. C., 1954, Interim report on exploration in the La Sal Creek area, Paradox district, Montrose County, Colorado, and San Juan County, Utah: U.S. Geol. Survey TEM-729, 7 p., figures.

1954, Interim report on exploration in the La Sal Creek area, Paradox district, Montrose County, Colorado, and San Juan County, Utah: U.S. Geol. Survey TEM-716, 11 p., figures.

1955, La Sal Creek area; Utah, Colorado, in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 36-39.

1958, Preliminary geologic map of the Mount Peale 1 NE quadrangle, San Juan County, Utah, and Montrose County, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-139, scale 1:24,000 (see U.S. Geol. Survey Prof. Paper 508).

Case, J. E., 1967, Geophysical ore guides along the Colorado mineral belt: U.S. Geol. Survey open-file report 884, 13 p.

Case, J. E., and Joesting, H. R., 1972, Regional geophysical investigations in the central Colorado Plateau: U.S. Geol. Survey Prof. Paper 736, 31 p., [1973] (pl. 2 is an aeromagnetic map, scale 1:125,000), illus. (incl. maps).

Case, J. E., Joesting, H. R., and Byerly, P. E., 1963, Regional geophysical investigations in the La Sal Mountains area, Utah and Colorado: U.S. Geol. Survey Prof. Paper 316-F, p. 91-116, (pl. 15 is an aeromagnetic map, scale 1:125,000).

Cashion, W. B., 1973, Geologic and structure map of the Grand Junction quadrangle, Colorado and Utah: U.S. Geol. Survey Misc. Geol. Inv. Map I-736, scale 1:250,000.

Cater, F. W., Jr., 1953, Geology of the Anderson Mesa quadrangle, Colorado, with a section on the mines, by C. F. Withington [map]: U.S. Geol. Survey TEM-690, 34 p., figures, (see U.S. Geol. Survey Geol. Quad. Map GQ-77).

1953, Geology of the Bull Canyon quadrangle, Montrose and San Miguel Counties, Colorado [map]: U.S. Geol. Survey TEM-692, 25 p., (see U.S. Geol. Survey Geol. Quad. Map GQ-33).

1953, Geology of the Calamity Mesa quadrangle, Mesa County, Colorado, with a section on the mines, by H. K. Stager [map]: U.S. Geol. Survey TEM-693, 36 p., figures, (see U.S. Geol. Survey Geol. Quad. Map GQ-61).

1953, Geology of the Davis Mesa quadrangle, Colorado, with a section on the mines, by Leonid Bryner [map]: U.S. Geol. Survey TEM-694,

- 29 p., figures, (see U.S. Geol. Survey Geol. Quad. Map GQ-71).
- 1953, Geology of the Gateway quadrangle, Mesa County, Colorado [map]: U.S. Geol. Survey TEM-696, 26 p., figures, (see U.S. Geol. Survey Geol. Quad. Map GQ-55).
- 1953, Geology of the Gypsum Gap quadrangle, Colorado [map]: U.S. Geol. Survey TEM-697, 36 p., (see U.S. Geol. Survey Geol. Quad. Map GQ-59).
- 1953, Geology of the Hamm Canyon quadrangle, Colorado [map]: U.S. Geol. Survey TEM-698, 27 p., (see U.S. Geol. Survey Geol. Quad. Map GQ-69).
- 1953, Geology of the Horse Range Mesa quadrangle, Colorado, with a section on The mines, by A. L. Bush, Henry Bell, 3d, and C. F. Withington [map]: U.S. Geol. Survey TEM-699, 28 p., (see U.S. Geol. Survey Geol. Quad. Map GQ-64).
- 1953, Geology of the Naturita NW quadrangle, Colorado, with a section on The mines, by J. D. Vogel: U.S. Geol. Survey TEM-702, 27 p., (see U.S. Geol. Survey Geol. Quad. Map GQ-65).
- 1953, Geology of the Pine Mountain quadrangle, Mesa County, Colorado [map]: U.S. Geol. Survey TEM-704, 30 p., figures, (see U.S. Geol. Survey Geol. Quad. Map GQ-60).
- 1953, Geologic mapping; southwestern Colorado project, In Trace elements research - Quarterly progress report, April 1 to June 30, 1952: U.S. Geol. Survey TEI-280, p. 11-12.
- 1953, Geologic mapping; southwestern Colorado project, In Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 26-29, sketch map.
- 1954, Geology of the Egnar quadrangle, Dolores and San Miguel Counties, Colorado, with a section on The mines, by A. L. Bush and Henry Bell, 3d [map]: U.S. Geol. Survey TEM-695, 25 p., figures, (see U.S. Geol. Survey Geol. Quad. Map GQ-68).
- 1954, Geology of Bull Canyon quadrangle, Montrose and San Miguel Counties, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-33, scale 1:24,000, text (see U.S. Geol. Survey TEM-692).
- 1955, Geology of the Egnar quadrangle, Dolores and San Miguel County, Colorado, with a section on The mines, by A. L. Bush and Henry Bell, 3d [map]: U.S. Geol. Survey Geol. Quad. Map GQ-68, scale 1:24,000, section and text.
- 1955, Geology of the Gateway quadrangle, Mesa County, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-55, scale 1:24,000, section and text.
- 1955, Geology of the Gypsum Gap quadrangle, San Miguel County, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-59, scale 1:24,000, section and text (see U.S. Geol. Survey Misc. Field Studies Map MF-19).
- 1955, Geology of the Pine Mountain quadrangle, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-60, scale 1:24,000, section and text.
- 1955, Geology of the Calamity Mesa quadrangle, Colorado, with a section on The mines, by H. K. Stager [map]: U.S. Geol. Survey Mineral Geol. Quad. Map GQ-61, scale 1:24,000, section and text.
- 1955, Geology of the Horse Range Mesa quadrangle, Colorado, with a section on The mines, by A. L. Bush, Henry Bell, 3d, and C. F. Withington [map]: U.S. Geol. Survey Geol. Quad. Map GQ-64, scale 1:24,000, section and text.
- 1955, Geology of the Naturita NW quadrangle, Montrose and San Miguel Counties, Colorado, with a section on The mines, by J. D. Vogel [map]: U.S. Geol. Survey Geol. Quad. Map GQ-65, scale 1:24,000, section and text.
- 1955, Geology of the Joe Davis Hill quadrangle, Dolores and San Miguel Counties, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-66, scale 1:24,000, section and text.
- 1955, Geology of the Hamm Canyon quadrangle, San Miguel County, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-69, scale 1:24,000, section and text.
- 1955, Geology of the Davis Mesa quadrangle, Colorado, with a section on The mines, by Leonid Bryner [map]: U.S. Geol. Survey Geol. Quad. Map GQ-71, scale 1:24,000, section and text.
- 1955, Preliminary geologic map of the Gypsum Gap quadrangle, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-19, scale 1:24,000 (see U.S. Geol. Survey Geol. Qua. Map GQ-59).
- 1955, Preliminary geologic map of the Hamm Canyon quadrangle, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-21, scale 1:24,000 (see U.S. Geol. Survey Geol. Quad. Map GQ-69).
- 1955, Preliminary geologic map of the Anderson Mesa quadrangle, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-25, scale 1:24,000 (see U.S. Geol. Survey Geol. Quad. Map GQ-77).
- 1955, Preliminary geologic map of the Egnar quadrangle, Colorado, with a section on The mines, by A. L. Bush and Henry Bell, 3d [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-2, scale 1:24,000 (see U.S. Geol. Survey Geol. Quad. Map GQ-68).
- 1955, Preliminary geologic map of the Joe Davis Hill quadrangle, Colorado, with a section

- on The mines, by Henry Bell, 3d [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-27, scale 1:24,000 (see U.S. Geol. Survey Geol. Quad. Map GQ-66).
- 1955, Preliminary geologic map of the Horse Range Mesa quadrangle, Colorado, with a section on The mines, by A. L. Bush, Henry Bell, 3d, and C. F. Withington [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-29, scale 1:24,000 (see U.S. Geol. Survey Geol. Quad. Map GP-64).
- 1955, Preliminary geologic map of the Naturita NW quadrangle, Colorado, with a section on The mines, by J. D. Vogel [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-30, scale 1:24,000 (see U.S. Geol. Survey Geol. Quad. Map GQ-65).
- 1955, Preliminary geologic map of the Calamity Mesa quadrangle, Colorado, with a section on The mines, by H. K. Stager [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-32, scale 1:24,000 (see U.S. Geol. Survey Geol. Quad. Map GQ-61).
- 1955, The salt anticlines of southwestern Colorado and southwestern Utah, in Geology of parts of Paradox, Black Mesa and San Juan basins: Durango, Colorado Four Corners Geol. Soc. Field Conf., p. 125-131, illus.
- 1955, Southwestern Colorado quadrangle mapping, in Geologic investigations at radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEI-540, p. 44-45.
- 1955, Preliminary geologic map of the Pine Mountain quadrangle, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-20, scale 1:24,000, (see U.S. Geol. Survey Geol. Quad. Map GQ-60).
- 1956, Geology of the Anderson Mesa quadrangle, Montrose, and San Miguel Counties, Colorado, with a section on The mines, by C. F. Withington [map]: U.S. Geol. Survey Geol. Quad. Map GQ-77, scale 1:24,000, section and text.
- 1964, Reinterpretation of the late growth of the Gypsum Valley salt anticline, San Miguel County, Colorado, in Short papers in geology and hydrology: U.S. Geol. Survey Prof. Paper 475-D, p. D33-D37, illus., geol. maps.
- 1967, Salt anticlines of the Paradox basin, in Paleotectonic maps of the Permian System [map]: U.S. Geol. Survey Map I-450, text p. 44-47, illus.
- 1970, Geology of the Salt anticline region in southwestern Colorado, with a section on Stratigraphy, by F. W. Cater, Jr., and L. C. Craig: U.S. Geol. Survey Prof. Paper 637, 80 p.
- Cater, F. W., Jr., and Bell, H., 3d, 1953, Geology of the Joe Davis Hill quadrangle, Dolores and San Miguel Counties, Colorado [map]: U.S. Geol. Survey TEM-700, 24 p., (see U.S. Geol. Survey Geol. Quad. Map GQ-66).
- Cater, F. W., Jr., and Elston, D. P., 1961, Structural development of salt anticlines of eastern Utah and western Colorado [abs.]: Am. Assoc. Petroleum Geologists Bull., v. 45, no. 3, p. 413.
- 1963, Structural development of salt anticlines of Colorado and Utah, in Backbone of the Americas: Am. Assoc. Petroleum Geologists Mem. 2, p. 152-159, illus.
- Cater, F. W., Jr., and McKay, E. J., 1955, Preliminary geologic map of the Davis Mesa quadrangle, Montrose County, Colorado, with a section on The mines, by Leonid Bryner [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-31, scale 1:24,000 (see U.S. Geol. Survey Geol. Quad. Map GQ-71).
- 1955, Preliminary geologic map of the Uravan quadrangle, Montrose County, Colorado, with a section on The mines, by R. L. Boardman [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-24, scale 1:24,000 (see U.S. Geol. Survey Geol. Quad. Map GQ-78).
- Cater, F. W., Jr., Butler, A. P., Jr., and McKay, E. J., 1954, Geology of the Uravan quadrangle, Montrose County, Colorado, with a section on The mines, by R. L. Boardman [map]: U.S. Geol. Survey TEM-707, (see U.S. Geol. Survey Map Geol. Quad. GQ-78).
- 1955, Geology of the Uravan quadrangle, Montrose County, Colorado, with a section on The mines, by R. L. Boardman [map]: U.S. Geol. Survey Geol. Quad. Map GQ-78, scale 1:24,000, section and text.
- Cater, F. W., Jr., Craig, L. C., and Phoenix, D. A., 1950, Progress of geologic studies, Colorado Plateau project: U.S. Geol. Survey TEI-110, 41 p.
- Chapman, E. P., Jr., 1958, Rotary drilling and sampling [Colorado Plateau]: Mining Congr. Journal, v. 44, no. 9, p. 50-53, illus.
- Chapman, J. J., 1948, The geology of the eastern Clear Creek-Golden Gate Canyon area, Jefferson County, Colorado: Colorado School Mines M.S. thesis.
- Chenoweth, W. L., 1957, Radioactive titaniferous heavy-mineral deposits in the San Juan Basin, New Mexico and Colorado, in Guidebook of southwestern San Juan Mountains, Colorado: New Mexico Geol. Soc. Field Conf., 8th, p. 212-217, illus.
- 1975, Uranium deposits of the Canyonlands area, in Canyonlands Country: Four Corners Geol. Soc. Guidebook, p. 253-260.
- 1975, Uranium deposits of the Canyonlands area: U.S. Energy Research Devel. Adm. open-file

- report TM-192, 39 p.
- 1977, Uranium in western Colorado: U.S. Energy Research Devel. Adm. open-file report TM-199, 9 p.
- Chenoweth, W. L., and Malan, R. C., 1969, Significant geologic types of uranium deposits, United States and Canada: U.S. Atomic Energy Comm. Uranium Workshop, Grand Junction, Colorado, Paper 5, 39 p.
- Chenoweth, W. L., and Stehle, F. T., 1957, Reconnaissance for uranium in parts of the San Juan basin, New Mexico and Colorado: U.S. Atomic Energy Comm. TM-114, 21 p.
- Chentsov, I. G., 1962, The problems of the mineralogy and geochemistry of certain sedimentary uranium ore occurrences: Akad. Nauk SSSR Inst. Geologii Rudnykh Mestorozhdeniy, Petrografi, Mineralogi i Geokhimi, translation no. 28, p. 65-124, (translated from Trudy no. 28, p. 43-82, 1959; abs. in Mineralogy Abs., v. 15, p. 192).
- Chew, R. T., 3d, 1955, Map of the Colorado Plateau showing deposits and groups of deposits that produced 1,000 tons or more of uranium-vanadium ore through December 31, 1953 [map]: U.S. Geol. Survey TEI-344, (revised through June 30, 1955: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-54).
- 1955, A study of radioactivity in modern stream gravels and its possible application as a prospecting method: U.S. Geol. Survey TEM-629, (see U.S. Geol. Survey Bull. 1030-E).
- 1956, Study of radioactivity in modern stream gravels as a method of prospecting: U.S. Geol. Survey Bull. 1030-E, p. 149-169.
- 1956, Uranium and vanadium deposits of the Colorado Plateau that produced more than 1,000 tons of ore through June 30, 1955 [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-54, scale 1:750,000.
- Chew, R. T., 3d, and Fischer, R. P., 1954, Western Colorado and northeastern Utah, in Geologic investigations of radioactive deposits - Semiannual progress report, classified data, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-491, p. 17-19.
- Childers, M. O., 1974, Uranium occurrences in Upper Cretaceous and Tertiary strata of Wyoming and northern Colorado: Mtn. Geologist, v. 11, no. 4, p. 131-147.
- Crist, C. L., and Chisholm, W. A., 1957, Thermoluminescence of radioactive minerals, in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1957: U.S. Geol. Survey TEI-700, p. 272-274.
- Christman, R. A., Brock, M. R., and Singewald, Q. D., 1954, Wet Mountains, Colorado, in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-440, p. 163-165, sketch maps.
- 1954, Wet Mountains, Colorado, thorium investigations, 1952-54: U.S. Geol. Survey TEI-354, 52 p., maps (see U.S. Geol. Survey Bull. 1072-H; U.S. Geol. Survey Mineral Inv. Field Studies Map MF-37).
- 1955, Wet Mountain, Colorado, thorium investigations, 1952-1954: U.S. Geol. Survey open-file report 315.
- 1960, Geology and thorium deposits of the Wet Mountains, Colorado; a progress report: U.S. Geol. Survey Bull. 1072-H, p. 491-535.
- Christman, R. A., Heyman, A. M., Dellwig, L. F., and others, 1953, Thorium investigations 1950-52, Wet Mountains, Colorado: U.S. Geol. Survey Circ. 290, 40 p., illus., incl. geol. maps, (see U.S. Geol. Survey Bull. 1072-H; U.S. Geol. Survey TEI-250).
- 1953, Thorium investigations, 1950-52, Wet Mountains, Colorado: U.S. Geol. Survey TEI-250, (see U.S. Geol. Survey Circ. 290).
- 1953, Thorium investigations 1950-1952, Wet Mountains, Colorado: U.S. Geol. Survey Circ. 290, 40 p., (see U.S. Geol. Survey Bulletin 1072-H).
- 1953, Thorium investigations 1950-52, Wet Mountains, Colorado: U.S. Geol. Survey TEI-250, 109 p., maps, tables, (see U.S. Geol. Survey Circ. 290).
- Cleg, J. W., and Foley, D. D., eds., 1958, Uranium ore processing: Addison-Wesley Publishing Co., Inc.
- Clinton, N. J., and Carithers, L. W., 1956, Uranium deposits in sandstones of marginal marine origin, in Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 445-449.
- Coats, R. R., 1956, Uranium and certain other trace elements in felsic volcanic rocks of Cenozoic age in western United States, in Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 75-78.
- 1956, Uranium and certain other trace elements in felsic volcanic rocks of Cenozoic age in western United States, in Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc., v. 6, p. 248-251.
- Coffin, R. C., 1921, Radium, uranium, and vanadium deposits of southwestern Colorado: Colo.

- Geol. Survey Bull. 16, 231 p., illus. (Incl. maps).
- 1921, A report on the main carnotite area of southwestern Colorado (uranium, radium, and vanadium), in Radium, uranium and vanadium deposits of southwestern Colorado: Colo. Geol. Survey Bull. 16, p. 1-28, (econ. geol. map).
- Cohenour, R. E., 1967, History of uranium and development of Colorado Plateau ores with notes on uranium production in Utah, in Uranium districts of southeastern Utah: Utah Geol. Soc. Guidebook to Geology of Utah No. 21, p. 12-22, illus.
- Cole, S. S., and Breitenstein, J. S., 1951, Recovery of vanadium from titaniferous magnetite: Jour. Metals, v. 3, no. 12, p. 1133-1137.
- Coleman, R. B., and Clevenger, G. W., 1967, Extraction of vanadium from phosphorus slags at Vitro Minerals and Chemical Company, in Anatomy of the western phosphate field: Internatn. Assoc. Geologists Ann. Field Conf., 15th, p. 241-242.
- Coleman, R. G., 1956, Geologic thermometry of radioactive minerals [Colorado Plateau], in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956: U.S. Geol. Survey TEI-640, p. 325-327.
- 1957, Mineralogical evidence on the temperature of formation of the Colorado Plateau uranium deposits: Econ. Geology, v. 52, p. 1-4.
- Coleman, R. G., Leo, G. W., and Stewart, D. B., 1957, Geologic thermometry of radioactive minerals, in Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, p. 569-571.
- Collins, G. E., 1909, Vanadium and uranium in Colorado: Eng. Mining Jour., v. 87, p. 106.
- 1914, Metal mining in Colorado in 1913: Eng. and Mining Jour., v. 97, no. 2, p. 116-118.
- Colorado Geological Survey, 1968, Mineral and water resources of Colorado: Colorado Geol. Survey Colorado Mining Devel. Board, 302 p., 49 figs. 44 tables, maps.
- 1976, Bibliography and index of Colorado geology 1873-1975: Colorado Geol. Survey Bull. 37, 488 p.
- Colorado Metal Mining Fund Board, 1961, Colorado vanadium - a composite study: Colorado Metal Mining Fund, 155 p., illus, tables.
- Colorado School of Mines Research Foundation, Inc., 1955, Recovery of uranium values from ore and concentrate samples; Colorado primary ores [Progress Rept. No. 5]: U.S. Atomic Energy Comm. RMO-2805.
- 1957, Study of the effects of crude oil constituents on the reduction and precipitation of uranium - Phase two: U.S. Atomic Energy Comm. RME-3149.
- 1968, Report on radon and helium occurrences in soil gas: U.S. Atomic Energy Comm. GJO-928-1.
- Colorado [State of], 1961, Radiochemical analyses of ground and surface water in Colorado, 1954-1961: Colorado Basic Data Report No. 7, 27 p.
- Columbia University, 1968, Origin of Plateau uranium ores, with emphasis on mineralization and alteration [progress report for 1968]: U.S. Atomic Energy Comm. TID-24884, 11 p.
- 1968, Origin of plateau uranium ores, with emphasis on mineralization and alteration [progress report for 1968]: New York, Columbia Univ., 11 p., CU-1936-21, (see U.S. Atomic Energy Comm. TID-24884).
- 1971, 1969 progress report on uranium in ore deposits of southern Colorado Plateau: U.S. Atomic Energy Comm. TID-25759, 9 p.
- Comstock, S. S., 1951, Progress report on gamma-ray logging activities: U.S. Atomic Energy Comm. RMO-904, 37 p., illus. (Incl. sketch map).
- Conroy, A. R., 1960, Geology of several thorium deposits, Wet Mountains (Custer County): Univ. Colorado M.S. thesis.
- Cooper, Margaret, 1951, Selected bibliography of published references on uranium occurrences and radioactive ore deposits of possible interest to the petroleum industry: U.S. Atomic Energy Comm. RMO-547.
- 1951, Preliminary bibliography on uranium and thorium and radioactive carbonaceous deposits: U.S. Atomic Energy Comm. RMO-835, 40 p.
- 1953, Bibliography and index of literature on uranium and thorium and radioactive occurrences in the United States, Part 3, Colorado and Utah: U.S. Atomic Energy Comm. RME-4003, (see Geol. Soc. America Bull., v. 65, p. 467-590).
- 1953, Selected bibliography on uranium exploration and the geology of uranium deposits: U.S. Atomic Energy Comm. RME-4007.
- 1954, Bibliography and index of literature of uranium and thorium and radioactive occurrences in the United States - Part 3, Colorado and Utah: Geol. Soc. America Bull., v. 65, no. 6, p. 467-590.
- Craig, L. C., 1953, Ground-water studies [Colorado Plateau], in Trace elements research - Quarterly report, Jan. 1 to March 31, 1952: U.S. Geol. Survey TEI-270, pt. 1, p. 10-11.
- 1953, Colorado Plateau geologic studies; introduction, in Trace elements research - Quarterly progress report, April 1 - June 30, 1952: U.S. Geol. Survey TEI-280, p. 11.
- 1953, Stratigraphic studies [Colorado Plateau],

- In Trace elements research - Quarterly report, Jan. 1 to March 31, 1952: U.S. Geol. Survey TEI-270, pt. 1, p. 9-10.
- 1955, General stratigraphic studies [Colorado Plateau], In Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 80-81.
- 1958, General stratigraphic studies [Colorado Plateau], In Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1958: U.S. Geol. Survey TEI-750, p. 45-46.
- Craig, L. C., and Cadigan, R. A., 1958, The Morrison and adjacent formations in the Four Corners area, In Guidebook to the geology of the Paradox basin: Salt Lake City, Utah, Intermtn. Assoc. Petroleum Geologists Ann. Field Conf., 9th, p. 182-192, illus.
- Craig, L. C., and Dickey, D. D., 1956, Jurassic strata of southeastern Utah and southwestern Colorado, In Geology and economic deposits of East Central Utah: Salt Lake City, Utah Intermtn. Assoc. Petroleum Geologists Ann. Field Conf., 7th, p. 93-104, illus.
- 1956, General stratigraphic studies [Colorado Plateau], In Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 92-94.
- Craig, L. C., and Holmes, C. N., 1951, The Morrison Formation of the Colorado Plateau region, progress report [abs.]: Am. Assoc. Petroleum Geologists Bull., v. 35, no. 5, p. 1108, (see U.S. Geol. Survey TEI-180).
- 1951, Jurassic stratigraphy of Utah and Colorado, In Guidebook of the south and west sides of the San Juan Basin, New Mexico and Arizona, 2d field conf. [abs.]: Socorro, New Mexico New Mexico Geol. Soc. Field Conf., 2d, p. 93-95.
- Craig, L. C., and Koteff, C., 1956, General stratigraphic studies [Colorado Plateau], In Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956: U.S. Geol. Survey TEI-640, p. 158-160.
- 1957, General stratigraphic studies [Colorado Plateau], In Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, p. 340-341.
- Craig, L. C., and Mytton, J. W., 1957, General stratigraphic studies [Colorado Plateau], In Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1957: U.S. Geol. Survey TEI-700, p. 114-115.
- 1958, General stratigraphic study [Colorado Plateau], In Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1957, to May 31, 1958: U.S. Geol. Survey TEI-740, p. 127-129.
- Craig, L. C., and Weir, G. W., 1953, Colorado Plateau, geologic studies, Introduction, In Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 24-27, (sketch map).
- Craig, L. C., Brooks, R. A., and Patton, P. C., eds., 1975, Abstracts of the 1975 uranium and thorium research and resources conference: U.S. Geol. Survey open-file report 75-595, 58 p.
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951, Preliminary report on the stratigraphy of the Morrison and related formations of the Colorado Plateau region: U.S. Geol. Survey TEI-180, 64 p., (see U.S. Geol. Survey Bull. 1009-E; Am. Assoc. Petroleum Geologists Bull. v. 35, no. 5, p. 1108).
- 1955, Stratigraphy of the Morrison and related formations, Colorado Plateau region, A preliminary report: U.S. Geol. Survey Bull. 1009-E, p. 125-168, illus.
- 1977, Maps showing thickness of the Morrison Formation and thickness and generalized facies of the members of the Morrison Formation in the Colorado Plateau region: U.S. Geol. Survey open-file report 77-516, 5 maps.
- Cross, C. W., 1907, Stratigraphic results of a reconnaissance in western Colorado and eastern Utah: Jour. Geology, v. 15, pp. 634-790.
- 1915, Dike rocks of the Aplshapa quadrangle, Colorado, In Shorter contributions to general geology, 1914: U.S. Geol. Survey Prof. Paper 90, p. 17-31.
- Cross, C. W., and Larsen, E. S., 1915, Contributions to the stratigraphy of southwestern Colorado, In Shorter contributions to general geology, 1914: U.S. Geol. Survey Prof. Paper 90, p. 39-50.
- 1935, A brief review of the geology of the San Juan region of southwestern Colorado: U.S. Geol. Survey Bull. 843, 138 p., (incl. geol. maps).
- Croxton, F. E., 1951, Uranium and its compounds - a bibliography of unclassified literature: Carbide and Carbon Chemical Co. K-295, pt. 2.
- Culot, M. V., Olson, H. G., and Schlager, K. J., 1973, Radon progeny control in buildings. Final report: Fort Collins, Colorado State Univ., 276 p.
- Cumenge, E., and Friedel, C., 1899, Description of carnotite: Comptes Rendus, v. 128, p. 532.
- 1899, Description of carnotite: Soc. Mining Bull., v. 22, p. 26.

- Curran, T. F., 1911, Carnotite in Paradox Valley, Colorado: Eng. and Mining Jour., v. 92, no. 27, p. 1287-1288.
- 1913, Carnotite: Eng. and Mining Jour., v. 96, no. 26, p. 1223-1225.
- 1913, Carnotite: Eng. and Mining Jour., v. 96, no. 25, p. 1165-67.
- Curtis, Diane, 1956, Selected annotated bibliography of the uranium geology of igneous and metamorphic rocks in the United States and territories: U.S. Geol. Survey TEI-534, (see U.S. Geol. Survey Bull. 1059-E, p. 205-262).
- Curtis, Diane, and Houser, S. S., 1953, Bibliography of U.S. Geological Survey trace elements and related reports: U.S. Geol. Survey Circ. 281, 21 p., (see U.S. Geol. Survey Bull. 1019-B and 1107-A).
- Dahlem, D. H., 1965, The geology of the Lookout Mountain area, Fremont County, Colorado: Univ. of Michigan Ph.D. thesis.
- Dalrymple, J. W., Jr., Young, N. B., and Ullbarri, A., 1957, Fracture pattern study-Bull Canyon, Montrose and San Miguel Counties, Colorado: U.S. Atomic Energy Comm. RME-100 27 p.
- Damon, P. E., and Feely, H. W., 1957, Radiometric analysis of uranium content in ores: U.S. Atomic Energy Comm. RME-3153, 55 p.
- Damon, P. E., Green, W. D., Halva, C. J., and others, 1960, Correlation and chronology of ore deposits and volcanic rocks, annual progress report no. 2: U.S. Atomic Energy Comm. TID-6482.
- Dane, C. H., 1935, Geology of the Salt Valley anticline and adjacent areas, Grand County, Utah: U.S. Geol. Survey Bull. 863, 184 p., (see p. 176-178).
- Dare, W. L., 1959, Uranium mining practices and costs at ten Salt Wash operations of Union Carbide Nuclear Co.: U.S. Bur. Mines Inf. Circ. 7922, 71 p.
- 1959, Underground mining methods and costs at three Salt Wash uranium mines of Climax Uranium Co.: U.S. Bur. Mines Inf. Circ. 7908, 71 p.
- Dare, W. L., Lindblom, R. A., and Soule, J. H., 1955, Uranium mining on the Colorado Plateau: U.S. Bur. Mines Inf. Circ. 7726, 60 p., illus.
- 1961, Uranium mining methods and costs at several mines on the Colorado Plateau: U.S. Bur. Mines Inf. Circ. 8015, 48 p.
- Davidson, G. F., 1951, The distribution of radioactivity: Mining Mag., v. 85, London, p. 329-340.
- 1955, Concentration of uranium by carbon compounds [discussion]: Econ. Geology, v. 50, p. 879-880.
- Davidson, D. F., 1963, Selenium in some oxidized sandstone-type uranium deposits: U.S. Geol. Survey Bull. 1162-C, 33 p.
- Davidson, D. F., and Lankin, H. W., 1961, Metal content of some black shales of the western U. S., in Short papers in the geologic and hydrologic sciences: U.S. Geol. Survey Prof. Paper 424-C, p. C329-C331.
- 1961, Metalliferous shales in the United States [abs.], in Program 1961 annual meeting, San Diego, California: Geol. Soc. America, Spec. Paper No. 68, p. 18, (abstracts for 1961).
- 1962, Metal content of some black shales of the western conterminous U. S., in Short papers in geology and hydrology: U.S. Geol. Survey Prof. Paper 450-C, p. C74.
- Davis, W. E., 1951, Electrical resistivity investigations of carnotite deposits in the Colorado Plateau: U.S. Geol. Survey TEM-232, 25 p., illus. (incl. geol. sketch maps).
- 1953, Geophysical prospecting [Colorado Plateau], in Trace elements research - Quarterly progress report, April 1 to June 30, 1952: U.S. Geol. Survey TEI-280, p. 31-32.
- 1953, Geophysical prospecting [Colorado Plateau], in Trace elements research - Quarterly progress report, Jan. 1 to March 31, 1952: U.S. Geol. Survey TEI-270, pt. 1, p. 14-17.
- Davis, W. E., Swartz, J. H., and Shuler, R. M., 1949, A preliminary geophysical investigation of carnotite deposits in Mesa County, Colorado: U.S. Geol. Survey TEI-66, 19 p., figures.
- Davis, W. T., 1956, Drilling on Tenderfoot Mesa, Mesa County, Colorado: U.S. Atomic Energy Comm. TM-79, 17 p., (for abstract see NSA 32:00717).
- De Voto, R. H., 1961, Geology of southwestern South Park, Park and Chaffee Counties, Colorado: Colorado School Mines Ph.D. thesis, 201 p.
- 1971, Geologic history of South Park and geology of the Antero Reservoir quadrangle, Colorado: Colorado School Mines Quart., v. 66, no. 3, p. 72-90.
- 1976, Environments of formation of uranium deposits [abs.]: Am. Assoc. Petroleum Geologists Bull., v. 60, no. 4, p. 664.
- De Voto, R. H., and Mead, R. H., 1976, Helium detection, exploration guide to uranium sources [abs.]: Am. Assoc. Petroleum Geologists Bull., v. 60, no. 8, p. 1396.
- De Voto, R. H., Land, C. B., Jr., Blazzard, T. R., and others, 1972, Tertiary and Cretaceous energy resources of the southern Rocky Mountains, in Energy and mineral resources of the southern Rocky Mountains: Mtn. Geologist, v. 9, no. 2-3, p. 79-134, illus., incl. geol. map,

- scale 1:500,000 (AAPG Field Trip 2).
- Decker, E. R., 1969, Heat flow in Colorado and New Mexico: *Jour. Geophys. Research*, v. 74, no. 2, p. 550-559.
- Del Rio, S. M., compiler, 1960, Mineral resources of Colorado, first sequel: Colorado Geol. Survey, Colorado Mineral Resources Board, 764 p., 73 figures, 9 pls., 106 tables, maps.
- Dellwig, L. F., 1951, Preliminary summary report on the Wet Mountains thorium area, Custer and Fremont Counties, Colorado: U.S. Geol. Survey TEM-287, 14 p., figures.
- Dellwig, L. F., and Gott, G. B., 1951, Radioactive deposits on the Haputa Ranch, Custer County, Colorado: U.S. Geol. Survey TEM-285, 23 p., map.
- Denson, M. E., Jr., 1956, Geophysical-geochemical prospecting for uranium, *In Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc.*, v. 6, p. 772-781, illus.
- 1956, Geophysical-geochemical prospecting for uranium, *In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300*, p. 687-703.
- Denson, N. M., and others, 1959, Uranium in coal in the western United States: U.S. Geol. Survey Bull. 1055-A, p. 1-9.
- Denson, N. M., compiler, 1971, Uranium analyses of ground- and surface-water samples collected by the U.S. Geological Survey during 1954-56: U.S. Geol. Survey open-file report, 210 p.
- Denson, N. M., Zeller, H. D., and Stephens, J. G., 1956, Water sampling as a guide in the search for uranium deposits and its use in evaluating wide-spread volcanic units as potential source beds for uranium, *In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300*, p. 673-680.
- 1956, Water sampling as a guide in the search for uranium deposits and its use in evaluating wide-spread volcanic units as potential source beds for uranium, *In Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc.*, v. 6, p. 794-800.
- Derzay, R. C., 1953, Uranium occurrence at the Cherokee mine, Queen Mineral Ranch, Gilpin County, Colorado: U.S. Atomic Energy Comm. RME-4041, 8 p., illus.
- 1956, Los Ochos uranium deposit, *In Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc.*, v. 6, p. 468-472, illus. (incl. geol. maps).
- 1956, Geology of the Los Ochos uranium deposit, Saguache County, Colorado, *In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300*, p. 137-141.
- Derzay, R. C., and Baker, K. E., 1953, Results of exploration at the Copper King mine, Larimer County, Colorado: U.S. Atomic Energy Comm. RME-4018, 16 p., illus. (incl. sketch map).
- Derzay, R. C., and Bird, A. G., 1976, Economic geology of uranium deposits in the Ralston Creek area, Jefferson County, Colorado: U.S. Energy Research Devel. Adm. RME-1077.
- Deul, Maurice, 1957, Geochemistry of uranium-bearing shales *in Geologic investigations of radioactive deposits—semiannual progress report for June 1 to Nov. 30, 1957: U.S. Geol. Survey TEI-700*, p. 213-224.
- Deul, Maurice, and Ansell, C. S., 1952, Concentration of minor and trace elements in ash of low-rank coals from Texas, Colorado, North Dakota and South Dakota [abs.]: *Econ. Geology*, v. 47, no. 7, p. 770.
- 1952, Concentration of minor and trace elements in ash of low-rank coals from Texas, Colorado, North Dakota and South Dakota [abs.]: *Geol. Soc. America Bull.*, v. 63, no. 12, pt. 2, p. 1243.
- 1956, The occurrence of minor elements in the ash of low-rank coal from Texas, Colorado, North Dakota and South Dakota: U.S. Geol. Survey Bull. 1036-H, p. 155-172, (see U.S. Geol. Survey TEI-284).
- Dickson, R. E., Blair, R. G., Hart, H. R., and others, 1955, Drilling results and favorability criteria in Bull Canyon, Montrose and San Miguel Counties, Colorado: U.S. Atomic Energy Comm. RME-42, pt. 1, 67 p., geol. sketch maps.
- Dings, M. G., 1952, Preliminary summary of reconnaissance for radioactive materials near Montezuma, Summit County, Colorado: U.S. Geol. Survey TEM-516.
- 1952, Preliminary summary of reconnaissance for radioactive materials in the Garfield and Taylor Park quadrangles, Colorado: U.S. Geol. Survey TEM-515, 7p.
- 1953, Radiometric reconnaissance near Montezuma, Summit County, Colorado: U.S. Geol. Survey TEI-296, pt. 1, 12 p., illus. (incl. sketch maps).
- Dings, M. G., and Robinson, C. S., 1952, Preliminary report on the geology and ore deposits of the Garfield quadrangle, Colorado [abs.]: *Geol. Soc. America Bull.*, v. 63, p. 1361.

- 1957, Geology and ore deposits of the Garfield quadrangle, Colorado: U.S. Geol. Survey Prof. Paper 289, 110 p., illus. (incl. geol. maps).
- Dings, M. G., and Schafer, Max, 1953, Radiometric reconnaissance in the Garfield and Taylor Park quadrangles, Chaffee and Gunnison Counties, Colorado: U.S. Geol. Survey TEI-255, 25 p., illus., incl. geol. sketch maps.
- Dings, M. G., Robinson, C. S., and Brock, M. R., 1952, Map of Garfield quadrangle, Colorado: U.S. Geol. Survey open-file report 189.
- Dodd, P. H., 1956, Examples of uranium deposits in the Upper Jurassic Morrison formation of the Colorado Plateau, in Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 243-262.
- 1956, Some examples of uranium deposits in the upper Jurassic Morrison Formation on the Colorado Plateau, in Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc., v. 6, p. 615-633.
- Doe, B. R., and Pearson, R. C., 1969, U-Th-Pb chronology of zircons from the St. Kevin granite, northern Sawatch Range, Colorado: Geol. Soc. America Bull., v. 80, no. 12, p. 2495-2502, illus.
- Doelling, H. H., 1969, Mineral resources, San Juan County, Utah, and adjacent areas, pt 2 of uranium and other metals in sedimentary host rocks: Utah Geol. and Mineralog. Survey Spec. Studies 24, 64 p., illus., tables.
- Dooley, J. R., Jr., and Hathaway, J. C., 1961, Two occurrences of thorium-bearing minerals with rhabdophane-like structure, in Short papers in the geologic and hydrologic sciences: U.S. Geol. Survey Prof. Paper 424-C, p. C339-C341.
- Douglas, R. F., 1953, Preliminary reserve statement 29, Reserve Block 8, Club Mesa, Montrose County, Colorado: U.S. Geol. Survey TEM-495, 11 p., figures.
- Douros, J. D., 1967, Pt 1 of Literature review and delineation of a comprehensive research program, the relationships of microorganisms to uranium and other mineral deposits: U.S. Atomic Energy Comm. GJO-932-1.
- Downs, G. R., and Bird, A. G., 1965, The Schwartzwalder uranium mine, Jefferson County, Colorado: Mtn. Geologist, v. 2, no. 4, p. 183-191, illus.
- Downs, W. F., and Runnells, D. D., 1975, Trace-element concentrations in pyrite from sandstone uranium deposits: Econ. Geology, v. 70, no. 7, p. 1320.
- Doyle, J. W., 1975, Metal mining activity in district 3, in Colorado Mining Association Mining Yearbook: p. 26.
- Drake, A. A., Jr., 1955, Occurrence of pitchblende at the Wood mine, Central City district, Gilpin County, Colorado [abs.]: Geol. Soc. America Bull., v. 66, no. 12, pt. 2, p. 1673.
- 1955, Geology of the Wood and East Calhoun mines, Central City district, Gilpin County, Colorado: U.S. Geol. Survey TEI-175, (see U.S. Geol. Survey Bull. 1032).
- 1957, Geology of the Wood and East Calhoun mines, Central City district, Gilpin County, Colorado, in Geology and ore deposits of Clear Creek, Gilpin, and Larimer Counties, Colorado: U.S. Geol. Survey Bull. 1032-C, p. 129-170, illus., incl. geol. sketch maps, (see U.S. Geol. Survey TEI-175).
- Duncan, D. C., compiler, 1953, Reconnaissance investigations for uranium in black shale deposits of the Western States during 1951 and 1952: U.S. Geol. Survey TEI-381, 89 p., illus. (incl. sketch map).
- Dunn, J. E., 1957, The new Marshall Pass uranium area: Colorado Mining Assoc., Natl. Western Mining Conf., Trans. v. 1 p. 115-119.
- Dutro, H. B., 1953, Development drilling on the Pooch group, Gypsum Valley district, Montrose County, Colorado: U.S. Geol. Survey TEM-630, 8 p., figures.
- Dutro, H. B., and Bivens, N. W., 1953, Development drilling on the Long Ridge group of claims, Gypsum Valley district, San Miguel County, Colorado: U.S. Geol. Survey TEM-682, 6 p., figures.
- 1953, Development drilling on the Spectacle Point claims, Gypsum Valley district, San Miguel County, Colorado: U.S. Geol. Survey TEM-681, 7 p., figures.
- Dwornik, E. J., and Ross, M., 1955, Application of the electron microscope to mineralogic studies: U.S. Geol. Survey TEM-471, (see Am. Mineralogist, v. 40, nos. 3 & 4, p. 261-274.
- 1955, Application of the electron microscope to mineralogic studies: Am. Mineralogist, v. 40, nos. 3 & 4, p. 261-274, (see U.S. Geol. Survey TEM-471).
- Eastman, H. P., 1953, Modification of detritus during transportation, in Experimental simulation of Plateau-type uranium deposits: U.S. Atomic Energy Comm. RMO-44, p. 50-85.
- Ebbley, Norman, 1949, Drilling for uranium-vanadium on the Colorado Plateau: Mining and Contracting Review, v. 51, no. 9, p. 5-6, 14.
- 1950, Colorado Plateau uranium - worked principally from small mines. It presents some specialized problems: Mining World, v. 12, no. 2, p. 10-15.
- Eberline Instrument Corporation, 1974, Radiological monitoring program, period covering November

- 1, 1973, thru February 4, 1974, for Cer Geonuclear Corporation, Project Rio Blanco: Santa Fe, New Mexico, Eberline Instrument Corp.
- Eckel, E. B., 1949, Geology and ore deposits of the La Plata district, Colorado, with sections by J. S. Williams, F. W. Galbraith, and others: U.S. Geol. Survey Prof. Paper 219, 179 p.
- 1961, Minerals of Colorado -- A 100-year record: U.S. Geol. Survey Bull. 1114, 399 p., illus.
- Edwards, C. L., Reiter, M. A., and Shearer, C., 1975, Heat-flow and crustal radioactivity in northeastern New Mexico and southeastern Colorado: Am. Geophys. Union Trans., v. 56, no. 12, p. 1069.
- Eicher, L. J., 1953, Interim report on exploration of the San Miguel Bench, Montrose County, Colorado: U.S. Geol. Survey TEM-487.
- 1953, Interim report on exploration of the Spring Creek Mesa area, Montrose County, Colorado: U.S. Geol. Survey TEM-488, 7 p., figures.
- 1955, Gateway district, Colorado and Utah, in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 33-34.
- 1955, Beaver Mesa area, Gateway district, Mesa County, Colorado, and Grand County, Utah, in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEI-540, p. 27-28.
- 1956, Exploration for uranium-vanadium deposits in the Beaver Mesa area, Mesa County, Colorado, and Grand County, Utah: U.S. Geol. Survey TEI-449, 26 p.
- Eicher, L. J., and Bivens, N. W., 1955, Interim report on exploration of the Beaver Mesa area, Mesa County, Colorado, and Grand County, Utah: U.S. Geol. Survey TEM-711, 8 p., figures.
- Eicher, L. J., and Miller, G. A., 1956, Gateway district, Mesa County, Colorado, and Grand County, Utah, in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 53-55, (geol. sketch map).
- Eicher, L. J., and Myers, A. R., 1954, Interim report on exploration of the Beaver Mesa area, Mesa County, Colorado, and Grand County, Utah: U.S. Geol. Survey TEM-727, 8 p., figures.
- 1970; Maps showing locations of holes drilled in 1953 and 1954 by U.S. Geol. Survey, Beaver Mesa area, Mesa County, Colorado, and Grand County, Utah: U.S. Geol. Survey open-file report, 5 p., (2 maps).
- Eicher, L. J., Hedlund, D. C., and Miller, G. A., 1957, Preliminary geologic map of sections of the western part of the Gateway district, Mesa County, Colorado, and Grand County, Utah: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-12, scale 1:24,000.
- Eicher, L. J., Hedlund, Donald C., and Miller, G. A., 1956, Preliminary geologic map and sections of the western part of the Gateway district, Mesa County, Colorado, and Grand County, Utah: U.S. Geol. Survey TEM-974.
- Eikren, E. B., 1954, Preliminary reserve statement 40, Reserve Block F, Long Park area, Montrose County, Colorado: U.S. Geol. Survey TEM-722, 6 p., figures.
- 1955, Ute Mountains, Colorado, in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 32-33.
- Eikren, E. B., and Houser, F. N., 1956, Ute Mountains, Colorado, in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 50-52.
- 1956, Ute Mountains, Colorado, in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956: U.S. Geol. Survey TEI-640, p. 50-51.
- 1957, Preliminary geologic map of the Sentinel Peak NW quadrangle, Montezuma County, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-132, scale 1:24,000 (see U.S. Geol. Survey Prof. Paper 481).
- 1957, Ute Mountains, Colorado, in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1957: U.S. Geol. Survey TEI-700, p. 33-36, (incl. map).
- 1957, Ute Mountains, Colorado, in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, p. 71-75, illus.
- 1958, Ute Mountains, Colorado, in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1957, to May 31, 1958: U.S. Geol. Survey TEI-740, p. 21-29, illus.
- 1958, Stratigraphy and structure of the Ute Mountains, Montezuma County, Colorado, in Guidebook to the geology of Paradox basin: Intermtn. Assoc. Petroleum Geologists, Ann. Field Conf., 9t, Salt Lake City, Utah, p. 74-77, illus.
- 1959, Preliminary geologic map of the Sentinel Peak NE quadrangle, Montezuma County, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-224, scale 1:24,000 (see U.S. Geol. Survey Prof. Paper 481).
- 1959, Preliminary geologic map of the Moqui SE quadrangle, Montezuma County, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field

- Studies Map MF-221, scale 1:24,000 (see U.S. Geol. Survey Prof. Paper 481).
- 1959, Preliminary geologic map of the Cortez SW quadrangle, Montezuma County, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-217, scale 1:24,000 (see U.S. Geol. Survey Prof. Paper 481).
- 1959, Preliminary geologic map of the Sentinel Peak NW quadrangle, Colorado: U.S. Geol. Survey TEM-889.
- 1959, Relations of Lower Cretaceous and Upper Jurassic rocks, Four Corners area, Colorado: Am. Assoc. Petroleum Geologists Bull., v. 43, no. 1, p. 190-201, illus.
- 1965, Geology and petrology of the Ute Mountains area, Colorado: U.S. Geol. Survey Prof. Paper 481, 74 p., illus., tables, geol. map.
- Ellis, J. R., Austin, S. R., and Drouillard, R. F., 1968, Magnetic susceptibility and geochemical relationships as uranium prospecting guides: U.S. Atomic Energy Comm. AEC-RID-4.
- Elmore, R. T., 1955, Geology of the Jack's Cabin area of Gunnison County, Colorado: Kentucky Univ. M.S. thesis.
- Elston, D. P., and Botinelly, T., 1955, Geology and mineralogy of the J. J. Mine, Jo Dandy area, Montrose County, Colorado: U.S. Geol. Survey TEI-518, 32 p., (see U.S. Geol. Survey Prof. Paper 320, p. 203-211).
- 1959, Geology and mineralogy of the J. J. mine, Montrose County Colorado, in Garrels, R.M., and Larsen, E. S., compilers, Geochemistry and mineralogy of the Colorado Plateau uranium ores, Part 18: U.S. Geol. Survey Prof. Paper 320, p. 203-211, illus.
- Elston, D. P., and Haynes, D. D., 1955, Second interim report on exploration in the Jo Dandy area, Montrose County, Colorado: U.S. Geol. Survey TEM-835, 7 p., figures.
- Elston, D. P., and Landis, E. R., 1960, Pre-Cutler unconformities and early growth of the Paradox Valley and Gypsum Valley salt anticlines, Colorado: U.S. Geol. Survey Prof. Paper 400-B, p. 261-265, illus. (incl. sketch maps).
- Elston, D. P., Flint, A. E., Haynes, D. D., and others, 1970, Maps showing locations of holes drilled in 1949 to 1956 by U.S. Geological Survey, Jo Dandy and Monogram Mesa areas, Bull Canyon district, Montrose County, Colorado: U.S. Geol. Survey open-file report, 1 p., 1 index map (3 sheets).
- Emerick, W. L., 1953, Development drilling on the Lost group area, Gypsum Valley district, San Miguel County, Colorado: U.S. Geol. Survey TEM-485, 9 p., figures.
- Emerick, W. L., and Gaultieri, J. L., 1953, Preliminary reserve statement 33, Reserve Block 1, South Radium group area, Slick Rock district, San Miguel County, Colorado: U. S. Geol. Survey TEM-685, 7 p., figures.
- 1953, Development drilling on the Upper group area, Slick Rock district, San Miguel County, Colorado: U.S. Geol. Survey TEM-684, 6 p., figures.
- 1953, Development drilling in the Ellison-Burro claims area, Slick Rock district, San Miguel County, Colorado: U.S. Geol. Survey TEM-683, 5 p., figures.
- 1953, Development drilling on the Georgetown group, Slick Rock district, San Miguel County, Colorado: U.S. Geol. Survey TEM-625, 7 p., figures.
- Emerson, J. F., 1943, Summary of investigation of vanadium and uranium occurrence in Huerfano Park district, Raton basin area, Huerfano and Costilla Counties, Colorado: U.S. Atomic Energy Comm. RMO-482, 14 p.
- 1945, Report on the Bull Canyon district, Dolores Plateau area, Colorado: U.S. Atomic Energy Comm. RMO-455 35 p., (for abstract see NSA 32:00706).
- 1975, Present and future outlook for uranium in western Colorado: Am. Inst. Mining, Metallurgical, and Petroleum Engineers Ann. Minerals Symposium, 18th, Grand Junction, Colorado, Proc., p. 39-44.
- Emmons, S. F., 1905, Copper in the "red beds" of the Colorado Plateau region, in Contributions to economic geology, 1904: U.S. Geol. Survey Bull. 260, p. 221-232.
- Emmons, W. H., 1906, The Cashin mine, Montrose County, Colorado, in Contributions to economic geology, 1905: U.S. Geol. Survey Bull. 285, p. 125-128.
- Epls, R. C., and Chapin, C. E., 1974, Stratigraphic nomenclature of the Thirtynine Mile volcanic field, central Colorado: U.S. Geol. Survey Bull. 1395-C, 23 p.
- Epstein, Samuel, 1969, Progress report, October 1, 1969: California Inst. Technology 767-P-7-45, Pasadena, California, 21 p.
- Ergun, Sabri, Donaldson, W. F., and Breger, I. A., 1960, Some physical and chemical properties of vitrains associated with uranium: Fuel, v. 39, no. 1, p. 71-77, illus.
- Erickson, R. L., Gott, G. B., Myers, A. T., and others, 1953, Association of uranium and other metals with crude oils, asphalts and petroliferous rocks [abs.]: Geol. Soc. America Bull., v. 64, no. 12, pt. 2, p. 1505-1506, (see U.S. Geol. Survey TEM-513).
- Erickson, R. L., Myers, A. T., and Horr, C. A., 1952, The association of uranium and other

- metals with crude oils, asphalts, and petroliferous rocks: U.S. Geol. Survey TEM-513, (see Geol. Soc. America Bull., v. 64, no. 12, pt. 2, p. 1505-1506; Am. Assoc. Petroleum Geologists Bull., v. 38, p. 2200-2218).
- 1954, Association of uranium and other metals with crude oil, asphalt, and petroliferous rocks: Am. Assoc. Petroleum Geologists Bull., v. 38, no. 10, p. 2200-2218, (see U.S. Geol. Survey TEM-513).
- European Nuclear Energy Agency, 1965, World uranium and thorium resources: Paris, France, Organization for Econ. Coop. and Devel., 22 p.
- 1969, Uranium production and short term demand, January 1969: Paris, France, Organization for Econ. Coop. and Devel., 29 p.
- Evans, H. T., Jr., 1954, Crystallography of uranium and associated minerals, In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-490, p. 272-274.
- 1955, Crystallography of uranium and associated minerals, In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEI-540, p. 257-261, illus.
- 1959, The crystal chemistry and mineralogy of vanadium, In Garrels, R. M., and Larsen, E. S., 3d, compilers, Geochemistry and mineralogy of the Colorado Plateau ores: U.S. Geol. Survey Prof. Paper 320, p. 91-102, illus.
- Evans, H. T., Jr., and Block, S., 1953, The crystal structure of montroselite, a vanadium member of the diasporite group: Am. Mineralogist, v. 38, nos. 11-12, p. 1242-1250, illus.
- Evans, H. T., Jr., and Garrels, R. M., 1957, Thermodynamic equilibria of vanadium in aqueous systems as applied to the interpretation of the Colorado Plateau ore deposits: U.S. Geol. Survey TEI-666, 40 p., (see Geochim. et Cosmochim. Acta, v. 15, no. 12, p. 131-149).
- 1958, Thermodynamic equilibria of vanadium in aqueous systems as applied to the interpretation of the Colorado Plateau ore deposits: Geochim. et Cosmochim. Acta, v. 15, nos. 12, p. 131-149, illus.
- Evans, H. T., Jr., and Morse, M. E., 1958, The crystal structure of three new vanadium oxide minerals [Colorado Plateau]: Acta Cryst., v. 11, pt. 1, p. 56-58, illus.
- Evans, R. D., and Goodman, C., 1941, Radioactivity of rocks: Geol. Soc. America Bull., v. 52, p. 459-490.
- Everhart, D. L., 1949, The geologic environment of primary vein deposits of uranium: Michigan Coll. Mining and Technology, Conf. on Radioactive Ores, May 6, 1949, p. 13-15.
- 1950, Some features of the secondary redistributions of uranium in oxidation zones [abs.]: Geol. Soc. America Bull., v. 61, p. 1458.
- 1951, Geology of uranium deposits - condensed version, with mineral tables by Muriel Mathez: U.S. Atomic Energy Comm. RMO-732, 33 p.
- 1954, Uranium: Eng. and Mining Jour., v. 155, no. 2, p. 84-86.
- 1954, Origin of uranium deposits, a progress report: Mining Eng., v. 6, no. 9, p. 904-908.
- 1956, Uranium-bearing vein deposits in the United States, In Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy Geneva, 1955, Proc., v. 6, p. 257-264.
- 1956, Uranium-bearing vein deposits in the United States, In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and U.S. Atomic Energy Comm. for U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 97-103.
- Everhart, D. L., and Wright, R. J., 1951, The paragenesis of pitchblende-bearing veins: Denison Univ. Sci. Lab. Jour., v. 42, art. 7, p. 66-74.
- 1953, The geologic character of typical pitchblende veins: Econ. Geology, v. 48, no. 2, p. 77-96.
- Farnum, Dwight, 1919, Carnotite in the Gateway district of Colorado and Utah: Mining Sci. Press, v. 119, p. 127-128, illus.
- Fassett, J. E., and Hinds, J. S., 1971, Geology and fuel resources of the Fruitland Formation and Kirtland Shale of the San Juan basin, New Mexico and Colorado: U.S. Geol. Survey Prof. Paper 676.
- Faul, Henry, Gott, G. B., Manger, G. E., 1953, Radon and helium in natural gas: U.S. Geol. Survey TEM-533.
- Faukner, R. L., and McVey, W. H., 1964, Fuel resources and availability for civilian nuclear power 1964-2000: U.S. Atomic Energy Comm., 15 p.
- Fenton, M. D., and Faure, G., 1970, Rb-Sr whole-rock age determinations of the Iron Hill and McClure Mountain carbonate-alkalic complexes, Colorado: Mtn. Geologist, v. 7, no. 4, p. 269-275, illus. (incl. geol. sketch maps).
- Ferris, C. S., and Bennett, N., 1977, Geochemical prospecting at the Ladwig uranium mine, near Golden, Colorado, In Short papers of the U.S. Geol. Survey uranium-thorium symposium, 1977: U.S. Geol. Survey Circ. 753, p. 66-67.
- Ferris, C. S., and Rund, C. O., 1971, Brannerite: its occurrences and recognition by microprobe: Colorado School Mines Quart., v. 64, no. 1,

p. 357-376.

Finch, W. I., 1951, Preliminary report on diamond-drill exploration of part of Blue Mesa, Mesa County, Colorado: U.S. Geol. Survey TEM-269.

— 1951, Preliminary report on diamond drill exploration of parts of Blue and Moon Mesas, Mesa County, Colorado: U.S. Geol. Survey TEM-242.

— 1952, Carnotite resources of part of Blue Mesa, Mesa County, Colorado: U.S. Geol. Survey TEI-154, 24 p., maps, tables, (see U.S. Geol. Survey TEI-690).

— 1953, Pre-Morrison resource appraisal [Colorado Plateau], In Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 59-61.

— 1953, Reconnaissance resource appraisal [Colorado Plateau], In Geologic Investigations of radioactive deposits - Semiannual progress reports, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 43-45.

— 1953, Resource appraisal [Colorado Plateau], In Trace elements research - Quarterly progress report, April 1 to June 30, 1952: U.S. Geol. Survey TEI-280, p. 24-26.

— 1953, Distribution of uranium deposits in the Shinarump conglomerate of the Colorado Plateau [abs.]: Econ. Geology, v. 48, no. 7, p. 619, (see U.S. Geol. Survey TEI-328).

— 1953, Distribution of uranium deposits in the Shinarump conglomerate of the Colorado Plateau [abs.]: Geol. Soc. America Bull., v. 64, no. 12, pt. 2, p. 1422, (see U.S. Geol. Survey TEI-328).

— 1953, Geologic aspects of resource appraisal of uranium deposits in pre-Morrison Formations of the Colorado Plateau - an Interim report: U.S. Geol. Survey TEI-328, 35 p., (Econ. Geology v. 48, no. 7, p. 619; Geol. Soc. America Bull. v. 64, no. 12, pt. 2, p. 1422).

— 1954, Uranium in sandstone-type deposits, Colorado Plateau geologic studies, In Geologic Investigations of radioactive deposits - Semiannual progress report, classified data, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-441, p. 11-13.

— 1955, Preliminary geologic map showing the distribution of uranium deposits and principal ore-bearing formations of the Colorado Plateau region [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-16, scale 1:506,880, text.

— 1956, Geology of uranium deposits in Triassic rocks of the Colorado Plateau: U.S. Geol. Survey TEI-395, 71 p., (see U.S. Geol. Survey Bull. 1074-D).

— 1956, Uranium in terrestrial sedimentary rocks

in the United States exclusive of the Colorado Plateau, In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955: U.S. Geol. Survey Prof. Paper 300, p. 321-327.

— 1956, Uranium in terrestrial sedimentary rocks in the United States exclusive of the Colorado Plateau, In Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy Geneva, 1955, Proc., v. 6, p. 600-604.

— 1959, Geology of uranium deposits in Triassic rocks of the Colorado Plateau region: U.S. Geol. Survey Bull. 1074-D, p. 125-164, illus. (incl. geol. map).

— 1967, Geology of epigenetic uranium deposits in sandstone in the United States: U.S. Geol. Survey Prof. Paper 538, 121 p.

— 1973, Introduction, nuclear fuels, In Brobst, D. A., and Pratt, W. P., eds., Mineral resources of the United States: U.S. Geol. Survey Prof. Paper 820, p. 455-466.

Finch, W. I., Butler, A. P., Jr., Armstrong, F. C., and others, 1973, Uranium, In Brobst, D. A., and Pratt, W. P., eds., Mineral resources of the United States: U.S. Geol. Survey Prof. Paper 820, p. 546-568.

Finch, W. I., Wright, J. C., and Sullivan, M. W., 1975, Selected bibliography pertaining to uranium occurrence in eastern New Mexico and west Texas and nearby parts of Colorado, Oklahoma, and Kansas - Interim report: U.S. Geol. Survey PB-241629.

Finnell, T. L., and Parrish, I. S., 1956, Simplified geologic map showing uranium deposits and principal ore-bearing formations of the north-central Cordilleran Foreland region: U.S. Geol. Survey TEM-953, (see U.S. Geol. Survey Mineral Inv. Field Studies Map MF-120).

— 1958, Uranium deposits and principal ore-bearing formations of the central Cordilleran foreland region [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-120, scale 1:750,000 (see U.S. Geol. Survey Bull. 1087-1).

Fischer, R. P., 1936, Sedimentary deposits of copper, vanadium, uranium, and silver in southwestern United States, Part 1, and Peculiar hydrothermal copper-bearing veins of the northeast Colorado Plateau, Part 2: Princeton Univ. Ph.D. thesis.

— 1937, Sedimentary deposits of copper, vanadium, uranium, and silver in southwestern United States: Econ. Geology, v. 32, no. 7, p. 906-951.

— 1942, Vanadium deposits of Colorado and Utah - A preliminary report: U.S. Geol. Survey Bull. 936-P, p. 363-394, illus. (incl. geol. map).

- 1943, Vanadium deposits of Colorado and Utah, a preliminary report [abs.]: Washington Acad. Sci. Jour., v. 33, no. 11, p. 349.
- 1944, Vanadium region of southwestern Colorado and southeastern Utah: U.S. Geol. Survey Strategic Minerals Inv. Prelim. Map 3-226, scale 1:187,500 with text. The second edition issued as Minerals Inv. Prelim. Map 3-226 dated 1949.
- 1947, Recommendations for exploration on the Colorado Plateau of areas favorable for carnotite deposits: U.S. Geol. Survey TEM-48, 11 p.
- 1947, Deposits of vanadium-bearing sandstone, In Vanderwilt, J. W., Mineral resources of Colorado: Colorado Mineral Resources Board, p. 451-456.
- 1948, Some considerations regarding potential production of uranium-vanadium ore in Colorado, Utah, New Mexico, and Arizona: U.S. Geol. Survey TEI-89, 15 p.
- 1949, Origin of the Colorado Plateau vanadium deposits [abs.]: Washington Acad. Sci. Jour., v. 39, no. 3, p. 109.
- 1949, Federal exploration for carnotite ore: Colorado Mining Assoc. Spec. Pub., Denver, Colorado, 14 p.
- 1950, Uranium-bearing sandstone deposits of the Colorado Plateau: Econ. Geology, v. 45, no. 1, p. 1-11, illus.
- 1950, Carnotite deposits of the Colorado Plateau: U.S. Geol. Survey TEI-80, 29 p., figures.
- 1950, Uranium and vanadium potential of the Colorado Plateau: U.S. Geol. Survey TEM-156, 9 p., maps, tables.
- 1951, Recommendations for a shift in emphasis of diamond-drilling on the Colorado Plateau: U.S. Geol. Survey TEM-203, 10 p.
- 1952, Low-grade carnotite material in the Morrison Formation on the Colorado Plateau: U.S. Geol. Survey TEM-324.
- 1955, Vanadium and uranium in rocks and ore deposits: U.S. Geol. Survey TEI-519, (see U.S. Geol. Survey Prof. Paper 320, p. 219-230).
- 1955, Vanadium and uranium in rocks and ore deposits [abs.]: Econ. Geology, v. 50, no. 7, p. 775.
- 1955, Vanadium and uranium in rocks and ore deposits [abs.]: Geol. Soc. America Bull., v. 66, no. 12, p. 1558.
- 1955, Regional relations of the vanadium-uranium - chromium deposits in the Entrada Sandstone, western Colorado: U.S. Geol. Survey TEM-916, 21 p., figures.
- 1956, Uranium-vanadium-copper deposits of the Colorado Plateau region, In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 143-154.
- 1956, Uranium-vanadium-copper deposits on the Colorado Plateau, In Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc., v. 6, p. 605-614.
- 1956, Localization and origin of vanadium-uranium ores on the Colorado Plateau, In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 146-147.
- 1956, Studies of localization and origin of the vanadium-uranium deposits on the Colorado Plateau, In Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956: U.S. Geol. Survey TEI-640, p. 195-196.
- 1957, Localization and origin of the vanadium-uranium deposits on the Colorado Plateau, In Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, p. 383-389.
- 1960, Vanadium-uranium deposits of the Rifle Creek area, Garfield County, Colorado, with a section on Mineralogy, by Theodore Botinelly: U.S. Geol. Survey Bull. 1101, 52 p., illus. (incl. geol. map).
- 1962, Vanadium in the United States, exclusive of Alaska and Hawaii [map]: U.S. Geol. Survey Mineral Inv. Resource Map MR-16, scale 1:3,168,000.
- 1964, Ferrous metals - vanadium, In Mineral and water resources of Colorado: U.S. 88th Cong., 2d sess., Comm. Print, p. 115-120, illus.
- 1968, The uranium and vanadium deposits of the Colorado Plateau region, In Ore deposits of the United States, 1933-1967: Am. Inst. Mining, Metall. and Petroleum Engineers, v. 1, p. 735-746.
- 1968, Vanadium deposits of the Placerville area, San Miguel County, Colorado, In Guidebook of San Juan-San Miguel-La Plata Region, New Mexico and Colorado: New Mexico Geol. Soc., Field Conf., 19th, p. 100-103, illus.
- 1970, Similarities, differences and some genetic problems of the Wyoming and Colorado Plateau types of uranium deposits in sandstone: Econ. Geology, v. 65, no. 7, p. 778-784, sketch map.
- 1973, Guides to new uranium districts and belts--exploration targets for tomorrow [abs.]: Mining Eng., v. 25, no. 12, p. 58-59.
- 1974, Exploration guides to new uranium districts

- and belts: *Econ. Geology*, v. 69, no. 3, p. 362-376.
- Fischer, R. P., and Blackman, D. H., 1949, *Geologic guides to carnotite deposits on the Colorado Plateau*: U.S. Geol. Survey TEI-86.
- 1949, *Progress report on geologic, mineralogic, and geobotanical guides to ore in the carnotite deposits of the Colorado Plateau*: U.S. Geol. Survey TEI-96, pt. 1, 25 p.
- Fischer, R. P., and Butler, A. P., Jr., 1947, *Memorandum recommending physical exploration and geologic studies in the Colorado Plateau uranium region*: U.S. Geol. Survey TEM-38, 4 p.
- 1947, *Memorandum recommending physical exploration and geologic studies in the Colorado Plateau uranium region*: U.S. Geol. Survey TEM-38A.
- Fischer, R. P., and Hilpert, L. S., 1951, *The Uravan mineral belt*: U.S. Geol. Survey TEI-109, 19 p., (see U.S. Geol. Survey Bull. 988-A).
- 1951, *The Uravan mineral belt*: U.S. Geol. Survey open-file report 93, 19 p.
- 1952, *Geology of the Uravan mineral belts*: U.S. Geol. Survey Bull. 988-A, p. 1-13, illus.
- Fischer, R. P., and Stewart, J. H., 1960, *Distribution and lithologic characteristics of sandstone beds that contain deposits of copper, vanadium, and uranium, in Short papers in the geological sciences*: U.S. Geol. Survey Prof. Paper 400-B, p. B42-B44.
- 1961, *Copper, vanadium, and uranium deposits in sandstone - their distribution and geochemical cycles*: *Econ. Geology*, v. 56, no. 3, p. 509-520.
- Fischer, R. P., Burbank, W. S., Cannon, H. L., and others, 1946, *Map showing mineral deposits of Colorado*: U.S. Geol. Survey Missouri Basin Studies Map 8, scale 1:1,000,000, tables, text.
- Fischer, R. P., Haff, J. C., and Rominger, J. R., 1943, *Vanadium deposits near Placerville, San Miguel County, Colorado*: U.S. Geol. Survey open-file report.
- 1947, *Vanadium deposits near Placerville, San Miguel County, Colorado*: *Colorado Sci. Soc. Proc.*, v. 15, no. 3, p. 115-134.
- Fischer, R. P., Hilpert, L. S., Schumacher, J. I., and others, 1951, *Summary of investigations through 1950 of the carnotite-bearing sandstones of the Colorado Plateau*: U.S. Geol. Survey TEM-276, 28 p.
- Fischer, R. P., Luedke, R. G., Sheridan, M. J., and others, 1968, *Mineral resources of the Uncompahgre primitive area, Colorado*: U.S. Geol. Survey Bull. 1261-C, 91 p., 3 maps.
- Fischer, R. P., Stokes, W. L., and Smith, L. E., 1944, *Geology of the Rifle Creek vanadium area, Garfield County, Colorado*: U.S. Geol. Survey Strategic Minerals Inv. Report 1, 5 p.
- 1945, *Geology of the Rifle Creek vanadium area, Garfield County, Colorado*: U.S. Geol. Survey Press Release, (map).
- Fisher, F. G., and Meyrowitz, R., 1962, *Brockite, a new calcium thorium phosphate from the Wet Mountains, Colorado*: *Am. Mineralogist*, v. 47, nos. 11-12, p. 1346-1355, (tables).
- Fisher, J. C., 1976, *Remote sensing applied to exploration for vein-type uranium deposits, Front Range, Colorado*: Colorado School of Mines Remote Sensing Rept. 76-2, Washington, D. C., N.A.S.A. Office of University Affairs, 158 p., NASA Grant NGL 06-001-015.
- Fix, C. E., 1956, *Selected annotated bibliography of the geology and occurrence of uranium-bearing marine black shales in the United States*: U.S. Geol. Survey TEI-535, 182 p., (see U.S. Geol. Survey Bull. 1059-F, p. 263-325).
- Fix, P. F., 1952, *Progress report on uranium in natural waters*: U.S. Geol. Survey TEM-476.
- 1953, *Uranium in natural waters, in Geologic investigations of radioactive deposits - Semiannual progress report, classified data, June 1 to Nov. 30, 1953*: U.S. Geol. Survey TEI-391, p. 49.
- 1954, *Uranium in natural waters*: U.S. Geol. Survey TEM-783.
- 1954, *Uranium in natural waters, in Geologic investigations of radioactive deposits - Semiannual progress report, classified data, Dec. 1, 1953, to May 31, 1954*: U.S. Geol. Survey TEI-441, p. 24.
- 1954, *Uranium in natural waters, hydrogeochemical exploration for uranium, in Geologic investigations of radioactive deposits - Semiannual progress report, classified data, June 1 to Nov. 30, 1954*: U.S. Geol. Survey TEI-491, p. 23.
- 1955, *Uranium in natural waters, in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955*: U.S. Geol. Survey TEI-540, p. 200-202.
- 1956, *Hydrogeochemical exploration for uranium, in Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955*: U.S. Geol. Survey Prof. Paper 300, p. 667-671.
- 1956, *Hydrogeochemical exploration for uranium, in Geology of uranium and thorium: U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc.*, v. 6, p. 788-791.
- Fleck, Herman, 1908, *Welfare of Colorado's rare metal industry [pitchblende deposits of Gilpin County and vanadium deposits of Placerville,*

- Colorado]: Colorado School Mines Quart., v. 3, p. 34-35.
- 1908, A brief statement of the rising importance of rare elements: Am. Mining Cong., Ann. Rept. Proc., no. 11, p. 204-211.
- 1909, Welfare of Colorado's rare metal industry [pitchblende deposits of Gilpin County and vanadium deposits of Placerville, Colo.]: Colorado School Mines Quart., v. 4, p. 234-242.
- 1909, Welfare of Colorado's rare metal industry [pitchblende deposits of Placerville, Colo.]: Mines & Minerals, Quart. Jour. Indian Bur. Mines, Nagpur, India, v. 30, p. 63-64.
- 1909, The uranium and vanadium deposits of Colorado: Mining World, v. 30, p. 596-598.
- 1909, The vanadium deposits at Garo, Park County, Colorado: Colorado School Mines Quart., v. 3, no. 3, p. 35-36.
- 1916, A series of treatises on the rare metals; tungsten, molybdenum, vanadium, uranium: Colorado Sci. Soc., Proc., v. 11, p. 103-176.
- Fleck, Herman, and Haldane, W. G., 1907, A study of the uranium and vanadium belts of southern Colorado: Colorado Bur. Mines Rept., v. 1905-1906, p. 47-115.
- 1908, Preliminary report on the radioactivity of the carnotite of southwest Colorado: Colorado School Mines Quart., v. 4, no. 3, 12 p.
- 1909, Radioactivity of carnotite of southwestern Colorado: Mining World, v. 31, p. 1121-1124.
- 1909, Radioactivity of carnotite of southwestern Colorado: Mining Sci., v. 60, p. 512-514.
- Fleischer, Michael, 1953, Recent estimates of the abundances of the elements in the earth's crust: U.S. Geol. Survey Circ. 285, 7 p.
- Fleischer, Michael, and Harder, J. O., 1945, The occurrence of indium: U.S. Geol. Survey TEL-10, 26 p.
- Flint, A. E., 1954, Interim report on diamond-drill exploration and plans for additional drilling in the Monogram Mesa area, Montrose County, Colorado: U.S. Geol. Survey TEM-804, 6 p., figures.
- 1955, Preliminary reserve statement 45, reserve block A, Monogram Mesa, Montrose County, Colorado: U.S. Geol. Survey TEM-838, 9 p., figures.
- 1955, Bull Canyon project, Bull Canyon district, Montrose and San Miguel Counties, Colorado, in Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEL-540, p. 29-31.
- Flint, A. E., Wallace, R. M., and Holzle, A. F., 1955, Interim report on diamond-drill exploration and plans for additional drilling in the Monogram Mesa area, Montrose County, Colorado: U.S. Geol. Survey TEM-882, 8 p., figures.
- Foots, R. S., and Page, L. R., 1956, Techniques for prospecting for uranium and thorium - a summary, in Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 621-625.
- Foshag, W. F., and Hess, F. L., 1927, Rossite and metarossite, two new vanadates from Colorado: U.S. Natl. Mus. Proc., v. 72, no. 11, 12 p., illus.
- Foster, M. D., 1946, Studies on the peroxide method for determining vanadium in minerals and ores: U.S. Geol. Survey Bull. 950, p. 7-13.
- 1959, Chemical study of the mineralized clays, in Garrels, R. M., and Larsen, E. S., 3d, compilers, Geochemistry and mineralogy of the Colorado Plateau uranium ores: U.S. Geol. Survey Prof. Paper 320, p. 121-132, illus.
- Four Corners Geological Society, 1952, Geological symposium of the Four Corners region, October 1, 1952 [Colorado, Arizona, Utah, New Mexico]: Four Corners Geol. Soc., 145 p., illus. (incl. geol. maps).
- 1960, Geology of the Paradox basin fold and fault belt (Colorado Plateau): Four Corners Geol. Soc. 3d Field Conf. Guldebook, Durango, Colorado, 183 p., illus. (incl. sketch maps).
- Franklin, J.C., and Marquardt, R. F., 1976, Continuous radon gas survey of the Twilight mine: U.S. Bur. Mines TPR 93, (10 graphs, 1 map, 1 photo).
- Franz, G. A., Jr., 1960, The minerals of Colorado and area locations: Colorado Bur. Mines Circ., no. 1, 26 p.
- 1963, The minerals of Colorado and area locations: Colorado Bur. Mines Circ., no. 2.
- 1967, A summary of mineral industry activity in Colorado, 1966: Denver, Colorado Bur. Mines Pub.
- 1968, A summary of mineral industry activities in Colorado, 1967: Denver, Colorado Bur. Mines Pub.
- Fraser, G. D., 1948, Coal Creek Quartzite, Jefferson and Boulder Counties, Colorado [abs.]: Geol. Soc. America Bull., v. 60, no. 12, pt. 2, p. 1960.
- Freeman, H. D., 1935, Vanadium and uranium deposits in the Triassic and Jurassic sandstones of the Plateau area of southwestern Colorado and southeastern Utah: Princeton, New Jersey, Princeton Univ.

Friedel, Charles, and Cumenge, E., 1899, Sur un nouveau mineral d'urane, la carnotite: Soc. Française Mineralogie Bull., v. 22, p. 26-29, (in French).

— 1899, Sur un nouveau mineral d'urane, la carnotite: Soc. Chim. de Paris Bull. (3), v. 21, p. 328, (in French).

— 1899, Sur un nouveau mineral d'urane, la carnotite: Acad. Sci., Comptes Rendus, v. 128, p. 532, (in French).

— 1899, Sur un nouveau mineral d'urane, la carnotite: Chemical News, v. 80, p. 16, (in French).

Froelich, A. J., 1953, The absorber plant method of geobotanical prospecting [Colorado Plateau], In Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 38-40.

Fronde!, J. W., and Fleischer, Michael, 1952, A glossary of uranium- and thorium-bearing minerals [2d ed.]: U.S. Geol. Survey Circ. 194, 25 p., (see U.S. Geol. Survey Circ. 74 and U.S. Geol. Survey Bull. 1009-F).

— 1955, A glossary of uranium- and thorium-bearing minerals: U.S. Geol. Survey Bull. 1009-F.

Fronde!, J. W., Fleischer, Michael, and Jones, R. S., 1967, Glossary of uranium- and thorium-bearing minerals: U.S. Geol. Survey Bull. 1250, 69 p., 4th edition.

Fussler, K. H., 1916, The actinium - uranium ratio in Colorado carnotite: Univ. Pennsylvania Ph.D. thesis, 6 p.

Gabelman, J. W., 1948, The geology of the Golden Gate-Van Bibber Creek area, Jefferson County, Colorado: Colorado School Mines M.S. Thesis No. 638.

— 1956, Uranium deposits in limestone, In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 387-404.

— 1956, Uranium deposits in limestone, In Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc., v. 6, p. 338-345.

— 1958, Tectonic control of mineral belts in the southwestern Colorado metallogenic province [abs.]: Mining Eng., v. 10, no. 1, p. 55.

Gabelman, J. W., and Boyer, W. H., 1958, Relation of uranium deposits to feeder structures, associated alteration and mineral zones [Arizona, Colorado]; In Survey of raw material resources: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, 2d Geneva, 1958, Proc., v. 2, p. 338-350, illus. (incl. geol. sketch maps).

— 1974, Status of uranium exploration, In Colorado Mining Assoc. Mining Yearbook: Colorado Mining Assoc., p. 72-81.

Gable, D. J., 1968, Geology of the crystalline rocks in the western part of the Morrison quadrangle, Jefferson County, Colo.: U.S. Geol. Survey Bull. 1251-E, 45 p.

— 1969, Geologic map of the Nederland quadrangle, Boulder and Gilpin Counties, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-833, scale 1:24,000, section, text, [1970].

Gale, H. S., 1907, Carnotite in Rio Blanco County, Colorado: U.S. Geol. Survey Bull. 315-C, p. 110-117, illus.

— 1908, Carnotite and associated minerals in western Routt County, Colorado: U.S. Geol. Survey Bull. 340-D, p. 257-262.

Gallagher, G. L., 1976, Uranium favorability of Precambrian rocks in the Badger Flats - Eikhorn thrust area, Park and Teller Counties, Colorado: U.S. Energy Research Devel. Adm. GJBX-55(76).

Gallagher, G. L., Edmond, C. L., and D'Andrea, R. F., 1977, Preliminary evaluation of the uranium favorability in the area northeast of Gunnison, Colorado: U.S. Energy Research Devel. Adm. GJBX-61(77).

Garrels, R. M., 1953, Thermodynamic relations among the vanadium oxides, and implications of the Colorado Plateau uranium-vanadium deposits [abs.]: Geol. Soc. America Bull., v. 64, p. 1426.

— 1953, Weathering, transportation and redeposition of uranium [Colorado Plateau], In Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 245-246.

— 1954, Thermodynamic relations among the vanadium oxides, and implications of the Colorado Plateau uranium-vanadium deposits [abs.]: Am. Mineralogist, v. 39, p. 330.

— 1954, Some thermodynamic relations among the uranium oxides and their relation to the oxidation states of the uranium ores of the Colorado Plateau: U.S. Geol. Survey TEI-455, 30 p., (see Am. Mineralogist, v. 40, p. 1004-1021; Geol. Soc. America Bull. v. 65, no. 12, pt. 2, p. 1254-1255).

— 1954, Thermodynamic relations among the uranium oxides and their relation to the oxidation states of the uranium ores of the Colorado Plateaus [abs.]: Geol. Soc. America Bull., v. 65, no. 12, pt. 2, p. 1254-1255, (see U.S. Geol. Survey TEI-455).

— 1954, Weathering, transportation and redeposition of uranium, In Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1954: U.S. Geol.

- Survey TEI-490, p. 261-263.
- 1954, Weathering, transportation and redeposition of uranium, *In* Geologic Investigations of radioactive deposits - Semiannual report, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-440, p. 206-207.
- 1955, Weathering, transportation and redeposition of uranium, *In* Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEI-540, p. 245-246.
- 1955, Weathering of uranium deposits [Colorado Plateau]: *Mining Cong. Jour.*, v. 41, no. 5, p. 58-60, illus.
- 1955, Some thermodynamic relations among the uranium oxides and their relation to the oxidation states of the uranium ores of the Colorado Plateau: *Am. Mineralogist*, v. 40, no. 11-12, p. 1004-1021, illus. (see U.S. Geol. Survey TEI-455).
- 1959, Detailed chemical and mineralogical relations in two vanadium-uranium ores, *In* Garrels, R. M., and Larsen, E. S., 3d, compilers, *Geochemistry and mineralogy of the Colorado Plateau uranium ores*: U.S. Geol. Survey Prof. Paper 320, p. 165-184, illus.
- Garrels, R. M., and Christ, C. L., 1955, Some aspects of the crystal chemistry of the oxidation of the Colorado Plateau uranium ores [abs.]: *Econ. Geology*, v. 50, no. 7, p. 776.
- 1955, Some aspects of the crystal chemistry of the oxidation of the Colorado Plateau uranium ores [abs.]: *Geol. Soc. America Bull.*, v. 66, no. 12, pt. 2, p. 1564.
- 1956, Behavior of Colorado Plateau uranium minerals during oxidation: U.S. Geol. Survey TEI-588, 24 p., (see U.S. Geol. Survey Prof. Paper 320, p. 81-89).
- 1959, Behavior of uranium minerals during oxidation, *In* Garrels, R. M., and Larsen, E. S., 3d, compilers, *Geochemistry and mineralogy of the Colorado Plateau uranium ores*: U.S. Geol. Survey Prof. Paper 320, p. 81-89, illus.
- Garrels, R. M., and Larsen, E. S., 3d, compilers, 1959, *Geochemistry and mineralogy of the Colorado Plateau uranium ores*: U.S. Geol. Survey Prof. Paper 320, 236 p., illus.
- Garrels, R. M., and Pommer, A. M., 1956, Some quantitative aspects of the oxidation and reduction of Colorado Plateau uranium ores: U.S. Geol. Survey TEI-177, 26 p., (see U.S. Geol. Survey Prof. Paper 320, p. 157-164).
- 1959, Some quantitative aspects of the oxidation and reduction of ores, *In* Garrels, R. M., and Larsen, E. S., 3d, compilers, *Geochemistry and mineralogy of the Colorado Plateau uranium ores*: U.S. Geol. Survey Prof. Paper 320, p. 157-164, illus.
- Garrels, R. M., and Richter, D. H., 1955, Some thermodynamic relations among the uranium oxides and their relation to the oxidation states of the uranium ores of the Colorado Plateau: *Am. Mineralogist*, v. 40, p. 1004-1021.
- 1955, Is carbon dioxide an ore-forming fluid under shallow-earth conditions?: *Econ. Geology*, v. 50, p. 447-458.
- 1957, Geochemistry of "sandstone type" uranium deposits, *In* *Advances in nuclear engineering: Nuclear Eng. Sci. Cong.*, 2d, Philadelphia, Proc., v. 2, p. 288-293, illus.
- Garrels, R. M., Larsen, E. S., 3d, Pommer, A. M., and others, 1957, Detailed mineral and chemical relations in two uranium-vanadium ores: U.S. Geol. Survey TEI-635, 55 p., (see U.S. Geol. Survey Prof. Paper 320).
- Gent, C. A., 1976, Annotated bibliography of the geology of selenium, 1958-1974: U.S. Geol. Survey Bull. 1419, 49 p.
- George, D'Arcy, 1949, Mineralogy of uranium- and thorium-bearing minerals: U.S. Atomic Energy Comm. RMO-563, 198 p.
- George, R. D., 1917, Common minerals and rocks - their occurrence and uses: *Colorado Geol. Survey Bull.* 12, 463 p., 55 figs., 1 pl., 5 tables. Rerelease of Bulletin 6.
- George, R. D., Curtis, H. A., Lester, O. C., and others, 1920, Mineral waters of Colorado: *Colorado Geol. Survey Bull.* 11, 474 p., 40 figs., 2 pls.; map (scale 1:1,000,000).
- Gerhard, L. C., and Mark, Anson, 1968, First day's road log - southwest from Pueblo to northeast flank of Wet Mountains; study of Paleozoic and Mesozoic section from Beulah to Canon City area; return to Pueblo, *In* *Guidebook Issue, southeastern Colorado*: *Mtn. Geologist*, v. 5, no. 3, p. 154-164, illus.
- Gilbert, C. C., 1954, Resource appraisal, *In* Geologic Investigations of radioactive deposits - Semiannual progress report, classified data, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-491, p. 9-12.
- 1954, Ore distribution study [Colorado], *In* Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-440, p. 39.
- Gilbert, G. K., 1875, The Colorado Plateau province as a field for geological study [abs.]: *American Assoc. Adv. Sci. Proc.*, v. 32, pt. 2, p. 32-35.
- 1876, The Colorado Plateau province as a field for geological study: *Am. Jour. Sci.*, ser. 3, v. 12, p. 16-24, 85-103.
- Gilbert, R. E., 1972, Schwartzwalder area geology

- [map]: Cotter Corp., Unpub. map prepared for publisher.
- Gill, J. R., 1953, Uranium in carbonaceous rocks; parts of Colorado, Wyoming and Montana, In Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 118-119.
- Gillerman, Elliot, 1958, Some mineral deposits of south-central Colorado: Kansas Geol. Soc. Guidebook, 22d Field Conf., p. 111-119.
- Girdley, W. A., Flook, J. E., and Harris, R. E., 1975, Subsurface stratigraphy and uranium-vanadium favorability of the Morrison formation, Sage Plain area, southeastern Utah and southwestern Colorado: U.S. Energy Research and Devel. Adm. GJO-912-21.
- Goddard, E. N., 1946, Fluorspar deposits of the Jamestown district, Boulder County, Colorado: Colorado Sci. Soc. Proc., v. 15, no. 1, 47 p., illus.
- Goddard, E. N., and Glass, J. J., 1940, Deposits of radioactive cerite near Jamestown, Colorado: Am. Mineralogist, v. 25, no. 6, p. 381-404, illus. (incl. geol. map).
- Goldenstein, S. J., 1957, Area economic map of the Mount Wasa quadrangle, Grand County, Utah, and Mesa County, Colorado: U.S. Atomic Energy Comm. open-file map.
- Goldstein, E. H., 1957, Geology of the Dakota formation uranium deposit near Morrison, Colorado: Econ. Geology, v. 52, no. 7, p. 775-785, illus. (incl. geol. sketch map).
- Gordon, E. D., Withington, C. F., and Dow, V. T., 1953, Practices and results obtained with sample collectors for wagon-drill cuttings: U.S. Geol. Survey TEI-213, 23 p.
- Gotchy, R. L., and Schlager, K. J., 1969, Bioassay methods for estimating current exposures to short-lived radon progeny: Health Phys., v. 17, p. 199-218.
- Gott, G. B., 1948, Investigation of radioactive springs near Jamestown, Colorado: U.S. Geol. Survey TEM-1, 4 p.
- 1948, Radioactive springs near Jamestown, Colorado: U.S. Geol. Survey TEM-1A, 8 p.
- 1950, The Leyden uranium prospect, Jefferson County, Colorado: U.S. Geol. Survey TEM-132.
- 1951, Garo uranium deposits, Park County, Colorado: U.S. Geol. Survey TEM-222.
- Gott, G. B., and Erickson, R. L., 1951, A preliminary summary report of a reconnaissance of sandstone - type copper-uranium deposits in parts of New Mexico, Colorado, Utah, Idaho, and Wyoming: U.S. Geol. Survey TEM-290.
- 1952, Reconnaissance of uranium and copper deposits in parts of New Mexico, Colorado, Utah, Idaho and Wyoming: U.S. Geol. Survey TEI-232, 33 p., (see U.S. Geol. Survey Circ. 219).
- 1952, Reconnaissance of uranium and copper deposits in parts of New Mexico, Colorado, Utah, Idaho, and Wyoming: U.S. Geol. Survey Circ. 219, 16 p., (see U.S. Geol. Survey TEI-232, pt. 1).
- Gott, G. B., Wyant, D. G., and Beroni, E. P., 1952, Uranium in black shales, lignites, and limestones in the United States, In Selected papers on uranium deposits in the United States: U.S. Geol. Survey Circ. 220, p. 31-35, (maps) [1953].
- Gottfried, David, 1954, Distribution of uranium in igneous complexes, In Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-440, p. 202-205.
- 1956, Distribution of uranium in igneous complexes; Precambrian granites of the Front Range of Colorado, In Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956: U.S. Geol. Survey TEI-640, p. 292-297.
- 1958, Uranium in some volcanic rocks, In Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1958: U.S. Geol. Survey TEI-750, p. 95-101, illus.
- Gow, T. T., 1914, Radioactivity of the basalt of Table Mountain at Golden (Jefferson County), Colorado, and igneous rocks in the region northwest of Gilmore, Conejos County (and Rio Grande County), Colorado: Colorado School Mines M.S. thesis.
- Granger, H. C., and Beroni, E. P., 1950, Cook property, Jefferson County: U.S. Geol. Survey TEM-20.
- Granger, H. C., and King, R. U., 1950, Report of factual data obtained during examination of Copper King shaft, Black Hawk claim No. 1, Larimer County, Colorado: U.S. Geol. Survey TEM-128, 1 p., figures.
- 1951, Uranium in the Copper King mine, Black Hawk no. 1 claim, Larimer County, Colorado: U.S. Geol. Survey TEM-128A.
- Granger, H. C., and Warren, C. G., 1969, Unstable sulfur compounds and the origin of roll-type uranium deposits: Econ. Geology, v. 64, no. 2, p. 160-171.
- Griffiths, J. C., 1952, The megascopic and field examination of samples from the Salt Wash sediments in southwest Colorado and southeast Utah: U.S. Atomic Energy Comm. RME-3023, 54 p., illus.
- 1954, An investigation into the application

- of quantitative analysis of sediments in the exploration for uranium ore [Colorado Plateau]: U.S. Atomic Energy Comm. RME-3088, p. 1-4.
- 1954, Petrographical Investigations of the Salt Wash sediments -- Progress report, April 1 to Oct. 1, 1954: U.S. Atomic Energy Comm. RME-3106, 98 p., (prepared by Pennsylvania State Univ.) illus.
- 1957, Petrographical Investigations of the Salt Wash sediments -- Final report: U.S. Atomic Energy Comm. RME-3151, 38 p., (prepared by Pennsylvania State Univ.).
- Griffiths, J. C., and Singer, D. A., 1969, Size, shape and arrangement of some uranium ore bodies: U.S. Atomic Energy Comm. GJO-918-2.
- Griffiths, J. C., Cochran, J. A., Groff, D. W., and Kahn, J. S., 1953, Petrographical Investigations of the Salt Wash sediments - Progress report, June 1 to Oct. 1, 1953: U.S. Atomic Energy Comm. RME-3070, 94 p., illus.
- 1954, Petrographical Investigations of the Salt Wash sediments - Annual technical report, April 1, 1953, to April 1, 1954: U.S. Atomic Energy Comm. RME-3097, 63 p., illus.
- 1956, Size, shape and orientation of quartz grains in 50 samples of Salt Wash sandstones, in Petrographical Investigations of the Salt Wash sediments - Annual technical report, April 1, 1954, to April 1, 1955: U.S. Atomic Energy Comm. RME-3122, pt. 1, 77 p.
- 1956, Petrographical Investigations of the Salt Wash sediments - Annual technical report, April 1, 1954, to April 1, 1955: U.S. Atomic Energy Comm. RME-3122, pt. 2, 84 p., illus.
- Grimaldi, F. S., and Marsh, C. A., 1947, The determination of thorium in high-grade and low-grade ores: U.S. Atomic Energy Comm. RMO-379 (AECD-2818), (see U.S. Geol. Survey Bull. 1006, p. 169-175).
- Grogan, R. M., 1959, Niobium at Powderhorn, Colorado [abs.]: Mining Eng., v. 11, no. 12, p. 1228.
- 1960, Columbium at Powderhorn, Colorado: Mines Mag., v. 50, no. 9, p. 15-16.
- Gross, E. B., 1965, A unique occurrence of uranium minerals, Marshall Pass, Saguache County, Colorado: Am. Mineralogist, v. 50, nos. 7-8, p. 909-923, illus. (incl. tables).
- Gross, W. H., 1952, Radioactivity as a guide to ore: Econ. Geology, v. 47, p. 722-742.
- Grossman, E. L., 1957, Uranium deposits of the Colorado Front Range: Colorado Mining Assoc. Natl. Western Mining Conf., 60th, Denver, 1957, Trans., v. 1, p. 47-51.
- Grossman, E. L., and Smith, B. C., 1956, Results of airborne radiometric survey of the Dakota hogbacks of north central Colorado: U.S. Atomic Energy Comm. RME-1079 13 p.
- Gruenerwald, William, and Richardson, G. R., 1945, Report on Sleepy Cat Mountain district, White River uplift area, Colorado: U.S. Atomic Energy Comm. RMO-457 15 p., (for abstract see NSA 31:330(6)).
- Gruner, J. W., 1951, Origin of the uranium deposits in the Shinarump Formation, a preliminary study, in Annual report, July 1, 1950, to June 30, 1951: U.S. Atomic Energy Comm. RMO-837, pt. 2.
- 1953, The changes from red to gray shales and silts in uranium-bearing areas [Colorado Plateau], in Annual report, July 1, 1952, to March 31, 1953: U.S. Atomic Energy Comm. RME-3044, p. 28-35.
- 1953, Syngenetic versus hydrothermal hypothesis for the origin of the uranium deposits of the Colorado Plateau, in Annual report, July 1, 1952, to March 31, 1953: U.S. Atomic Energy Comm. RME-3044, p. 41-58.
- 1953, Primary and secondary sources of uranium in the Colorado Plateau, in Annual report, July 1, 1952, to March 31, 1953: U.S. Atomic Energy Comm. RME-3044, p. 36-40.
- 1954, The uranium mineralogy of the Colorado Plateau and adjacent regions, in Uranium deposits and general geology of southeastern Utah: Utah Geol. Soc. Guidebook no. 9, p. 70-77.
- 1954, The origin of the uranium deposits of the Colorado Plateau and adjacent regions: Mines Mag., v. 44, no. 3, p. 53-56, illus.
- 1956, Hypothesis for concentration of uranium in sediments by multiple migration-accretion, in Annual report, April 1 1955, to March 31, 1956: U.S. Atomic Energy Comm. RME-3137, pt. 1, (see Econ. Geology, v. 51, p. 495-520).
- 1956, Mineral associations in the continental-type uranium deposits of the Colorado Plateau and adjacent areas, in Geology and economic deposits of east-central Utah: Intermtn. Assoc. Petroleum Geologists Ann. Field Conf., 7th, Salt Lake City, Utah, p. 151-154, illus.
- 1956, Concentration of uranium in sediments by multiple migration-accretion: Econ. Geology, v. 51, p. 495-520.
- 1957, The why and where of uranium in sedimentary rocks: Mines Mag., v. 47, no. 3, p. 84-88, illus.
- 1958, Annual report for April 1, 1957, to March 31, 1958: U.S. Atomic Energy Comm. RME-3155, 14 p.
- Gruner, J. W., and Gardiner, L., 1950, Some observations and experiments on asphaltic and lignitized materials containing uranium, in Fourth progress report for period July 1 To Nov. 1, 1950:

- U.S. Atomic Energy Comm. RMO-747, p. 6-14.
- 1952, Mineral associations in the uranium deposits of the Colorado Plateau and adjacent regions with special emphasis on those in the Shinarump Formation, In Annual Report, July 1, 1951, to June 30, 1952: U.S. Atomic Energy Comm. RMO-566, pt. 3, 40 p.
- Gruner, J. W., and Knox, J. A., 1957, Minerals identified from properties in Arizona, Colorado, Montana, New Mexico, South Dakota, Texas, Utah, and Wyoming, In Annual report, April 1, 1956, to March 31, 1957: U.S. Atomic Energy Comm. RME-3148, p. 35-48.
- Gruner, J. W., and Smith, D. K., Jr., 1954, Ninth progress report for period April 1 to Oct. 1, 1954: U.S. Atomic Energy Comm. RME-3103, 10 p.
- 1955, Some additional determinations of minerals of the Colorado Plateau, In Annual report, April 1, 1954, to March 31, 1955: U.S. Atomic Energy Comm. RME-3020, p. 34-37.
- 1955, Mineral determinations in uranium deposits and prospects in Wyoming and northern Colorado, In Annual report, April 1, 1954, to March 31, 1955: U.S. Atomic Energy Comm. RME-3020, p. 25-33.
- 1955, Tenth progress report for period April 1 to Oct. 1, 1955: U.S. Atomic Energy Comm. RME-3125, 19 p.
- 1955, The problem of coffinite, In Annual report, April 1, 1954, to March 1, 1955: U.S. Atomic Energy Comm. RME-3020, p. 16-24.
- Gruner, J. W., Gardiner, L., and Smith, D. K., Jr., 1953, Syntheses of uranium minerals, In Annual report, July 1, 1952, to March 31, 1953: U.S. Atomic Energy Comm. RME-3044, p. 20-26.
- 1953, Uranium-bearing carbonaceous and asphaltic materials of the Colorado Plateau, In Annual report, July 1, 1952, to March 31, 1953: U.S. Atomic Energy Comm. RME-3044, p. 13-19.
- 1954, Mineral associations in the uranium deposits of the Colorado Plateau and adjacent regions; Interim report: U.S. Atomic Energy Comm. RME-3092, 48 p.
- Gruner, J. W., Rosenzweig, A., and Smith, D. K., Jr., 1953, Progress report for April 1 to Oct. 1, 1953: U.S. Atomic Energy Comm. RME-3060, 9 p.
- 1954, The problem of the primary ores of the Colorado Plateau, In Annual report, April 1, 1953, to March 31, 1954: U.S. Atomic Energy Comm. RME-3094, p. 31-32.
- Gruner, J. W., Smith, D. K., Jr., and Knox, J. A., 1956, Mineral determinations in uranium deposits and prospects in Wyoming, northwestern Colorado, and western South and North Dakota, In Annual report, April 1, 1955, to March 31, 1956: U.S. Atomic Energy Comm. RME-3137, pt. 2, 24 p.
- Grutt, E. W., Jr., 1956, Uranium deposits in Tertiary clastics in Wyoming and northern Colorado [revised], In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 361-370, illus.
- 1956, Uranium deposits in Tertiary sedimentary rocks in Wyoming and northern Colorado, In Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc., v. 6, p. 392-402.
- 1975, The search for uranium -- a perspective, In Colorado Mining Assoc. Mining Yearbook: Colorado Mining Assoc., p. 119.
- Grutt, E. W., Jr., and Whalen, J. F., 1955, Uranium in northern Colorado and southern Wyoming, In Guidebook to the geology of northwest Colorado: Internat. Assoc. Petroleum Geologists, 6th Ann. Field Conf, Salt Lake City, Utah, p. 126-129, geol. sketch map.
- Gualtieri, J. L., and Emerick, W. L., 1953, Development drilling on the Terrible group, Gypsum Valley district, Montrose County, Colorado: U.S. Geol. Survey TEM-493, 9 p., figures.
- 1953, Development drilling in the Hawkeye claim area, Slick Rock district, San Miguel County, Colorado: U.S. Geol. Survey TEM-687, 6 p., figures.
- Gude, A. J., 3d, and McKeown, F. A., 1952, Results of exploration at the Old Leyden coal mine, Jefferson County, Colorado: U.S. Geol. Survey TEM-292, 18 p., figures, maps.
- 1953, Results of exploration at the Old Leyden coal mine, Jefferson County, Colorado: U.S. Geol. Survey open-file report 179, 18 p., figures.
- Guillotte, G. B., 1944, Report of reconnaissance for uranium mineral occurrences in the Uinta Basin of Utah and Colorado: U.S. Atomic Energy Comm. RMO-137, 21 p.
- 1944, Report of preliminary field reconnaissance of reported S-37 [uranium minerals] occurrences in eastern Colorado: U.S. Atomic Energy Comm. RMO-49, 4 p.
- 1944, Report on field reconnaissance survey of S-37 [uranium mineral] deposits in Gilpin County, Colorado: U.S. Atomic Energy Comm. RMO-48, 38 p.
- 1944, S-37 [uranium] occurrences in the Grover pegmatite mine on North Beaver Brook, Clear Creek County, Colorado: U.S. Atomic Energy Comm. RMO-46, 13 p.
- 1945, The geology and ore deposits of the

- Brown Derby pegmatites, Box Canyon mining district, Gunnison County, Colorado: U.S. Atomic Energy Comm. RMO-45, 22 p., (geologic map).
- 1947, Gamma ray logging of drill holes in the Slick Rock district, Dolores Plateau area, Colorado: U.S. Atomic Energy Comm. RMO-461 32 p., (for abstract see NSA 33:00695).
- 1947, Gamma ray logging of drill holes in the Calamity district, Uncompahgre uplift area, Colorado: U.S. Atomic Energy Comm. RMO-415 79 p., (for abstract see NSA 32:00694).
- Gustafson, J. K., 1949, Colorado Plateau program: Rocks and Minerals, v. 24, p. 137-139.
- 1949, Uranium resources: Nucleonics, v. 4, no. 5, p. 23-28.
- Hackman, R. J., 1952, Photogeologic map, Mount Peale-8 quadrangle, Utah-Colorado: U.S. Geol. Survey TEM-465, (see U.S. Geol. Survey Misc. Geol. Inv. Map 1-174).
- 1952, Photogeologic map, Mount Peale-1 quadrangle, Grand and San Juan Counties, Utah, Montrose County, Colorado: U.S. Geol. Survey TEM-467, (see U.S. Geol. Survey Misc. Geol. Inv. Map 1-165).
- 1952, Photogeologic map, Mount Peale-16 quadrangle, Utah-Colorado: U.S. Geol. Survey TEM-448, (see U.S. Geol. Survey Misc. Geol. Inv. Map 1-176).
- 1952, Photogeologic map, Aneth-1 quadrangle, Utah-Colorado: U.S. Geol. Survey TEM-452, (see U.S. Geol. Survey Misc. Geol. Inv. Map 1-90).
- 1952, Photogeologic map, Verdure-16 quadrangle, Colorado-Utah: U.S. Geol. Survey TEM-392.
- 1952, Photogeologic map, Verdure-1 quadrangle, Colorado-Utah: U.S. Geol. Survey TEM-399.
- 1952, Photogeologic map, Verdure-8 quadrangle, Colorado-Utah: U.S. Geol. Survey TEM-403.
- 1952, Photogeologic map, Verdure-9 quadrangle, Colorado-Utah: U.S. Geol. Survey TEM-385.
- 1955, Photogeologic map of the Aneth-8 quadrangle, San Juan County, Utah, and Montezuma County, Colorado: U.S. Geol. Survey Misc. Geol. Inv. Map 1-97, scale 1:24,000.
- 1955, Photogeologic map of the Aneth-1 quadrangle, San Juan County, Utah, and Montezuma County, Colorado: U.S. Geol. Survey Misc. Geol. Inv. Map 1-90, scale 1:24,000 (see U.S. Geol. Survey TEM-452).
- 1955, Photogeologic map, Mount Peale-9 quadrangle, San Juan County, Utah, and Montrose and San Miguel Counties, Colorado: U.S. Geol. Survey TEM-450A, (see U.S. Geol. Survey Misc. Geol. Inv. Map 1-157).
- 1956, Photogeologic map of the Mount Peale-16 quadrangle, San Juan County, Utah, and San Miguel County, Colorado: U.S. Geol. Survey Misc. Geol. Inv. Map 1-176, scale 1:24,000 (see U.S. Geol. Survey TEM-448).
- 1956, Photogeologic map of the Mount Peale-8 quadrangle, San Juan County, Utah, and Montrose County, Colorado: U.S. Geol. Survey Misc. Geol. Inv. Map 1-174, scale 1:24,000 (see U.S. Geol. Survey TEM-465).
- 1956, Photogeologic map of the Mount Peale-1 quadrangle, San Juan County, Utah, and Montrose County, Colorado: U.S. Geol. Survey Misc. Geol. Inv. Map 1-165, scale 1:24,000 (see U.S. Geol. Survey TEM-467).
- 1956, Photogeologic map of the Mount Peale-9 quadrangle, San Juan County, Utah, and Montrose and San Miguel Counties, Colorado: U.S. Geol. Survey Misc. Geol. Inv. Map 1-157, scale 1:24,000 (see U.S. Geol. Survey TEM-450A).
- 1958, Photogeologic map of the Escalante Forks quadrangle, Mesa, Montrose and Delta Counties, Colorado: U.S. Geol. Survey Misc. Geol. Inv. Map 1-274, scale 1:62,500.
- 1959, Photogeologic map of the Coach Creek NE quadrangle, Grand County, Colorado: U.S. Geol. Survey Misc. Geol. Inv. Map 1-279, scale 1:24,000.
- 1959, Photogeologic map of the Coach Creek SE quadrangle, Grand County, Colorado: U.S. Geol. Survey Misc. Geol. Inv. Map 1-278, scale 1:24,000.
- 1959, Photogeologic map of the Yellow Jacket quadrangle, Montezuma and Dolores Counties, Colorado: U.S. Geol. Survey Misc. Geol. Inv. Map 1-281, scale 1:62,500.
- Hager, Dorsey, 1955, Channels, the key to uranium concentrations in the Colorado Plateau area: Uranium, v. 2, no. 9, p. 12-15, illus.
- Hagmaler, J. W., 1971, The relation of uranium occurrences to ground water flow systems: Earth Science Bull., v. 4, no. 2, p. 19-24.
- Hague, R. S., 1956, Uranium in the Bull Canyon area, Montrose and San Miguel Counties, Colorado: U.S. Atomic Energy Comm. RME-89, 13 p.
- Hague, R. S., Goldstein, S. J., and Blakey, E., 1958, Uranium-vanadium deposits of the Uravan mineral belt: U.S. Atomic Energy Comm. open-file map.
- Haji-Vassiliou, Andreas, 1969, The association of uranium with naturally occurring organic materials in the Colorado Plateau and other areas: Columbia Univ. Ph.D. thesis, 265 p.
- 1969, The association of uranium with naturally occurring organic materials in the Colorado Plateau and other areas [abs.]: Dissert. Abs. Internat., v. 30, no. 6, p. 2829B.

- Hall, C. R., 1976, Selected references on alkalic igneous rocks of the United States: U.S. Energy Research and Devel. Adm. GJBX-4(76).
- Hall, C. W., 1972, Bibliography of water pollution via subsurface waste injection: U.S. Environmental Protection Agency, Office Water Program.
- Hallin, J. S., 1973, Heat flow and radioactivity studies in Colorado and Utah, 1971-1972: Univ. Wyoming M.S. thesis.
- Hampton, O. W., 1955, Methods and cost of uranium exploration and mining on the Colorado Plateau: Univ. Colorado M.S. thesis.
- Hancock, E. T., 1915, The history of a portion of Yampa River, Colorado, and its possible bearing on that of Green River, In Shorter contributions to general geology, 1914: U.S. Geol. Survey Prof. Paper 90, p. 183-189.
- Hanley, E. S., 1948, Golden Cycle tailings dump, Colorado Springs, Colorado: U.S. Geol. Survey TEM-6, 10 p., tables, maps.
- Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950, Pegmatite investigations in Colorado, Wyoming, and Utah, 1942-44: U.S. Geol. Survey Prof. Paper 227, 125 p.
- Hansel, J. M., and Martell, C. J., 1977, Automated energy-dispersive x-ray determination of trace elements in stream sediments: U.S. Energy Research Devel. Adm. GJBX-52(77).
- Hansen, W. R., and Peterman, Z. E., 1968, Basement-rock geochronology of the Black Canyon of the Gunnison, Colorado, In Geological Survey research 1968: U.S. Geol. Survey Prof. Paper 600-C, p. C80.
- Harder, J. O., and Stead, F. W., 1945, Reconnaissance for radioactive ore deposits in the United States, summary of progress: U.S. Geol. Survey TEI-21, (see U.S. Geol. Survey Prof. Papers 300, 356-C, D, 357, 455-A-F, and 538).
- Harder, J. O., and Wyant, D. G., 1944, Preliminary report on a trace elements reconnaissance in western states: U.S. Geol. Survey TEI-4, 47 p.
- Harrison, J. E., 1952, The uranium occurrences in the Martha E prospect, Lawson-Dumont district, Clear Creek County, Colorado: U.S. Geol. Survey TEM-291, 12 p., figures.
- _____, 1972, Uranium rolls in the United States: The Mtn. Geologist, v. 9, no. 2-3, p. 135-141.
- _____, 1974, Distribution of elements in some roll-type uranium deposits, In Formation of uranium ore deposits: Internat. Atomic Energy Agency, p. 169-183.
- Hart, S. R., 1964, The petrology and isotopic mineral age relations of a contact zone in the Front Range, Colorado: Jour. Geology, v. 72, p. 493-525.
- Harvey, Linda, 1976, Colorado's nuclear contamination - What you're not told: Denver Magazine, v. 4, no. 11, p. 34.
- Hastings, J. S., 1958, Geology of selected uranium-vanadium deposits of Long Park, Montrose County, Colorado: Colorado School Mines M.S. thesis.
- _____, 1963, Mining geology methods in Uravan mineral belt: Mines Mag., v. 53, no. 5, p. 14-17, illus.
- Hathaway, J. C., 1959, Mixed-layered structures in vanadium clays, In Garrels, R. M., and Larsen, E. S., compilers, Geochemistry and mineralogy of the Colorado Plateau uranium ores: U.S. Geol. Survey Prof. Paper 320, p. 133-138, illus.
- Hawkes, H. E., 1949, Geobotanical program for Colorado Plateau, pt. 3 of Progress report on geologic, mineralogic, and geobotanical guides to ore in the carnotite deposits of the Colorado Plateau: U.S. Geol. Survey TEI-96, 3 p.
- Hawley, C. C., and Moore, F. B., 1955, Control of uranium deposition by garnet-quartz rocks in the Fall River area, Clear Creek County, Colorado [abs.]: Geol. Soc. America Bull., v. 66, no. 12, pt. 2, p. 1675.
- _____, 1967, Geology and ore deposits of the Lawson-Dumont-Fall River district, Clear Creek County, Colorado: U.S. Geol. Survey Bull. 1231, 92 p., illus., tables, geol. map.
- Haynes, D. D., Vogel, J. D., and Wyant, D. G., compilers, 1972, Geology, structure, and uranium deposits of the Cortez quadrangle, Colorado and Utah [map]: U.S. Geol. Survey Misc. Geol. Inv. Map I-629, scale 1:250,000, 2 sheets.
- Headden, W. P., 1905, The Doughty Springs, a group of radium-bearing springs, Delta County, Colorado: Colorado Sci. Soc. Proc., v. 8, p. 1-50.
- _____, 1953, Relation between fracture pattern and hypogene zoning in the Freeland-Lamartine district, Clear Creek County, Colorado [abs.]: Geol. Soc. America Bull., v. 64, no. 12, pt. 2, p. 1431, (see U.S. Geol. Survey TEI-295).
- _____, 1953, Freeland-Lamartine district, In Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 96-97.
- _____, 1955, Relation between fracture pattern and hypogene zoning in the Freeland-Lamartine district, Colorado: Econ. Geology, v. 50, no. 3, p. 311-320, illus.
- Harrison, J. E., and Leonard, B. F., 1952, Preliminary report on the Jo Reynolds area, Lawson-Dumont district, Clear Creek County, Colorado: U.S. Geol. Survey Circ. 213, 9 p., [1953].

- 1952, Preliminary report on the Jo Reynolds area, Lawson-Dumont district, Clear Creek County, Colorado: U.S. Geol. Survey TEM-153, (see U.S. Geol. Survey Circ. 213).
- Harrison, J. E., and Wells, J. D., 1953, Area south and west of Freeland: U.S. Geol. Survey TEI-390, p. 105-106.
- 1954, Geology and ore deposits of Freeland-Lamartine district, Clear Creek County, Colorado: U.S. Geol. Survey TEI-295, 127 p., (see U.S. Geol. Survey Bull. 1032-B).
- 1956, Geology and ore deposits of the Chicago Creek area, Clear Creek County, Colorado: U.S. Geol. Survey TEI-432, (see U.S. Geol. Survey Prof. Paper 319).
- 1956, Geology and ore deposits of the Freeland-Lamartine district, Clear Creek County, Colorado: U.S. Geol. Survey Bull. 1032-B, p. 33-127, (see U.S. Geol. Survey TEI-295), illus. (incl. maps).
- 1959, Geology and ore deposits of the Chicago Creek area, Clear Creek County, Colorado: U.S. Geol. Survey Prof. Paper 319, 92 p., illus. (incl. geol. maps).
- Harshman, E. N., 1970, Uranium ore rolls in the United States, In Uranium exploration geology: Internat. Atomic Energy Agency, p. 219-232.
- 1971, Various aspects of uranium ore rolls in the United States: U.S. Geol. Survey open-file report, 21 p., 6 figures.
- 1905, The Doughty Springs, a group of radium-bearing springs, Delta County, Colorado [abs.]: Am. Jour. Sci., ser. 4, v. 19, p. 297-309.
- 1905, Alunogen, Doughty Springs, Delta County, Colorado: Colorado Sci. Soc. Proc., v. 8, p. 62-67.
- 1909, Notes on some mineral springs: Colorado Sci. Soc. Proc., v. 9, p. 259-272.
- Hedge, C. E., Peterman, Z. E., Case, J. E., and others, 1968, Precambrian geochronology of the northwestern Uncompahgre Plateau, Utah and Colorado, In Geological Survey research 1968: U.S. Geol. Survey Prof. Paper 600-C, p. C91.
- Hedlund, D. C., and Olson, J. C., 1958, Investigations of thorium in veins, Gunnison County, Colorado, In Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1957, to May 31, 1958: U.S. Geol. Survey TEI-740, p. 311-314, (geol. sketch map).
- 1961, Four environments of thorium-, niobium-, and rare-earth-bearing minerals in the Powderhorn district of southwestern Colorado, In Short papers in the geologic and hydrologic sciences: U.S. Geol. Survey Prof. Paper 424-B, B283-B286, illus.
- 1973, Geologic map of the Carpenter Ridge quadrangle, Gunnison County, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-1070, scale 1:24,000.
- 1974, Geologic map of the Iris NW quadrangle, Gunnison and Saguache Counties, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-1134, scale 1:24,000.
- 1975, Geologic map of the Powderhorn quadrangle, Gunnison and Saguache Counties, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-1178, scale 1:24,000.
- Heinicke, J. H., 1960, Thorium, Chap. 7 of Mineral resources of Colorado, 1st sequel: Denver, Colorado, Colorado Mineral Resources Board, p. 387-397.
- Heinrich, E. W., 1948, Fluorite-rare earth mineral pegmatites of Chaffee and Fremont Counties, Colorado: Am. Mineralogist, v. 33, nos. 1-2, p. 64-75, illus. (incl. sketch map).
- 1958, Rare-earth pegmatites of the South Platte-Lake George area, Douglas, Teller and Park Counties, Colorado [abs.]: Geol. Soc. America Bull., v. 69, no. 12, pt. 2, p. 1579-1580.
- 1958, Mineralogy and geology of radioactive raw materials: New York, McGraw-Hill Book Co., 654 p.
- Heinrich, E. W., and Bever, J. E., 1957, Radioactive mineral occurrences in the Guffey area, Park and Fremont Counties, Colorado: Colorado School Mines Quart., v. 52, no. 4, p. 23-35, illus. (incl. geol. sketch map).
- Heinrich, E. W., and Dahlem, D. H., 1957, Columbite and stibiotantalite [abs.], In Brown Derby Pegmatites, Colorado, Part I: Geol. Soc. America Bull., v. 68, no. 12, pt. 2, p. 1744.
- 1966, Unusual characteristics of carbonatites in the Arkansas River Canyon area, Colorado [abs.]: Geol. Soc. America Spec. Paper 87, p. 77-78.
- 1967, Carbonatites and alkalic rocks of the Arkansas River area, Colorado: Internat. Mineralog. Assoc., 4th Gen. Mtg., New Delhi, India, 1964, Papers and Proc., p. 37-44, illus.
- 1967, The Pinion Creek breccia pipes, pt. 4 of Carbonatites and alkalic rocks of the Arkansas River area, Fremont County, Colorado: Am. Mineralogist, v. 52, nos. 5-6, p. 817-831, illus., table.
- 1970, Dikes of the McClure Mountain-Iron Mountain alkalic complex, Fremont County, Colorado, U.S.A. [disc.]: Bull. Volcanol., v. 33, no. 3, p. 960-976.
- Heinrich, E. W., and Reuss, R. L., 1969, The Gem Park gabbroic intrusive and its carbonatites, Fremont and Custer Counties, Colorado [abs.]:

- Geol. Soc. America Spec. Paper 121, p. 660-661.
- Heinrich, E. W., and Shappirio, J. R., 1966, The amethyst carbonatites, pt. 3 of Alkaline rocks and carbonatites of the Arkansas River Canyon, Fremont County, Colorado: *Am. Mineralogist*, v. 51, no. 7, p. 1088-1106.
- Heinrich, E. W., Borup, R. A., and Levinson, A. A., 1958, Rare-earth and thorium distribution in some pegmatitic monazites [abs.]: *Geol. Soc. America Bull.*, v. 69, no. 12, pt. 2, p. 1580.
- Henderson, E. P., 1935, Stelgerite, a new vanadium mineral: *Am. Mineralogist*, v. 20, no. 11, p. 769-772.
- Henderson, E. P., and Hess, F. L., 1933, Corvusite and rillandite, new minerals from the Utah-Colorado carnotite region: *Am. Mineralogist*, v. 18, no. 5, p. 195-205, illus.
- Hendricks, T. A., 1948, Memorandum on the reconnaissance of the Green River oil shale: U.S. Geol. Survey TEM-53, 3 p.
- Henkes, W. C., Irwin, J. H., and Pratt, W. P., 1976, Status of mineral resources information for the Ute Mountain Indian Reservation, Colorado and New Mexico: U.S. Bur. Indian Affairs Admin. Rept. BIA-17, p. 45-46.
- Hennig, K. L., 1908, Der Carnotite [carnotite]: *Globus*, no. 93, p. 155-157.
- Hess, F. L., 1911, Arsenic, in *Nonmetals*, pt. 2 of Mineral resources of the United States: U.S. Geol. Survey Mineral Resources U.S., p. 699.
- 1911, Bismuth, tungsten, vanadium, uranium, molybdenum, tantalum, arsenic, in *Metals*, pt. 1 of Mineral resources of the United States, 1916: U.S. Geol. Survey Mineral Resources, U.S., p. 729, 734, 738, also see p. 759-764.
- 1911, Tungsten, uranium, and vanadium, in *Metals*, pt. 1 of Mineral resources of the United States, 1909: U.S. Geol. Survey Mineral Resources U.S., p. 577-581, also see p. 584-585, 587.
- 1912, Tungsten, vanadium, uranium, molybdenum, bismuth, in *Metals*, pt. 1 of Mineral resources of the United States: U.S. Geol. Survey Mineral Resources U.S., p. 941-955, 976.
- 1912, Tungsten, vanadium, uranium, molybdenum, bismuth [abs.]: *Mining Sci.*, v. 66, p. 119-121.
- 1913, Notes on vanadium deposits near Placerville, Colorado, in *Metals and nonmetals except fuels*, pt. 1 of Contributions to economic geology, 1911: U.S. Geol. Survey Bull. 530, p. 142-156.
- 1913, Uranium and vanadium, in *Metals*, pt. 1 of Mineral resources of the United States: U.S. Geol. Survey Mineral Resources U.S., p. 1003-1037.
- 1914, A hypothesis for the origin of the carnotites of Colorado and Utah: *Econ. Geology*, v. 9, no. 7, p. 675-688.
- 1922, Review of "Radium, uranium, and vanadium deposits of southwestern Colorado" by R. C. Coffin and others: *Colorado Geol. Survey Bull.* 16, (see also *Econ. Geology*, v. 17, no. 16, p. 506-511).
- 1925, New and known minerals from the Utah-Colorado carnotite region Part 1: U.S. Geol. Survey Bull. 750-D, p. 63-78.
- 1925, Radium, uranium, and vanadium, in *Metals*, pt. 1 of Mineral resources of the United States: U.S. Geol. Survey Mineral Resources U.S., p. 575-583.
- 1927, Radium, uranium, and vanadium, in *Metals*, pt. 1 of Mineral resources of the United States: U.S. Bur. Mines Mineral Resources U.S., p. 469-476.
- 1929, Radium, uranium, and vanadium, in *Metals*, pt. 1 of Mineral resources of the United States: U.S. Bur. Mines Mineral Resources U.S., p. 265-274.
- 1932, Vanadium: U.S. Bur. Mines Inf. Circ. 6572, 8 p.
- 1933, Uranium, vanadium, radium, gold, silver, and molybdenum sedimentary deposits, in *Ore deposits of the Western States [Lindgren volume]*: New York, Am. Inst. Mining Metall. Engineers, p. 455-562.
- Hey, M. H., 1962, An index of mineral species and varieties arranged chemically, with an alphabetical index of accepted mineral names and synonyms: Norwich, Jarrold and Sons Ltd., 728 p., (2nd revised ed. reprinted with corrections).
- 1963, Appendix to the second edition of an index of mineral species and varieties arranged chemically: London, Eyre and Spottiswoode Ltd., 135 p.
- Heyl, A. V., 1954, Zoning of the Bitter Creek vanadium-uranium deposit, Montrose County, Colorado: U.S. Geol. Survey TEI-443, 27 p., (see U.S. Geol. Survey Bull. 1042-F).
- 1956, Zoning of the Bitter Creek vanadium-uranium deposit near Uravan, Colorado: U.S. Geol. Survey Bull. 1042-F, p. 187-201, [1957], illus. (see U.S. Geol. Survey TEI-44).
- Heyse, J. V., 1971, Mineralogy and paragenesis of the Schwartzwalder mine uranium ore, Jefferson County, Colorado: U.S. Atomic Energy Comm. GJO-912-1 91 p.
- Hickling, N. L., 1965, The mineralogy of allanite from the Boulder Creek batholith: American Univ. M.S. thesis.
- 1965, Allanites from the Boulder Creek batholith, Colorado: U.S. Geol. Survey open-file report.

- Hickling, N. L., Phair, G., Moore, R., and others, 1970, Allanite and its bearing upon age patterns, pt. 1 of Boulder Creek batholith, Colorado: Geol. Soc. America Bull., v. 81, no. 7, p. 1973-1993, illus. (Incl. sketch maps).
- High, T. D., 1970, Mining activity in district no. 4 for 1969, In Colorado Mining Assoc. Mining Yearbook: Colorado Mining Assoc., p. 134-135.
- 1971, Mining activity in district no. 4, In Colorado Mining Assoc. Mining Yearbook: Colorado Mining Assoc., p. 150-153.
- 1972, Mining activity in district no. 4, In Colorado Mining Assoc. Mining Yearbook: Colorado Mining Assoc., p. 120-122.
- 1973, Mining activity in district no. 4, In Colorado Mining Assoc. Mining Yearbook: Colorado Mining Assoc., p. 100-102.
- 1974, Mining activity in district no. 4, In Colorado Mining Assoc. Mining Yearbook: Colorado Mining Assoc., p. 124-126.
- 1975, Mining activity in district no. 4, In Colorado Mining Assoc. Mining Yearbook: Colorado Mining Assoc., p. 26.
- 1975, Radon daughter control program, In Colorado Mining Assoc. Mining Yearbook: Colorado Mining Assoc., p. 31.
- Hill, J. M., 1945, Unwatering and sampling of the Kirk mine, Gilpin County, Colorado, pt 1, and Geology of the Kirk Mine, Gilpin County, Colorado, pt 2: U.S. Atomic Energy Comm. RMO-47, 28 p.
- Hill, J. W., 1945, Report on ore reserves, Coal Creek anticline district, White River uplift area, Colorado: U.S. Atomic Energy Comm. RMO-475 pt. 2, 19 p.
- n.d., Uraniferous "asphaltite" of southwestern Oklahoma: U.S. Geol. Survey TEM-898.
- Hill, N. P., 1873, Pitchblende and tellurium-gold ores in Colorado: Am. Jour. Sci., ser. 3, v. 5, p. 386-387.
- Hillebrand, F. A., and Conklin, N. M., 1974, A breccia dike containing rare-earth bearing apatite, molybdenite, and magnetite at Iron Hill, Custer County, Colorado: Econ. Geology, v. 69, no. 4, p. 508-515, illus. (Incl. sketch maps).
- Hillebrand, W. F., 1890, On the occurrence of nitrogen in uraninite and on the composition of uraninite in general: U.S. Geol. Survey Bull. 78, p. 43-79.
- 1890, On the occurrence of nitrogen in uraninite and on the composition of uraninite in general: Am. Jour. Sci., ser. 3, v. 40, p. 384-394.
- 1900, Distribution and quantitative occurrence of vanadium and molybdenum in rocks of the United States: Am. Jour. Sci. ser. 4, v. 6, no. 33, p. 209-216, (1898) (see U.S. Geol. Survey Bull. 167, p. 49-55).
- 1900, Distribution and quantitative occurrence of vanadium and molybdenum in rocks of the United States: U.S. Geol. Survey Bull. 167, p. 49-55.
- 1924, Carnotite and tyuyamunite and their ores in Colorado and Utah: Am. Jour. Sci., ser. 5, v. 8, p. 201-216.
- Hillebrand, W. F., and Ransome, F. L., 1900, On carnotite and associated vanadiferous minerals in western Colorado: Am. Jour. Sci., ser. 4, v. 10, p. 120-144, illus.
- 1905, On carnotite and associated vanadiferous minerals in western Colorado, In Contributions to mineralogy from the U.S. Geol. Survey: U.S. Geol. Survey Bull. 262, p. 9-31.
- Hillebrand, W. F., Merwin, H. E., and Wright, F. E., 1914, Hewettite, metaheawettite, and pascolite, hydrous calcium vanadates: Am. Philos. Soc. Proc., v. 53, p. 31-54.
- 1915, Hewettite, metaheawettite and pascolite; hydrous calcium vanadates [abs.]: Washington Acad. Sci. Jour., v. 5, p. 179-180.
- Hillebrand, W. F., Wright, F. E., and Merwin, H. E., 1913, Calcium vanadates from Peru, Colorado, and Utah: Washington Acad. Sci. Jour., no. 3, p. 157-158.
- Hills, F. A., and Houston, R. S., 1976, A tectonic interpretation of lower Proterozoic rocks in Wyoming, northern Colorado, and western South Dakota [abs.]: Stockwell Symposium, Ottawa, Ontario, Mar. 4-5, 1976.
- Hilpert, L. S., 1949, Additional drilling on the Upper group and on the Ellison and Burro claims, San Miguel County, Colorado: U.S. Geol. Survey TEM-82, 5 p., figures.
- 1952, Preliminary report on exploration in the Spud Patch area, San Miguel County, Colorado: U.S. Geol. Survey TEM-303, 6 p., figures.
- 1953, Uranium in sandstone-type deposits, Colorado Plateau exploration, In Geologic Investigations of radioactive deposits - Semiannual progress report, classified data, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-391, p. 6-10.
- Hilpert, L. S., and Boardman, R. L., 1953, Search for and appraisal of uranium in sandstone-type deposits, Colorado Plateau exploration, In Search for and geology of radioactive deposits - Semiannual progress report, classified data, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-331, p. 7-15.
- Hilpert, L. S., and Fischer, R. P., 1949, Problems

- relating to ore recently discovered on Outlaw Mesa: U.S. Geol. Survey TEM-77, 6 p., tables, maps.
- Hirschl, H., 1923, Radioaktivitaet zweier Eruptivgesteine und ihre genetische Beziehung zur Pechblende von Central City, Colorado [Radioactivity of volcanic rocks and its genetic relationship to pitchblende at Central City, Colorado]: Schweizer Mineralog. u. Petrogr. Mitt., v. 3, nos. 3-4, p. 240-252.
- Holland, H. D., and others, 1958, The distribution of leachable uranium in surface samples in the vicinity of ore bodies: Econ. Geology, v. 53, p. 190-209.
- Holmes, C. N., 1949, Geology of the carnotite deposits of the Colorado Plateau: Am. Assoc. Petroleum Geologists, paper presented at Salt Lake regional meeting, March 1949, (unpubl.).
- 1950, Effect of the Uncompagre uplift on the Mesozoic sedimentary rocks of western Colorado [abs.]: Geol. Soc. America Bull., v. 61, no. 12, pt. 2, p. 1470.
- 1960, Jurassic history and stratigraphy of Colorado [abs.]: Dissert. Abs. Internat., v. 21, no. 4, p. 848-849.
- 1960, Jurassic history and stratigraphy of Colorado: Univ. Utah Ph.D. thesis.
- Holmes, R. U., and Harrer, C. M., 1952, Investigations of the Colorado Copper Co. properties, Mesa and Montrose Counties, Colorado: U.S. Bur. Mines Rept. Inv. 4869, 11 p., illus.
- Holmes, W. H., 1878, Report on the geology of the Sierra Abajo and west San Miguel Mountains, In 10th Annual Report, 1876: U.S. Geol. and Geog. Terr. Survey (Hayden) Ann. Rept. p. 187-195.
- Hoover, W. B., 1950, Jurassic formations of part of Utah, Colorado, Arizona, and New Mexico, In Guldebook of the San Juan basin, New Mexico and Colorado: New Mexico Geol. Soc. Guldebook First Field Conf., p. 76-81, illus.
- Horr, C. A., Myers, A. T., Dunton, P. J., and others, 1961, Uranium and other metals in crude oils: U.S. Geol. Survey Bull. 1100, 99 p.
- Hostetler, P. B., and Garrels, R. M., 1962, Transportation and precipitation of uranium and vanadium at low temperatures, with special reference to sandstone-type uranium deposits: Econ. Geology, v. 57, no. 2, p. 137-167.
- Houser, F. N., and Ekren, E. B., 1959, Preliminary geological map of the Moqui SW quadrangle, Montezuma County, Colorado [map]: U.S. Geol. Survey Mineral. Inv. Field Studies Map MF-216, scale 1:24,000 (see Ekren, E. B., and Houser, F. N., 1965, U.S. Geol. Survey Prof. Paper 481).
- 1959, Cretaceous strata of the Ute Mountains area of southwestern Colorado, In Symposium on Cretaceous rocks of Colorado and adjacent areas: Rocky Mtn. Assoc. Geol., 11th Field Conf. Guldebook, Denver, Colorado, p. 145-152, illus.
- Houston, R. S., and Murphy, J. F., 1970, Thorium- and titanium-bearing organic material in the Dakota Sandstone near Durango, Colorado, In Geological Survey research 1970: U.S. Geol. Survey Prof. Paper 700-C, p. C138-C144, illus. (Incl. sketch map).
- 1977, Depositional environment of upper Cretaceous black sandstones of the western interior, In Upper Cretaceous black sandstones of the western interior: U.S. Geol. Survey Prof. Paper 944-A, 29 p.
- Huerf, A. D., Henicksman, A. L., Ashley, W. H., and others, 1977, The fluorometric determination of uranium in natural waters: U.S. Energy Research Devel. Adm. GJBX-24(77).
- Huff, L. C., 1954, Sage Plain area, Utah, Colorado, quadrangle mapping, In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-490, p. 39-40.
- 1955, Sage Plain area, Utah, Colorado, In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 34-36, illus.
- Huff, L. C., and Lesure, F. G., 1956, Sage Plain area, Utah and Colorado, In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956: U.S. Geol. Survey TEI-640, p. 63-69, illus. (Incl. sketch map).
- 1956, Sage Plain, Utah and Colorado, In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 55-57.
- 1957, Sage Plain area, Colorado - Utah, In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, p. 76-84, illus.
- Huffman, Claude, Jr., and Riley, L. B., 1956, Determination of uranium in the ash of plants and its preclson: U.S. Geol. Survey TEI-654, 23 p.
- Huleatt, W. P., Hazen, S. W., Jr., and Traver, W. M., Jr., 1946, Exploration of vanadium region of western Colorado and eastern Utah: U.S. Bur. Mines Rept. Inv. No. 3930, 30 p., illus. maps.
- Hunt, C. B., 1956, Cenozoic geology of the Colorado Plateau: U.S. Geol. Survey Prof. Paper 279, 99 p.
- 1958, Structural and igneous geology of the La Sal Mountains, Utah: U.S. Geol. Survey

- Prof. Paper 294-1, p. 305-364.
- Hurley, D. B., and Crew, M. E., 1953, Some aspects of diamond drilling by the Atomic Energy Commission on the Colorado Plateau: U.S. Atomic Energy Comm. RME-56, 10 p.
- Hurley, P. M., and Fairbairn, H. W., 1957, Abundance and distribution of uranium and thorium in zircon, sphene, apatite, epidote, and monazite in granitic rocks: U.S. Geol. Survey TEL-636, 20 p., (see *Am. Geophys. Union Trans.*, v. 38, no. 6, p. 939-944).
- Hyden, H. J., 1956, Uranium and other trace elements in crude oils of the western United States, *In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 511-519.*
- International Atomic Energy Agency, 1970, Uranium exploration geology: Proceedings of Symposium, Vienna, April 1970, 384 p.
- 1974, Formation of uranium ore deposits: Proceedings of Symposium, Athens Greece, May 1974, 749 p.
- Irving, J. D., and Bancroft, H., 1911, Geology and ore deposits near Lake City, Colorado: U.S. Geol. Survey Bull. 478, 128 p.
- Isachsen, Y. W., 1955, Uranium deposits in the Skull Creek and Uranium Peak districts, northwestern Colorado, *In Guidebook to the geology of Northwest Colorado: Intermtn. Assoc. Petroleum Geologists, 6th Ann. Field Conf., Salt Lake City, Utah, p. 124-125.*
- 1956, Geology of uranium deposits of the Shinarump and Chinle Formations on the Colorado Plateau, *In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and U.S. Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 263-280.*
- 1956, Regional influence of tectonics on uranium occurrences in the Colorado Plateau area [abs.]: *Am. Assoc. Petroleum Geologists Bull.*, v. 40, no. 4, p. 793-794.
- 1956, Regional influence of tectonics on uranium occurrences in the Colorado Plateau area [abs.]: *Am. Assoc. Petroleum Geologists, Rocky Mtn. Sec., Geol Record*, p. 171-172.
- Isachsen, Y. W., and Evensen, C. G., 1956, Geology of uranium deposits of the Shinarump and Chinle formations on the Colorado Plateau, *In Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc.*, v. 6, p. 350-367, illus. (incl. geol. sketch maps).
- Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1954, An approach to exploration for uranium ores: U.S. Atomic Energy Comm. RME-64, 6 p.
- 1955, Age and sedimentary environments of uranium host rocks, Colorado Plateau: *Econ. Geology*, v. 50, no. 2, p. 127-134, illus.
- Ives, R. L., 1936, The radium-mining area of southwestern Colorado: *Rocks and Minerals*, v. 11, no. 10, p. 223-224.
- Izett, G. A., and Hoover, D. L., 1963, Preliminary geologic map of the Hot Sulphur Springs SE quadrangle, Grand County, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-27, scale 1:24,000.
- Izett, G. A., Danson, N. M., and Obradovich, J. D., 1970, K-Ar age of the lower part of the Browns Park Formation, northwestern Colorado, *In Geological Survey research 1970: U.S. Geol. Survey Prof. Paper 700-C, p. C150.*
- Javernick, B. L., 1975, Mining activity in district 2, *In Colorado Mining Assoc. Mining Yearbook: p. 24.*
- Jenkins, E. D., 1961, Records and logs of selected wells and test holes, and chemical and radiometric analysis of ground water in the Boulder area, Colorado: Colorado Water Conserv. Board Ground-Water Ser. Basic Data Rept. 5, 30 p., illus., tables.
- Jensen, F. S., 1957, Uranium in the Tallahassee Creek district, Fremont County, Colorado: Colorado Mining Assoc. Natl. Western Mining Conf., 60th, Denver, 1957, *Trans.*, v. 1, p. 152-154.
- Jensen, M. L., 1957, Significance of S32/S34 ratios on the origin of sulfides in uranium deposits of the Colorado Plateau [abs.]: *Geol. Soc. America Bull.*, v. 68, no. 12, pt. 2, p. 1752-1753.
- 1958, Sulfur isotopes and the origin of sandstone-type uranium deposits [Colorado Plateau, Wyoming]: *Econ. Geology*, v. 53, no. 5, p. 598-616, illus.
- 1971, Carbon, oxygen and sulfur isotopes and the origin of sandstone-type uranium deposits, final report: U.S. Atomic Energy Comm. COO-2024-1, 121 p.
- Jobin, D. A., 1952, Preliminary reserve statement 24, Reserve Block A, Dolores Bench, Montrose County, Colorado: U.S. Geol. Survey TEM-262, 5 p., tables, figures.
- 1952, Preliminary reserve statement 25, Reserve Block B, Dolores Bench, Montrose County, Colorado: U.S. Geol. Survey TEM-263, 10 p., figures.
- 1952, Preliminary reserve statement 26, Reserve Block C, Dolores Bench, Montrose County, Colorado: U.S. Geol. Survey TEM-264, 6 p., figures.

- 1953, Preliminary report on exploration of the Dolores Bench, Montrose County, Colorado: U.S. Geol. Survey TEM-461, 5 p., figures.
- 1953, Ground-water studies [Colorado Plateau], In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 35-36.
- 1953, Ground-water studies [Colorado Plateau], In Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 51-52.
- 1954, Ground-water studies [Colorado Plateau], In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-490, p. 48.
- 1954, Ground-water studies [Colorado Plateau], In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-440, p. 35-36.
- 1955, Ground-water studies, In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 90-97, (incl. sketch map).
- 1955, Ground-water studies, In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEI-540, p. 65-72, (sketch maps).
- 1956, Regional transmissivity of the exposed sediments of the Colorado Plateau as related to the distribution of uranium deposits, In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and U.S. Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 207-211.
- 1956, Regional transmissivity of the exposed sediments of the Colorado Plateau as related to distribution of uranium deposits, In Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc., v. 6, p. 317-320, illus.
- 1962, Relation of the transmissive character of the sedimentary rocks of the Colorado Plateau to the distribution of uranium deposits: U.S. Geol. Survey Bull. 1124, 151 p.
- Jobin, D. A., and Schessler, T. E., 1953, Interim report on exploration in the Atkinson Mesa area, Montrose County, Colorado: U.S. Geol. Survey TEM-481, 8 p., figures.
- Joesting, H. R., 1950, Recommendation for geophysical investigation in the Colorado Plateau: U.S. Geol. Survey TEM-100.
- 1953, Regional studies [Colorado Plateau], In Geologic Investigation of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 55-61, (sketch map).
- 1954, Regional geophysical studies, In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-490, p. 85-92, (sketch map).
- 1957, Regional geophysical studies [Colorado Plateau], In Geologic Investigation of radioactive deposits - Semiannual progress report, Dec. 1, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, p. 442-445.
- Joesting, H. R., and Byerly, P. E., 1953, Progress in regional geophysical studies of the Colorado Plateau: U.S. Geol. Survey TEM-289, 18 p.
- 1954, Regional geophysical studies, In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-440, p. 47-54, (sketch map).
- 1956, Regional geophysical investigations in the Uravan area, Colorado: U.S. Geol. Survey TEI-399, (see U.S. Geol. Survey Prof. Paper 316-A).
- 1956, Aeromagnetic and gravity profiles across the Uravan area, Colorado, In Geology and economic deposits of east-central Utah: Internat. Assoc. Petroleum Geologists, 7th Ann. Field Conf. Guidebook, p. 38-41.
- 1958, Regional geophysical investigations of the Uravan area, Colorado: U.S. Geol. Survey Prof. Paper 316-A, p. 1-17, (Plate 2 is an aeromagnetic map, scale 1:125,000).
- Joesting, H. R., and Case, J. E., 1959, Regional geophysical studies, Colorado Plateau, In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1958, to May 31, 1959: U.S. Geol. Survey TEI-751, p. 73-80.
- 1960, Salt anticlines and deep seated structures in the Paradox basin, Colorado and Utah, In Short papers in the geological sciences, Geological Survey research 1960: U.S. Geol. Survey Prof. Paper 400-B, p. B252-B256, (sketch maps).
- 1962, Regional geophysical studies in Salt Valley-Clisco area, Utah and Colorado: Am. Assoc. Petroleum Geologists Bull., v. 46, no. 10, p. 1879-1889, (figure 3, p. 1884, shows aeromagnetic map of the Salt Valley-Clisco area).
- Joesting, H. R., Byerly, P. E., and Plouff, D. F., 1955, Geophysical investigations, regional studies [Colorado Plateau], In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 138-141, (sketch map).

- 1955, Geophysical investigations, regional studies [Colorado Plateau], in *Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955*: U.S. Geol. Survey TEI-540, p. 93-96.
- 1956, Regional geophysical studies [Colorado Plateau], in *Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956*: U.S. Geol. Survey TEI-640, p. 228-233, (sketch map).
- 1956, Regional geophysical studies [Colorado Plateau], in *Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956*: U.S. Geol. Survey TEI-620, p. 147-150.
- 1957, Regional geophysical studies, in *Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1957*: U.S. Geol. Survey TEI-700, p. 177-184.
- 1958, Regional geophysical studies, in *Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1958*: U.S. Geol. Survey TEI-750, p. 71-78, (sketch map).
- 1959, Regional geophysical studies of the Colorado Plateau, in *Geologic investigation of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1959*: U.S. Geol. Survey TEI-752, p. 33-42.
- Joesting, H. R., Case, J. E., and Plouff, D. F., 1966, Regional geophysical investigations of the Moab-Needles area, Utah: U.S. Geol. Survey Prof. Paper 516-C, 21 p., (Pls. 2 and 3 are aeromagnetic maps at scale 1:125,000, coverage extends into Colorado).
- Johnson, H. S., Jr., 1954, Reconnaissance resource appraisal [Colorado Plateau], in *Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1953, to May 31, 1954*: U.S. Geol. Survey TEI-440, p. 39-40.
- Johnson, R. W., Jr., 1955, Airborne radioactivity survey of part of Moffat County, Colorado, south of 40° 45' [Sunny Peak SW and SE quadrangles] [map]: U.S. Geol. Survey Geophys. Inv. Map GP-126, scale 1:62,500.
- 1955, Airborne radioactivity survey of part of Moffat County, Colorado, north of 40° 45' [Sunny Peak NW and NE quadrangles] [map]: U.S. Geol. Survey Geophys. Inv. Map GP-125, scale 1:62,500.
- Jones, H. N., 1956, Selected annotated bibliography of uraniumiferous and radioactive native bituminous substances, exclusive of coals, in the United States: U.S. Geol. Survey TEI-536, 50 p., (see U.S. Geol. Survey Bull. 1059-D, p. 177-203).
- Joubin, F. R., 1955, Widespread occurrence and character of uraninite in the Triassic and Jurassic sediments of the Colorado Plateau - a discussion: *Econ. Geology*, v. 50, no. 2, p. 233-234.
- Kahn, J. S., Groff, D. W., and Griffiths, J. C., 1953, Petrographical investigations of the Salt Wash sediments - Progress report, Dec. 1, 1952, to March 1, 1953: U.S. Atomic Energy Comm. RME-3047, 55 p., illus.
- Kaiser, E. P., and Page, L. R., 1951, Distribution of uranium deposits in the United States [abs.]: *Geol. Soc. America Bull.*, v. 62, no. 12, pt. 2, p. 1537, (see U.S. Geol. Survey TEI-168).
- 1952, Distribution of uranium deposits in the United States, in *Selected papers on uranium deposits in the United States*: U.S. Geol. Survey Circ. 220, p. 1-7, (maps) [1953].
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952, Selected papers on uranium deposits in the United States: U.S. Geol. Survey Circ. 220, 35 p., maps [1953] (see U.S. Geol. Survey TEI-168).
- 1952, Selected papers on uranium deposits of the United States: U.S. Geol. Survey TEI-168, 56 p., (see U.S. Geol. Survey Circ. 220, *Geol. Soc. America Bull.*, v. 62, no. 12, pt. 2, p. 1512, 1537, 1543, 1544).
- Kammer, G. D., 1925, Uranium and thorium in Colorado carnotite. The absorption of ionium and thorium by barium sulfate: Univ. of Pittsburgh Ph.D. thesis.
- Kashirtseva, M. F., 1968, Effects of material composition of rocks on formation of epigenetic uranium concentrations: *Internat. Geology Review*, v. 11, no. 5.
- Keeney, R. M., 1919, Colorado uranium in 1918, Chap. 27 in *The mineral industry, its statistics, technology, and trade*: New York McGraw-Hill Book Co., p. 737-739.
- Keevil, N. B., 1941, Radioactive aureoles around some ore deposits [abs.]: *Econ. Geology*, v. 36, no. 8, p. 844.
- 1941, Radioactive aureoles around some ore deposits [abs.]: *Geol. Soc. America Bull.*, v. 52, no. 12, pt. 2, p. 1912-1913.
- 1942, Radioactive aureoles around some ore deposits [abs.]: *Am. Mineralogist*, v. 27, no. 3, p. 225.
- Kehn, T. M., 1955, Selected annotated bibliography of the geology of uranium-bearing coal and carbonaceous shale in the United States: U.S. Geol. Survey TEI-533, (see U.S. Geol. Survey Bull. 1059-A, p. 1-28).
- 1957, Selected annotated bibliography of the geology of uranium-bearing coal and carbonaceous shale in the United States: U.S. Geol. Survey Bull. 1059-A, p. 1-28.
- Keith, S. B., 1945, Lightner Creek district,

- San Juan basin area, Colorado: U.S. Atomic Energy Comm. RMO-453 21 p., (for abstract see NSA 32:00704).
- Keller, G., 1973, Natural occurrence of lanthanides, actinides, and superheavy elements: *Chemikerzeitung*, v. 97, no. 10, p. 522-530.
- Keller, G. V., 1953, Progress report on petrophysical studies of the Morrison Formation: U.S. Geol. Survey TEM-608, 10 p.
- 1957, Electrical properties of sandstones of the Morrison Formation: U.S. Geol. Survey TEI-592, 64 p., (see U.S. Geol. Survey Bull. 1052-J).
- 1958, Directional resistivity measurements in exploration for uranium deposits on the Colorado Plateau: U.S. Geol. Survey TEI-594, 55 p., (see U.S. Geol. Survey Bull. 1083-B).
- 1959, Electrical properties of sandstones of the Morrison Formation: U.S. Geol. Survey Bull. 1052-J, p. 307-344.
- 1959, Directional resistivity measurements in exploration for uranium deposits in the Colorado Plateau; Colorado-Utah: U.S. Geol. Survey Bull. 1083-B, p. 37-72, illus.
- Keller, G. V., and Licastro, P. H., 1959, Dielectric constant and electrical resistivity of natural-state cores: U.S. Geol. Survey Bull. 1052-H, p. 257-285.
- Keller, W. D., 1953, Clay minerals in the mudstones of the ore-bearing formations, in Garrels, R. M., and Larsen, E. S., compilers, *Geochemistry and mineralogy of the Colorado Plateau uranium ores*: U.S. Geol. Survey Prof. Paper 320, p. 113-119, illus.
- 1953, Clay minerals in the type section of the Morrison Formation: *Jour. Sed. Petrology*, v. 23, no. 2, p. 93-105.
- 1954, Preliminary study of the clay minerals in some red and green mudstones from the Colorado Plateau: U.S. Geol. Survey TEM-786, 16 p.
- 1955, Clay minerals in the mudstones of the ore-bearing formations of the Colorado Plateau: U.S. Geol. Survey TEI-515, 22 p., (see U.S. Geol. Survey Prof. Paper 320, p. 113-119).
- 1956, Studies of clays in Jurassic rocks [Colorado Plateau], in *Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956*: U.S. Geol. Survey TEI-640, p. 260-263.
- 1956, Studies of clays in Jurassic rocks [Colorado Plateau], in *Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956*: U.S. Geol. Survey TEI-620, p. 121-123.
- 1957, Glauconitic mica in the Morrison formation in Colorado: U.S. Geol. Survey TEM-999.
- 1957, Studies of clays in Jurassic rocks [Colorado Plateau], in *Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1956, to May 31, 1957*: U.S. Geol. Survey TEI-690, p. 504-505.
- 1962, Clay minerals in the Morrison formation of the Colorado Plateau: U.S. Geol. Survey Bull. 1150, 90 p.
- Keller, W. D., and Schultz, L. G., 1955, Clay mineralogy [Colorado Plateau], in *Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955*: U.S. Geol. Survey TEI-540, p. 75.
- Kelley, V. C., 1955, Regional tectonics of the Colorado Plateau and relationship to uranium distribution and origin: U.S. Atomic Energy Comm. RME-78, (see New Mexico Univ. Pubs. Geology, no. .
- 1955, Regional tectonics of the Colorado Plateau and relationship to the origin and distribution of uranium: New Mexico Univ. Pubs. Geology, no. 5, 120 p., illus.
- 1956, Influence of regional structure and tectonic history upon the origin and distribution of uranium on the Colorado Plateau, in *Contributions of the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955*: U.S. Geol. Survey Prof. Paper 300, p. 171-178.
- 1956, Influence of regional structure and tectonic history upon the origin and distribution of uranium on the Colorado Plateau, in *Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc.*, v. 6, p. 299-306, illus.
- 1959, Structure and fracture systems of the Colorado Plateau [abs.]: *Washington Acad. Sci. Jour.*, v. 49, no. 3, p. 94.
- 1959, Jointing on the Colorado Plateau [abs.]: *Geol. Soc. America Bull.*, v. 70, no. 12, pt. 2, p. 1629-1630.
- Kelley, V. C., and Clinton, N. J., 1960, Fracture systems and tectonic elements of the Colorado Plateau: New Mexico Univ. Pubs. Geology, no. 6, 104 p., (plus maps).
- Kellogg, J. P., 1952, Exploration drilling techniques on the Colorado Plateau: U.S. Atomic Energy Comm. RME-2, 25 p., illus.
- 1954, A statistical analysis of contract drilling on the Colorado Plateau: U.S. Atomic Energy Comm. RME-4058, 18 p., (see Eng. and Mining Jour., v. 156, no. 2, p. 119-122).
- 1955, Exploration [Colorado Plateau]: *Eng. and Mining Jour.*, v. 156, no. 2, p. 119-122.
- Kelly, F. N., 1962, Technological economic problems

- of rare-earth and thorium resources in Colorado, New Mexico and Wyoming: U.S. Bur. Mines Inf. Circ. 8124, 38 p.
- Kelly, S. F., 1941, Geological studies of vanadium-uranium deposits by geophysical exploration methods: Mining Cong. Jour., v. 27, no. 8, p. 27-35, illus. (Incl. maps).
- 1953, Geological studies of uranium-vanadium deposits by geophysical exploration methods: Precambrian, v. 26, no. 6, p. 21-29.
- Kerr, G. D., Abdullah, S. A., Auxier, J. A., and others, 1974, Measurements of radon daughter concentrations in air: Oak Ridge National Lab. ORNL-4979, (survey of buildings in Grand Junction, Colorado).
- Kerr, P. F., 1936, Research on the natural occurrence of uranium and related studies - final report: Tech. Inf. Service CU-1936-87, New York, Columbia Univ., 28 p.
- 1950, Mineralogical studies of uraninite and uraninite-bearing deposits, July 1, 1949 - June 30, 1950: U.S. Atomic Energy Comm. RMO-715, 56 p.,
- 1956, Rock alteration criteria in the search for uranium, in Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on the Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 633-639.
- 1956, The natural occurrence of uranium and thorium, in Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy Geneva, 1955, Proc., v. 6, p. 5-59.
- 1956, Rock alteration criteria in the search for uranium, in Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy Geneva, 1955, Proc., v. 6, p. 679-684.
- 1958, Uranium emplacement in the Colorado Plateau: Geol. Soc. America Bull., v. 69, no. 9, p. 1075-1111.
- 1958, Criteria of hydrothermal emplacement in Plateau uranium strata [Colorado Plateau], in Survey of raw material resources: U. N. Int. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1958 Proc., v. 2, p. 330-334, illus.
- Kerr, P. F., and Jacobs, M. B., 1964, Argillic alteration and uranium emplacement on the Colorado Plateau, in Clays and clay minerals: New York, Macmillan Co., p. 111-128, illus.
- Kerr, P. F., Anderson, T. P., and Hamilton, Peggy-Kay, 1951, Bellevue-Rochester mine, in Annual report for July 1, 1950, to June 30, 1951: U.S. Atomic Energy Comm. RMO-797, p. 44-57.
- Kerr, P. F., Rasor, C. A., and Hamilton, Peggy-Kay, 1951, Uranium in Black King prospect, Placerville, Colorado, in Annual report for July 1, 1950, to June 30, 1951: U.S. Atomic Energy Comm. RMO-797, p. 24-43, illus.
- Kholodov, V. N., Lisitsin, A. K., Komarova, G. V., and others, 1961, Epigene zoning of uranium mineralization in petroliferous carbonate rocks [English translation, 1961]: Akad. Nauk SSSR Izv. Ser. Geol., no. 11, p. 43-56.
- Kidman, R. B., 1975, 1974 Rocky Mountain energy flow patterns: Los Alamos Scientific Lab. Report NTIS # LA-6107-MS.
- Kim, Y. C., and Knudsen, H. P., 1977, Geostatistical ore reserve estimation for a roll front type uranium deposit (practitioners guide): U.S. Energy Research Devel. Adm. GJBX-3(77).
- Kimball, Gordon, 1904, Discovery of carnotite: Eng. and Mining Jour., v. 77, no. 24, p. 956.
- King, R. U., 1950, Vein deposits of uranium at the Caribou mine, Boulder County, Colorado: U.S. Geol. Survey TEM-13, 23 p., maps, tables.
- 1950, A radiometric traverse at the Apex claims (Bates Creek), Gilpin County, Colorado: U.S. Geol. Survey TEM-22, 4 p.
- 1950, Investigations in the Wood mine, Colorado: U.S. Geol. Survey TEM-102, 3 p.
- 1951, Reconnaissance investigations for uranium in the Colorado Front Range, 1947-1951: U.S. Geol. Survey TEI-59, 260 p., (see U.S. Geol. Survey Circ. 215; U.S. Geol. Survey Prof. Paper 300; U.S. Geol. Survey Bull. 1159).
- 1951, Radioactivity in the Jo Reynolds mine, Clear Creek County, Colorado: U.S. Geol. Survey TEM-5, 11 p., tables, maps.
- 1951, Investigations in the Wood mine, Colorado: U.S. Geol. Survey TEM-102-A, 1 p.
- 1952, Vein deposits of uranium at the Caribou mine, Boulder County, Colorado: U.S. Geol. Survey TEM-13A 18 p., geol. map.
- 1952, Vein deposits of uranium at the Caribou mine [abs.]: Nuclear Sci., v. 6, no. 1, p. 28.
- 1953, Reconnaissance for uranium in the United States; Colorado - Wyoming district, in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 205-209, (sketch map).
- 1954, Reconnaissance for uranium in the United States, Colorado district, in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-440, p. 173-175.
- King, R. U., and Beroni, E. P., 1953, Regional reconnaissance for uranium and thorium in

- the United States; Colorado - Wyoming district, In Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 208-213, (sketch maps).
- King, R. U., and Granger, H. C., 1952, Torbernite occurrence at the Robineau Claims, Clear Creek County, Colorado: U.S. Geol. Survey TEM-24A, 7 p., (geol. sketch map).
- King, R. U., and Moore, F. B., 1951, Pitchblende deposits in the United States [abs.]: Geol. Soc. America Bull., v. 62, no. 12, pt. 2, p. 1537.
- King, R. U., and Theobald, P. K., Jr., 1955, Colorado, In Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEI-540, p. 208-209.
- 1955, Blackhawk district, Gilpin County, In Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEI-540, p. 141-142.
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1952, Uranium in the metal-mining districts of Colorado: U.S. Geol. Survey TEI-173, (see U.S. Geol. Survey Circ. 215; Geol. Soc. America Bull., v. 63, no. 12, pt. 2, p. 1335).
- 1953, Uranium in the metal-mining districts of Colorado: U.S. Geol. Survey Circ. 215, 10 p., (see U.S. Geol. Survey TEI-173).
- King, R. U., Moore, F. B., and Leonard, B. F., 1952, Uranium in metal-mining districts of Colorado [abs.]: Geol. Soc. America Bull., v. 63, no. 12, pt. 2, p. 1335, (see U.S. Geol. Survey TEI-173).
- 1952, Pitchblende deposits in the United States, In Selected papers on uranium deposits in The United States: U.S. Geol. Survey Circ. 220, p. 8-12.
- Kirkemo, Harold, 1954, Uranium in sandstone-type deposits, Colorado Plateau exploration, In Geologic investigations of radioactive deposits - Semiannual progress report, classified data, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-441, p. 7-11.
- 1954, Uranium in sandstone deposits, Colorado Plateau exploration, In Geologic investigations of radioactive deposits - Semiannual progress report, classified data, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-491, p. 6-9.
- Kirkpatrick, R. K., 1944, Report on the Calamity Mesa--Uncompahgre Uplift area: U.S. Atomic Energy Comm. RMO-476 13 p., (for abstract see NSA 32:03462).
- 1944, Field survey of Monticello (Dry Valley) district, Green River Desert area, Utah, Colorado: U.S. Atomic Energy Comm. RMO-470 21 p., illus. (for abstract see NSA 32:03461).
- 1945, Report on Slick Rock district, Dolores Plateau area, Colorado (with maps): U.S. Atomic Energy Comm. RMO-463, 62 p., (for abstract see NSA 32:03459).
- 1946, Report on Gypsum Valley district, Dolores Plateau area, Colorado: U.S. Atomic Energy Comm. RMO-443 58 p., (for abstract see NSA 31:33013).
- Kithil, K. L., and Davis, J. A., 1917, Mining and concentration of carnotite ores: U.S. Bur. Mines Bull. 103, 89 p.
- Klaer, P., and Matthee, H., 1965, Uranerzbergbau in den Vereinigten Staaten--Vier Grubenfahrten im Big Indian District des Colorado-Utah-Gebietes [Uranium mining in the United States; four pits in Big Indian district, Colorado-Utah]: Zeltschr. Erzbergbau u. Metallhüttenwesen, v. 18, no. 6, p. 278-284, illus., tables.
- Kleinhampl, F. J., and Koteff, Carl, 1955, Botanical studies, prospecting [Colorado Plateau], In Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 119-122, (sketch map).
- 1956, Botanical studies, prospecting [Colorado Plateau], In Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 115-117.
- Kleinhampl, F. J., and Narten, P. F., 1954, Botanical prospecting [Colorado Plateau], In Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-490, p. 50-54, sketch map.
- 1955, Botanical prospecting [Colorado Plateau], In Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEI-540, p. 73-74.
- Klepper, M. R., and Wyant, D. G., 1955, Geology of uranium [abs.]: Econ. Geology, v. 50, no. 7, p. 784, (see U.S. Geol. Survey TEI-529).
- 1955, Geology of uranium [abs.]: Geol. Soc. America Bull., v. 66, no. 12, pt. 2, p. 1585-1586, (see U.S. Geol. Survey TEI-529).
- 1956, Uranium provinces, In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 17-25.
- 1956, Uranium provinces, In Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc., v. 6, p. 217-223.

- 1956, Notes on the geology of uranium: U.S. Geol. Survey TEI-529, 72 p., (see U.S. Geol. Survey Bull. 1046-F Geo. Soc. America Bull., v. 66, no. 12, pt. 2, p. 1585-1586; Econ. Geology v. 50, no. 7, p. 784; [abs.]).
- 1957, Notes on the geology of uranium: U.S. Geol. Survey Bull. 1046-F, p. 87-148, (see U.S. Geol. Survey TEI-529).
- Kline, M. A., Jr., 1954, Examination, development and financing of uranium-vanadium deposit at Gateway, Colorado: *Compass*, v. 32, no. 1, p. 25-36, illus. (incl. geol. sketch map).
- Knepper, D. H., ed., 1973, Geologic and mineral and water resources investigations in western Colorado using ERTS-1 data: Colorado School Mines Progress Rept. 9, (Goddard Space Flight Center E74-10330).
- Knepper, D. H., Lee, Keenan, Butler, R. W., and others, 1974, Applicability of remote sensor data to geologic analysis of the Bonanza test site, In Semi-annual progress report 1 October 1973 - 31 March 1974: NASA CR-138231, Golden, Colorado, Colorado School Mines, 30 p., (NASA CR-138231).
- Knox, M. S., 1947, A study of radioactivity with respect to alteration and ore location at Santa Rita, New Mexico and Gilman, Colorado: Columbia Univ. M.S. thesis.
- Knox-Bergman-Shearer Corp., 1970, Areal geologic and structural interpretation map of Front Range, Colorado: U.S. Atomic Energy Comm. Prelim. Map No. 14.
- Kober, C. L., and Procter-Gregg, H. D., 1977, Discrimination of uranium alteration zones on selected areas by use of LANDSAT MSS imagery: U.S. Energy Research and Devel. Adm. GJBX-4(77).
- Koerberlin, F. R., 1938, Discussion of "Sedimentary copper, vanadium-uranium and silver in southwestern United States" by R. P. Fischer: *Econ. Geology*, v. 33, p. 458-461, (discussion of paper by R. P. Fischer, 1937, in same journal v. 32, p. 906-951).
- Kruslewski, S. V., 1970, Selected bibliography on radioactive occurrences in the United States: U.S. Atomic Energy Comm. RME-4110 136 p.
- Kuehnel, F. W., 1956, Report on the Piney Drilling Project, Eagle County, Colorado: U.S. Atomic Energy Comm. RME-1071 26 p.
- Kunkle, G., 1923, Vanadium ore being opened in Garfield County, Colorado: *Eng. and Mining Jour.*, v. 115, p. 552.
- La Point, D. J., and Markos, G., 1977, Geochemical interpretation of ore zonation at the Rifle vanadium mine, Colorado, In Short papers of the U.S. Geol. Survey uranium-thorium symposium 1977: U.S. Geol. Survey Circ. 753, p. 53-55.
- Lahr, M., 1974, Map of Schwartzwalder Mine area, Ralston Buttes quadrangle, Jefferson County, Colorado: Lakewood, Colorado, Cotter Corp., unpubl. company map.
- Landis, E. R., 1954, Black shale; western Kansas and eastern Colorado: U.S. Geol. Survey TEI-490, p. 158-159, sketch map.
- 1955, Radioactivity and uranium content of the Sharon Springs member of the Pierre Shale and associated rocks in western Kansas and eastern Colorado: U.S. Geol. Survey TEI-573, (see U.S. Geol. Survey Bull. 1046-L).
- 1956, Uranium content of ground and surface waters of western Kansas, eastern Colorado and the Oklahoma Panhandle: U.S. Geol. Survey TEI-624, (see U.S. Geol. Survey Bull. 1087-G).
- 1957, Uranium content of ground and surface waters in western Kansas, eastern Colorado, northeastern New Mexico, and the Oklahoma Panhandle: U.S. Geol. Survey TEI-690, book 2, p. 539-542.
- 1959, Radioactivity and uranium content, Sharon Springs Member of the Pierre Shale, Kansas and Colorado: U.S. Geol. Survey Bull. 1046-L, p. 299-319.
- 1960, Uranium content of ground and surface waters in a part of the central Great Plains: U.S. Geol. Survey Bull. 1087-G, p. 223-258.
- Landsberg, H. H., Fischman, L. I., and Fisher, J. L., 1963, Resources in America's future; patterns of requirements and availabilities 1960-2000: Baltimore, Maryland, Johns Hopkins Press, 1017 p.
- Lang, E. A., and Williams, R. A., 1975, Innovative systems for the recovery of uranium, In Colorado Mining Assoc. Mining Yearbook: Colorado Mining Assoc., p. 114.
- Langan, L. V., and Ash, H. O., 1955, Colorado Plateau and uranium field trip: *Compass*, v. 33, no. 1, p. 31-39, illus.
- Langenheim, R. L., Jr., 1952, Pennsylvanian and Permian stratigraphy in Crested Butte quadrangle, Gunnison County, Colorado: *Am. Assoc. Petroleum Geologists Bull.*, v. 36, no. 4, p. 543-574.
- Langford, F. F., 1974, A supergene origin for vein-type uranium ores in the light of the western Australian calcrete-carnotite deposits: *Econ. Geology*, v. 69, no. 4, p. 516-526.
- 1977, Surficial origin of North American pitchblende and related uranium deposits: *Am. Assoc. Petroleum Geologists Bull.*, v. 61, no. 1, p. 28-42.
- Larsen, E. S., 1942, Alkaline rocks of Iron Hill, Gunnison County, Colorado: U.S. Geol. Survey Prof. Paper 197-A, p. 1-64.
- Larsen, E. S., 3d, 1957, Distribution of uranium

- In Igneous complexes, in Geologic Investigations of radioactive deposits - Semiannual progress report for June 1 to Nov. 30, 1957: U.S. Geol. Survey TEI-700, p. 249-253.
- Larsen, E. S., and Berman, Harry, 1926, The identity of gilpinite and johannite: *Am. Mineralogist*, v. 11, no. 1, p. 1-5, illus.
- Larsen, E. S., and Brown, G. V., 1917, Gilpinite, a new uranium mineral from Colorado: *Am. Mineralogist*, v. 2, p. 75-79.
- Larsen, E. S., and Cross, C. W., 1956, Geology and petrology of the San Juan region, southwestern Colorado: U.S. Geol. Survey Prof. Paper 258, 303 p.
- Larsen, E. S., and Phair, George, 1954, The distribution of uranium and thorium in igneous rocks, in *Nuclear geology - A symposium on nuclear phenomena in the earth sciences*: New York John Wiley & Sons, Inc., p. 75-89.
- Larsen, E. S., Gottfried, David, and Molloy, Marjorie, 1958, Distribution of uranium in the volcanic rocks of the San Juan Mountains, southwestern Colorado, in *Survey of raw material resources*: U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, 2d, Geneva, 1957, Proc., v. 2, p. 509-514, illus.
- Larsen, E. S., Jr., and Gottfried, David, 1961, Distribution of uranium in rocks and minerals of Mesozoic batholiths in western United States: U.S. Geol. Survey Bull. 1070-C, p. 63-103.
- Laverty, R. A., and Gross, E. B., 1956, Paragenetic studies of uranium deposits of the Colorado Plateau, in *Geology of uranium and thorium*: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy Geneva, 1955, Proc., v. 6, p. 533-539, illus.
- 1956, Paragenetic studies of uranium deposits of the Colorado Plateau, in *Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy*, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 195-201.
- Leaming, G. F., 1971, Minerals in the economic development of the Four Corners region: U.S. Atomic Energy Comm. COM-73-10349, 57 p.
- Lee, H. A., 1901, Uranium in Colorado: *Eng. and Mining Jour.*, v. 71, p. 564.
- 1901, *Mining in Colorado: Mines and Minerals*, v. 21, p. 415-416.
- Lee, Keenan, 1975, Application of remote sensor data to geologic analysis of the Bonanza test site, Colorado. Semi-annual progress report, 1 October 1974 - 31 March 1975: NASA Rept. NASA-CR-143082, RSR-75-2, 20 p.
- Leonard, B. F., 3d, 1952, Relation of pitchblende deposits to hypogene zoning in the Front Range mineral belt, Colorado [abs.]: *Econ. Geology*, v. 47, no. 7, p. 773.
- 1952, Relation of pitchblende deposits to hypogene zoning in the Front Range mineral belt, Colorado [abs.]: *Geol. Soc. America Bull.*, v. 63, no. 12, pt. 2, p. 1274-1275, (see *Econ. Geology*, v. 47, p. 773).
- 1952, Preliminary summary on zonal relations of uranium deposits in metalliferous districts: U.S. Geol. Survey TEM-521, 10 p.
- 1953, Relation of pitchblende deposits to hypogene zoning in the Front Range mineral belt, Colorado [abs.]: *Am. Mineralogist*, v. 38, nos. 3-4, p. 348-349.
- 1953, Zonal relations of uranium deposits in metalliferous districts, Colorado: U.S. Geol. Survey TEI-270, pt. 1, p. 19-21.
- LeRoy, L. W., 1969, Precambrian stratigraphy northwest of Golden, Jefferson and Gilpin Counties, Colorado - a summary: Colorado School Mines, Unpubl. notes for students and faculty.
- Lester, O. C., 1918, The radioactive properties of the mineral springs of Colorado: *Am. Jour. Sci. ser. 4*, v. 46, p. 621.
- Lickus, R. J., and LeRoy, L. W., 1968, Precambrian structure and stratigraphy along the mountain front west of Golden, Jefferson County, Colorado - a reconnaissance study: *Colorado School Mines Quart.*, v. 63, no. 1, p. 129-165.
- Lindberg, M., Weeks, A. D., Thompson, M E., and others, 1962, Hendersonite, a new calcium vanadyl vanadate from Colorado and New Mexico: *Am. Mineralogist*, v. 47, nos. 11-12, p. 1252-1272, illus., tables.
- Lindgren, Waldemar, 1933, Ores of copper, lead, vanadium, and uranium in sandstone and shale, in *Mineral deposits* [4th ed.]: New York, McGraw-Hill Book Co., p. 403-415.
- Lipman, P. W., Bunker, C. M., and Bush, C. A., 1973, Potassium, thorium, and uranium contents of upper Cenozoic basalts of the southern Rocky Mountain region, and their relation to the Rio Grande depression: U.S. Geol. Survey Jour. Research, v. 1, no. 4, p. 387-401, illus. (incl. sketch map).
- Litsey, L. R., 1955, Preliminary reserve statement 48, reserve blocks K and L, Long Park area, Montrose County, Colorado: U.S. Geol. Survey TEM-887, 15 p.
- Livingston, C. W., 1945, Report on West Paradox district, Dolores Plateau area, Colorado-Utah: U.S. Atomic Energy Comm. RMO-456 47 p., (for abstract see NSA 32:00707).
- Lockner, A. O., 1960, A proposal for the taxation

- of molybdenum, uranium, and vanadium mining in Colorado: Univ. Colorado Ph.D. thesis, 372 p.
- 1960, A proposal for the taxation of molybdenum, uranium, and vanadium mining in Colorado [abs.]: Dissert. Abs. Internat., v. 21, no. 10, p. 2938.
- Look, Al, 1955, 1,000 million years on the Colorado Plateau, land of uranium: Denver, Colorado, Bell Publishing Co., 344 p., illus.
- Love, J. D., 1964, Uraniferous phosphatic lake beds of Eocene age in Intermontane basins of Wyoming and Utah: U.S. Geol. Survey Prof. Paper 474-E, 66 p., illus., tables.
- Lovering, T. G., 1954, Progress in radioactive iron oxides investigations: U.S. Geol. Survey TEI-276, (see Econ. Geology, v. 50, no. 2, p. 186-195).
- 1955, Progress in radioactive iron oxides investigations: Econ. Geology, v. 50, no. 2, p. 186-195, (see U.S. Geol. Survey TEI-276).
- Lovering, T. G., and Beroni, E. P., 1956, Preliminary study of radioactive ilmonite localities in Colorado, Utah and Wyoming: U.S. Geol. Survey TEI-427, (see U.S. Geol. Survey Bull. 1046-N).
- 1959, Preliminary study of radioactive ilmonite in Colorado, Utah, and Wyoming: U.S. Geol. Survey Bull. 1046-N, p. 339-384.
- Lovering, T. S., 1934, Geology and ore deposits of the Breckenridge mining district, Colorado: U.S. Geol. Survey Prof. Paper 176, 64 p.
- 1942, The mineral belt of the Colorado Front Range, in Newhouse, W. H., ed., Ore deposits as related to structural features: Princeton, N. J., Princeton Univ. Press, p. 79-93, (prepared under the direction of the committee on processes of ore deposition of the Div. of Geol. and Geography of the Nat. Research Council).
- Lovering, T. S., and Goddard, E. N., 1938, Laramide igneous sequence and differentiation in the Front Range, Colorado: Geol. Soc. America Bull., v. 49, p. 35-68.
- 1950, Geology and ore deposits of the Front Range, Colorado: U.S. Geol. Survey Prof. Paper 223, 319 p., illus. (incl. geol. map).
- Lovering, T. S., Lakin, H. W., Ward, F. N., and others, 1956, The use of geochemical techniques and methods in prospecting for uranium, in Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 659-665.
- 1956, The use of geochemical techniques and methods in prospecting, in Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc., v. 6, p. 782-787.
- Lowell, J. D., 1953, Applications of cross stratification studies to problems of uranium exploration: U.S. Atomic Energy Comm. RME-44, 17 p., (see Econ. Geology, v. 50, p. 177-185).
- Lozano, Efralm, 1965, Geology of the southwestern Garo area, South Park, Park County, Colorado: Colorado School Mines M.S. thesis.
- Ludwig, K. R., 1975, Interpretation of U-Pb isotope dates of young uranium ores [abs.], in Craig, L. C., Brooks, R. A., and Patton, P. C., eds., Abstracts of the 1975 uranium and thorium research and resources conference: U.S. Geol. Survey open-file report 75-595, p. 26.
- Ludwig, K. R., and Young, E. J., 1975, Absolute age of disseminated uraninite in Wheeler Basin, Grand County, Colorado: U.S. Geol. Survey Jour. Research, v. 3, no. 6, p. 747-751.
- Luedke, R. G., and Shoemaker, E. M., 1953, Tectonic map of the Colorado Plateau (including text "Structural Setting of the Colorado Plateau," by E. M. Shoemaker): U.S. Geol. Survey TEM-301.
- Mablie, J., 1968, Long-range trend for uranium: Southern Interstate Nuclear Board Conf. on Nuclear Fuel Exploration for Power Reactors, Proc., Atlanta, Georgia.
- MacPherson, B. A., 1959, Geology and uranium deposits of the Tallahassee Creek district, Fremont County, Colorado: U.S. Atomic Energy Comm. RME-1083, 50 p.
- Madsen, J. W., 1953, Development drilling on the Rambler group, Gypsum Valley district, Montrose County, Colorado: U.S. Geol. Survey TEM-576, 4 p., figures.
- 1954, Development drilling on the Pitchfork group of claims, Gypsum Valley district, San Miguel County, Colorado: U.S. Geol. Survey TEM-631, 12 p., figures.
- Mah, A. D., and Kelley, K. K., 1966, Thermodynamic properties of vanadium and its compounds: U.S. Bur. Mines Rept. Inv. 6727, 84 p.
- Maise, C. R., 1953, Groundwater circulation in a synclinal aquifer, in Experimental simulation of Plateau-type uranium deposits: U.S. Atomic Energy Comm. RMO-44, p. 128-264, illus.
- Malan, R. C., 1956, Geology of uranium occurrences in or near fluorite deposits in Jackson County, Colorado: U.S. Atomic Energy Comm. DAO-3-TM-39 13 p., (for abstract see NSA 32:00662).
- 1957, Geology of uraniumiferous peat beds at the Spring claims, Jackson County, Colorado: U.S. Atomic Energy Comm. DAO-3-TM-40 17 p., (for abstract see NSA 32:00663).
- 1957, Geology of uranium occurrences in North and Middle Parks, Colorado, in Guidebook

- to the Geology of North and Middle Parks basin, Colorado: Rocky Mtn. Assoc. Geologists, p. 126-136, illus. (incl. geol. sketch maps).
- 1968, Relationship of uranium in the Rocky Mountains of southwestern Colorado to local and regional metallogenesis, in *Guidebook of San Juan-San Miguel-La Plata region, New Mexico and Colorado*: New Mexico Geol. Soc., 19th Field Conf. 1968, New Mexico Bur. Mines and Mineral Resources, p. 185-192, illus., tables.
- 1969, Uranium in the Tertiary intermontane basins of Colorado, in *Colorado Mining Assoc. Mining Yearbook*: p. 40-44.
- 1969, Uranium in the Tertiary intermontane basins of Colorado: *Mtn. Geologist*, v. 6, no. 1, p. 41-51, illus. (incl. geol. sketch maps).
- 1972, Summary report-Distribution of uranium and thorium in the Precambrian of the western United States: U.S. Atomic Energy Comm. RD-12, 64 p., (for abstract see NSA 29:20849).
- Malan, R. C., and Ranspot, H. W., 1959, Geology of the uranium deposits in the Cochetopa mining district, Saguache and Gunnison Counties, Colorado: *Econ. Geology*, v. 54, no. 1, p. 1-19, illus. (incl. geol. map).
- Malan, R. C., and Sterling, D. A., 1969, A geologic study of uranium resources in Precambrian rocks of the western United States. An introduction to the distribution of uranium and thorium in Precambrian rocks including the results of preliminary studies in the southwestern United States: U.S. Atomic Energy Comm. AEC-RD-9 54 p., (for abstract see NSA 31:22596).
- 1970, Distribution of uranium and thorium in the Precambrian of the West-Central and Northwest United States: U.S. Atomic Energy Comm. AEC-RD-11 64 p., (for abstract see NSA 31:22598).
- Malan, R. C., Ranspot, H. W., and Spengler, R. G., 1957, Geology of the uranium deposits in the Cochetopa district, Saguache County, Colorado: U.S. Atomic Energy Comm. RME-1080, (see *Econ. Geology*, v. 54, p. 1-19).
- Mallory, N. S., and Bird, A. G., 1953, Final report-Airborne radiation detection survey, Jefferson County, Colorado and adjacent areas: U.S. Atomic Energy Comm. RME-1041, 10 p., (for abstract see NSA 32:00688).
- Manger, G. E., 1953, Original-state core studies [Colorado], in *Geologic investigations of radioactive deposits - Semiannual progress report*, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 72-79, illus.
- 1953, Original-state core studies [Colorado], in *Geologic investigations of radioactive deposits - Semiannual progress report*, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 61-62.
- 1954, Original-state core studies [Colorado], in *Geologic investigation of radioactive deposits - Semiannual progress report*, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-440, p. 55-63, illus.
- 1954, Original-state core studies [Colorado], in *Geologic investigations of radioactive deposits - Semiannual progress report*, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-490, p. 92-99, illus.
- 1955, Original-state core studies, in *Geologic investigations of radioactive deposits - Semiannual progress report*, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEI-540, p. 96-105, illus.
- 1955, Original-state core studies, in *Geologic investigations of radioactive deposits - Semiannual progress report*, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 141-147, illus.
- Manger, G. E., and Gates, G. L., 1953, Progress report of original-state core studies [Colorado]: U.S. Geol. Survey TEM-509, 21 p., (sketch map).
- Manger, G. E., Gates, G. L., and Cadigan, R. A., 1955, Natural-state core studies of uranium-bearing rocks [Colorado] [abs.]: *Am. Inst. Mining Eng., Mining Geol. Geophys. Div. Ann. Mtg., Abs. Tech. Papers*, p. 55.
- 1957, Physical and associated properties in ore-bearing and poorly mineralized uranium ground in Montrose County, Colorado, and San Juan County, Utah, in *Geologic investigations of radioactive deposits - Semiannual progress report*, Dec. 1, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, book 2, p. 461-471.
- 1975, Physical properties of uranium host rocks and experimental drilling at Long Park, Montrose County, Colorado-Final report: U.S. Geol. Survey Natl. Tech. Inf. Service Pub. PB-241576.
- Marjanemi, D. K., and Basler, A. L., 1972, Geochemical investigations of plutonic rocks in western United States for the purpose of determining favorability for vein-type uranium deposits: U.S. Atomic Energy Comm. GJO-912-16 216 p., (for abstract see NSA 29:24170).
- Marrs, L. F., 1970, Underground leaching of uranium at the Pitch mine: *Mining Cong. Jour.*, v. 56, no. 11, p. 35-36, 41-43.
- Marshall, C. H., 1959, Photogeologic map of the Delta quadrangle, Montrose and Delta Counties, Colorado: U.S. Geol. Survey Misc. Geol. Inv. Map I-282, scale 1:62,500 (geol. map).
- 1959, Photogeologic map of the Norwood-1 quadrangle, Montrose and Ouray Counties, Colorado: U.S. Geol. Survey Misc. Geol. Inv. Map I-283, scale 1:62,500.
- Marvin, R. F., Young, E. J., Mehnert, H. H.,

- and others, 1974, Summary of radiometric age determinations on Mesozoic and Cenozoic igneous rocks and uranium and base metal deposits in Colorado: *Isochron West*, no. 11, p. 1-41.
- Marvin, R. G., 1953, Jurassic stratigraphy of southwestern Colorado: Univ. Nebraska M.S. thesis.
- Mastrovich, A. M., 1945, Report on San Miguel River district, San Miguel Plateau area, Colorado: U.S. Atomic Energy Comm. RMO-462 17 p., with maps, (for abstract see NSA 31:33019).
- Mauger, R. L., 1967, A summary of isotopic ages of Colorado Plateau, Utah, mineral deposits, in Hintze, L. F., ed., *Uranium districts of southeastern Utah*: Utah Geol. Soc. *Guidebook* no. 21, p. 91-98.
- Maxwell, C. H., 1955, Bedrock geology of area west of Denver, in *Geology of Front Range foothills, west of Denver*: Rocky Mtn. Assoc. Geologists *Guidebook*, 98 p.
- Maxwell, J. C., 1977, Raw data report of elemental analyses from hydrogeochemical and stream sediment samples taken near Sterling and Fort Morgan, northeastern Colorado, December 1976 and January 1977: U.S. Energy Research Devel. Adm. GJBX-39(77), 27 p., Los Alamos Scientific Laboratory, New Mexico.
- 1977, Uranium hydrogeochemical and stream sediment reconnaissance in the San Juan Mountains, southwest Colorado: U.S. Energy Research Devel. Adm. GJBX-22(77), 104 p., Los Alamos Scientific Laboratory, New Mexico.
- McCarn, D. W., and Freeman, R. W., 1976, Chemical analysis of ground and surface water samples from parts of the United States, 1956-1975: U.S. Energy Research Devel. Adm. GJBX-51(76).
- McDougald, W. D., 1954, Reconnaissance of the DeBeque area, Mesa and Garfield Counties, Colorado: U.S. Atomic Energy Comm. TM-65, 9 p., (for abstract see NSA 32:00716).
- 1955, Wagon drilling in the Skull Creek area, Moffat County, Colorado: U.S. Atomic Energy Comm. RME-80, pt. 1, 15 p., illus. (incl. sketch maps).
- McKay, E. J., 1951, Large-scale geologic guides to carnotite deposits in the Uravan and Gateway districts, Montrose and Mesa Counties, Colorado: U.S. Geol. Survey TEM-271.
- 1953, Geology of the Red Canyon quadrangle, Montrose County, Colorado, with a section on the mines, by D. A. Jobin: U.S. Geol. Survey TEM-705, 31 p., map, (see U.S. Geol. Survey Geol. Quad. Map GQ-58; U.S. Geol. Survey Mineral Inv. Field Studies Map MF-17).
- 1953, Geology of carnotite-bearing sandstone in the Uravan and Gateway districts, Montrose and Mesa Counties, Colorado: U.S. Geol. Survey TEI-283, (see U.S. Geol. Survey Bull. 1009-J).
- 1953, Geology of the Atkinson Creek quadrangle, Montrose County, Colorado [map]: U.S. Geol. Survey TEM-691, 31 p., map, (see U.S. Geol. Survey Map Geol. Quad. Map GQ-57; U.S. Geol. Survey Mineral Inv. Field Studies Map MF-18).
- 1954, Preliminary geologic map of the Red Canyon quadrangle, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-17, (scale 1:24,000 (see U.S. Geol. Survey Geol. Quad. Map GQ-58; U.S. Geol. Survey TEM-705).
- 1955, Geology of the Red Canyon quadrangle, Colorado, with a section on the mines, by D. A. Jobin [map]: U.S. Geol. Survey Geol. Quad. Map GQ-58, (scale 1:24,000 (see U.S. Geol. Survey Mineral Inv. Field Studies Map MF-17)).
- 1955, Geology of the Atkinson Creek quadrangle, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-57, scale 1:24,000 (see U.S. Geol. Survey Mineral Inv. Field Studies Map MF-18; U.S. Geol. Survey TEM-691).
- 1955, Criteria for outlining areas favorable for uranium deposits in parts of Colorado and Utah: U.S. Geol. Survey Bull. 1009-J, p. 265-282, illus. Incl. geol. map, (see U.S. Geol. Survey TEI-283).
- McKay, E. J., and Bergin, M. J., 1974, Geologic map of the Maybell quadrangle, Moffat County, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-1145, scale 1:62,500 (colored geol. map).
- McKay, E. J., and Jobin, D. A., 1954, Preliminary geologic map of the Atkinson Creek quadrangle, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-18, scale 1:24,000 (see U.S. Geol. Survey Geol. Quad. Map GQ-57; U.S. Geol. Survey TEM-691).
- McKee, T. M., 1955, Early discovery of uranium ore in Colorado: *Colorado Mag.*, v. 32, no. 3, p. 191-203, illus. Reprint.
- McKelvey, V. E., 1953, Search for uranium in western United States: U.S. Geol. Survey TEI-199, 27 p.
- 1953, Search for uranium in the western United States [abs.]: *Am. Assoc. Petroleum Geologists Bull.*, v. 37, no. 11, p. 2614.
- 1954, Search for uranium in the United States: U.S. Geol. Survey TEI-476, 68 p., (see U.S. Geol. Survey Bull. 1030-A).
- 1955, Search for uranium in the United States: U.S. Geol. Survey Bull. 1030-A, p. 1-64, (see U.S. Geol. Survey TEI-476).
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1955, Origin of uranium deposits: U.S. Geol. Survey TEI-504, 102 p., (see *Econ. Geology*, 50th Anniversary Vol., pt. 1, p. 464-533).
- 1955, Origin of uranium deposits: *Econ. Geology*,

- 50th Anniversary Vol., pt. 1, p. 464-533, (see U.S. Geol. Survey TEI-504).
- 1956, Summary of hypotheses of genesis of uranium deposits, in Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 41-53.
- 1956, Summary of hypothesis of genesis of uranium deposits, in Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc., v. 6, p. 551-561.
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1951, Domestic resources of uranium and thorium -- a summary based upon investigations by the U.S. Geological Survey: U.S. Geol. Survey TEI-150, 108 p.
- 1952, Uranium deposits in the United States [abs.]: Econ. Geology, v. 47, no. 1, p. 125.
- McKeown, F. A., and Gude, A. J., 3d, 1951, Preliminary report on the carnotite deposits of the Old Leyden coal mine, Jefferson County, Colorado: U.S. Geol. Survey TEM-308, 9 p., figures.
- McMillan, W. D., 1960, Report on mineral resources in the proximity of the San Juan-Chama irrigation projects, southern Colorado and northern New Mexico, in San Juan-Chama and Navajo Indian projects: Bur. Mines Report - U.S. 86th Cong., 2nd sess., House Doc. No. 424, p. 132-139, (sketch map).
- McQueen, K., 1958, Photogeologic map of the Iris SE and Doyleville SW quadrangles, Saguache County, Colorado [map]: U.S. Geol. Survey Misc. Geol. Inv. Survey Map 1-277, scale 1:31,680.
- Meijer, H. J. de L., Janssen, M. J., and Kerk, G. J. M. van der, 1964, Studies in the organic chemistry of vanadium: Utrecht, Schotanus and Jens, Chem. Abs., v. #60, col. 545, 152 p.
- Mellin, R. E., 1955, Selected annotated bibliography of the geology of sandstone-type uranium deposits in the United States: U.S. Geol. Survey TEI-526, (see U.S. Geol. Survey Bull. 1059-C, p. 59-175).
- 1957, Selected annotated bibliography of the geology of sandstone-type uranium deposits in the United States: U.S. Geol. Survey Bull. 1059-C, p. 59-175.
- Merewether, E. A., 1960, Geologic map of the igneous and metamorphic rocks of Colorado showing location of uranium deposits: U.S. Geol. Survey Misc. Geol. Inv. Map 1-309, scale 1:500,000.
- Merritt, P. L., 1950, Uranium exploration in the United States: Rocks and Minerals, v. 25, nos. 7-8, p. 363-370.
- 1950, Uranium exploration in the United States: Canadian Mining and Metall. Bull., v. 43, no. 460, p. 438-443.
- 1950, Uranium exploration in the United States: Mines Mag., v. 40, no. 6, p. 36, 51-52.
- Merritt, R. C., and Pings, W. B., 1969, Processing of uranium ores: Colorado School Mines Mineral Industries Bull., v. 12, no. 6, 20 p.
- Merwin, S. S., 1956, Colorado Front Range uranium districts: Uranium, v. 3, no. 6, 24 p., illus.
- 1956, Uranium occurrences, control, and potential of Colorado's Front Range: Uranium, v. 3, no. 3, 86 p., illus.
- 1956, Uranium ore deposition, theory of control by thrust faults [Colorado]: Uranium, v. 3, no. 5, p. 30-31, 34-36, illus. (incl. geol. map).
- Meschter, D. Y., 1958, A study of concretions as applied to the geology of uranium deposits: U.S. Atomic Energy Comm. TM-D-1-14.
- Metal Mining Fund Board, 1961, Colorado vanadium-a composite study: Denver, Metal Mining Fund Board, 155 p.
- Metzger, O. H., 1944, Field Survey of McElmo district, San Juan basin area, Colorado: U.S. Atomic Energy Comm. RMO-472 12 p., (for abstract see NSA 32:00710).
- 1945, Report on Calamity district, Uncompahgre uplift area, Colorado: U.S. Atomic Energy Comm. RMO-465, 28 p., with maps and sections, (for abstract see NSA 32:08892).
- 1946, Report on Beaver Creek Mesa district, Green River Desert area, Colorado-Utah: U.S. Atomic Energy Comm. RMO-450 35 p., (for abstract see NSA 32:00702).
- Michelson, R. A., 1966, Prospecting for uranium: Colorado School Mines Mineral Industries Bull., v. 9 no. 4, 9 p.
- Mickey, M. R., Jr., and Jespersen, H. W., Jr., 1954, Annual report, April 1, 1953, to March 31, 1954: U.S. Atomic Energy Comm. RME-3099, 65 p.
- Miesch, A. T., 1954, Statistical analysis of uranium-vanadium ore body as an exploration guide [Colorado Plateau] [abs.]: Geol. Soc. America Bull., v. 65, no. 12, pt. 2, p. 1382.
- 1957, Chemical composition as a guide to the size of sandstone-type uranium deposits in the Morrison Formation on the Colorado Plateau: In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1957: U.S. Geol. Survey TEI-700, p. 205-212.
- 1958, Chemical composition as a guide to the

- size of sandstone-type uranium deposits in the Morrison formation on the Colorado Plateau [abs.]: *Econ. Geology*, v. 53, no. 7, p. 923-924.
- 1958, Chemical composition as a guide to the size of sandstone-type uranium deposits in the Morrison formation on the Colorado Plateau [abs.]: *Geol. Soc. America Bull.*, v. 69, no. 12, pt. 2, p. 1613.
- 1961, Classification of elements in Colorado Plateau uranium deposits and multiple stages of mineralization, In *Short papers in the geologic and hydrologic sciences*: U.S. Geol. Survey Prof. Paper 424-B, p. B289-B291.
- 1962, Composition of sandstone host rocks of uranium deposits: *Am. Inst. Neftekh. and Petroleum Engineers Trans.*, v. 223, p. 178-184.
- 1962, Geochemistry of the Frenchy Incline uranium deposit, San Miguel County, Colorado [abs.]: *Dissert. Abs. Internat.*, v. 22, no. 9, p. 3156.
- 1963, Distribution of elements in Colorado Plateau uranium deposits; a preliminary report: *U.S. Geol. Survey Bulletin* 1147-E, 57 p.
- Miesch, A. T., and Riley, L. B., 1960, Basic statistical measures in geochemical investigations of Colorado Plateau uranium deposits [abs.]: *Mining Eng.*, v. 12, no. 12, p. 1248.
- Miesch, A. T., and Shoemaker, E. M., 1957, Distribution of elements in uranium deposits of the Colorado Plateau: *U.S. Geol. Survey* TEI-644.
- n.d., Uranium deposits, pt. 5 of *Distribution of elements on the Colorado Plateau*, a preliminary report: *U.S. Geol. Survey* TEM-836.
- Miesch, A. T., Shoemaker, E. M., and Newman, W. L., 1958, Distribution of elements, in *Geologic investigations of radioactive deposits - Semiannual progress report*, Dec. 1, 1957, to May 31, 1958: *U.S. Geol. Survey* TEI-740, p. 250-254.
- 1959, Chemical composition as a guide to the size of uranium deposits in the Salt Wash Member of the Morrison Formation, Colorado Plateau: *U.S. Geol. Survey* TEI-511, 68 p., (see *U.S. Geol. Survey Bull.* 1112-B, p. 17-61).
- 1960, Chemical composition as a guide to the size of sandstone-type uranium deposits in the Morrison Formation on the Colorado Plateau: *U.S. Geol. Survey Bull.* 1112-B, p. 17-61, illus. (incl. sketch map).
- Milkey, R. G., 1952, Methods of analysis used in the treatment of Colorado Plateau carnotite for age studies: *U.S. Geol. Survey* TEI-245, 19 p.
- Miller, A. E., 1975, Geologic, energy and mineral resources maps of Routt County, Colorado [map]: *Colorado Geol. Survey Map Ser.* 1, 2 pls., scale 1:126,720.
- Miller, D. S., 1959, Colorado Plateau uranium-lead age problem [abs.]: *Geol. Soc. America Bull.*, v. 70, no. 12, pt. 2, p. 1645.
- 1960, Uranium, lead, and sulfur isotopic data and the origin of the Colorado Plateau uranium ores [abs.]: *Geol. Soc. America Bull.*, v. 71, no. 12, pt. 2, p. 1930.
- 1960, The isotopic geochemistry of uranium, lead and sulfur in the Colorado Plateau uranium ores: *Columbia Univ. Ph.D. thesis*, 143 p.
- Miller, D. S., and Kulp, J. L., 1958, Isotopic study of some Colorado Plateau ores: *Econ. Geology*, v. 53, no. 8, p. 937-948, (discussion by L. R. Stieff and T. W. Stern, v. 54, no. 4 p. 752, 1959).
- 1963, Isotopic evidence on the origin of the Colorado Plateau uranium ores: *Geol. Soc. America Bull.*, v. 74, p. 609-630.
- 1969, Izotopnyye dannyye o proiskhozhdenii uranovykh rud plato Kolorado [isotopic data and the origin of uranium ores of the Colorado Plateau], In *Izotopy svintsya v rudnykh mestorozhdeniyakh*: *Moscow Atomizdat*, p. 320-344, (in Russian) illus. (incl. geol. sketch map).
- Miller, G. B., 1946, Report on Carpenter Ridge district, Dolores Plateau area, Colorado: *U.S. Atomic Energy Comm. RMO-451* 55 p., (for abstract see *NSA* 32:00703).
- Miller, L. J., 1953, Ore textures of uraninite and associated minerals from the Colorado Plateau uranium deposits [abs.]: *Econ. Geology*, v. 48, no. 7, p. 625.
- 1953, Ore textures of uraninite and associated minerals from the Colorado Plateau uranium deposits [abs.]: *Geol. Soc. America Bull.*, v. 64, no. 12, pt. 2, p. 1453-1454.
- Millgate, M. L., 1953, Development drilling in the Joker group, Gypsum Valley district, Montrose County, Colorado: *U.S. Geol. Survey* TEM-626, 7 p., figures.
- Minerals Map Company, 1956, Uranium map of the Colorado Plateau [map]: Salt Lake City, Utah, Minerals Map Co. scale 1:500,000, section.
- Mobley, C. M., 1953, Development drilling on the Pay Day group, Gypsum Valley district, San Miguel County, Colorado: *U.S. Geol. Survey* TEM-460, 11 p., figures.
- Moench, R. H., 1953, Idaho Springs district, in *Geologic investigations of radioactive deposits - Semiannual progress report*, June 1 to Nov. 30, 1953: *U.S. Geol. Survey* TEI-390, p. 104-105.
- 1964, Geology of Precambrian rocks, Idaho Springs district, Colorado: *U.S. Geol. Survey Bull.* 1182-A, 70 p., illus. (incl. tables, geol. map).

- Moench, R. H., and Drake, A. A., Jr., 1966, Economic geology of the Idaho Springs district, Clear Creek and Gilpin Counties, Colorado: U.S. Geol. Survey Bull. 1208, 91 p.
- Moench, R. H., Harrison, J. E., and Sims, P. K., 1954, Precambrian structures in the vicinity of Idaho Springs, Front Range, Colorado [abs.]: Geol. Soc. America Bull., v. 65, no. 12, pt. 2, p. 1383-1384.
- 1962, Precambrian folding in the Idaho Springs-Central City area, Front Range, Colorado: Geol. Soc. America Bull., v. 73, p. 35-58.
- Moore, D. G., 1970, Geology, mineralogy, and origin of feldspar rocks associated with alkaline carbonatitic complexes, northern Wet Mountains, Colorado [abs.]: Dissert. Abs. Internat., v. 31, no. 3, p. 1351B.
- Moore, F. B., 1953, Dumont-Fall River area, in Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 96.
- Moore, F. B., and Butler, C. R., 1950, Pitchblende deposits at the Wood and Calhoun mines, Central City mining district, Gilpin County, Colorado: U.S. Geol. Survey TEM-198, 22 p., (see U.S. Geol. Survey Circ. 186) maps.
- 1952, Pitchblende deposits at the Wood and Calhoun mines, Central City mining district, Gilpin County, Colorado: U.S. Geol. Survey Circ. 186, 8 p., illus. (incl. geol. sketch maps) (see U.S. Geol. Survey TEM-198).
- Moore, F. B., and Cavender, W. S., 1952, The pitchblende deposit at the Caribou mine, Boulder County, Colorado [abs.]: Geol. Soc. America Bull., v. 63, no. 12, pt. 2, p. 1281, (see U.S. Geol. Survey TEI-228).
- 1952, Pitchblende deposit at the Caribou mine, Boulder County, Colorado [abs.]: Econ. Geology, v. 47, p. 775.
- 1953, Pitchblende deposits at the Caribou mine, Boulder County, Colorado [abs.]: Am. Mineralogist, v. 38, p. 352.
- Moore, F. B., and Hawley, C. C., 1952, Geology and ore deposits of the Lawson-Dumont-Fall River district, Clear Creek County, Colorado: U.S. Geol. Survey TEI-358.
- 1953, Dumont-Fall River region, in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 106.
- Moore, F. B., Cavender, W. S., and Kaiser, E. P., 1954, Geology and uranium deposits of the Caribou area, Boulder County, Colorado: U.S. Geol. Survey TEI-228, (see U.S. Geol. Survey Bull. 1030-N; Geol. Soc. America Bull., v. 63, no. 12, pt. 2, p. 1281).
- 1957, Geology and uranium deposits of the Caribou area, Boulder County, Colorado: U.S. Geol. Survey Bull. 1030-N, p. 517-552, illus. (incl. geol. maps) [1958].
- Moore, F. B., King, R. U., and Hinrichs, E. N., 1951, Proposed exploration for uranium in the Front Range mineral belt, Colorado: U.S. Geol. Survey TEM-215, 22 p., figures.
- Moore, G. W., 1953, Extraction of uranium from aqueous solution by coal and some other materials: U.S. Geol. Survey TEI-235, (see Econ. Geology v. 49, no. 6, p. 652-658, 1954).
- 1954, Extraction of uranium from aqueous solution by coal and some other materials: Econ. Geology, v. 49, no. 6, p. 652-658, (see U.S. Geol. Survey TEI-235).
- Moore, R. B., 1913, A preliminary report on uranium, radium, and vanadium: U.S. Bur. Mines Bull. 70, 101 p.
- 1923, Colorado vanadium in 1922: Mineral Industries, v. 31, p. 715.
- Morehouse, G. E., 1951, Investigation of thucholite deposits near Placerville, Colorado: U.S. Atomic Energy Comm. RMO-910, 13 p., (geol. sketch maps).
- Morgan, J. M., Jr., 1959, A stream survey in the uranium mining and milling area of the Colorado Plateau: Johns Hopkins Univ. Ph.D. thesis, 354 p.
- 1959, A stream survey in the uranium mining and milling area of the Colorado Plateau [abs.]: Dissert. Abs. Internat., v. 20, no. 4, p. 1313.
- Morris, W. A., 1977, Hydrogeochemical and stream sediment reconnaissance of the National Uranium Resource Evaluation program, quarterly report covering July-September 1976: U.S. Energy Research Devel. Adm. GJBX-12(77).
- Morris, W. A., and Aamodt, P. L., 1976, Hydrogeochemical and stream sediment reconnaissance of the national resource evaluation program April - June 1976: U.S. Energy Research and Devel. Adm. GJBX-65(76).
- Motica, J. E., 1968, Geology and uranium-vanadium deposits in the Uravan mineral belt, southwestern Colorado, in Ore deposits of the United States, 1933-1967 (Graton-Sales volume): New York, Am. Inst. Mining, Metall. and Petroleum Engineers, p. 805-813, illus.
- Moxham, R. M., 1958, Airborne radioactivity surveys in geologic exploration: U.S. Geol. Survey TEI-662, (see Geophysics, v. 25, no. 2, p. 408-432).
- Moya, E. A., 1969, Structural and stratigraphic analyses of Precambrian rocks, North Clear Creek area, Jefferson and Gilpin Counties, Colorado: Colorado School of Mines M.S. thesis.

- Muench, O. B., 1940, Lead-uranium ratio of pitchblende from one of the youngest pegmatites; Colorado [abs.]: Pan-American Geology, v. 73, no. 4, p. 376-377.
- Mull, C. G., 1960, Geology of the Grand Hogback monocline near Rifle (Garfield County, Colorado): Univ. Colorado M.S. thesis.
- Mullens, T. E., and Freeman, V. L., 1952, Lithofacies study of the Salt Wash sandstone member of the Morrison formation [abs.]: Geol. Soc. America Bull., v. 63, no. 12, pt. 2, p. 1340, (see U.S. Geol. Survey TEI-341).
- 1954, Lithofacies of the Salt Wash Member of the Morrison Formation, Colorado Plateau: U.S. Geol. Survey TEI-341, (see Geol. Soc. America Bull., v. 68, p. 505-526; Geol. Soc. America Bull., v. 63, no. 12, pt. 2, p. 1340).
- 1957, Lithofacies of the Salt Wash member of the Morrison Formation, Colorado Plateau: Geol. Soc. America Bull., v. 68, no. 4, p. 505-526, illus.
- Murray, D. K., 1976, Energy resource development map of Colorado [map]: Colorado Geol. Survey Map Ser. 6, scale 1:500,000.
- Murray, D. K., and Haun, J. D., 1974, Introduction to the geology of the Piceance Creek basin and vicinity, northwestern Colorado in Energy resources of the Piceance Creek basin, Colorado: Denver, Colorado, Rocky Mtn. Assoc. Geologists, Guidebook, 1974, p. 29-41.
- Myers, A. T., and Waring, C. L., 1956, Spectrography [Colorado Plateau], in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956: U.S. Geol. Survey TEI-640, p. 275-276.
- Narten, P. F., 1953, Geobotanical prospecting [Colorado Plateau], in Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 55-58.
- 1953, The indicator plant method of geobotanical prospecting [Colorado Plateau], in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 40-42.
- Narten, P. F., Crawford, J. E., and Butler, A. P., Jr., 1951, Summary review of analytical data pertaining to the uranium content or radioactivity of domestic shales: U.S. Geol. Survey TEM-240.
- Nash, A. L., 1953, Airborne radiometric surveying in Grand, San Juan, Emery and Wayne Counties, Utah, and Montrose County, Colorado: U.S. Atomic Energy Comm. RME-4054, 23 p., (sketch maps).
- 1953, Summary of airborne radiometric surveying in Grand, San Juan, Emery and Wayne Counties, Utah, and Montrose County, Colorado: U.S. Atomic Energy Comm. RME-54, 20 p., (for abstract see NSA 32:00681).
- Nash, A. L., and Brown, L. J., 1954, Results of an airborne radiometric survey in the Canon City embayment area, Colorado [rev.]: U.S. Atomic Energy Comm. RME-1050, 11 p., (sketch maps).
- Nash, J. T., 1975, Fluid-inclusion studies of vein, breccia pipe, and replacement ores, northwestern San Juan Mountains, Colorado: Econ. Geology, v. 70.
- Nash, W. P., 1970, Mineralogy and petrology of the Iron Hill carbonatite complex, Powderhorn, Colorado [abs.]: Geol. Soc. America Abs. with Programs, v. 2, no. 7, p. 634.
- 1972, Mineralogy and petrology of the Iron Hill carbonatite complex, Colorado: Geol. Soc. America Bull., v. 83, no. 5, p. 1361-1382, illus. (incl. geol. sketch map).
- Nelson, Haley, Patterson and Quirk, Inc., 1971, Report of practicability study and cost estimate - Removal of uranium mill tailings from under or near certain residences in the Grand Junction, Colorado area: U.S. Atomic Energy Comm. RMO-3009, 33 p.
- Nelson, J. M., 1953, Prospecting for uranium with car-mounted equipment: U.S. Geol. Survey Bull. 988-1, p. 211-221.
- Neuerburg, G. J., 1967, Distribution of selected accessory minerals in the Caribou stock, Boulder County, Colorado [map]: U.S. Geol. Survey Misc. Geol. Inv. Map I-496, scale 1:12,000, text.
- Neuerburg, G. J., Antweiler, J. C., and Bieler, B. H., 1955, Uranium content and leachability of some igneous rocks and their geochemical significance: U.S. Geol. Survey TEI-626.
- Newman, W. L., 1951, Preliminary reserve statement 11, Reserve Block A, Long Park vicinity, Montrose County, Colorado: U.S. Geol. Survey TEM-187, 4 p., tables, figures.
- 1953, Distribution of elements project [Colorado Plateau], in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 48-50.
- 1957, Distribution of elements [Colorado Plateau], in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, p. 478-490, (sketch map).
- 1959, Chemical composition as a guide to the size of sandstone-type uranium deposits, Colorado Plateau [abs.]: Washington Acad. Sci. Jour., v. 49, no. 3, p. 90-91.
- 1962, Distribution of elements in sedimentary rocks of the Colorado Plateau -- a preliminary report: U.S. Geol. Survey Bull. 1107-F, p.

337-445.

- Newman, W. L., and Elston, D. P., 1957, Distribution of elements in the Salt Wash member of the Morrison formation in the Jo Dandy area, Montrose County, Colorado: U.S. Geol. Survey TEI-607, 58 p., (see U.S. Geol. Survey Bull. 1084-E).
- 1959, Distribution of chemical elements in the Salt Wash member of the Morrison formation, Jo Dandy area, Montrose County, Colorado: U.S. Geol. Survey Bull. 1084-E, p. 117-150, illus. (incl. geol. sketch map).
- Newman, W. L., Shoemaker, E. M., and Miesch, A. T., 1959, Distribution of elements in sedimentary rocks of the Colorado Plateau: U.S. Geol. Survey TEI-537, (see U.S. Geol. Survey Bull. 1107-F).
- Newman, William L., 1954, Distribution of elements [Colorado Plateau] in Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Surv. TEI-440, p. 42-45.
- Nininger, R. D., 1954, Minerals for atomic energy: New York, V. Van Nostrand Co., Inc., 357 p.
- Nininger, R. D., and Wentzel, Volkmar, 1954, Hunting uranium around the world: Natl. Geog. Mag., v. 151, no. 4, p. 533-558.
- Nininger, R. D., Gardner, C. I., Searl, M. F., and others, 1960, Energy from uranium and coal reserves: U.S. Atomic Energy Comm. TID-8207, 7 p.
- Nishimori, R. K., Ragland, P. C., Rogers, J. J., and others, 1977, Uranium deposits in granitic rocks: U.S. Energy Research Davel. Adm. GJBX-13(77), 308 p.
- Noble, E. A., 1959, Genesis of uranium belts of the Colorado Plateau: U.S. Atomic Energy Comm. RME-132, (see Internat. Geol. Cong., 21st, Rept., 1960, pt. 15, p. 26-39).
- 1960, Genesis of uranium belts of the Colorado Plateau: Internat. Geol. Cong., 21st, Copenhagen, 1960, Report, pt. 15, p. 26-39, illus. (incl. geol. sketch maps).
- Noble, E. A., and Annes, E. C., Jr., 1957, Reconnaissance for uranium in the Uinta basin of Colorado and Utah: U.S. Atomic Energy Comm. RME-94, 22 p., illus. (incl. geol. sketch maps).
- Nordyke, Lewis, 1956, Uranium: Explosives Engineer, v. 34, no. 5, p. 134-140, 147-153.
- Notesteln, F. B., 1918, Some chemical experiments bearing on the origin of certain uranium-vanadium ores: Econ. Geology, v. 13, no. 1, p. 50-64.
- Olson, J. C., 1953, Thorium and monazite deposits, in Geologic Investigations of radioactive deposits - Semiannual progress report, classified data, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-391, p. 43.
- 1953, Search for and appraisal of thorium and monazite deposits Powderhorn district, Colorado, in Search for and geology of radioactive deposits - Semiannual progress report - classified data, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-331, p. 37.
- 1953, Powderhorn district, Gunnison County, Colorado, in Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 190-192, (geol. sketch map).
- 1973, Geologic map of the Rudolph Hill quadrangle, Gunnison, Hinsdale, and Saguache Counties, Colorado: U.S. Geol. Survey open-file report, 1 sheet, scale 1:24,000.
- 1974, Geologic map of the Rudolph Hill quadrangle, Gunnison, Saguache, and Hinsdale Counties, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-1177, scale 1:24,000.
- 1975, Uranium deposits in the Cochetopa district, Colorado, in relation to the Oligocene erosion surface, in Craig, L. C., Brooks, R. A., and Patton, P. C., eds., Abstracts of the 1975 uranium and thorium research and resources conference [abs.]: U.S. Geol. Survey open-file report 75-595, p. 33.
- 1975, Geologic map of Iris quadrangle, Colorado: U.S. Geol. Survey open-file map D-75-208.
- 1975, Geologic map of Houston Gulch quadrangle, Colorado: U.S. Geol. Survey open-file map D-75-209.
- 1976, Geologic map of the Houston Gulch quadrangle, Gunnison and Saguache Counties, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-1287, scale 1:24,000.
- 1976, Uranium deposits in the Cochetopa district, Colorado, in relation to the Oligocene erosion surface: U.S. Geol. Survey open-file report 76-222, 13 p.
- 1976, Geologic map of the Iris quadrangle, Gunnison and Saguache Counties, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-1286, scale 1:24,000.
- 1977, Preliminary geologic map of part of the Pahlone Peak quadrangle, Gunnison, Saguache, and Chaffee Counties, Colorado: U.S. Geol. Survey open-file report 77-325.
- Olson, J. C., and Adams, J. W., 1962, Thorium and rare earths in the United States exclusive of Alaska and Hawaii [map]: U.S. Geol. Survey Mineral Inv. Resource Map MR-28, scale 1:3,168,000 (econ. geol. map).
- Olson, J. C., and Hedlund, D. C., 1956, Field investigations, Gunnison County, Colorado, in Geologic Investigations of radioactive

- deposits - Semiannual progress report, June 1 to Nov. 30, 1956: U.S. Geol. Survey TEI-640, p. 323-325.
- 1957, Investigations of thorium in veins, Gunnison County, Colorado, In Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, book 2, p. 568-569.
- 1957, Investigations of thorium in veins, Gunnison County, Colorado, In Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1957: U.S. Geol. Survey TEI-700, p. 280-282.
- 1958, Investigations of thorium in veins, Gunnison County, Colorado, In Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1958: U.S. Geol. Survey TEI-750, p. 136-138.
- 1973, Geologic map of the Gateview quadrangle, Gunnison County, Colorado [map]: U.S. Geol. Survey Map GQ-1071, scale, 1:24,000.
- Olson, J. C., and Overstreet, W. C., 1964, Geologic distribution and resources of thorium: U.S. Geol. Survey Bull. 1204, 61 p.
- Olson, J. C., and Steven, T. A., 1975, Geologic map of the Sawtooth Mountain quadrangle, Saguache County, Colorado [map]: U.S. Geol. Survey Misc. Inv. Field Studies Map MF-733.
- 1976, Geologic map of the Razor Creek Dome quadrangle, Saguache County, Colorado [map]: U.S. Geol. Survey Misc. Inv. Field Studies Map MF-74.
- Olson, J. C., and Wallace, S. R., 1953, Powderhorn district, Colorado, In Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 193-194.
- 1954, Thorium and rare-earth minerals in the Powderhorn district, Gunnison County, Colorado: U.S. Geol. Survey TEI-353, 58 p., tables, maps. (see U.S. Geol. Survey Bull. 1027-0).
- 1956, Thorium and rare-earth minerals in Powderhorn district, Gunnison County, Colorado: U.S. Geol. Survey Bull. 1027-0, p. 693-723, illus. (incl. geol. map) (see U.S. Geol. Survey TEI-353).
- Olson, J. C., Butler, A. P., Jr., Finch, W. I., and Fischer, R. P., 1973, Nuclear energy resources-A geologic perspective: U.S. Geol. Survey leaflet, 15 p.
- Olson, J. C., Hedlund, D. C., and Hansen, W. R., 1968, Tertiary volcanic stratigraphy in the Powderhorn-Black Canyon region, Gunnison and Montrose Counties, Colorado: U.S. Geol. Survey Bull. 1251-C, 29 p., illus., table, geol. map.
- Olson, J. C., Marvin, R. F., Parker, R. L., and Mohnert, H. H., 1977, Age and tectonic setting of Lower Paleozoic alkaline and mafic rocks, carbonatites, and thorium veins in south-central Colorado: U.S. Geol. Survey Jour. Research, v. 5, no. 6, p. 675-687.
- Olson, J. C., Steven, T. A., and Hedlund, D. C., 1975, Geologic map of the Spring Hill Creek quadrangle, Saguache County, Colorado [map]: U.S. Geol. Survey Misc. Inv. Field Studies Map MF-713.
- Ormond, Allen, 1957, Preliminary report on the geology of uranium deposits in the Browns Park formation in Moffat County, Colorado, and Carbon County, Wyoming: U.S. Atomic Energy Comm. TM-D-1-18.
- Osterwald, F. W., 1956, Relation of tectonic elements in Precambrian rocks to uranium deposits in the Cordilleran foreland of the western United States, In Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy Geneva, 1955, Proc., v. 6, p. 293-298.
- 1956, Relation of tectonic elements in Precambrian rocks to uranium deposits in the Cordilleran foreland of the western United States, In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 329-335.
- 1965, Structural control of uranium-bearing vein deposits and districts in the conterminous United States: U.S. Geol. Survey Prof. Paper 455-G, p. 121-146.
- Osterwald, F. W., and Dean, B. G., 1956, Tectonic map of northern Colorado and northeastern Utah showing the distribution of uranium deposits [map]: U.S. Geol. Survey TEM-949, (see U.S. Geol. Survey Mineral Inv. Field Studies Map MF-130).
- 1958, Preliminary tectonic map of northern Colorado and northeastern Utah, showing the distribution of uranium deposits [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-130, 2 sheets, scale 1:500,000.
- 1961, Relation of uranium deposits to tectonic pattern of the central Cordilleran foreland: U.S. Geol. Survey Bull. 1087-1, p. 337-390.
- Otton, J. K., and Ward, F. N., 1975, Uranium and associated trace elements in stream sediments in the Denver basin, Colorado [abs.]: Mining Eng., v. 27, no. 12, p. 68C.
- Outerbridge, W. F., 1957, Mineralogical services and research, In Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1957: U.S. Geol. Survey TEI-700, p. 228-229.

- Overstreet, W. C., 1967, The geologic occurrence of monazite: U.S. Geol. Survey Prof. Paper 530, 327 p.
- Page, L. R., 1950, Beryllium in Colorado: U.S. Geol. Survey TEI-88, 9 p., (see the 1950 Mining Yearbook, Colorado Mining Assoc., p. 37-39).
- 1950, Beryllium in Colorado, in The 1950 Mining Yearbook: Denver, Colorado Mining Assoc., p. 37-39, (see U.S. Geol. Survey TEI-88).
- 1950, Uranium in pegmatites: Econ. Geology, v. 45, p. 12-34.
- 1956, Geologic prospecting for uranium and thorium, in Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy Geneva, 1955, Proc., v. 6, p. 688-691.
- 1956, Geologic prospecting for uranium and thorium, in Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 627-631.
- Page, L. R., Stocking, H. E., and Smith, H. B., compilers, 1956, Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, 739p.
- Palst, D. A., 1970, Vanadium: Colorado School Mines Mineral Industries Bull., v. 13, no. 4, 24 p.
- Pakiser, L. C., and Black, R. A., 1956, Exploring for ancient channels with the refraction seismograph: U.S. Geol. Survey TEI-481, 35 p.
- Parker, R. L., and Hildebrand, F. A., 1963, Preliminary report on alkalic intrusive rocks in the northern Wet Mountains, Colorado, in Short papers in geology, hydrology, and topography: U.S. Geol. Survey Prof. Paper 450-E, p. E8-E10, illus.
- Parker, R. L., and Sharp, W. N., 1970, Mafic-ultramafic igneous rocks and associated carbonatites of the Gem Park complex, Custer and Fremont Counties, Colorado: U.S. Geol. Survey Prof. Paper 649, 24 p., (incl. geol. maps).
- Paterson, W. C., 1951, Thorium is metal for future power and atom weapon [Colorado Plateau]: Idaho Mineral Industries Ann. Rept. 53, p. 110-115.
- Payne, A. L., 1962, Geology and uranium deposits of the Colorado Plateau [abs.]: Dissert. Abs. Internat., v. 23, no. 4, p. 1326.
- 1962, Geology and uranium deposits of the Colorado Plateau: Stanford Univ. Ph.D. thesis, 287 p.
- Pearce, Richard, 1896, Some notes on the occurrence of uraninite in Colorado: Colorado Sci. Soc. Proc., v. 5, p. 156-158.
- 1898, Uraninite in Colorado: Mining and Sci. Press, v. 113, p. 43-44.
- 1898, Some notes on the occurrence of uraninite in Colorado: Mines and Minerals, v. 19, p. 108.
- 1916, Some notes on the occurrence of uraninite in Colorado: Mining and Sci. Press, v. 113, p. 44.
- Pearson, J. S., 1975, Sociological analysis of the reduction of hazardous radiation in uranium mines: Denver, Colorado, Univ. Denver, NIOSH-75-171.
- Pederson, J. A., ed., 1973, Future energy outlook: Colorado School Mines Quart., v. 68, no. 2.
- Peterson, H. D., Merritt, R. C., and Anderson, A. K., 1975, Application of marconaflo technology to leaching of uranium ores: Jom-Jour. of Metals, v. 27, no. 12, p. 44.
- Pettijohn, F. J., 1963, Chemical composition of sandstones -- excluding carbonate and volcanic sands, in Data of geochemistry [6th ed.]: U.S. Geol. Survey Paper 440-S, 21 p.
- Phair, George, 1952, Radioactive Tertiary porphyries in the Central City district, Colorado, and their bearing upon pitchblende deposition: U.S. Geol. Survey TEI-247, 53 p., illus. (incl. geol. sketch map).
- 1952, The Colorado Front Range project in Summary of the research work of the Trace Elements Section, Geochemistry and Petrology Branch, for the period Oct. 1-Dec. 31, 1951: U.S. Geol. Survey TEI-218, p. 10-12.
- 1953, Uranium in veins, igneous rocks and related deposits, Colorado Front Range, in Geologic Investigations of radioactive deposits - Semiannual progress report, classified data, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-391, p. 17.
- 1953, Colorado Front Range mineralogic, geochemical and petrologic studies in Trace elements research - Quarterly progress report, Jan. 1 to March 31, 1952: U.S. Geol. Survey TEI-270, pt. 1, p. 21-22.
- 1953, Mineralogy and geochemistry [Colorado] in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 114-115.
- 1954, Occurrence of uranium in veins and igneous rocks [Colorado] in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-490, p. 146.
- 1955, Distribution of uranium in igneous complexes [Colorado] in Geologic Investigations of radioactive

- deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEI-540, p. 237-244.
- 1956, Distribution of uranium in igneous complexes [Colorado, New Hampshire] in Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 310-319, illus.
- 1957, Thorium veins in the Wet Mountains, Colorado in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1957: U.S. Geol. Survey TEI-700, p. 276-279.
- 1958, Uranium and thorium in the Laramide Intrusives of the Colorado Front Range in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1958: U.S. Geol. Survey TEI-750, p. 103-108.
- 1958, Chemical nature of the wall rock alteration in the thorium deposits, Wet Mountains, Colorado in Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1957, to May 31, 1958: U.S. Geol. Survey TEI-740, p. 313.
- Phair, George, and Antweiler, J. C., 1954, Mineralogy and geochemistry [Colorado] in Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1953, to May 31, 1954.: U.S. Geol. Survey TEI-440, p. 93-95.
- Phair, George, and Fisher, F. G., 1961, Potassic feldspathization and thorium deposition in the Wet Mountains, Colorado: U.S. Geol. Survey Prof. Paper 424-D, p. D1-D2.
- Phair, George, and Gilbert, F. L., 1959, Thorium deposits in the Wet Mountains, Custer and Fremont counties, Colorado in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1959: U.S. Geol. Survey TEI-752, p. 67-70.
- Phair, George, and Gottfried, David, 1955, Uranium in the Precambrian "granites" of the Colorado Front Range in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 310-313.
- 1958, Fractionation of uranium in the rocks and accessory minerals of the Boulder Creek batholith, Colorado in Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1957, to May 31, 1958: U.S. Geol. Survey TEI-740, p. 286-290.
- 1958, Study of the geological causes of the variation in Pb/alpha age shown by zircon from the Boulder Creek batholith, Colorado in Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1957, to May 31, 1958: U.S. Geol. Survey TEI-740, p. 290-293.
- 1964, The Colorado Front Range, Colorado, U.S.A., as a uranium and thorium province, in The natural radiation environment: Chicago, Univ. Chicago Press, p. 7-38, illus, tables (for William Marsh Rice Univ.).
- Phair, George, and Herz, Norman, 1953, Mineralogic, geochemical and petrologic studies [Colorado] in Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 98-99.
- Phair, George, and Jenkins, L. B., 1975, Tabulation of uranium and thorium data on the Mesozoic-Cenozoic Intrusion rocks of known chemical composition in Colorado: U.S. Geol. Survey open-file report 75-501.
- Phair, George, and Levine, Harry, 1952, Notes on the differential leaching of uranium, radium and lead from pitchblende in H₂SO₄ solutions: U.S. Geol. Survey TEI-262, 23 p., (see Geol. Soc. America Bull. v. 63, no. 12, pt. 2, p. 1290; Econ. Geology v. 48, no. 5, p. 358-369).
- 1952, Notes on the differential leaching of uranium, radium, and lead from pitchblende in H₂SO₄ solutions [abs.]: Geol. Soc. America Bull, v. 63, no. 12, pt. 2, p. 1290, (see U.S. Geol. Survey TEI-262).
- 1953, Notes on the differential leaching of uranium, radium, and lead from pitchblende in H₂SO₄ solutions: Econ. Geology, v. 48, no. 5, p. 358-369, (see U.S. Geol. Survey TEI-262).
- Phair, George, and Mela, Henry, Jr., 1955, The isotopic variation of common lead in galena from the Front Range and its geological significance: U.S. Geol. Survey TEI-506, 20 p.
- Phair, George, and Onoda, Kiyoko, 1950, Verification of uraninite in fluorite breccias from the Blue Jay mine, Jamestown, Colorado: U.S. Geol. Survey TEM-175.
- 1951, Hydrothermal uranothorite in fluorite breccias from the Blue Jay mine, Jamestown, Boulder County, Colorado: U.S. Geol. Survey TEI-144, 16 p., (see Am. Mineralogist, v. 37, nos. 7-8, p. 659-666).
- Phair, George, and Shimamoto, K. O., 1952, Hydrothermal uranothorite in fluorite breccias from the Blue Jay mine, Jamestown, Boulder County, Colorado: Am. Mineralogist, v. 37, nos. 7-8, p. 659-666, (see U.S. Geol. Survey TEI-144).
- 1953, Colorado Front Range mineralogic, geochemical and petrologic studies in Trace elements research - Quarterly progress report, April 1 to June 30, 1952: U.S. Geol. Survey TEI-280, p. 33-34.
- Phair, George, and Sims, P. K., 1954, Paragenesis and age of the uranium minerals in the Copper King mine, Larimer County, Colorado [abs.]: Geol. Soc. America Bull., v. 65, no. 12, pt. 2, p. 1385.

- Phillips, A. H., 1904, Radium in an American ore: *Am. Philos. Soc. Proc.*, v. 43, p. 157-160.
- Phoenix, D. A., 1949, Preliminary plans for ground-water studies: U.S. Geol. Survey TEM-99, 5 p.
- 1950, Progress of ground-water studies, May 1950, Colorado Plateau project: U.S. Geol. Survey TEM-109.
- 1951, Preliminary report on correlation between the gamma-ray logs and permeability logs of the ore-bearing sandstone in the Morrison Formation, Calamity Mesa, Mesa County, Colorado: U.S. Geol. Survey TEM-270.
- 1951, Preliminary statement of the analyses of ground water from the Morrison Formation, southwestern Colorado and southeastern Utah: U.S. Geol. Survey TEM-137.
- 1952, Present and past ground-water conditions in the Morrison Formation in southwestern Colorado and southeastern Utah: U.S. Geol. Survey TEI-161, 38 p.
- 1953, Ground-water studies [Colorado Plateau] in Trace elements research - Quarterly progress report, April 1 to June 30, 1952: U.S. Geol. Survey TEI-280, p. 23-24.
- 1955, Occurrence and chemical character of ground water in the Morrison Formation in southwestern Colorado and southeastern Utah: U.S. Geol. Survey TEI-320, 23 p., (see U.S. Geol. Survey Prof. Paper 320, p. 55-64).
- 1956, Relation of carnotite deposits to permeable rocks in the Morrison Formation, Mesa County, Colorado, in *Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy Geneva, 1955, Proc.*, v. 6, p. 321-325.
- 1956, Relation of carnotite deposits to permeable rocks in the Morrison Formation, Mesa County, Colorado, in *Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300*, p. 213-219.
- 1958, Uranium deposits under conglomeratic sandstone of the Morrison Formation, Colorado and Utah: *Geol. Soc. America Bull.*, v. 69, no. 4, p. 403-417, illus. (incl. geol. map).
- 1959, Occurrence and chemical character of ground water in the Morrison Formation, Colorado-Utah, in *Garrels, R. M., and Larsen, E. S., compilers, Geochemistry and mineralogy of the Colorado Plateau uranium ores: U.S. Geol. Survey Prof. Paper 320*, p. 55-64, illus.
- Phoenix, D. A., and Franks, P. C., 1956, Subsurface geologic investigations by drilling [Colorado Plateau], in *Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620*, p. 89-92, sketch map.
- Phoenix, David A., 1955, Conglomeratic sandstone strata at the base of the Brushy Basin member of the Morrison Formation as related to uranium-vanadium deposits, southwestern Colorado and southeastern Utah: U.S. Geol. Surv. TEI-565.
- Pierce, A. P., Mytton, J. W., and Gott, G. B., 1956, Radioactive elements and their daughter products in the Texas Panhandle and other oil and gas fields in the United States, in *Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc.*, v. 6, p. 494-498.
- 1956, Radioactive elements and their daughter products in the Texas Panhandle and other oil and gas fields in the United States, in *Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300*, p. 527-532.
- Pierson, C. T., 1953, San Juan Mountains, Colorado; reconnaissance, in *Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330*, p. 101.
- 1953, San Juan Mountains, Colorado; reconnaissance, in *Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390*, p. 110-111.
- 1954, Reconnaissance for radioactive minerals, San Juan Mountains, Colorado, in *Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-440*, p. 89-91.
- Pierson, C. T., and Singewald, Q. D., 1953, Results of reconnaissance for radioactive minerals in parts of the Alma district, Park County, Colorado: U.S. Geol. Survey Circ. 294, 9 p., illus., incl. geol. map, (see U.S. Geol. Survey TEI-248, pt. 1).
- 1953, Results of reconnaissance for radioactivity in parts of the Alma district, Park County, Colorado: U.S. Geol. Survey TEI-248, 28 p., (see U.S. Geol. Survey Circ. 294).
- 1953, Occurrences of uranium-bearing minerals in the St. Kevin district, Lake County, Colorado: U.S. Geol. Survey TEI-234, 39 p., maps. (see U.S. Geol. Survey Bull. 1027-E).
- 1954, Occurrences of uranium-bearing minerals in the St. Kevin district, Lake County, Colorado: U.S. Geol. Survey Circ. 321, 17 p., illus. (incl. geol. map) (see U.S. Geol. Survey TEI-234, pt. 1).
- Pierson, C. T., Burbank, W. S., and Singewald,

- Q. D., 1952, Some uranium occurrences in the central and southwestern parts of the Colorado mineral belt [abs.]: Geol. Soc. America Bull., v. 63, no. 12, pt. 2, p. 1368.
- Pierson, C. T., Singewald, Q. D., and Dings, M. G., 1953, Central mineral belt, [Colorado], In Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 85-86.
- Pierson, C. T., Weeks, W. F., and Kleinhampl, F. J., 1956, Reconnaissance for radioactivity in the metal mining districts of the San Juan Mountains, Colorado: U.S. Geol. Survey TEI-306, (see U.S. Geol. Survey Bull. 1046-0).
- 1958, Reconnaissance for radioactivity in the metal mining districts of the San Juan Mountains, Colorado: U.S. Geol. Survey Bull. 1046-0, p. 385-413, illus. (incl. geol. sketch maps).
- Piplringos, G. N., Hall, W. J., Jr., and Izett, G. A., 1969, The Chinle (Upper Triassic) and Sundance (Upper Jurassic) Formations in north-central Colorado: U.S. Geol. Survey Bull. 1274-N, 35 p.
- Piller, Richard, and Adams, J. A. S., 1959, Distribution of thorium and uranium in a Pennsylvanian weathering profile; Colorado [abs.]: Geol. Soc. America Bull., v. 70, no. 12, pt. 2, p. 1657.
- 1959, Distribution of thorium and uranium in the Mancos shale (Cretaceous) [abs.]: Geol. Soc. America Bull., v. 70, no. 12, pt. 2, p. 1656-1657.
- 1962, The distribution of thorium, uranium and potassium in the Mancos shale: Geochim. et Cosmochim. Acta, v. 26, p. 1115-1135, illus., tables.
- 1962, The distribution of thorium and uranium in a Pennsylvanian weathering profile: Geochim. et Cosmochim. Acta, v. 26, p. 1137-1146, illus., tables.
- Pommer, A. M., 1956, Oxidation potential and state of some vanadium ores and the relation of woody material to their deposition: U.S. Geol. Survey open-file report 375, 84 p.
- 1956, Oxidation potential and state of some vanadium ores and the relation of woody material to their deposition: U.S. Geol. Survey TEI-586.
- 1956, Transportation and deposition of uranium ore-forming minerals [Colorado Plateau], In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 319-320.
- 1958, Preliminary studies of the formation of uraninite under simulated Colorado Plateau conditions [abs.]: Geol. Soc. America Bull., v. 69, no. 12, pt. 2, p. 1767-1768.
- Poole, F. G., and Williams, G. A., 1956, Direction of sediment transport in the Triassic and associated formations of the Colorado Plateau, In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 227-231.
- 1956, Direction of transportation of the sediment constituting the Triassic and associated formations of the Colorado Plateau, In Geology of uranium and thorium: U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955, Proc., v. 6, p. 326-330.
- Popenoe, Peter, 1965, Aeroradioactivity survey and areal geology of the Denver area, Colorado (ARMS-1): U.S. Atomic Energy Comm. CEX-59.4.26, 26 p., illus., tables.
- 1965, Natural gamma aeroradioactivity map of the Denver area, Colorado [map]: U.S. Geol. Survey Geophys. Inv. Map GP-505, scale 1:250,000, text.
- Pritchard, G. E., 1955, Washakie basin, Wyoming and Colorado; Baggs area, Carbon and Sweetwater Counties, Wyoming, and Moffat County, Colorado, In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 174-176.
- 1956, Baggs area, Carbon and Sweetwater Counties, Wyoming, and Moffat County, Colorado, In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 188-190.
- Proctor, P. D., Hyatt, E. P., and Bullock, K. C., 1954, Uranium—where it is and how to find it: Salt Lake City, Utah, Eagle Rock Publishers, 85 p.
- Pruess, R. C., 1954, The three ages - A history picture of the Plateau: Mines Mag., v. 44, no. 9, p. 14-15.
- Puffett, W. P., and Weir, G. W., 1959, Geologic mapping, Lisbon Valley, Utah-Colorado, In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1959: U.S. Geol. Survey TEI-752, p. 13-18.
- Rabblitt, J. C., 1950, Numerical summary of the analytical work of the Trace Elements Section, Geochemistry and Petrology Branch, for the fiscal year 1950: U.S. Geol. Survey TEM-174.
- 1950, The first annual report of the Trace Elements Section for the fiscal year 1949: U.S. Geol. Survey TEI-101.
- 1951, Summary of the research work of the Trace Elements Section, Geochemistry and Petrology Branch, for the period Jan. 1-June 30, 1951: U.S. Geol. Survey TEI-167, 43 p.

- 1951, Summary of the research work of the Trace Elements Section, Geochemistry and Petrology Branch, for the period April 1, 1948, to Dec. 31, 1950: U.S. Geol. Survey TEI-148A, 96 p.
- 1951, Summary of the research work of the Trace Elements Section, Geochemistry and Petrology Branch, for the period Jan. 1 to March 31, 1951: U.S. Geol. Survey TEI-151, 44 p.
- 1952, Summary of the research work of the Trace Elements Section, Geochemistry and Petrology Branch, for the period Oct. 1-Dec. 31, 1951: U.S. Geol. Survey TEI-218, 39 p.
- 1952, Summary of the research work of the Trace Elements Section, Geochemistry and Petrology Branch, for the period July 1 to Sept. 30, 1951: U.S. Geol. Survey TEI-182, 33 p.
- Rackley, R. I., 1971, Sedimentary environmental control of sandstone-type uranium deposits [abs.]: Am. Assoc. Petroleum Geologists Bull., v. 55, no. 2, p. 358.
- 1975, Geology and geochemistry of uranium occurrences in fluvial sediments: Geochem. Explor. for Uranium Workshop, Nov. 12-14, 1975, Golden, Colorado School Mines.
- 1976, Origin of western-states type uranium mineralization in Wolf, K. H., ed., of strata-bound and stratiform ore deposits: Amsterdam, Elsevier Scientific Publishing Co.
- Rackley, R. I., Shockey, P. N., and Dahill, M. P., 1968, Concepts and methods of uranium exploration: Wyoming Geol. Assoc. 20th Field Conf. Guidebook, p. 115-124.
- 1968, Concepts and methods of uranium exploration: Earth Sci. Bull., v. 1, no. 3, p. 23-24.
- Raines, G. L., 1971, Geology of the Sargents area, Gunnison and Saguache Counties, Colorado: Colorado School Mines M.S. thesis.
- Ramsey, R. W., ed., 1954, Facts you should know about uranium: Salt Lake City, Utah, Uranium Pubs., 32 p., illus.
- Rankama, Kalvero, and Sahama, T. G., 1950, Uranium, in Geochemistry: Chicago, Illinois, Univ. Chicago Press, p. 632-639.
- 1950, Vanadium, in Geochemistry: Chicago, Illinois, Univ. Chicago Press p. 594-603.
- Ransome, F. L., and Hillebrand, W. F., 1905, On carnotite and associated minerals in western Colorado: U.S. Geol. Survey Bull. 262, p. 9-31.
- Ranspot, H. W., 1958, Geology and uranium deposits of the Indian Creek area, Gunnison and Saguache Counties, Colorado: Univ. of Colorado M.S. thesis.
- Ranspot, H. W., and Spengler, R. G., 1957, Uranium deposits of the Marshall Pass area, Gunnison and Saguache Counties, Colorado: U.S. Atomic Energy Comm. DAO--3-TM-42 36 p., (for abstract see NSA 32:00665).
- Rasor, C. A., 1953, Geology of Colorado Plateau uranium deposits [abs.]: Am. Inst. Mining, Metall. and Petroleum Engineers Mining Geology, Geophys. Div., Ann. Mtg. 1953, Abs. Tech. Papers, p. 16.
- Ray, E. D., 1975, Metal mining activity in district 1, in Colorado Mining Assoc. Mining Yearbook: p. 23.
- Read, H. L., Jr., 1976, Grover uranium deposit—a case history of uranium exploration in the Denver basin, Colorado: Mtn. Geologist, v. 13, no. 1, p. 21-31.
- Redmon, D. E., 1960, Exploratory drilling practices and costs at western uranium deposits: U.S. Bur. Mines Inf. Circ. 7944, 68 p.
- Reimer, G. M., and Otton, J. K., 1976, Helium in soil gas and well water in the vicinity of a uranium deposit, Weld County, Colorado: U.S. Geol. Survey open-file report 76-699, 10 p., 3 figures.
- Reinhardt, E. V., 1952, The distribution of uranium - vanadium deposits in the Colorado Plateau relative to Tertiary intrusive masses: U.S. Atomic Energy Comm. RMO-816.
- 1952, Practical guides to uranium ores on the Colorado Plateau: U.S. Atomic Energy Comm. RMO-1027, 13 p., geol. sketch maps.
- 1954, Structural controls of uranium deposits [Colorado Plateau]: Mining Cong. Jour. v. 40, no. 10, p. 49-52, illus.
- 1963, Uranium mineral belt -- a review and a few new theories on its origin: Eng. and Mining Jour., v. 164, no. 6, p. 107-110, illus.
- Research, Incorporated, 1955, Research and development of geophysical and geochemical techniques for uranium exploration on the Colorado Plateau; final report: U.S. Atomic Energy Comm. RME-3111, 94 p., illus.
- Rich, R. A., and Barabas, A., 1976, Mineralogy, paragenesis, fluid inclusions, and origin of the Schwartzwalder uranium deposit, Jefferson County, Colorado [abs.]: Geol. Soc. America Abs. with Programs, v. 8, no. 6, p. 1068.
- Rich, R. A., Holland, H. D., and Peterson, U., 1975, Vein-type uranium deposits: U.S. Energy Research Devel. Adm. GJO-1640, Cambridge, Mass., Dept. Geol. Sci., Harvard Univ.
- 1977, Hydrothermal uranium deposits: New York, Elsevier Scientific Publishing Co., 264 p.
- Richardson, A. C., 1949, The recovery of uranium from carnotite ores; final report: Battelle Memorial Inst. BML-JDS-195, 111 p., illus.

- Rickard, Forbes, 1913, Pitchblende from Quartz Hill, Gilpin County, Colorado: Mining Sci. Press, v. 106, no. 23, p. 851-856.
- Ridland, G. C., 1949, Development and geology at the Caribou mine, Consolidated Caribou Silver Mines, Inc., in Colorado Mining Assoc. Mining Yearbook: p. 35, illus.
- 1950, Radioactivity at the Caribou silver mine, Boulder County, Colorado: Mining Eng., v. 2, p. 98-101, illus.
- 1951, Radioactivity at the Caribou silver mine, Boulder County, Colorado: Am. Inst. Mining, Metall., and Petroleum Engineers Trans., v. 187, p. 98-100.
- Riley, L. B., 1946, Report on SOM occurrences near Garo, Park County, Colorado: U.S. Atomic Energy Comm. RMO-438, 7 p.
- 1953, Mineralogic studies, in Trace elements research-Quarterly progress report, April 1 to June 1, 1952: U.S. Geol. Survey TEI-280, p. 26-30.
- 1954, Some notes on selenium in sandstone-type uranium deposits of the Colorado Plateau and vicinity: U.S. Geol. Survey TEM-863.
- Riley, L. B., and Owens, J. P., 1957, Mineralogy; service and research on techniques in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 31, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, book 2, p. 527-529.
- Riley, L. B., and Shoemaker, E. M., 1952, Distribution of ore deposits and spectrographic analyses of some rocks and ores on the Colorado Plateau: U.S. Geol. Survey TEI-278, 63 p.
- Riley, T. H., 1953, Preliminary report on geologic reconnaissance in Ralston Creek-Golden Gate Canyon areas, Jefferson County, Colorado: U.S. Atomic Energy Comm. RME-1007 12 p., (for abstract see NSA 32:00687).
- Roach, C. H., 1953, Preliminary reserve statement 37, Reserve Block D, Spring Creek Mesa, Montrose County, Colorado: U.S. Geol. Survey TEM-719, 6 p., figures.
- 1953, Preliminary report on exploration of the Spring Creek Mesa area, Montrose County, Colorado: U.S. Geol. Survey TEM-688, 7 p., figures.
- 1953, Preliminary reserve statement 35, Reserve Block A, Spring Creek Mesa area, Montrose County, Colorado: U.S. Geol. Survey TEM-717, 6 p., figures.
- 1953, Preliminary reserve statement 36, Reserve Blocks B and C, Spring Creek Mesa, Montrose County, Colorado: U.S. Geol. Survey TEM-718, 7 p., figures.
- 1954, Exploration for uranium deposits in the Spring Creek Mesa area, Montrose County, Colorado: U.S. Geol. Survey TEI-343, 55 p., tables, maps, (see U.S. Geol. Survey TEI-690).
- Roach, C. H., and Alvord, D. C., 1970, Maps showing location of holes drilled in 1951 to 1953 by U.S. Geological Survey, Spring Creek Mesa and San Miguel bench areas, Uravan district, Montrose County, Colorado: U.S. Geol. Survey open-file report, (5 sheets).
- Roach, C. H., and Thompson, M. E., 1955, Sedimentary structures and the localization and oxidation of ore at the Peanut mine, Montrose County, Colorado: U.S. Geol. Survey TEI-512, (see U.S. Geol. Survey Prof. Paper 320, p. 197-202; Geol. Soc. America Bull. v. 66, no. 12, pt. 2, p. 1625-1626, [abs.]; Econ. Geology, v. 50, no. 7, p. 794, [abs.]).
- 1959, Sedimentary structures and localization and oxidation of ore at the Peanut mine, Montrose County, Colorado, in Garrels, R. M., and Larsen, E. S., compilers, Geochemistry and mineralogy of the Colorado Plateau uranium ores: U.S. Geol. Survey Prof. Paper 320, p. 197-202, illus.
- Roach, C. H., and Wallace, R. M., 1957, Bull Canyon district, Colorado: U.S. Geol. Survey TEI-690, book 1, p. 27-41, illus. (incl. sketch maps).
- Robeck, R. C., 1960, Geologic and structure map, Lisbon Valley, Utah-Colorado, and vicinity, showing oil and gas wells in relation to uranium deposits: Grand Junction, Colorado, Privately printed, geol. map, scale 1:190,080.
- Robertson, D. S., 1970, Uranium, its geological occurrences as a guide to exploration, in Uranium exploration geology: Internat. Atomic Energy Agency, p. 267-284.
- Rocky Mountain Association of Geologists, 1955, Geology of Front Range foothills west of Denver -- Deer Creek to Ralston Creek, Jefferson County, Colorado: Rocky Mtn. Assoc. Geologists Field Conf. Guidebook, 1955, Denver, 98 p.
- Rogers, A. S., 1950, Distribution of leached radioactive material in the Legin group area, San Miguel County, Colorado: U.S. Geol. Survey TEM-171, 14 p.
- Rogers, W. B., and Shawe, D. R., 1962, Exploration for uranium-vanadium deposits by U.S. Geological Survey 1948-56 in western Disappointment Valley area, Slick Rock district, San Miguel County, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-241, 3 sheets, scale 1:12,000, sections, text.
- Rosenzweig, A., Gruner, J. W., and Gardner, L., 1952, Widespread occurrence and character

- of pitchblende in the Triassic and Jurassic sediments of the Colorado Plateau [abs.]: *Geol. Soc. America Bull.*, v. 63, p. 1293.
- 1953, Widespread occurrence and character of pitchblende in the Triassic and Jurassic sediments of the Colorado Plateau [abs.]: *Am. Mineralogist*, v. 38, p. 357.
- 1954, Widespread occurrence and character of uraninite in the Triassic and Jurassic sediments of the Colorado Plateau: *Econ. Geology*, v. 49, no. 4, p. 351-361, illus.
- Rosholt, J. N., Jr., 1960, A study of uranium migration in sandstone-type ore deposits in Short papers in the geological sciences: U.S. Geol. Survey Prof. Paper 400-B, p. B41-B42.
- Rosholt, J. N., Jr., Butler, A. P., Jr., Garner, E. L., and others, 1965, Isotope fractionation of uranium in sandstone, Powder River basin, Wyoming, and Slick Rock district, Colorado: *Econ. Geology*, v. 60, no. 2, p. 199-213, illus., tables.
- Rosholt, J. N., Jr., Shields, W. P., and Garner, E. L., 1963, Isotopic fractionation of uranium in sandstone: *Science*, v. 139, p. 224-226.
- Ross, Malcolm, 1958, Results of studies of some vanadium minerals of the Colorado Plateau, pt. 2 of Mineralogical applications of electron diffraction: U.S. Geol. Survey TET-719, (see *Am. Mineralogist*, v. 44, p. 322-341).
- 1959, Studies of some vanadium minerals of the Colorado Plateau, pt. 2 of Mineralogical applications of electron diffraction: *Am. Mineralogist*, v. 44, nos. 3-4, p. 322-341, illus.
- Rove, O. N., 1946, Trace elements reconnaissance: U.S. Geol. Survey TET-33.
- Ruckmick, J. C., 1953, Sites for heavy mineral accumulation in fluvial deposits, in Experimental simulation of Plateau-type uranium deposits: U.S. Atomic Energy Comm. RMO-44, p. 86-127.
- Russell, R. T., 1954, Uranium occurrence in south central Colorado, in *Rocky Mtn. Assoc. Geologists Field Conf. Guidebook*, October 13-15, 1954: p. 9.
- Russell, W. L., and Scherbatskoy, S. A., 1951, The use of sensitive gamma ray detectors in prospecting: *Econ. Geology*, v. 46, no. 4, p. 427-446, illus.
- Salotti, C. A., 1961, Geology and petrology of the Cotopaxi-Howard area, Fremont County, Colorado [abs.]: *Dissert. Abs. Internat.*, v. 21, no. 12, p. 3805.
- 1962, Petrology and structure of Precambrian metasedimentary rocks near Howard, Colorado [abs.]: *Geol. Soc. America Spec. Paper* 68, p. 259.
- 1965, Mineralogy and paragenesis of the Cotopaxi, Colorado, Cu-Zn Skarn deposit: *Am. Mineralogist*, v. 50, no. 9, p. 1179-1212, illus., tables, geol. map.
- Sample, R. D., Albee, H. F., and Stephens, H. G., 1953, Claim map, Bull Canyon quadrangle, Montrose County, Colorado: U.S. Geol. Survey TEM-268A, map.
- 1953, Claim map, Anderson Mesa quadrangle, Montrose and San Miguel Counties, Colorado: U.S. Geol. Survey TEM-458, map.
- 1953, Claim map, Hamm Canyon quadrangle, San Miguel County, Colorado: U.S. Geol. Survey TEM-351, map.
- 1953, Claim map, Red Canyon quadrangle, Montrose County, Colorado: U.S. Geol. Survey TEM-350, map.
- 1953, Claim map, Horse Range Mesa quadrangle, San Miguel County, Colorado [map]: U.S. Geol. Survey TEM-463, map.
- Sample, R. D., and Albee, H. F., 1951, Claim map, Atkinson Creek quadrangle, Montrose County, Colorado: U.S. Geol. Survey TEM-266, map.
- 1951, Claim map, Bull Canyon quadrangle, Montrose and San Miguel Counties, Colorado: U.S. Geol. Survey TEM-268, map.
- 1951, Claim map, Davis Mesa quadrangle, Montrose County, Colorado: U.S. Geol. Survey TEM-267, map.
- 1951, Claim map, Naturita NW quadrangle, Montrose and San Miguel Counties, Colorado: U.S. Geol. Survey TEM-208, map.
- 1951, Claim map, Calamity Mesa quadrangle, Mesa County, Colorado: U.S. Geol. Survey TEM-207, map.
- 1951, Claim map, Pine Mountain quadrangle, Mesa County, Colorado: U.S. Geol. Survey TEM-206, map.
- 1952, Claim map, Roc Creek quadrangle, Montrose County, Colorado: U.S. Geol. Survey TEM-349, map.
- 1952, Claim map, Uravan quadrangle, Montrose County, Colorado: U.S. Geol. Survey TEM-347, map.
- 1952, Claim map, Gypsum Gap quadrangle, San Miguel County, Colorado: U.S. Geol. Survey TEM-346, map.
- 1952, Claim map, Paradox quadrangle, Montrose County, Colorado: U.S. Geol. Survey TEM-345, map.
- 1953, Claim map, Juanita Arch quadrangle, Mesa County, Colorado: U.S. Geol. Survey TEM-348, map.
- 1953, Claim map, Gateway quadrangle, Mesa County, Colorado: U.S. Geol. Survey TEM-462, map.
- 1953, Claim map, Joe Davis Hill quadrangle, San Miguel County, Colorado: U.S. Geol. Survey TEM-457, map.

- 1953, Claim map, Egnar quadrangle, San Miguel County, Colorado: U.S. Geol. Survey TEM-456, map.
- Sandor, J., 1952, Vanadium -- the possibility of its production from indigenous sources: *Metallurgia*, v. 46, no. 278, p. 268-274.
- Saum, N. M., and Link, J. M., 1969, Exploration for uranium: Colorado School Mines Mineral Industries Bull., v. 12, no. 4, 23 p.
- Schlottmann, J. D., 1957, Uranium occurrences on the Alaska Humes claims in the Rabbit Ears Pass area, Grand and Jackson Counties, Colorado: U.S. Atomic Energy Comm. DAO-3-TM-45, 15 p., (for abstract see NSA 32:00667).
- 1961, Foothills mine, Idledale district, Jefferson County, Colorado: U.S. Atomic Energy Comm. RME-138, 10 p.
- 1961, Geology of the Schwartzwalder uranium deposit, Jefferson County, Colorado: Unpub.
- Schlottmann, J. D., and Brown, L. J., 1955, Results of airborne reconnaissance and exploration in the Troublesome area, Middle Park, Grand County, Colorado: U.S. Atomic Energy Comm. RME-1064, 22 p., (for abstract see NSA 32:00691).
- Schlottmann, J. D., and Smith, L. E., 1954, Preliminary report on uranium mineralization in the Troublesome Formation, Middle Park, Grand County, Colorado: U.S. Atomic Energy Comm. RME-1042, 14 p., geol. sketch maps.
- Schmidt-Collerus, J. J., 1967, Literature review, pt. 1 of investigations of the relationship between organic matter and uranium deposits: U.S. Atomic Energy Comm. GJO-933-1, (for abstract see NSA 32:00672).
- 1969, Experimental investigations, pt. 2 of investigations of the relationship between organic matter and uranium deposits: U.S. Atomic Energy Comm. GJO-933-2.
- Schnabel, R. W., 1955, The uranium deposits of the United States [map]: U.S. Geol. Survey Mineral Inv. Resource Map MR-2, scale 1:5,000,000, text.
- Schopf, J. M., and Gray, R. J., 1954, Microscopic studies of uraniumiferous coal deposits: U.S. Geol. Survey Circ. 343, 10 p.
- Schultz, L. G., 1956, Studies of clays in Triassic rocks [Colorado Plateau], In Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 119-120.
- 1957, Studies of clays in Triassic rocks [Colorado Plateau], In Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, bk. 2, p. 497-504, illus.
- 1963, Clay minerals in Triassic rocks of the Colorado Plateau: U.S. Geol. Survey Bull. 1147-C, 71 p.
- Scott, B. C., 1957, Geology of the uranium occurrences in the Dakota hogback ridge, near Morrison, Jefferson County, Colorado: U.S. Atomic Energy Comm. DAO-3-TM-41 10 p., (for abstract see NSA 32:00664).
- Scott, J. B., 1952, Development drilling on the Vanura group, San Miguel County, Colorado: U.S. Geol. Survey TEM-454, 5 p., figures.
- Scott, R. A., 1961, Fossil woods associated with uranium on the Colorado Plateau, In Short papers in the geologic and hydrologic sciences: U.S. Geol. Survey Prof. Paper 424-B, p. B130-B132, illus.
- Scott, R. C., 1963, Radium in natural waters in the United States, In Radioecology: Natl. Symposium on Radioecology, 1st, Colorado State Univ., 1961, Proc., New York, Reinhold Publishing Corp., p. 237-240, illus.
- Scott, R. C., and Barker, F. B., 1958, Radium and uranium in ground water of the United States, In Survey of raw material resources: U. N. Internat. Conf. On the Peaceful Uses of Atomic Energy 2d, Geneva, 1958, Proc., v. 2, p. 153-157.
- 1961, Ground-water sources containing high concentrations of radium, In Short papers in the geologic and hydrologic sciences: U.S. Geol. Survey Prof. Paper 424-D, p. D-357.
- 1962, Data on uranium and radium in ground water in the United States, 1954 to 1957: U.S. Geol. Survey Prof. Paper 426, 115 p.
- Sears, J. D., 1924, Relations of the Browns Park Formation and the Bishop conglomerate, and their role in the origin of the Green and Yampa Rivers: Geol. Soc. America Bull., 35, no. 2, p. 279-304.
- Sears, R. S., Marjanleml, D. K., and Blomquist, J. T., 1974, A study of the Morrison Formation in the San Juan basin, New Mexico and Colorado: U.S. Atomic Energy Comm. GJO-912-20, 416 p., (for abstract see NSA 30:18594).
- Seegerstrom, Kenneth, and Young, E. J., 1972, General geology of the Hahns Peak and Farwell Mountain quadrangles, Routt County, Colorado, with a discussion of Upper Triassic and pre-Morrison Jurassic rocks, by G. N. Pipiringos: U.S. Geol. Survey Bull. 1349, 63 p. [1973].
- Seidel, D. C., and Kuhn, T. H., 1961, Colorado vanadium - a composite study: Colorado School of Mines Research Foundation, Inc., Golden, Colorado, 155 p., 17 figures, 11 tables, bibliography.
- Senfle, F. E., 1956, Nuclear geology [Colorado Plateau]: U.S. Geol. Survey TEI-620, p. 332-334, illus.
- 1963, Clay minerals in Triassic rocks of the

- Senfle, F. E., Stieff, L. R., Cutlitta, Frank, and others, 1956, Comparison of the isotopic abundance of U-235 and U-238 and the radium activity ratios in Colorado Plateau uranium ores: U.S. Geol. Survey TEI-485, (see Geochim. et Cosmochim. Acta, v. 11, p. 189-193).
- 1957, Comparison of the isotopic abundance of U-235 and U-238 and the radium activity ratios in Colorado Plateau uranium ores: Geochim. et Cosmochim. Acta, v. 11, no. 3, p. 189-193.
- Shappirio, J. R., 1963, Geology and petrology of the Tallahassee Creek area, Fremont County, Colorado [abs.]: Dissert. Abs. Internat., v. 23, p. 137.
- Shappirio, J. R., and Heinrich, E. W., 1961, Uranium deposits of the Tallahassee Creek area, Fremont County, Colorado [abs.]: Econ. Geology, v. 56, no. 7, p. 1341.
- 1962, Uranium deposits of the Tallahassee Creek area, Fremont County, Colorado [abs.]: Geol. Soc. America Spec. Paper 68, p. 268.
- Sharp, R. R., Jr., 1976, Hydrogeochemical and stream sediment survey of the National Uranium Resource Evaluation program, April-June 1975, A quarterly report: U.S. Energy Research Devel. Adm. GJBX-19(76).
- Sharp, R. R., Jr., and Aamodt, P. L., 1976, Uranium concentrations in natural waters in South Park, Colorado: U.S. Energy Research Devel. Adm. GJBX-35(76).
- 1976, Hydrogeochemical and stream sediment survey of the National Uranium Resource Evaluation program dated October-December 1975: U.S. Energy Research Devel. Adm. GJBX-38(76), (see Los Alamos Scientific Lab LA-6346-PR).
- Sharp, R. R., Jr., and Morris, W. A., 1976, Hydrogeochemical and stream sediment survey of the National Uranium Resource Evaluation program, July-September 1975: U.S. Energy Research Devel. Adm. GJBX-25(76), 47 p.
- Sharp, R. R., Jr., Morris, W. A., and Aamodt, P. L., 1976, Hydrogeochemical and stream sediment survey of the National Uranium Resource Evaluation program, progress report, January - March 1976: U.S. Energy Research Devel. Adm. GJBX-39(76), 56 p.
- Shawe, D. R., 1955, Slick Rock district, San Miguel and Dolores Counties, Colorado in Geologic Investigations of radioactive deposits - Semiannual progress report - Dec. 1, 1954, to May 31, 1954: U.S. Geol. Survey TEI-540, p. 38-39.
- 1955, Slick Rock district in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 28-29.
- 1956, Alteration related to Colorado Plateau ore deposits [abs.]: Geol. Soc. America Bull., v. 67, no. 12, pt. 2, p. 1732-1733.
- 1956, Significance of roll ore bodies in genesis of uranium-vanadium deposits on the Colorado Plateau, in Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy Geneva, Proc., v. 6, p. 335-337.
- 1962, Localization of the Uravan mineral belt by sedimentation, in Short papers in geology and hydrology: U.S. Geol. Survey Prof. Paper 450-C, p. C6-C8, illus.
- 1966, Zonal distribution of elements in some uranium-vanadium roll and tabular ore bodies on the Colorado Plateau, in Geol. Survey research 1966: U.S. Geol. Survey Prof. Paper 550-B, p. B169-B175.
- 1968, Coincidence of fossil and lithologic zones in the lower part of Upper Cretaceous Mancos Shale, Slick Rock district, Colorado, in Geol. Survey research 1968: U.S. Geol. Survey Prof. Paper 600-C, p. C66-C68, illus.
- 1968, Petrography of sedimentary rocks in the Slick Rock district, San Miguel and Dolores Counties, Colorado: U.S. Geol. Survey Prof. Paper 576-B, 34 p., illus.
- 1969, Possible exploration targets for uranium deposits, south end of the Uravan mineral belt, Colorado-Utah, in Geol. Survey research 1969: U.S. Geol. Survey Prof. Paper 650-B, p. B73-B76, map.
- 1970, Structure of the Slick Rock district and vicinity, San Miguel and Dolores Counties, Colorado: U.S. Geol. Survey Prof. Paper 576-C, 18 p., illus. (incl. sketch maps).
- 1973, Alteration of red beds and deposition of uranium-vanadium ores at Slick Rock, Colorado, by pore water expelled from Upper Cretaceous Mancos Shale [abs.]: Mining Eng., v. 25, no. 12, p. 58.
- 1974, Alteration of red beds and deposition of uranium-vanadium ores at Slick Rock, Colorado, by pore water expelled from Upper Cretaceous Mancos Shale [abs.]: Econ. Geology, v. 69, no. 1, p. 152.
- 1976, Sedimentary rock alteration in the Slick Rock district, San Miguel and Dolores Counties, Colorado: U.S. Geol. Survey Prof. Paper 576-D, 51 p.
- 1976, Geologic history of the Slick Rock district and vicinity, San Miguel, and Dolores Counties, Colorado: U.S. Geol. Survey Prof. Paper 576-E, 19 p.
- Shawe, D. R., and Archbold, N. L., 1958, Geologic map of the Morrison and Summerville Formations in part of the Slick Rock district, San Miguel County, Colorado: U.S. Geol. Survey open-file report.

- Shawe, D. R., and Granger, H. C., 1965, Uranium ore rolls -- an analysis: *Econ. Geology*, v. 60, p. 240-250.
- Shawe, D. R., and others, 1956, Slick Rock district, San Miguel and Dolores Counties, Colorado, *In Geologic Investigations of radioactive deposits - Semiannual progress report*, June 1 to Nov. 30, 1956: U.S. Geol. Survey TEI-640, p. 36-46.
- Shawe, D. R., and Parker, R. L., 1967, Mafic-ultramafic layered intrusion at Iron Mountain, Fremont County, Colorado: U.S. Geol. Survey Bull. 1251-A, 28 p., illus., tables, geol. map.
- Shawe, D. R., Archbold, N. L., Boudette, E. L., and others, 1954, Interim report on exploration in the Disappointment Valley, Legin and Spud Patch areas, Slick Rock district, San Miguel County, Colorado: U.S. Geol. Survey TEM-833, 10 p., figures.
- 1958, Geology and uranium-vanadium deposits of the Slick Rock district, San Miguel and Dolores Counties, Colorado, [sum.] *In Survey of raw material resources: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy*, Geneva, Proc., v. 2, p. 515-522, illus. (incl. geol. sketch map).
- 1959, Geology and uranium-vanadium deposits of the Slick Rock district, San Miguel and Dolores Counties, Colorado: *Econ. Geology*, v. 54, no. 3, p. 395-415, illus. (incl. geol. sketch map).
- 1978, Uranium-vanadium deposits of the Slick Rock district, San Miguel and Dolores Counties, Colorado: U.S. Geol. Survey Prof. Paper 576-F (In press).
- Shawe, D. R., Simmons, G. C., and Rogers, William, 1956, Slick Rock district, San Miguel and Dolores Counties, Colorado, *In Geologic Investigations of radioactive deposits - Semiannual progress report*, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 39-45.
- 1957, Slick Rock district, Colorado, *In Geologic Investigations of radioactive deposits - Semiannual progress report*, Dec. 31, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, book 1, p. 41-66, illus. (incl. sketch map).
- 1968, Stratigraphy of Slick Rock district and vicinity, San Miguel and Dolores Counties, Colorado: U.S. Geol. Survey Prof. Paper 576-A, 108 p., (illus., tables, geol. maps).
- Shearer, S. D., Jr., and Sill, C. W., 1969, Evaluation of atmospheric radon in the vicinity of uranium mill tailings: *Health Physics*, v. 17, p. 77-88.
- Shedd, J. C., 1912, Radioactivity of the mineral springs of Manitou, Colorado: *Colorado Sci. Soc. Proc.*, v. 10, p. 233-263.
- Sheridan, D. M., 1953, Ralston Buttes district, Colorado, *In Search for and geology of radioactive deposits - Semiannual progress report*, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 99-100.
- 1955, Ralston Buttes district, Colorado, *In Geologic Investigations of radioactive deposits - Semiannual progress report*, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 212-217, sketch map.
- 1956, Ralston Buttes, Colorado, *In Geologic Investigations of radioactive deposits - Semiannual progress report*, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 222.
- 1956, Ralston Buttes, Colorado, *In Geologic Investigations of radioactive deposits - Semiannual progress report*, June 1 to Nov. 30, 1956: U.S. Geol. Survey TEI-640, p. 125-137, illus. (incl. geol. sketch maps).
- Sheridan, D. M., and Maxwell, C. H., 1953, Ralston Buttes district, Colorado, *In Geologic Investigations of radioactive deposits - Semiannual progress report*, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 107-110, sketch map.
- 1954, Ralston Buttes district, Colorado, *In Geologic Investigations of radioactive deposits - Semiannual report*, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-490, p. 139-141, sketch map.
- 1954, Ralston Buttes district, Jefferson County, Colorado, *In Geologic investigations of radioactive deposits - Semiannual progress report*, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-440, p. 88-89, sketch map.
- 1954, Uranium in veins, igneous rock, and related deposits, Ralston Buttes district, Colorado, *In Geologic investigations of radioactive deposits - Semiannual progress report*, classified data, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-491, p. 20.
- Sheridan, D. M., Maxwell, C. H., Albee, A. L., and others, 1958, Preliminary map of bedrock geology of the Ralston Buttes quadrangle, Jefferson County, Colorado: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-179, scale 1:24,000, text.
- 1967, Geology and uranium deposits of the Ralston Buttes district, Jefferson County, Colorado, *with sections on Paleozoic and younger sedimentary rocks*, by Richard Van Horn: U.S. Geol. Survey Prof. Paper 520, 121 p., (illus., tables, geol. maps).
- n.d., Geology of the Ralston Buttes district, Jefferson County, Colorado - a preliminary report: U.S. Geol. Survey TEM-901.
- Shoemaker, E. M., 1950, Preliminary appraisal of diamond-drill exploration in the Jo Dandy area, Montrose County, Colorado: U.S. Geol. Survey TEM-115, 12 p., figures, maps.

- 1951, Internal structure of the Sinbad Valley-Fisher Valley salt anticline, Colorado and Utah [abs.]: Geol. Soc. America Bull., v. 62, no. 12, pt. 2, p. 1478.
- 1952, Preliminary geologic map of part of the Sinbad Valley-Fisher Valley anticline, Colorado and Utah; Structure map and sections of the Sinbad Valley-Fisher Valley anticline, Colorado and Utah: U.S. Geol. Survey open-file rept. 28.
- 1954, Structural features of southeastern Utah and adjacent parts of Colorado, New Mexico, and Arizona, In *Guidebook to the geology of Utah*: Utah Geol. Soc. Guidebook, no. 9, p. 48-69.
- 1954, Distribution of elements [Colorado Plateau] In *Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1954*: U.S. Geol. Survey TEI-490, p. 58-78, illus. (incl. sketch maps).
- 1954, Geology of the Juanita Arch quadrangle, Mesa County, Colorado: U.S. Geol. Survey TEM-701, 35 p., (see U.S. Geol. Survey Geol. Quad. Map GQ-81; U.S. Geol. Survey Mineral Inv. Field Studies Map MF-28).
- 1954, Geology of the Roc Creek quadrangle, Montrose County, Colorado: U.S. Geol. Survey TEM-706, 29 p., (see U.S. Geol. Survey Geol. Quad. Map GQ-83; U.S. Geol. Survey Mineral Inv. Field Studies Map MF-23).
- 1955, Preliminary geologic map of the Roc Creek quadrangle, Montrose County, Colorado [map] [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-23, scale 1:24,000 (see U.S. Geol. Survey TEM-706).
- 1955, Preliminary geologic map of the Juanita Arch quadrangle, Mesa County, Colorado: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-28, scale 1:24,000 (see U.S. Geol. Survey TEM-701).
- 1955, Geology of the Juanita Arch quadrangle, Mesa County, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-81, scale 1:24,000 (see U.S. Geol. Survey Mineral Inv. Field Studies Map MF-28).
- 1955, Distribution of elements [Colorado Plateau] In *Geologic Investigations of radioactive deposits - Semiannual progress report-Dec. 1, 1954, to May 31, 1955*: U.S. Geol. Survey TEI-540, p. 76-89, illus.
- 1956, Geology of the Roc Creek quadrangle, Montrose County, Colorado: U.S. Geol. Survey Geol. Quad. Map GQ-83, scale 1:24,000, sections and text (see U.S. Geol. Survey TEM-706).
- 1956, Structural features of central Colorado Plateau and their relation to uranium deposits, In *Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955*: U.S. Geol. Survey Prof. Paper 300, p. 155-170.
- Shoemaker, E. M., and Luedke, R. G., 1952, Map of the uranium region of the Colorado Plateau: U.S. Geol. Survey TEI-279, map.
- Shoemaker, E. M., and Newman, W. L., 1953, Ute Mountains, a tectonic feature in southwestern Colorado [abs.]: Geol. Soc. America Bull., v. 64, no. 12, pt. 2, p. 1555.
- 1957, Notes on the Moenkopi Formation in the salt anticline region of Colorado and Utah: U.S. Geol. Survey TEI-681, 43 p., (see Am. Assoc. Petroleum Geologists Bull., v. 43, p. 1835-1851).
- Shoemaker, E. M., Miesch, A. T., Newman, W. L., and others, 1955, Elemental composition of Colorado Plateau sandstone-type uranium deposits: U.S. Geol. Survey TEI-446, 65 p., (see U.S. Geol. Survey Prof. Paper 320, p. 25-54).
- 1959, Elemental composition of the sandstone-type deposits, In *Garrels, R. M., and Larsen, E. S., compilers, Geochemistry and mineralogy of the Colorado Plateau uranium ores*: U.S. Geol. Survey Prof. Paper 320, p. 25-54.
- Shoemaker, E. M., Newman, W. L., and Miesch, A. T., 1957, Sources of the elements in the sandstone-type uranium deposits of the Colorado Plateau: U.S. Geol. Survey TEI-629, 54 p.
- Shumway, G. L., 1970, A history of the uranium industry on the Colorado Plateau [abs.]: *Dissert. Abs. Internat.*, v. 31, no. 3A, p. 1210.
- Simmons, G. C., 1957, Burro Canyon Formation in the Slick Rock district, Colorado [abs.]: Geol. Soc. America Bull., v. 68, no. 12, pt. 2, p. 1872.
- 1957, Contact of Burro Canyon Formation with Dakota Sandstone, Slick Rock district, Colorado, and correlation of Burro Canyon Formation: *Am. Assoc. Petroleum Geologists Bull.*, v. 41, no. 11, p. 2519-2529, illus.
- 1957, Contact of the Burro Canyon Formation with the Dakota Sandstone, Slick Rock district, Colorado, and correlation of the Burro Canyon Formation: U.S. Geol. Survey TEI-552, (see *Am. Assoc. Petroleum Geologists Bull.*, v. 41, p. 2519-2529).
- Simmons, G. C., Shawe, D. R., and Rogers, W. B., 1956, Interim report on exploration in the western part of the Disappointment Valley area, Slick Rock district, San Miguel County, Colorado: U.S. Geol. Survey TEM-881, 9 p., figures.
- Simon, M. R., 1956, Uranium deposits of central and south-central Colorado, In *Guidebook to the Geology of the Raton basin, Colorado*: Denver, Colorado, Rocky Mtn. Assoc. Geologists,

- p. 84-85.
- Sims, P. K., 1953, Colorado Front Range In Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 93-94, 97-98.
- 1953, Colorado Front Range, Georgetown-Central City area, Colorado In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 100-102, (sketch map).
- 1954, Colorado Front Range, In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-490, p. 135-139, (sketch map).
- 1954, Colorado Front Range In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-440, p. 75-87, illus. (incl. sketch map).
- 1955, Paragenesis and structure of pitchblende-bearing veins, Central City, district, Colorado [abs.]: Geol. Soc. America Bull., v. 66, no. 12, pt. 2, p. 1617.
- 1955, Paragenesis and structure of pitchblende-bearing veins, Central City district, Gilpin County, Colorado [abs.]: Econ. Geology, v. 50, no. 7, p. 792-793.
- 1955, Tertiary vein deposits In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEI-540, p. 140-141.
- 1955, Precambrian pegmatites in Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEI-540, p. 140.
- 1955, Colorado Front Range In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 200-202.
- 1956, Colorado Front Range, In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 217-221, illus.
- 1956, Uranium deposits In the Front Range, Colorado: Mines Mag., v. 46, no. 3, p. 77-79, illus. (incl. geol. sketch map).
- 1956, Paragenesis and structure of pitchblende-bearing veins, Central City district, Gilpin County, Colorado: Econ. Geology, v. 51, no. 8, p. 739-756, illus. (discussion by J. S. Vanderpool: v. 52, p. 713).
- 1956, Paragenesis and structure of pitchblende-bearing veins, Central City district, Gilpin County, Colorado: U.S. Geol. Survey TEI-433, 32 p., (see Econ Geology, v. 51, p. 739-756).
- 1957, Colorado Front Range In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, p. 291-298.
- 1960, Hypogene mineral zoning, Central City district, Colorado [abs.]: Econ. Geology, v. 55, no. 6, p. 1328-1329.
- 1960, Hypogene mineral zoning, Central City district, Colorado [abs.]: Geol. Soc. America Bull., v. 71, no. 12, pt. 2, p. 1974.
- 1960, Geology of the Central City - Idaho Springs area, Front Range, Colorado, In Guide to the geology of Colorado: Rocky Mtn. Assoc. Geologists, Denver, Colo., p. 279-285, illus. (incl. geol. sketch map).
- 1963, Geology of uranium and associated ore deposits, central part of the Front Range mineral belt, Colorado: U.S. Geol. Survey Prof. Paper 371, 119 p., illus., geol. maps.
- 1964, Geology of the Central City quadrangle, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-267, scale 1:24,000, sections.
- Sims, P. K., and Barton, P. B., Jr., 1962, Hypogene zoning and ore genesis, Central City district, Colorado, In Engel, A. E. J., and others, Petrologic Studies [Buddington volume]: Geol. Soc. America Bull., p. 373-396, illus., table.
- Sims, P. K., and Drake, A. A., Jr., 1953, Colorado Front Range, Central City district, In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 102-104.
- Sims, P. K., and Gable, D. J., 1963, Cordierite-bearing mineral assemblages in Precambrian rocks, Central City quadrangle, Colorado, In Geol. Survey research 1963: U.S. Geol. Survey Prof. Paper 475-B, p. B35-B37, tables.
- 1964, Geology of Precambrian rocks, Central City district, Colorado: U.S. Geol. Survey Prof. Paper 474-C, 52 p., [1965] illus., tables, geol. map.
- 1967, Petrology and structure of Precambrian rocks, Central City quadrangle, Colorado: U.S. Geol. Survey Prof. Paper 554-E, 56 p., illus., tables, geol. map.
- Sims, P. K., and others, 1959, Geology of uranium and associated ore deposits, central part of the Front Range mineral belt, Colorado: U.S. Geol. Survey TEI-601, 10 p., (see U.S. Geol. Survey Prof. Paper 371).
- Sims, P. K., and Phair, George, 1952, Geology of the Copper King mine area, Prairie Divide, Larimer County, Colorado: U.S. Geol. Survey TEI-311, pt. 1, 46 p., illus. (incl. sketch maps).
- 1953, Some features of the pitchblende deposit at the Copper King mine, Larimer County, Colorado

- [abs.]: Geol. Soc. America Bull., v. 64, no. 12, pt. 2, p. 1555-1556, (see U.S. Geol. Survey TEI-311).
- Sims, P. K., and Sheridan, D. M., 1964, Geology of uranium deposits in the Front Range, Colorado, with sections by R. U. King, F. B. Moore, D. H. Richter, and J. D. Schlottmann: U.S. Geol. Survey Bull. 1159, 116 p.
- Sims, P. K., and Tooker, E. W., 1954, Geologic maps of the Eureka Gulch area, Central City district, Gilpin County, Colorado: U.S. Geol. Survey open-file report.
- 1955, Localization of metatorbernite in altered wall rocks, Central City district, Gilpin County, Colorado [abs.]: Geol. Soc. America Bull., v. 66, no. 12, pt. 2, p. 1680.
- 1956, Pitchblende deposits in the Central City district and adjoining areas, Gilpin and Clear Creek Counties, Colorado, in Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses Atomic Energy, Geneva, 1955, Proc., v. 6, p. 265-269.
- 1956, Pitchblende deposits in the Central City district and adjoining areas, Gilpin and Clear Creek Counties, Colorado, in Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955: U.S. Geol. Survey Prof. Paper 300, p. 105-111.
- Sims, P. K., and Toulmin, Priestley, 3d, 1961, Temperature of formation of a Precambrian massive sulfide deposit, Copper King mine, Front Range, Colorado, in Short papers in the geologic and hydrologic sciences: U.S. Geol. Survey Prof. Paper 424-B, p. B1-B2.
- Sims, P. K., Drake, A. A., Jr., and Moench, R. H., 1953, Central City district, Gilpin County, in Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 94-96.
- 1953, Preliminary geologic and vein maps of part of the Central City district, Gilpin and Clear Creek Counties, Colorado: U.S. Geol. Survey TEI-304, 8 p., maps, tables.
- 1954, Preliminary geologic and vein maps of part of the Central City district, Gilpin and Clear Creek Counties, Colorado: U.S. Geol. Survey open-file rept., 8 p.
- 1963, Economic geology of the Central City district, Gilpin County, Colorado: U.S. Geol. Survey Prof. Paper 359, 231 p., illus., geol. maps.
- Sims, P. K., Harrison, J. E., and Moore, F. B., 1952, Preliminary report on 1952 investigations in the Colorado Front Range: U.S. Geol. Survey TEM-520.
- Sims, P. K., Moench, R. H., Drake, A. A., Jr., and others, 1963, Uranium deposits of the Central City-Idaho Springs mining district, Gilpin and Clear Creek Counties, Colorado: U.S. Geol. Survey TEI-359.
- Sims, P. K., Osterwald, F. W., and Tooker, E. W., 1954, Uranium deposits in the Eureka Gulch area, Central City district, Gilpin County, Colorado: U.S. Geol. Survey TEI-125, 52 p., (see U.S. Geol. Survey Bull. 1032-A).
- 1955, Uranium deposits in the Eureka Gulch area, Central City district, Gilpin County, Colorado, in Geology and ore deposits of Clear Creek, Gilpin, and Larimer Counties, Colorado: U.S. Geol. Survey Bull. 1032-A, p. 1-31, illus. (incl. geol. map).
- Sims, P. K., Phair, George, and Moench, R. H., 1955, Geology of the Copper King uranium mine, Larimer County, Colorado: U.S. Geol. Survey TEI-424, (see U.S. Geol. Survey Bull. 1032-D).
- 1958, Geology of the Copper King uranium mine, Larimer County, Colorado: U.S. Geol. Survey Bull. 1032-D, p. 171-221, illus. (incl. geol. sketch maps).
- Sims, P. K., Tooker, E. W., and Osterwald, F. W., 1954, Uranium deposits in Eureka Gulch area, Central City district, Gilpin County, Colorado [maps]: U.S. Geol. Survey TEI-125, 52 p., (3 geologic maps only).
- Sims, P. K., Young, E. J., and Sharp, W. N., 1961, Coffinite in uranium vein deposits of the Front Range, Colorado, in Short papers in the geologic and hydrologic sciences: U.S. Geol. Survey Prof. Paper 424-B, p. B3-B5, illus.
- Singewald, Q. D., 1955, Wet Mountains thorium district, Colorado, in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEI-540, p. 146-148, (sketch map).
- 1955, Sugar Loaf and St. Kevin mining districts, Lake County, Colorado, with a section on Petrography of the bedrock, by J. G. Broughton: U.S. Geol. Survey Bull. 1027-E, p. 251-299, illus. (incl. geol. sketch map) [1956].
- 1966, Description and relocation of part of the Ilse fault zone, Wet Mountains, Colorado, in Geological Survey research 1966: U.S. Geol. Survey Prof. Paper 550-C, p. C20-C24.
- Singewald, Q. D., and Brock, M. R., 1956, Thorium deposits in the Wet Mountains, Colorado, in Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc., v. 6, p. 578-581, illus.
- 1956, Thorium deposits in the Wet Mountains, Colorado, in Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat.

- Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 581-585.
- Singewald, Q. D., and Christman, R. A., 1953, Wet Mountains, Colorado, In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to: U.S. Geol. Survey TEI-390, p. 191-193, (sketch map).
- 1953, Wet Mountains, Colorado, In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 187-188.
- Singewald, Q. D., Christman, R. A., and Brock, M. R., 1953, Preliminary report on 1952 field investigations in Wet Mountains, Colorado: U.S. Geol. Survey TEM-218, 10 p., maps.
- 1956, Geologic and radiometric maps of the McKinley Mountain area, Wet Mountains, Colorado: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-3, (see U.S. Geol. Survey TEI-345, figs. 2 and 3).
- Singewald, Q. D., Wilmarth, V. R., Pierson, C. T., and others, n.d., Radioactive inclusions in Chalk Mountain rhyolite, Lake County, Colorado: U.S. Geol. Survey TEM-224.
- Singleton, A. L., Jr., 1968, Sources of nuclear fuel: U.S. Atomic Energy Comm. Understanding the Atom Series, 67 p.
- Skøet, T. H., 1962, Vanadium: Mine and Quarry Engineering, v. 28, p. 30-35.
- Slaughter, A. L., and Clabaugh, S. E., 1945, Preliminary report on trace elements reconnaissance in central and southwestern states: U.S. Geol. Survey TEI-9, 59 p., (see U.S. Geol. Survey Bull. 1107-E, 1147-B).
- Smith, C. T., 1946, Report on Uravan district, San Miguel Plateau area, Colorado: U.S. Atomic Energy Comm. RMO-439 106 p., (for abstract see NSA 31:33012).
- 1946, Report on Rifle mine locality, Grand Hogback district, White River uplift area, Colorado: U.S. Atomic Energy Comm. RMO-442 33 p., (for abstract see NSA 32:00697).
- 1955, Uranium occurrences on the Colorado Plateau, In Geology of parts of Paradox, Black Mesa, and San Juan basins: Four Corners Geol. Soc. Field Conf., Durango, Colo., p. 169-176, illus.
- 1960, From X-rays to fission, a metamorphosis in mining, In Geology of the Paradox Basin fold and fault belt: Four Corners Geol. Soc. 3d Field Conf. Guldebook, Durango, Colo., p. 109-114.
- Smith, E. E., 1974, Review of current concepts regarding vein deposits of uranium, In Formation of uranium ore deposits: Internat. Atomic Energy Agency, p. 515-529.
- Smith, J. A., 1880, Catalogue of the principal minerals of Colorado, with annotations on the local peculiarities of several species: Colorado Geol. Survey Early Report, 30 p., (first published in the Black Hawk Jour., 1865).
- Solster, P. E., Conklin, D. R., and Bowman, M. D., 1956, Bibliography and Index of U.S. Geological Survey Trace Elements and related reports through June 1956: U.S. Geol. Survey TEI-600, 533 p., (expanded version, see U.S. Geol. Survey Bull. 1107-A).
- Soule, J. H., 1960, Mining methods and costs, Schwartzwalder uranium mine, Jefferson County, Colorado: U.S. Bur. Mines Inf. Circ. 7963, 24 p.
- Spengler, R. G., Ranspot, H. W., and Smith, B. C., 1957, Airborne and ground reconnaissance of the Tomichi dome area, Gunnison County, Colorado: U.S. Atomic Energy Comm. DAO-3-TM-46 20 p., (for abstract see NSA 32:00668).
- Spirakis, C. S., 1976, The role of semipermeable membranes in the formation of certain vanadium-uranium deposits [abs.]: Internat. Geologic Congress, 25th, v. 1, p. 193.
- 1977, A theory for the origin of the Rifle-Garfield vanadium-uranium deposit, In Short papers of the U.S. Geological Survey uranium-thorium symposium, 1977: U.S. Geol. Survey Circ. 753, p. 8-9.
- 1977, The role of semipermeable membranes in the formation of certain vanadium-uranium deposits: Econ. Geology, v. 72, p. 1442-1448.
- Splitz, H. B., Cohen, N., and Wrenn, M. E., 1975, Non-occupational radiation exposures from radon-222 and daughters to residents of Grand Junction, Colorado, Annual Report, July 1, 1974 - June 30, 1975: New York Univ., New York, C00-3382-14, v. 2, Radioactivity studies, (see NSA, v. 32).
- Staatz, M. H., 1964, Miscellaneous metals -- Thorium, In Mineral and water resources of Colorado: U.S. 88th Cong., 2d sess., Comm. Print., p. 132-135.
- 1973, Thorium veins in the United States [abs.]: Mining Eng., v. 25, no. 12, p. 58.
- 1974, Thorium veins in the United States: Econ. Geology, v. 69, no. 4, p. 494-507, illus. (incl. geol. sketch maps).
- 1975, Thorium deposits in the United States, In Craig, L. C., Brooks, R. A., and Patton, P. C., eds., Abstracts of the 1975 uranium and thorium research and resources conference [abs.]: U.S. Geol. Survey Open-file Report 75-595, p. 48.
- 1976, Thorium in the United States: U.S. Geol. Survey Open-file Report 76-192, 6 p.

- 1976, Thorium resources, 1974: U.S. Geol. Survey Open-file Rept. 76-690, 5 p.
- Staatz, M. H., Adams, J. W., and Wahlberg, J. S., 1976, Brown, yellow, orange, and greenish-black thorites from the Searle pegmatite, Colorado: U.S. Geol. Survey Jour. Research, v. 4, no. 5, p. 575-582.
- Staatz, M. H., and Conklin, N. M., 1966, Rare-earth thorium carbonate veins of the Road Gulch area, northern Wet Mountains, Colorado, in Geol. Survey Research 1966: U.S. Geol. Survey Prof. Paper 550-B, p. B130-B134.
- Staatz, M. H., and Olson, J. C., 1973, Thorium, in Brobst, D. A., and Pratt, W. P., eds., Mineral resources of the United States: U.S. Geol. Survey Prof. Paper 820, p. 468-476.
- Staatz, M. H., and Trites, A. F., Jr., 1952, Geology of the Quartz Creek pegmatite district, Gunnison County, Colorado: U.S. Geol. Survey TEI-138, 272 p., maps (see U.S. Geol. Survey Prof. Paper 265).
- 1955, Geology of the Quartz Creek pegmatite district, Gunnison County, Colorado: U.S. Geol. Survey Prof. Paper 265, (see U.S. Geol. Survey TEI-138).
- Stafford, H. S., 1955, Reconnaissance for uranium in basal Triassic sediments of the State Bridge-Walcott area, Eagle County, Colorado: U.S. Atomic Energy Comm. RME-1063.
- Stager, H. K., 1949, Carnotite deposits on government - owned claims, Calamity Mesa, Mesa County, Colorado: U.S. Geol. Survey TEM-79.
- 1950, Results of diamond-drill exploration in 1949 and plans for additional drilling on Outlaw Mesa and vicinity, Mesa County, Colorado: U.S. Geol. Survey TEM-103, 11 p., maps, figures.
- 1950, Carnotite resources of the Maverick group area, Mesa County, Colorado: U.S. Geol. Survey TEI-117, 38 p., (see U.S. Geol. Survey TEI-690).
- 1951, Carnotite resources of the Calamity group area, Mesa County, Colorado: U.S. Geol. Survey TEI-146, 30 p., maps, tables, (see U.S. Geol. Survey TEI-690).
- 1952, Plans for the Geological Survey's development drilling program, Colorado Plateau: U.S. Geol. Survey TEM-332, 18 p., figures.
- 1953, Results of the Geological Survey's Colorado Plateau development-drilling program for the period May 5 to Dec. 31, 1952: U.S. Geol. Survey TEM-491, 4 p., figures, tables.
- 1970, Maps showing locations of holes drilled in 1948 and 1949 by U.S. Geological Survey, Calamity Mesa, Mesa County, Colorado: U.S. Geol. Survey open-file report, 2 p., (3 maps, 1 fig.).
- Stahl, R. L., 1974, Detection and delineation of faults by surface resistivity measurements, Schwartzwalder mine, Jefferson County, Colorado: U.S. Bur. Mines Rept. Inv. 7975, 27 p.
- Stephens, H. G., 1950, Diamond-drill exploration in Long Park and vicinity, Montrose County, Colorado: U.S. Geol. Survey TEM-110, 12 p., maps.
- 1951, Preliminary reserve statement 12, Reserve Block B, Long Park vicinity, Montrose County, Colorado: U.S. Geol. Survey TEM-188, 3 p., tables, figures.
- Stephens, H. G., and Cramer, M. A., 1951, Preliminary reserve statement 17, Reserve Blocks C and D, Long Park area, Montrose County, Colorado: U.S. Geol. Survey TEM-193, 4 p., tables, figures.
- Stephens, H. G., and Ekren, E. B., 1952, Preliminary report on diamond-drill exploration and plans for additional drilling in Long Park and vicinity, Montrose County, Colorado: U.S. Geol. Survey TEM-297, 7 p., figures.
- Stephens, H. G., and Newman, W. L., 1951, Preliminary report on diamond-drill exploration and plans for additional drilling in Long Park and vicinity, Montrose County, Colorado: U.S. Geol. Survey TEM-201, 8 p., maps, figures.
- Stern, T. W., and Stieff, L. R., 1953, Preliminary description of coffinite - a new uranium mineral: U.S. Geol. Survey TEM-647, (See Geol. Soc. America Bull. v. 66, no. 12, pt. 2, p. 1621).
- 1956, Radium-uranium equilibrium and radium-uranium ages of some Colorado Plateau secondary minerals: U.S. Geol. Survey TEI-482, (see U.S. Geol. Survey Prof. Paper 320, p. 151-156).
- 1959, Radium-uranium equilibrium and radium-uranium ages of some secondary minerals, in Garrels, R. M., and Larsen, E. S., compilers, Geochemistry and mineralogy of the Colorado Plateau uranium ores: U.S. Geol. Survey Prof. Paper 320, p. 151-156, illus.
- Stern, T. W., Stieff, L. R., Girland, M. N., and Meyrowitz, Robert, 1954, The occurrence and properties of metatyuyamunite, $\text{Ca}(\text{UO}_2)_2(\text{VO}_4)_2 \cdot 3 - 5 \text{H}_2\text{O}$: U.S. Geol. Survey TEI-457, 27 p., (see Am. Mineralogist, v. 41, nos. 3, 4, p. 187-201).
- 1955, Coffinite, $\text{U}(\text{SiO}_4)_1\text{-X}(\text{OH})_4\text{X}$, its widespread occurrence in unoxidized uranium ores and its properties [abs.]: Geol. Soc. America Bull., v. 66, no. 12, pt. 2, p. 1621.
- 1956, The occurrence and properties of metatyuyamunite, $\text{Ca}(\text{UO}_2)_2(\text{VO}_4)_2 \cdot 3 - 5 \text{H}_2\text{O}$: Am. Mineralogist, v. 41, nos. 3, 4, p. 187-201, (see U.S. Geol. Survey TEI-457).
- 1957, Doloresite, a new vanadium oxide mineral from the Colorado Plateau: Am. Mineralogist,

- v. 42, p. 587-593.
- 1957, Doloresite, a new vanadium oxide mineral from the Colorado Plateau: U.S. Geol. Survey TEI-656, 15 p., (see *Am. Mineralogist*, 1957, v. 42, p. 587-593).
- Steven, T. A., Lipman, P. W., Fisher, F. S., and others, 1973, Mineral resources of study areas contiguous to the Uncompahgre primitive area, San Juan Mountains, Colorado: U.S. Geol. Survey open-file report, 205 p., maps.
- Steven, T. A., Schmitt, L. J. Jr., Sheridan, M. J., and Williams, F. E., 1969, Mineral resources of the San Juan primitive area, Colorado, with a section on iron resources in the Irving Formation, by G. E. Galr and Harry Klémic: U.S. Geol. Survey Bull. 1261, 187 p.
- Stevens, D. N., Rouse, G. E., and De Voto, R. H., 1970, Radon in soil gas: three uranium exploration case histories in the western United States, [abs.] In *International Geochemical Exploration Symposium, 3rd, Program and Abstracts: Canada Inst. Mining Metall., Geol. Div., Soc. Econ. Geology, Toronto*, p. 57.
- 1971, Radon-222 in soil gas: three uranium exploration case histories in the western United States, In *Geochemical Exploration (International Geochemical Exploration Symposium, 3rd, Proc.): Ser. Hydrol., no. 11, France, Office. Recherches. Sci. Tech. Outre-Mer, Cah., p. 258-264, illus. (Incl. sketch maps).*
- Stewart, J. H., 1953, Interim report on exploration of the Moon Mesa and Horse Mesa areas, Mesa and Montrose Counties, Colorado: U.S. Geol. Survey TEM-299, 7 p., figures.
- 1953, Carnotite resources of the Moon Mesa and Horse Mesa area, Mesa and Montrose Counties, Colorado: U.S. Geol. Survey TEI-165, 41 p., maps, tables, (see U.S. Geol. Survey TEI-690).
- 1955, Stratigraphic studies, Triassic studies (Arizona, Colorado, Nevada, Utah), In *Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955*: U.S. Geol. Survey TEI-590, p. 77-79.
- 1956, Triassic studies [Colorado Plateau], In *Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956*: U.S. Geol. Survey TEI-620, p. 94-100, sketch map.
- 1956, Triassic strata of southeastern Utah and southwestern Colorado, In *Geology and economic deposits of east central Utah, 7th Annual Field Conference: Salt Lake City, Utah, Intermtn. Assoc. Petroleum Geologists*, p. 85-92, illus.
- Stewart, J. H., and Wilson, R. F., 1960, Triassic strata of the salt anticline region, Utah and Colorado, In *Geology of the Paradox basin fold and fault belt: Four Corners Geol. Soc. 3d Field Conf. Guidebook, Durango, Colorado*, p. 98-106, illus.
- Stewart, J. H., Mullens, T. E., and Williams, G. A., 1954, Distribution of the Hoskinnini tongue of the Cutler formation in southeastern Utah and adjoining parts of Arizona and Colorado: U.S. Geol. Survey TEM-803, (see *Am. Assoc. Petroleum Geologists Bull.*, v. 43, p. 1852-1868).
- Stewart, J. H., Poole, F. G., and Wilson, R. F., 1956, Triassic studies [Colorado Plateau], In *Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956*: U.S. Geol. Survey TEI-640, p. 161-176, illus. (Incl. sketch maps).
- 1957, Triassic studies [Colorado Plateau], In *Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1956, to May 31, 1957*: U.S. Geol. Survey TEI-690, Book 2, p. 341-351, illus. (Incl. sketch maps).
- 1958, Triassic studies, In *Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1957, to May 31, 1958*: U.S. Geol. Survey TEI-740, p. 130-139.
- 1958, Stratigraphy and origin of major lithologic units of the upper Triassic series on the Colorado Plateau [abs.]: *Geol. Soc. America Bull.*, v. 69, no. 12, pt. 2, p. 1746.
- 1972, Stratigraphy and origin of the Triassic Moenkopi Formation and related strata in the Colorado Plateau region, with a section on Sedimentary petrology, by R. A. Cadigan: U.S. Geol. Survey Prof. Paper 691, 195 p.
- 1972, Stratigraphy and origin of the Chinle formation and related Upper Triassic strata in the Colorado Plateau region, with a section on Sedimentary petrology, by William Thordarson, H. F. Albee, and J. H. Stewart: U.S. Geol. Survey Prof. Paper 690, 336 p.
- Stewart, J. H., Williams, G. A., Albee, H. F., and others, 1956, Stratigraphy of Triassic and associated formations in part of the Colorado Plateau region: U.S. Geol. Survey TEI-397, 158 p., (see U.S. Geol. Survey Bull. 1046-Q).
- 1959, Stratigraphy of Triassic and associated formations in part of the Colorado Plateau region, with a section on Sedimentary petrology, by R. A. Cadigan: U.S. Geol. Survey Bull. 1046-Q, p. 487-576.
- Stieff, L. R., 1948, Carnotite mineralogical research: U.S. Geol. Survey TEM-57.
- 1948, A progress report on some methods of study of the mineralogy of the Colorado Plateau carnotites: U.S. Geol. Survey TEM-68.
- 1949, Progress on carnotite mineralogy: U.S. Geol. Survey TEM-90.

- 1949, Program of study for the carnotite ores of the Colorado Plateau: U.S. Geol. Survey TEI-92, 13 p.
- Stieff, L. R., and Erickson, E. S., Jr., 1953, An air concentrator for very low grade Colorado Plateau uranium ores: U.S. Geol. Survey TEI-307, 13 p.
- Stieff, L. R., and Stern, T. W., 1951, The identification and lead-uranium ratio ages of massive uraninite from the Shinarump conglomerate, Utah: U.S. Geol. Survey TEM-317, (see Chem Abs. v. 46, no. 17, p. 7943; Science, v. 115, p. 706-708).
- 1952, The identification and lead-uranium ratio ages of massive uraninites from the Shinarump conglomerate, Utah: Science, v. 115, p. 706-708, See U.S. Geol. Survey TEM-317.
- 1952, The identification and lead-uranium ratio ages of massive uraninites from the Shinarump conglomerate, Utah [abs.]: Chem. Abs., v. 46, no. 17, p. 7943, (see U.S. Geol. Survey TEM-317).
- 1953, Isotope geology of the Colorado Plateau ores, In Trace elements research-Quarterly progress reports, June 1 to March 31, 1952: U.S. Geol. Survey TEI-270, pt. 1, p. 53-54.
- 1953, Lead-uranium ages of some uraninites from Triassic and Jurassic sedimentary rocks of the Colorado Plateau [abs.]: Am. Mineralogist, v. 38, nos. 3-4, p. 359-360.
- 1953, Isotope geology of the Colorado Plateau ores, In Trace elements research-Quarterly progress report, April 1 to June 30, 1952: U.S. Geol. Survey TEI-280, p. 82-86.
- 1953, Isotopic composition of lead in lead minerals from the Colorado Plateaus [abs.]: Geol. Soc. America Bull., v. 64, no. 12, pt. 2, p. 1478-1479.
- 1953, The lead-uranium ages of some uraninite specimens from Triassic and Jurassic sedimentary rocks of the Colorado Plateau: U.S. Geol. Survey TEI-322, 15 p., (see Geol. Soc. America Bull. v. 63, no. 12, pt. 2, p. 1299).
- 1954, Isotopic composition of lead in lead minerals from the Colorado Plateau [abs.]: Am. Mineralogist, v. 39, nos. 3, 4, p. 345.
- 1959, Isotopic study of some Colorado Plateau ores [disc.]: Econ. Geology, v. 54, no. 4, p. 752.
- Stieff, L. R., Girhard, M. N., and Stern, T. W., 1949, Study of radioactive equilibrium in carnotite ores of the Colorado Plateau: U.S. Geol. Survey TEI-106, 18 p.
- 1950, A preliminary report on methods of determining the age of Colorado Plateau carnotite: U.S. Geol. Survey TEI-108.
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1952, A preliminary determination of the age of some Colorado Plateau uranium ores by the lead-uranium and lead-lead ratio method [abs.]: Econ. Geology, v. 47, no. 1, p. 123.
- 1953, A preliminary determination of the age of some uranium ores of the Colorado Plateaus by the lead-uranium method: U.S. Geol. Survey Circ. 271, 19 p., illus. (see U.S. Geol. Survey TEI-268).
- 1953, A preliminary determination of the age of some Colorado Plateau uranium ores by the lead-uranium method: U.S. Geol. Survey TEI-268, 50 p., (see U.S. Geol. Survey Circ. 271).
- 1955, Coffinite, a uranous silicate with hydroxyl substitution; a new mineral: U.S. Geol. Survey TEI-538, (see Am. Mineralogist, v. 41, p. 675-688).
- 1955, Coffinite, a uranous silicate with hydroxyl substitution; a new mineral [sum.]: Science, v. 121, no. 3147, p. 608-609.
- 1956, Coffinite, a uranous silicate with hydroxyl substitution; a new mineral: Am. Mineralogist, v. 41, no. 9-10, p. 675-688, illus.
- Stocking, H. E., and Page, L. R., 1956, Natural occurrence of uranium in the United States - a summary, In Geology of uranium and thorium: U.N. Internat. Conf. on Peaceful Uses of Atomic Energy Geneva, 1955, Proc., v. 6, p. 211-216.
- 1956, Natural occurrence of uranium in the United States - a summary, In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955: U.S. Geol. Survey Prof. Paper 300, p. 5-12.
- Stokes, W. L., 1944, Morrison Formation and related deposits in and adjacent to the Colorado Plateau: Geol. Soc. America Bull., v. 55, no. 8, p. 951-992.
- 1948, Geology of the Utah-Colorado salt dome region with emphasis on Gypsum Valley, Colorado: Utah Geol. Soc., Guidebook to the Geology of Utah, no. 3, 50 p.
- 1952, Lower Cretaceous in Colorado Plateau: Am. Assoc. Petroleum Geologists Bull., v. 36, no. 9, p. 1766-1776, illus.
- 1953, Progress report on relation of sedimentary features of the Salt Wash sandstone to tectonic elements and uranium mineralization [Colorado Plateau]: U.S. Atomic Energy Comm. RME-3058, 5 p.
- 1953, Sedimentary patterns and uranium mineralization in the Morrison formation of the Colorado Plateau [abs.]: Geol. Soc. America Bull., v. 64, no. 12, pt. 2, p. 1516.
- 1954, Cyclical deposition of fluvial sediments [Colorado Plateau] [abs.]: Geol. Soc. America Bull., v. 65, no. 12, pt. 2, p. 1309.

- 1954, Some stratigraphic, sedimentary and structural relations of uranium deposits in the Salt Wash sandstone; final report [Colorado Plateau]: U.S. Atomic Energy Comm. RME-3102, 50 p., illus. (incl. sketch map).
- 1958, Continental sediments of the Colorado Plateau, In *Guldebook to the geology of the Paradox basin*: Intermtn. Assoc. Petroleum Geologists, 9th Ann. Field Conf., Salt Lake City, Utah, p. 26-30, illus.
- 1960, Fluvial and eolian sandstone bodies in Colorado Plateau [abs.]: *Am. Assoc. Petroleum Geologists Bull.*, v. 44, no. 7, p. 1257.
- Stokes, W. L., and Fischer, R. P., 1945, Vanadium deposits in the Gateway area, Mesa County, Colorado, and the adjoining part of Grand County, Utah: U.S. Dept. Interior Press Memo. 112326, map.
- Stokes, W. L., and Phoenix, D. A., 1948, Geology of the Egnar-Gypsum Valley area, San Miguel and Montrose Counties, Colorado [map]: U.S. Geol. Survey Oil and Gas Inv. Prelim. Map 93, (with text).
- Stokes, W. L., Russell, R. T., Fischer, R. P., and Butler, A. P., Jr., 1945, Geologic map of the Gateway area, Mesa County, Colorado, and adjoining part of Grand County, Utah: U.S. Geol. Survey Strategic Minerals Inv. Prelim. Map 3-17, scale 1:63,360 (with text).
- Strobell, J. D., Jr., 1953, Ore distribution study [Colorado], In *Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953*: U.S. Geol. Survey TEI-390, p. 42-43.
- 1953, Grade distribution studies [Colorado Plateau], In *Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953*: U.S. Geol. Survey TEI-330, p. 59.
- Strobell, J. D., Jr., Sample, R. D., Stephens, H. G., and Gilbert, C. C., 1954, Preliminary analysis of ore distribution in the Gateway and Uravan districts, Mesa and Montrose Counties, Colorado: U.S. Geol. Survey TEM-632.
- Stugard, Frederick, Jr., Wyant, D. G., and Gude, A. J., 3d, 1951, Secondary uranium deposits in the United States [abs.]: *Geol. Soc. America Bull.*, v. 62, no. 12, pt. 2, p. 1512, (see U.S. Geol. Survey TEI-168).
- 1952, Secondary uranium deposits in the United States, In *Selected papers on uranium deposits in the United States*: U.S. Geol. Survey Circ. 220, p. 19-25, (maps) [1953].
- Swanson, V. E., 1956, Uranium in marine black shales of the United States, In *Geology of uranium and thorium*: U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc., v. 6, p. 430-434.
- 1956, Uranium in marine black shales of the United States, In *Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, Switzerland, 1955*: U.S. Geol. Survey Prof. Paper 300, p. 451-456.
- 1958, Oil yield and uranium content of black shales: U.S. Geol. Survey TEI-205, 5 p., (see U.S. Geol. Survey Prof. Paper 356-A).
- 1958, The oil yield and uranium content of some black shales: U.S. Geol. Survey TEI-205, (see U.S. Geol. Survey Prof. Paper 356-A).
- 1960, Oil yield and uranium content of black shales: U.S. Geol. Survey Prof. Paper 356-A, p. 1-44.
- Swenson, F. A., 1974, Rates of salt solution in the Permian basin: U.S. Geol. Survey Jour. Research, v. 2, no. 2, p. 253-257.
- Tatsch, J. H., 1976, Uranium deposits--origin, evolution, and present characteristics: Sudbury, Massachusetts, Tatsch Associates.
- Tavelli, J. A., 1951, Review of airborne radioactivity survey techniques in the Colorado Plateau: U.S. Atomic Energy Comm. RMO-697, 12 p.
- Taylor, R. B., 1975, Geologic map of the Black Hawk quadrangle, Gilpin, Jefferson and Clear Creek Counties, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-1248.
- Temple, A. K., and Grogan, R. M., 1963, Carbonatite and related alkalic rocks at Powderhorn, Colorado [abs.]: *Mining Eng.*, v. 15, no. 11, p. 59.
- 1963, Carbonatite and related alkalic rocks at Powderhorn, Colorado [abs.]: *Econ. Geology*, v. 58, no. 8, p. 1370-1371.
- 1965, Carbonatite and related alkalic rocks at Powderhorn, Colorado: *Econ. Geology*, v. 60, no. 4, p. 672-692, (illus., tables).
- Thaden, R. E., and Kirk, A. R., 1975, Sandstone district studies [abs.], In *Craig, L. C., Brooks, R. A., and Patton, P. C., eds., Abstracts of the 1975 uranium and thorium research and resources conference*: U.S. Geol. Survey open-file report 75-595, p. 50.
- Theobald, P. K., and Gullinger, R. R., 1955, A radioactive copper-bearing shear zone in the vicinity of the F. M. D. mine, Jefferson County, Colorado, In *Geologic Investigations of radioactive deposits - Semiannual progress report for June 1 to Nov. 30, 1955*: U.S. Geol. Survey TEI-590, p. 202-212.
- Theobald, P. K., and King, R. U., 1954, Colorado-Wyoming district, In *Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1954*: U.S. Geol. Survey TEI-490, p. 223-225.

- Theobald, P. K., Jr., 1971, Preliminary geologic map of the north half of the Craig quadrangle, Moffat County, Colorado: U.S. Geol. Survey open-file report, 1 sheet, (scale 1:96,000).
- Theobald, P. K., Jr., and Chew, R. T., 3d, 1955, Geology and uranium deposits of part of the Browns Park formation, Colorado, Wyoming, and Utah - a preliminary report: U.S. Geol. Survey TEI-423, 39 p., tables, maps, (see U.S. Geol. Survey TEI-690).
- Theobald, P. K., Jr., and Thompson, C. E., 1959, Reconnaissance exploration by analysis of heavy mineral concentrates; Colorado [abs.]: Mining Eng., v. 11, no. 1, p. 40.
- Thomas, Kirby, 1912, Vanadium in southwestern Colorado: Mining Sci. Press, v. 104, p. 168.
- Thompson, C. E., and Lakin, H. W., 1957, A field chromatographic method for determination of uranium in soils and rocks: U.S. Geol. Survey Bull. 1036-L, p. 209-220.
- Thompson, M. E., and Roach, C. H., 1955, Mineralogy of the Peanut mine, Montrose County, Colorado [abs.]: Econ. Geology, v. 50, no. 7, p. 794, (see U.S. Geol. Survey TEI-512).
- 1955, Mineralogy of the Peanut mine, Montrose County, Colorado [abs.]: Geol. Soc. America Bull., v. 66, no. 12, pt. 2, p. 1625-1626, (see U.S. Geol. Survey TEI-512).
- Thompson, M. E., and Sherwood, A. M., 1959, Delrioite, a new calcium strontium vanadate from Colorado: Am. Mineralogist, v. 44, nos. 3-4, p. 261-264, (incl. tables).
- Thompson, M. E., Roach, C. H., and Meyrowitz, R., 1956, Duttonite, a new quadrivalent vanadium oxide from the Peanut mine, Montrose County, Colorado: U.S. Geol. Survey TEI-582, (Am. Mineralogist, v. 42, p. 455-460).
- 1956, Duttonite, a new vanadium mineral from the Peanut mine, Montrose County, Colorado: Science, v. 123, no. 3205, p. 990.
- 1956, New occurrences of native selenium [South Dakota, Colorado Plateau] [note]: Am. Mineralogist, v. 41, nos. 1-2, p. 156-157.
- 1957, Simplotite, a new quadrivalent vanadium mineral from the Colorado Plateau: U.S. Geol. Survey TEI-641, (see Am. Mineralogist, v. 42, p. 16-24).
- 1957, Sherwoodite, a mixed vanadium (IV) - vanadium (V) mineral from the Colorado Plateau: U.S. Geol. Survey TEI-694, (see Am. Mineralogist, v. 43, p. 749-755).
- 1957, Duttonite, a new quadrivalent vanadium oxide from the Peanut mine, Montrose County, Colorado: Am. Mineralogist, v. 42, p. 455-460.
- 1958, Simplotite, a new quadrivalent vanadium mineral from the Colorado Plateau: Am. Mineralogist, v. 43, no. 1-2, p. 16-24, illus. (summary in Science, 1956, v. 123, no. 3207, p. 1078).
- 1958, Sherwoodite, a mixed vanadium (IV)-vanadium (V) mineral from the Colorado Plateau: Am. Mineralogist, v. 43, no. 7-8, p. 749-755, illus.
- Thurston, W. R., 1950, Exploration of the Big Boulder prospect, Larimer County, Colorado: U.S. Geol. Survey TEM-106, (see U.S. Geol. Survey Bull. 1011).
- 1950, Exploration of the Hyatt pegmatite, Larimer County, Colorado: U.S. Geol. Survey TEM-105, (see U.S. Geol. Survey Bull. 1011).
- 1950, Exploration of the Buckhorn mica mine, Larimer County, Colorado: U.S. Geol. Survey TEM-104, (see U.S. Geol. Survey Bull. 1011).
- 1952, Pegmatites of the Crystal Mountain district, Larimer County, Colorado: U.S. Geol. Survey TEI-139, 167 p., maps, tables. (see U.S. Geol. Survey Bull. 1011).
- 1955, Pegmatites of the Crystal Mountain district, Larimer County, Colorado: U.S. Geol. Survey Bull. 1011, 185 p., (see U.S. Geol. Survey TEI-139, TEM-104, 105, 106).
- Tom, C. W., 1966, Area economic map of the Verdure quadrangle, San Juan County, Utah; San Miguel, Dolores, and Montezuma Counties, Colorado [map]: U.S. Atomic Energy Comm. open-file map.
- Tooker, E. W., 1953, Wall-rock alteration investigation [Colorado], in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 106-107.
- 1955, Investigation of wall-rock alteration, Central City and Idaho Springs district, Gilpin and Clear Creek Counties, Colorado: Geol. Soc. America Bull., v. 66, no. 12, pt. 2, p. 1682.
- 1956, Altered wall rocks along vein deposits in the Central City-Idaho Springs region, Colorado: Natl. Research Council Pub. 456, p. 348-361.
- 1963, Altered wallrocks in the central part of the Front Range mineral belt, Gilpin and Clear Creek Counties, Colo.: U.S. Geol. Survey Prof. Paper 439, 102 p. [1964].
- Torrey, J. D., and Jacob, P. W., 1955, Uranium mining operations on the Colorado Plateau: Arch. Ind. Health, v. 12, p. 375-377.
- Tourtelot, H. A., 1955, Radioactivity and uranium content of some Cretaceous shales, central Great Plains: U.S. Geol. Survey TEI-298, (see Am. Assoc. Petroleum Geologists Bull., v. 40, no. 1, p. 62-83).
- 1956, Radioactivity and uranium content of some Cretaceous shales, central Great Plains:

- Am. Assoc. Petroleum Geologists Bull., v. 40, no. 1, p. 62-83, (see U.S. Geol. Survey TEI-298).
- Tovote, W. L., 1906, Das Pechblende-Vorkommen in Gilpin County, Colorado [The pitchblende occurrence in Gilpin County, Colorado]: Austria, Z. Bergwirtsch. Huetttenwes., v. 54, p. 223-224.
- 1906, Ein Ausflug durch Boulder County, Colorado [An expedition through Boulder County, Colorado]: Austria, Z. Bergwirtsch. Huetttenwes., v. 54, p. 281-283.
- Trace, R. D., 1949, Results of drilling on the Radium group and associated claims near Egnar, San Miguel County, Colorado: U.S. Geol. Survey TEM-80.
- 1950, Carnotite resources in the Radium group area, San Miguel County, Colorado: U.S. Geol. Survey TEI-113, 29 p., (see U.S. Geol. Survey TEI-690).
- 1950, Preliminary reserve statement 1, Reserve Block 1, Club Mesa, Montrose County, Colorado: U.S. Geol. Survey TEM-176, 1 p., tables, map.
- 1950, Preliminary reserve statement 2, Reserve Blocks 3 and 4, Club Mesa, Montrose County, Colorado: U.S. Geol. Survey TEM-177, 1 p., map, tables.
- 1950, Preliminary reserve statement 6, Reserve Blocks 1, 2, and 3, Veta Mad and Veta Glad claims, Georgetown group, San Miguel County, Colorado: U.S. Geol. Survey TEM-181, 14 p., map, tables.
- 1950, Preliminary reserve statement 7, Reserve Blocks 5, 6, and 7, Georgetown claim, Georgetown group, San Miguel County, Colorado: U.S. Geol. Survey TEM-182, 21 p., tables, map.
- 1950, Preliminary reserve statement 8, Reserve Block 2, Club Mesa, Montrose County, Colorado: U.S. Geol. Survey TEM-184, 10 p., tables, figures.
- 1950, Preliminary reserve statement 9, Reserve Block A, Outlaw Mesa, Mesa County, Colorado: U.S. Geol. Survey TEM-185, 21 p., tables, figures.
- 1950, Preliminary reserve statement 3, Reserve Block 5, (east part), Club Mesa, Montrose County, Colorado: U.S. Geol. Survey TEM-178, 1 p., maps, tables.
- 1950, Preliminary reserve statement 4, Reserve Block 5, (west part), Club Mesa, Montrose County, Colorado: U.S. Geol. Survey TEM-179, 1 p., map, tables.
- 1952, Uranium and vanadium resources of the Slick Rock district, San Miguel County, Colorado: U.S. Geol. Survey TEI-162, 21 p., maps, tables. (see U.S. Geol. Survey TEI-690; U.S. Geol. Survey Mineral Inv. Field Studies Map MF-241).
- Trautwein, C. M., 1975, Detailed Precambrian stratigraphic, structural and metamorphic petrology of the Eldorado Springs and Ralston Buttes quadrangles, Jefferson and Boulder Counties, Colorado: Colorado School Mines Ph.D. thesis (in progress).
- Tripp, R. M., 1944, Radon survey of the Fort Collins anticline [Colorado] [abs.]: Dallas Dig., Dallas, Texas, p. 67.
- 1956, Trends in the philosophy of occurrence and exploration for uranium [Colorado Plateau]: Mining Cong. Jour., v. 42, no. 7, p. 56-59, illus.
- Trites, A. F., Jr., and others, n.d., Geologic Investigations in the White Canyon, San Juan County, Utah: U.S. Geol. Survey TEI-205, (see U.S. Geol. Survey Prof. Paper 356-A).
- Trotter, James, and Barnes, W. H., 1958, The structure of vanadinite: Canadian Mineralogist, v. 6, pt. 2, p. 161-173.
- Twenhofel, W. S., and Buck, K. L., 1956, Geology of thorium deposits in the United States, in Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, U.S. Geol. Survey Prof. Paper 300, p. 559-566.
- 1956, Geology of thorium deposits in the United States, in Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy Geneva, 1955, Proc., v. 6, p. 562-567.
- Tweto, Ogden, Bryant, Bruce, and Williams, F. E., 1970, Mineral resources of the Gore Range-Eagles Nest Primitive Area and vicinity, Summit and Eagle Counties, Colo.: U.S. Geol. Survey Bull. 1319-C, 127 p.
- Tyzack, C., 1959, A critical review on the chemistry and extraction of vanadium: U. K. Atomic Energy Authority, Ind. Group R and DB (C) TN-83, 37 p.
- U.S. Atomic Energy Commission, and U.S. Geological Survey, 1951, Prospecting for uranium: U.S. Govt. Printing Office, 128 p.
- 1956, Techniques for prospecting for uranium and thorium, in Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy Geneva, 1955, Proc., v. 6, p. 752-755, (see U.S. Geol. Survey Prof. Paper 300, p. 621-625).
- 1959, An analysis of the current and long-term availability of uranium and thorium raw materials for atomic energy development: U.S. Atomic Energy Comm. TID-8201, 7 p., (Div. of Raw Materials).
- 1959, Guidebook of uranium deposits of western United States: U.S. Atomic Energy Comm. RME-141, (for abstract see NSA 31:33009).

- 1966, U.S. Atomic Energy Commission airborne radiometric reconnaissance in Arkansas, Colorado, Montana, Texas and Utah, 1952 to 1955: U.S. Atomic Energy Comm. RME-148.
- 1966, Designs and descriptions of mechanical samplers in use at Grand Junction, Colorado: U.S. Atomic Energy Comm. RMO-3007 22 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Arapahoe County: U.S. Atomic Energy Comm. PB-172 524, 2 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Archuleta County: U.S. Atomic Energy Comm. PB-172 525, 3 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Baca County: U.S. Atomic Energy Comm. PB-172 526, 8 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Bent County: U.S. Atomic Energy Comm. PB-172 527, 16 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Boulder County: U.S. Atomic Energy Comm. PB-172 528, 72 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Chaffee County: U.S. Atomic Energy Comm. PB-172 529, 47 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Clear Creek County: U.S. Atomic Energy Comm. PB-172 530, 131 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Conejos County: U.S. Atomic Energy Comm. PB-172 531, 2 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Costilla County: U.S. Atomic Energy Comm. PB-172 532, 8 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Custer County: U.S. Atomic Energy Comm. PB-172 533, 32 p.
- 1966, Preliminary reconnaissance reports on reported occurrences on uranium deposits, Colorado, Denver County: U.S. Atomic Energy Comm. PB-172 534, 3 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Dolores County: U.S. Atomic Energy Comm. PB-172 535, 4 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Douglas County: U.S. Atomic Energy Comm. PB-172 536, 10 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Eagle County: U.S. Atomic Energy Comm. PB-172 537, 23 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Elbert County: U.S. Atomic Energy Comm. PB-172 538, 4 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, El Paso County: U.S. Atomic Energy Comm. PB-172 539, 18 p.
- 1966, Preliminary reconnaissance reports of reported occurrences of uranium deposits, Colorado, Fremont County: U.S. Atomic Energy Comm. PB-172 540, 44 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Garfield County: U.S. Atomic Energy Comm. PB-172 541, 4 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Gilpin County: U.S. Atomic Energy Comm. PB-172 542, 47 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Grand County: U.S. Atomic Energy Comm. PB-172 543, 36 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Gunnison County: U.S. Atomic Energy Comm. PB-172 544, 50 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Hinsdale County: U.S. Atomic Energy Comm. PB-172 545, 4 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Huerfano County: U.S. Atomic Energy Comm. PB-172 546, 25 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Jackson County: U.S. Atomic Energy Comm. PB-172 547, 15 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Jefferson County: U.S. Atomic Energy Comm. PB-172 548, 66 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Lake County: U.S. Atomic Energy Comm. PB-172 549, 51 p.

- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, La Plata County: U.S. Atomic Energy Comm. PB-172 550, 13 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Larimer County: U.S. Atomic Energy Comm. PB-172 551, 15 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Las Animas County: U.S. Atomic Energy Comm. PB-172 552, 23 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Mesa County: U.S. Atomic Energy Comm. PB-172 553, 8 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Mineral County: U.S. Atomic Energy Comm. PB-172 554, 2 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Moffat County: U.S. Atomic Energy Comm. PB-172 555, 95 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Montezuma County: U.S. Atomic Energy Comm. PB-172 556, 38 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Montrose County: U.S. Atomic Energy Comm. PB-172 557, 6 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Otero County: U.S. Atomic Energy Comm. PB-172 558, 7 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Ouray County: U.S. Atomic Energy Comm. PB-172 559, 44 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Park County: U.S. Atomic Energy Comm. PB-172 560, 54 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Pitkin County: U.S. Atomic Energy Comm. PB-172 561, 22 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Prowers County: U.S. Atomic Energy Comm. PB-172 562, 3 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Pueblo County: U.S. Atomic Energy Comm. PB-172 563, 8 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Rio Blanco County: U.S. Atomic Energy Comm. PB-172 564, 2 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Rio Grande County: U.S. Atomic Energy Comm. PB-172 565, 2 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Routt County: U.S. Atomic Energy Comm. PB-172 566, 14 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Saguache County: U.S. Atomic Energy Comm. PB-172 567, 32 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, San Juan County: U.S. Atomic Energy Comm. PB-172 568, 34 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, San Miguel County: U.S. Atomic Energy Comm. PB-172 569, 28 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Summit County: U.S. Atomic Energy Comm. PB-172 570, 8 p.
- 1966, Preliminary reconnaissance reports on reported occurrences of uranium deposits, Colorado, Teller County: U.S. Atomic Energy Comm. PB-172 571, 7 p.
- 1968, Statistical data of the uranium industry, January 2, 1968: U.S. Atomic Energy Comm. GJO-100 37 p.
- 1969, Statistical data of the uranium industry: U.S. Atomic Energy Comm. GJO-100, 42 p.
- 1969, Availability of U.S. Atomic Energy Comm. geology-mineralogy reports: U.S. Atomic Energy Comm. PB-187559 117 p.
- 1969, Selected topical references relating to uranium exploration: U.S. Atomic Energy Comm. PB-187560 30 p.
- 1970, Statistical data of the uranium industry: U.S. Atomic Energy Comm. GJO-100, 52 p.
- 1971, Report on the nuclear industry, 1971: U.S. Atomic Energy Comm. RCD-1, 199 p.
- 1972, Uranium exploration expenditures in 1971 and plans for 1972-73: U.S. Atomic Energy Comm. GJO-103, 7 p.
- 1972, Statistical data of the uranium industry: U.S. Atomic Energy Comm. GJO-100, 63 p.
- 1972, Uravan mineral belt - general description,

U.S. ATOMIC ENERGY COMMISSION

road logs, maps, stratigraphic columns, typical rocks, historical notes: U.S. Atomic Energy Comm. open-file report, 12 p.

— 1972, Status of nuclear power plants: U.S. Atomic Energy Comm. Press Release 589, 1 p.

— 1972, Selected bibliography on radioactive occurrences in Colorado: U.S. Atomic Energy Comm. TID-26256, 17 p.

— 1972, Leasing of Atomic Energy Comm. controlled uranium bearing lands, Colorado, Utah, New Mexico. Environmental statement: U.S. Atomic Energy Comm. WASH-1523 (72), 130 p.

— 1973, Survey of United States uranium marketing activity: U.S. Atomic Energy Comm. WASH-1196(73), 21 p.

— 1973, Production capability of the U.S. uranium mining industry: U.S. Atomic Energy Comm. GJO-106(73), 8 p.

— 1973, Nuclear fuel resource evaluation concepts, uses, limitations: U.S. Atomic Energy Comm. GJO-105(73), 25 p.

— 1973, Uranium exploration expenditures in 1972 and plans for 1973-74: U.S. Atomic Energy Comm. GJO-103(73), 8 p.

— 1973, Statistical data of the uranium industry: U.S. Atomic Energy Comm. GJO-100(73), 65 p.

— 1973, U.S. Atomic Energy Comm. nuclear industry seminar: U.S. Atomic Energy Comm. GJO-108(74), 293 p.

— 1973, Potential uranium resources of the western United States: U.S. Atomic Energy Comm. GJO-104(73), 7 p.

— 1974, Uranium industry seminar: U.S. Atomic Energy Comm. GJO-108(74), 2 volumes, 178 p. and 109 p.

— 1974, Survey of United States uranium marketing activity: U.S. Atomic Energy Comm. WASH-1196(74), 23 p.

— 1974, Uranium leaching bibliography: U.S. Atomic Energy Comm. GJO-107(74), 8 p.

— 1974, Uranium exploration expenditures in 1973 and plans for 1974-75: U.S. Atomic Energy Comm. GJO-103(74), 9 p.

— 1974, Statistical data of the uranium industry: U.S. Atomic Energy Comm. GJO-100(74), 67 p.

U.S. Bureau Land Management, 1971, Surface protection examination for the Atomic Energy Commission: 191 p.

U.S. Bureau of Mines, 1970, Mineral facts and problems: U.S. Bur. Mines Bull., 650, p. 219-242.

U.S. Bureau of Radiological Health, 1969, Evaluation

U.S. ENERGY RESEARCH AND DEVELOPMENT ADMIN.

of radon 222 near uranium tailings piles: PB-188691.

U.S. Census Bureau, 1971, 1967 census of mineral industries, In Area statistics, Colorado: Sulteland, Maryland, U.S. Commerce Dept.

U.S. Department of Energy, 1977, Phase II, Title I engineering assessment of inactive uranium mill tailings, Gunnison site, Gunnison, Colorado: U.S. Dept. Energy GJT-12.

— 1977, Phase II, Title I engineering assessment of inactive uranium mill tailings, Maybell site, Maybell, Colorado: U.S. Dept. Energy GJT-11.

— 1977, Phase II, Title I engineering assessment of inactive uranium mill tailings, Rifle site, Rifle, Colorado: U.S. Dept. Energy GJT-10.

— 1977, Phase II, Title I engineering assessment of inactive uranium mill tailings, Grand Junction site, Grand Junction, Colorado: U.S. Dept. Energy GJT-9.

— 1977, Phase II, Title I engineering assessment of inactive uranium mill tailings, Naturita site, Naturita, Colorado: U.S. Dept. Energy GJT-8.

— 1977, Phase II, Title I engineering assessment of inactive uranium mill tailings, Slick Rock sites, Slick Rock, Colorado: U.S. Dept. Energy GJT-7.

— 1977, Phase II, Title I engineering assessment of inactive uranium mill tailings, Durango site, Durango, Colorado: U.S. Dept. Energy GJT-6.

U.S. Energy Research and Development Administration, 1975, Statistical data of the uranium industry: U.S. Energy Research Devel. Adm. GJO-100(75), 85 p.

— 1975, Uranium exploration expenditures in 1974 and plans for 1975-76: U.S. Energy Research Devel. Adm. GJO-103(75), 11 p.

— 1975, Survey of United States uranium marketing activity: U.S. Energy Research Devel. Adm. ERDA-24, 26 p.

— 1975, Uranium industry seminar: U.S. Energy Research Devel. Adm. GJO-108(75), 290 p.

— 1976, Statistical data of the uranium industry: U.S. Energy Research Devel. Adm. GJO-100(76), 87 p.

— 1976, Uranium exploration expenditures in 1975 and plans for 1976-77: U.S. Energy Research Devel. Adm. GJO-103(76), 10 p.

— 1976, Uranium industry seminar, October 19-20, 1976: U.S. Energy Research Devel. Adm. GJO-108(76), 2 vols.

— 1976, National uranium resource evaluation, preliminary report. June 1976: U.S. Energy Research Devel. Adm. GJO-111(76), 132 p.

- 1976, Survey of United States uranium marketing activity, April 1976: U.S. Energy Research Devel. Adm. 76-46, 28 p.
- 1977, Hydrogeochemical and stream sediment reconnaissance of the National Uranium Resource Evaluation program, covering New Mexico, Colorado, Wyoming, Montana, and Alaska, July - September 1976: U.S. Energy Research Devel. Adm. GJBX-12(77).
- 1977, Uranium exploration expenditures in 1976 and plans for 1977-78: U.S. Energy Research Devel. Adm. GJO-103(77), 12 p.
- 1977, Survey of lands held for uranium exploration, development and production in fourteen western states in the six month period ending December 31, 1976: U.S. Energy Research Devel. Adm. GJBX-33(77).
- 1977, Survey of lands held for uranium exploration, development and production in fourteen western states in the six month period ending June 30, 1976.: U.S. Energy Research Devel. Adm. GJBX-2(77).
- 1977, Survey of United States uranium marketing activity, May 1977: U.S. Energy Research Devel. Adm. 77-46, 33 p.
- 1977, Statistical data of the uranium industry - January 1, 1977: U.S. Energy Research Devel. Adm. GJO-100(77), 107 p.
- U.S. Environmental Protection Agency, 1972, Pollution of Colorado River and tributaries: U.S. Environmental Protection Agency Conf., 7th Sess., Las Vegas, Proc., v. 2.
- 1972, Radioactivity in surface waters of the Colorado River basin, radium monitoring network, 1968: U.S. Environmental Protection Agency Radiation Data and Repts., 13(3), p. 144-147.
- 1973, Radium-226, uranium and other radiological data collected from water quality surveillance stations located in the Colorado River basin of Colorado, Utah, New Mexico, and Arizona, January 1961 through June 1972: U.S. Environmental Protection Agency 8SA/T1B-24, 272 p.
- 1973, Radium-226, uranium, and other radiological data collected from water quality surveillance stations located in the Colorado River basin of Colorado, Utah, New Mexico, and Arizona, January 1961 through June 1972: U.S. Environmental Protection Agency PB-244920.
- U.S. Geological Survey, 1947, Memorandum discussing some considerations of the production potential of vanadium and uranium ore in the Colorado Plateau and related mill capacity: U.S. Geol. Survey TEM-37.
- 1948, Results of radioactivity determinations, Green River oil shale: U.S. Geol. Survey TEM-53A.
- 1950, Characteristics of radioactive carbonaceous and bituminous shales: U.S. Geol. Survey TEI-78.
- 1950, Gamma-ray well logs, progress report: U.S. Geol. Survey TEM-93.
- 1950, Colorado Front Range area, progress report: U.S. Geol. Survey TEM-97.
- 1952, Trace elements research - Quarterly progress report, April 1 to June 30, 1952: U.S. Geol. Survey TEI-280, 93 p.
- 1953, Search for and geology of radioactive deposits - Semiannual progress report, classified data, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-331, 50 p., tables, maps, (see U.S. Geol. Survey TEI-33).
- 1953, Geologic investigations of radioactive deposits - Semiannual progress report, classified data, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-391, 49 p., (see U.S. Geol. Survey TEI-390).
- 1953, Search for and geology of radioactive deposits - Semiannual progress report for Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, 302 p.
- 1953, Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1953: U.S. Geol. Survey TEI-390, 281 p.
- 1953, Trace elements research - Quarterly progress report, Jan. 1 to March 31, 1952: U.S. Geol. Survey TEI-270, 67 p.
- 1953, Cenozoic studies [Colorado Plateau], in Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 61.
- 1954, Geologic investigations of radioactive deposits - Semiannual progress report, classified data, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-491, 29 p., (see U.S. Geol. Survey TEI-490).
- 1954, Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-440, 299 p.
- 1954, Geologic investigations of radioactive deposits - Semiannual progress report, classified data, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-441, 24 p., (see U.S. Geol. Survey TEI-440).
- 1954, Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-490, 299 p.
- 1954, Drill hole logs with accompanying assay data and index maps on part of the Colorado Plateau: U.S. Geol. Survey open-file report 29.
- 1955, Geologic investigations of radioactive deposits - Semiannual progress report, classified

- data, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEI-541, (see U.S. Geol. Survey TEI-540).
- 1955, Geologic Investigations of radioactive deposits - Semiannual progress report, classified data, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-591, 17 p., (see U.S. Geol. Survey TEI-590).
- 1955, Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954 to May 31, 1955: U.S. Geol. Survey TEI-540, 284 p.
- 1956, Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, 347 p.
- 1956, Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, 361 p.
- 1956, Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956: U.S. Geol. Survey TEI-640, 327 p.
- 1957, Exploration drilling on the Colorado Plateau, 1947-1956, In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, p. 328-339.
- 1957, Geologic Investigations of radioactive deposits - Semiannual progress report for June 1 to Nov. 30, 1957: U.S. Geol. Survey TEI-700, 288 p.
- 1957, Geologic Investigations of radioactive deposits - Semiannual progress report for Dec. 1, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, 571 p.
- 1958, Geologic Investigations of radioactive deposits - Semiannual progress report for Dec. 1, 1957, to May 31, 1958: U.S. Geol. Survey TEI-740, 320 p.
- 1958, Geologic Investigations of radioactive deposits - Semiannual progress report for June 1 to Nov. 30, 1958: U.S. Geol. Survey TEI-750, 149 p.
- 1959, Geologic Investigations of radioactive deposits - Semiannual progress report for Dec. 1, 1958, to May 31, 1959: U.S. Geol. Survey TEI-751, 133 p.
- 1959, Geologic Investigations of radioactive deposits - Semiannual progress report for June 1 to Nov. 30, 1959: U.S. Geol. Survey TEI-752, 123 p.
- 1970, Maps showing location of holes drilled in 1952 to 1954 by U.S. Geological Survey, Gypsum Valley district, Montrose and San Miguel Counties, Colorado: U.S. Geol. Survey open-file report, 2 p., (18 figs.).
- 1970, Maps showing locations of holes drilled in 1951 to 1956 by U.S. Geological Survey, Atkinson Mesa and Dolores Bench areas, Uravan district, Montrose County, Colorado: U.S. Geol. Survey open-file report, 1 p., (7 pls.).
- 1970, Maps showing locations of holes drilled in 1949 through 1955 by U.S. Geological Survey, Long Park and adjacent areas in the southern part of the Uravan district, Montrose County, Colorado: U.S. Geol. Survey open-file report, 1 p., (7 figs.).
- 1970, Maps showing location of holes drilled in 1949 through 1951 by U.S. Geological Survey, Outlaw Mesa area, Gateway district, Mesa County, Colorado: U.S. Geol. Survey open-file report, 4 maps.
- 1971, Maps showing locations of holes drilled in 1948 to 1956 by U.S. Geological Survey, Silck Rock district, San Miguel County, Colorado: U.S. Geol. Survey open-file report, 4 p., 1 index map, 21 location maps (22 sheets).
- 1971, Aeromagnetic map of the central Colorado Plateau, Utah, Colorado, and Arizona: U.S. Geol. Survey open-file report, 1 map (2 sheets), scale 1:250,000.
- U.S. Geological Survey, 1971, Reported occurrence of selected minerals in Colorado [map]: U.S. Geol. Survey Mineral Inv. Resource Map MR-57, scale 1:500,000.
- U.S. Public Health Service, 1964, Water quality data, pt. 5 of Water quality conservation, Arkansas-Red River basins: U.S. Atomic Energy Comm. PB-217 466, v. 2, 230 p., (see also U.S. Atomic Energy Comm. PB-217 476, v. 2, pt. 2).
- U.S. Soil Conservation Service, 1971, Colorado resources, what kind, how much, how they are used, treatment needs: U.S. Dept. of Agriculture, Washington, D.C., 8 p.
- Umbach, P. H., 1952, Exploration expands in Four Corners region, In Geological symposium of the Four Corners region: Durango, Colorado, Four Corners Geol. Soc., p. 22-26, illus.
- United Nations, 1956, Geology of uranium and thorium: Internat. Conf. on the Peaceful Uses of Atomic Energy, 1st, Geneva, 1955, Proc., v. 6, 825 p., (see U.S. Geol. Survey Prof. Paper 300).
- 1958, Survey of raw material resources: Internat. Conf. on the Peaceful Uses of Atomic Energy, 2d, Proc., v. 2, 843 p.
- Updegraff, D. M., 1969, Relationship of microorganisms to uranium deposits, In Research in uranium geochemistry, final report: U.S. Atomic Energy Comm. GJO-932-2, 73 p., (DRI-2498).

- Utah Geological Society, 1954, Uranium deposits and general geology of southwestern Utah: Utah Geol. Soc., Guldebook No. 9, 115 p., illus. (incl. geol. maps).
- Van Aistine, R. E., 1968, Tertiary trough between the Arkansas and San Luis Valleys, Colorado, In Geological Survey research 1968: U.S. Geol. Survey Prof. Paper 600-C, p. C158.
- _____, 1971, Geologic map of the Poncha Springs SE quadrangle, Chaffee County, Colorado: U.S. Geol. Survey open-file report, map and explanation (1 sheet), scale 1:20,000.
- Van Horn, Richard, 1976, Geology of the Golden quadrangle, Colorado: U.S. Geol. Survey Prof. Paper 872, 116 p.
- Van Voorhls, B. W., Jr., 1945, Report on the Dolores River district, Dolores Plateau area, Colorado: U.S. Atomic Energy Comm. RMO-459 44 p., (for abstract see NSA 32:00708).
- Vanderpool, J. S., 1957, Discussion of paragenesis and structure of pitchblende-bearing veins, Central City district, Gilpin County, Colorado: Econ. Geology, v. 52, p. 713.
- Vanderwilt, J. W., 1947, Mineral resources of Colorado: Colorado Geol. Survey and Colorado Mineral Resources Board, 547 p., 10 figs., 34 pls., 150 tables.
- Vargas, F. H., 1961, Geology of the Cotopaxi Inlier on the northern trend of the Sangre de Cristo Range, Fremont County, Colorado: Colorado School Mines, M.S. thesis.
- Vickers, R. C., compiler, 1951, Bibliography of U.S. Geological Survey Trace Element Reports: U.S. Geol. Survey TEI-200.
- Vine, J. D., 1956, Uranium-bearing coal in the United States, In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955: U.S. Geol. Survey Prof. Paper 300, p. 405-411.
- _____, 1956, Uranium-bearing coal in the United States, In Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc., v. 6, p. 452-457.
- _____, 1962, Geology of uranium in coaly carbonaceous rocks: U.S. Geol. Survey Prof. Paper 356-D, p. 113-170.
- Vine, J. D., and Flége, R. F., Jr., 1953, Reconnaissance during 1952 for uranium-bearing carbonaceous rocks in parts of Colorado, Utah, Idaho and Wyoming: U.S. Geol. Survey TEI-336A, 19 p., geol. sketch maps.
- Vine, J. D., and Moore, G. W., 1952, Reconnaissance for uranium-bearing carbonaceous rocks in northwestern Colorado, southwestern Wyoming and adjacent parts of Utah and Idaho: U.S. Geol. Survey TEI-251.
- Vine, J. E., 1956, Geology of uranium in the basins of Tertiary age in Wyoming and the northern Great Plains, In Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955: U.S. Geol. Survey Prof. Paper 300, p. 337-344.
- Voegell, P. T., Sr., and Hershey, L. A., 1960, Records and logs of selected wells and test holes, and chemical and radiometric analyses of ground water, Prowers County, Colorado: Colorado Water Conserv. Board, Basic-Data Release, no., 52 p.
- _____, 1965, Geology and ground-water resources of Prowers County, Colorado: U.S. Geol. Survey Water-Supply Paper 1772, 101 p., illus., tables, geol. map.
- Vogel, J. D., 1957, Klondike Ridge, Colorado, In Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1957: U.S. Geol. Survey TEI-700, p. 140.
- _____, 1960, Geology and ore deposits of the Klondike Ridge area Colorado [abs.]: Dissert. Abs. Internat., v. 31, no. 1, p. 172.
- Vogel, J. D., and Elston, D. P., 1953, Preliminary reserve statement 28, Reserve Blocks A and B, Jo Dandy area, Montrose County, Colorado: U.S. Geol. Survey TEM-494, 18 p., figures.
- _____, 1953, Interim report on exploration of the Jo Dandy area, Montrose County, Colorado: U.S. Geol. Survey TEM-302, 10 p., figures.
- _____, 1954, Preliminary reserve statement 39, Reserve Block D, Jo Dandy area, Montrose County, Colorado: U.S. Geol. Survey TEM-721, 5 p., figures.
- _____, 1954, Preliminary reserve statement 38, Reserve Block C, Jo Dandy area, Montrose County, Colorado: U.S. Geol. Survey TEM-720, 7 p., figures.
- Walcott, E. R., 1904, Radioactivity and some radioactive minerals and springs of Colorado: Colorado School Mines, Bienn. Report, p. 25-36.
- Walker, G. W., 1956, Host rocks and their alterations as related to uranium-bearing veins in the United States: U.S. Geol. Survey TEI-638, 59 p., (see U.S. Geol. Survey Prof. Paper 455-C, p.37-53).
- _____, 1957, Supergene alteration of uranium-bearing veins in the United States: U.S. Geol. Survey TEI-693, 39 p., (see U.S. Geol. Survey Prof. Paper 455-E, p. 91-103).
- _____, 1963, Host rocks and their alterations as related to uranium-bearing veins in the conterminous United States, In Geology of uranium-bearing

- veins in the conterminous United States: U.S. Geol. Survey Prof. Paper 455-C, p. 37-53 [1964].
- 1963, Supergene alteration of uranium-bearing veins in the conterminous United States in Geology of uranium-bearing veins in the conterminous United States: U.S. Geol. Survey Prof. Paper 455-E, p. 91-103 [1964].
- 1963, Age of uranium-bearing veins in the conterminous United States, in Geology of uranium-bearing veins in the conterminous United States: U.S. Geol. Survey Prof. Paper 455-B, p. 29-35 [1964].
- Walker, G. W., and Adams, J. W., 1957, Mineralogy, internal structure and textural characteristics, and paragenesis of uranium-bearing veins in the United States: U.S. Geol. Survey TEI-688, (see U.S. Geol. Survey Prof. Paper 455-D, p. 55-90).
- 1963, Mineralogy, internal structural and textural characteristics, and paragenesis of uranium-bearing veins in the conterminous United States in Geology of uranium-bearing veins in the conterminous United States: U.S. Geol. Survey Prof. Paper 455-D, p. 55-90 [1964].
- Walker, G. W., and Osterwald, F. W., 1956, Classification and distribution of uranium-bearing veins in the United States: U.S. Geol. Survey TEI-486, 48 p., (see U.S. Geol. Survey Prof. Paper 455-A, p. 1-28).
- 1963, Introduction to the geology of uranium-bearing veins in the conterminous United States, including sections on geographic distribution and classification of veins, in Geology of uranium-bearing veins in the conterminous United States: U.S. Geol. Survey Prof. Paper 455-A, p. 1-28 [1964].
- 1963, Concepts of origin of uranium-bearing veins in the conterminous United States, in Geology of uranium-bearing veins in the conterminous United States: U.S. Geol. Survey Prof. Paper 455-A-F, p. 105-120 [1964].
- Walker, T. R., 1975, Intrastratal sources of uranium in first-cycle, non-marine red beds: Am. Assoc. Petroleum Geologists Bull., v. 59, no. 5, p. 925.
- Wallace, R. M., 1955, Bull Canyon district, in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 27-28.
- 1957, Interim report on diamond-drilling exploration in the Bull Canyon district, Montrose and San Miguel Counties, Colorado: U.S. Geol. Survey TEM-994, 13 p., figures, maps.
- Wallace, R. M., and Roach, C. H., 1956, Bull Canyon district, Montrose and San Miguel Counties, Colorado, in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956: U.S. Geol. Survey TEI-640, p. 33-35, sketch map.
- Wallace, R. M., and Santos, E. S., 1956, Bull Canyon district, Montrose and San Miguel Counties, Colorado, in Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-620, p. 35-39, geol. sketch maps.
- Wallace, S. R., and Campbell, R. H., 1953, Zonal relations of uranium deposits in metalliferous districts [Colorado], in Geologic investigations of radioactive deposits - Semiannual progress report, June 1, to Nov. 30, 1953: U.S. Geol. Survey TEI-390, p. 95-96.
- 1954, Zonal relations of uranium deposits in metalliferous districts (Colorado), in Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1953, to May 31, 1954: U.S. Geol. Survey TEI-440, p. 95.
- Wallace, S. R., and Laub, D. C., 1954, Zonal relations of uranium deposits in metalliferous districts, in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-490, p. 146-148.
- Wallace, S. R., and Olson, J. C., 1956, Thorium in the Powderhorn district, Gunnison County, Colorado, in Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955: U.S. Geol. Survey Prof. Paper 300, p. 587-592.
- 1956, Thorium in the Powderhorn district, Gunnison County, Colorado, in Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955 Proc., v. 6, p. 582-586, illus. (incl. geol. map).
- Wallace, S. R., Leonard, B. F., 3d, and Campbell, R. H., 1955, Relation of uranium to hypogene mineral zoning in the Front Range mineral belt, Colorado: U.S. Geol. TEI-357, 43 p., (with maps).
- Wantland, Dart, 1955, How seismic refraction locates uranium: Oil and Gas Jour., v. 53, no. 48, p. 149-156, illus.
- Ward, F. N., and Marrantino, A. P., 1957, Field determination of uranium in natural waters: U.S. Geol. Survey Bull. 1036-J, p. 181-192.
- Wardwell, H. R., 1948, Report on Coyote Mesa district, Dolores Plateau area, Colorado: U.S. Atomic Energy Comm. RMO-446 76 p., (for abstract see NSA 32:00700).
- Waring, C. L., and Anell, C. S., 1951, A semi-quantitative spectrographic method for the analysis of minerals, rocks and ores: U.S. Geol. Survey TEI-143, 25 p., (see Anal. Chemistry, v. 25, no. 8, p. 1174-1179).

- 1952, A semi-quantitative spectrographic method for the analysis of minerals, rocks and ores (11): U.S. Geol. Survey TEI-215, 32 p., (see Anal. Chemistry, v. 25, no. 8, p. 1174-1179).
- 1953, A semi-quantitative spectrographic method for the analysis of minerals, rocks and ores: Anal. Chemistry, v. 25, no. 8, p. 1174-1179, (see U.S. Geol. Survey TEI-143, TEI-215).
- Warren, C. G., 1972, Sulfur isotopes as a clue to the genetic geochemistry of a roll-type uranium deposit: Econ. Geology, v. 67, no. 6, p. 759-767.
- Warren, C. G., and Granger, H. C., 1973, The concepts of growth and maturity of ore-stage pyrite on roll-type uranium deposits: U.S. Geol. Survey Jour. Research, v. 1, no. 2, p. 151-155.
- Waters, A. C., and Granger, H. C., 1952, Volcanic debris in uraniferous sandstones, and its possible bearing on the origin and precipitation of uranium: U.S. Geol. Survey TEI-170, 63 p.
- 1953, Volcanic debris in uraniferous sandstones, and its possible bearing on the origin and precipitation of uranium [Colorado Plateau]: U.S. Geol. Survey Circ. 224, 26 p., (illus.).
- 1953, Relation of uranium to volcanic materials in Triassic and Jurassic formations [Colorado Plateau], in Trace elements research--Quarterly progress report, Jan. 1 to March 31, 1953: U.S. Geol. Survey TEI-270, p. 18.
- Webber, B. N., 1943, Report on Oak Ridge fold district, White River uplift area, Rio Blanco County, Colorado: U.S. Atomic Energy Comm. RMO-481 48 p.
- 1943, Report on Coal Creek anticline district, White River uplift area, Rio Blanco County, Colorado: U.S. Atomic Energy Comm. RMO-475 pt. 1.
- 1944, Report on Grand Hogback district, White River uplift area, Garfield County, Colorado: U.S. Atomic Energy Comm. RMO-478.
- 1947, Geology and ore resources of the uranium-vanadium depositional province of the Colorado Plateau region: U.S. Atomic Energy Comm. RMO-437 (for abstract see NSA 31:33011) (with maps).
- Weeks, A. D., 1951, Red and gray clay underlying ore-bearing sandstone of the Morrison Formation in western Colorado: U.S. Geol. Survey TEM-251, 19 p, illus. (Incl. sketch map).
- 1952, Summary report on mineralogic studies of the Colorado Plateau through April 30, 1952: U.S. Geol. Survey TEM-431, 28 p.
- 1952, Summary report on Colorado Plateau clay studies through April 30, 1952: U.S. Geol. Survey TEM-437.
- 1952, Mineralogic studies on the Colorado Plateau [abs.]: Geol. Soc. America Bull., v. 63, no. 12, pt. 2, p. 1309.
- 1953, Mineralogic study of some Jurassic and Cretaceous claystones and siltstones from western Colorado and eastern Utah: U.S. Geol. Survey TEI-285, 22 p., illus. (Incl. sketch map).
- 1954, Properties of uranium-bearing minerals [Colorado Plateau], in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-490, p. 282.
- 1955, Properties of uranium-bearing minerals, in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEI-540, p. 263-264.
- 1955, Oxidation of the Colorado Plateau ores and its relation to recent geologic history [abs.]: Geol. Soc. America Bull., v. 66, no. 12, pt. 2, p. 1632.
- 1956, Mineralogy and oxidation of the Colorado Plateau uranium ores, in Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955: U.S. Geol. Survey Prof. Paper 300, p. 187-193.
- 1956, Mineralogy of uranium deposits [Colorado], in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956: U.S. Geol. Survey TEI-640, p. 263-266.
- 1956, Mineralogy and oxidation of the Colorado Plateau uranium ores, in Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc., v. 6, p. 525-529.
- 1957, Mineralogy of uranium deposits [Colorado, Utah], in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, book 2, p. 506-508.
- Weeks, A. D., and Coleman, R. G., 1955, General mineralogic studies [Colorado Plateau], in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 126-127.
- Weeks, A. D., and Garrels, R. M., 1959, Geologic setting of the Colorado Plateau ores, in Garrels, R. M., and Larsen, E. S., 3d, compilers, Geochemistry and mineralogy of the Colorado Plateau uranium ores: U.S. Geol. Survey Prof. Paper 320, pt. 1, p. 3-11, illus.
- Weeks, A. D., and Riley, L. B., 1952, The Colorado Plateau project, in Summary of the research work of the Trace Elements Section, Geochemistry and Petrology Branch, for the period, October 1 to December 31, 1951: U.S. Geol. Survey TEI-218, p. 12-15.

- 1953, Mineralogic studies [Colorado Plateau], In Trace elements research--Quarterly progress report, Jan. 1 to March 31, 1952: U.S. Geol. Survey TEI-270, pt. 1, p. 11-14.
- 1953, General mineralogical studies [Colorado Plateau], In Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953: U.S. Geol. Survey TEI-330, p. 61-65.
- Weeks, A. D., and Thompson, M. E., 1953, Identification and occurrence of uranium and vanadium minerals from the Colorado Plateaus: U.S. Geol. Survey TEI-334, 69 p., (see U.S. Geol. Survey Bull. 1009-B).
- 1953, Mineral associations and types of uranium ores on the Colorado Plateaus [abs.]: Geol. Soc. America Bull., v. 64, no. 12, p. 1489-1490.
- 1954, Identification and occurrence of uranium and vanadium minerals from the Colorado Plateaus: U.S. Geol. Survey Bull. 1009-B, p. 13-62, illus. (see U.S. Geol. Survey TEI-334).
- Weeks, A. D., and Truesdell, A. H., 1957, Uravan district, Colorado; mineralogy, In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1957: U.S. Geol. Survey TEI-700, p. 25-30.
- Weeks, A. D., Cisney, E. A., and Sherwood, A. M., 1950, Hummerite and montroselite, two new vanadium minerals from Montrose County, Colorado [abs.]: Geol. Soc. America Bull., v. 61, p. 1513.
- 1951, Hummerite and montroselite, two new vanadium minerals from Montrose County, Colorado [abs.]: Am. Mineralogist, v. 36, p. 326-327.
- 1953, Montroselite, a new vanadium oxide from the Colorado Plateaus: U.S. Geol. Survey TEI-335, 14 p., (see Am. Mineralogist, v. 38, p. 1235-1241).
- 1953, Montroselite, a new vanadium oxide from the Colorado Plateaus: Am. Mineralogist, v. 38, p. 1235-1242.
- Weeks, A. D., Coleman, R. G., and Thompson, M. E., 1956, Summary of the mineralogy of the Colorado Plateau uranium ores: U.S. Geol. Survey TEI-583, (see U.S. Geol. Survey Prof. Paper 320, p. 65-79).
- 1959, Summary of the ore mineralogy, In Garrels, R. M., and Larsen, E. S., 3d, compilers, Geochemistry and mineralogy Colorado Plateau uranium ores: U.S. Geol. Survey Prof. Paper 320, p. 65-79, illus.
- Weeks, A. D., Lindberg, M., and Meyrowitz, R., 1961, Grantsite, a new hydrated sodium calcium vanadyl vanadate from New Mexico and Colorado - A preliminary description, In Short papers in the geologic and hydrologic sciences: U.S. Geol. Survey Prof. Paper 424-B, p. B293.
- Weeks, A. D., Lindberg, M., Truesdell, A. H., and others, 1964, Grantsite, a new hydrated sodium calcium vanadate from New Mexico, Colorado, and Utah: Am. Mineralogist, v. 49, nos. 11-12, p. 1511-1526, tables.
- Weeks, A. D., Thompson, M. E., and Thompson, R. B., Jr., 1954, Mineral associations and types of uranium ores on the Colorado Plateaus [abs.]: Am. Mineralogist, v. 39, nos. 3-4, p. 348-349.
- Weeks, A. D., Truesdell, A. H., and Haffty, J., 1957, Nature of the ore boundary and its relation to diagenesis and mineralization, Uravan district, Colorado [abs.]: Geol. Soc. America Bull., v. 68, p. 1810-1811.
- Weir, D. B., 1951, Geologic guides to prospecting for carnotite deposits on the Colorado Plateau: U.S. Geol. Survey TEI-119, 26 p., (see U.S. Geol. Survey Bull. 988-B).
- 1951, Cross-lamination in the Salt Wash sandstone member of the Morrison Formation [abs.]: Geol. Soc. America Bull., v. 62, p. 1514.
- 1952, Geologic guides to prospecting for carnotite deposits on Colorado Plateau: U.S. Geol. Survey Bull. 988-B, p. 15-27, (see U.S. Geol. Survey TEI-119).
- Weir, G. W., 1954, Lisbon Valley area, Utah, Colorado; quadrangle mapping, In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1954: U.S. Geol. Survey TEI-490, p. 33-34.
- 1955, Lisbon Valley Area, Utah, Colorado, In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 39-42.
- 1955, Lisbon Valley area, Utah, Colorado; quadrangle mapping, In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1954, to May 31, 1955: U.S. Geol. Survey TEI-540, p. 50-51.
- 1956, Lisbon Valley, Utah, Colorado, In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956: U.S. Geol. Survey TEI-640, p. 51-58, geol. sketch map.
- Weir, G. W., and Kennedy, V. C., Dodson, C. L., and Puffett, W. P., 1957, Lisbon Valley, Utah, Colorado, In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1956, to May 31, 1957: U.S. Geol. Survey TEI-690, p. 95-103, illus. (Incl. sketch map).
- Weir, G. W., and Puffett, W. P., 1958, Lisbon Valley area, Utah-Colorado, In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1958: U.S. Geol. Survey TEI-750, p. 14-25.

- 1960, Similarities of uranium-vanadium and copper deposits in the Lisbon Valley area, Utah-Colorado, U. S. A.: 21st Internat. Geol. Cong., 21st., Copenhagen, Rept., pt. 15, p. 133-148.
- 1960, Preliminary geologic map of the Mount Peale 4 SE quadrangle, San Juan County, Utah, and San Miguel County, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-149, geol. map (1:24,000).
- Weir, G. W., Carter, W. D., Puffett, W. P., and others, 1960, Preliminary geologic map and section of the Mount Peale 4 NE Quadrangle, San Juan County, Utah, and Montrose and San Miguel Counties, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-150, scale 1:24,000. geol. map.
- Weir, G. W., Puffett, W. P., and Kennedy, V. C., 1957, Lisbon Valley, Utah, Colorado, in Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1957: U.S. Geol. Survey TEI-700, p. 36-46, illus. (Incl. sketch maps).
- Weir, J. E., and Dinwiddie, G. A., 1973, Hydraulic testing accompanying drilling of five exploratory holes, Piceance Creek basin, Colorado: U.S. Geol. Survey 3002-2, 55 p., (This report has no publication name).
- Wells, J. D., 1955, Structure and petrology of the granodiorite along Ute Creek, Clear Creek County, Colorado [abs.]: Geol. Soc. America Bull., v. 66, p. 1683.
- 1960, Petrography of radioactive Tertiary rocks, Front Range mineral belt, Colorado: U.S. Geol. Survey Bull. 1032-E, p. 223-272, [1961].
- 1967, Geology of the Eldorado Springs quadrangle, Boulder and Jefferson Counties, Colorado: U.S. Geol. Survey Bull. 1221-D, 85 p.
- n.d., Geology of the Tertiary Igneous rocks, central part of the Front Range mineral belt, Gilpin and Clear Creek Counties: U.S. Geol. Survey TEI-597.
- Wells, J. D., and Harrison, J. E., 1953, Radioactivity reconnaissance of part of north-central Clear Creek County, Front Range, Colorado: U.S. Geol. Survey TEI-305, 21 p., (see U.S. Geol. Survey Circ. 345).
- 1954, Radioactivity reconnaissance of part of north-central Clear Creek County, Colorado: U.S. Geol. Survey Circ. 345, 9 p., illus.
- Wells, J. D., Sheridan, P. M., and Albee, A. L., 1961, Metamorphism and structural history of the Coal Creek area, Front Range, Colorado, in Short papers in the geologic and hydrologic sciences: U.S. Geol. Survey Prof. Paper 424-C, p. C127-C131.
- 1964, Relationship of Precambrian quartzite-schist sequence along Coal Creek to Idaho Springs Formation, Front Range, Colorado: U.S. Geol. Survey Prof. Paper 454-0, 25 p.
- Wemlinger, C. A., 1950, Colorado pegmatite deposit yields beryl and mica: Eng. and Mining Jour., v. 151, no. 11, p. 92-94.
- Wengerd, S. A., and Lamsens, O. R., Jr., 1952, Geological bibliography of the Four Corners region, in Geological symposium of the Four Corners region: Durango, Colorado, Four Corners Geol. Soc., p. 133-145.
- Wenrich-Verbeek, K. J., 1975, Water and stream-sediment sampling techniques for use in uranium exploration, in Craig, L. C., Brooks, R. C., and Patton, P. C., eds., Abstracts of the 1975 uranium and thorium research and resources conference [abs.]: U.S. Geol. Survey open-file report 75-595, p. 53.
- 1975, Water and stream-sediment sampling techniques for use in uranium exploration [abs.]: Geol. Soc. America Abs. with Programs, v. 7, no. 7, p. 1315.
- 1976, Water and stream-sediment sampling techniques for use in uranium exploration: U.S. Geol. Survey open-file report 76-77, 30 p., 14 figures, 2 tables.
- 1976, Analysis of uranium and associated elements in surface waters and stream sediments as an exploration technique for uranium deposits [abs.]: Internat. Geol. Congress, 25th, Sydney, Australia, 1976, Abstracts, v. 2, p. 463-464.
- Wenrich-Verbeek, K. J., Cadigan, R. A., Feinlee, J. K., and others, 1976, Recent developments and evaluation of selected geochemical techniques applied to uranium exploration, in Exploration for uranium ore deposits: Internat. Atomic Energy Agency, Vienna, p. 267-281.
- Wenrich-Verbeek, K. J., Collins, D. B., and Feinlee, J. K., 1977, Bibliography on uranium and daughter products in water and associated sediments: U.S. Geol. Survey open-file report 77-82, 139 p.
- Western States Water Council, 1974, Western States water requirements for energy development to 1990: Western States Water Council NP-20555, Salt Lake City, Utah.
- Williams, G. A., 1953, Stratigraphic studies [Colorado Plateau], in Trace element research, - Quarterly progress report, April 1 to June 30, 1952: U.S. Geol. Survey TEI-280, p. 18-20.
- 1953, Stratigraphic studies [Colorado Plateau], in Geologic investigations of radioactive deposits, - Semiannual Igneous-metamorphic/mineral association: U.S. Geol. Survey TEI-390, p. 31-35.
- 1953, Stratigraphic studies [Colorado Plateau], in Search for and geology of radioactive deposit, - Semiannual progress report, Dec. 1, 1952,

- to May 31, 1953: U.S. Geol. Survey TEI-330, p. 43.
- 1954, Stratigraphic studies [Colorado Plateau], in *Geologic Investigations of radioactive deposits, - Semiannual progress report, Dec. 1, 1953, to May 31, 1954*: U.S. Geol. Survey TEI-440, p. 30.
- 1954, Stratigraphic studies [Colorado Plateau], in *Geologic Investigations of radioactive deposits, - Semiannual progress report, June 1 to Nov. 30, 1954*: U.S. Geol. Survey TEI-490, p. 42.
- 1955, Stratigraphic studies, in *Geologic Investigations of radioactive deposits, - Semiannual progress report, Dec. 1, 1954, to May 31, 1955*: U.S. Geol. Survey TEI-540, p. 56-65.
- Williams, G. A., Cadigan, R. A., Albee, H. F., and Stewart, J. H., 1953, Progress report on the stratigraphy of the Triassic and associated formations in part of the Colorado Plateau region: U.S. Geol. Survey TEI-313, 32 p.
- Williams, N. C., 1954, As a geologist sees it, in *Facts you should know about uranium: Salt Lake City, Utah, Uranium Pubs.*, p. 15-16.
- Williams, P. L., 1964, Geology, structure, and uranium deposits of the Moab quadrangle, Colorado and Utah [map]: U.S. Geol. Survey Misc. Geol. Inv. Map I-360, scale 1:250,000, 2 sheets.
- Wilmarth, V. R., 1951, Preliminary report on the thucholite deposits near Placerville, San Miguel County, Colorado: U.S. Geol. Survey TEM-307, 5 p.
- 1953, Garo, Colorado, in *Search for and geology of radioactive deposits - Semiannual progress report, Dec. 1, 1952, to May 31, 1953*: U.S. Geol. Survey TEI-330, p. 109-110.
- 1958, Geology of Garo deposit, Park County, Colorado: U.S. Geol. Survey TEI-299, 41 p., maps and illus. (see U.S. Geol. Survey Bull. 1087-A).
- 1959, Geology of the Garo uranium-vanadium copper deposit, Park County, Colorado: U.S. Geol. Survey Bull. 1087-A, p. 1-21.
- Wilmarth, V. R., and Hawley, C. C., 1958, Geology and ore deposits of part of the Placerville area, San Miguel County, Colorado: U.S. Geol. Survey TEI-253, 5 p.
- Wilmarth, V. R., and Smith, L. E., 1952, Results of diamond drilling and geologic investigations of the Shirley May (Garo) uranium deposit, Park County, Colorado: U.S. Geol. Survey TEI-277, 32 p., maps, (see U.S. Geol. Survey Bull. 1087-A).
- Wilmarth, V. R., and Vickers, R. C., 1953, The Robinson and Weatherly uraniumiferous pyrobitumen deposits near Placerville, San Miguel County, Colorado: U.S. Geol. Survey TEI-176, 47 p., tables, maps.
- Wilmarth, V. R., Bauer, H. L., Jr., Staatz, M. H., and Wyant, D. G., 1951, Uranium in fluorite deposits [abs.]: *Geol. Soc. America Bull.*, v. 62, no. 12, pt. 2, p. 1543, (see U.S. Geol. Survey TEI-168).
- 1952, Uranium in fluorite deposits, in *Selected papers on uranium deposits in the United States*: U.S. Geol. Survey Circ. 220, p. 13-18.
- Wilpolt, R. H., 1956, Background for exploration in the Colorado Plateau: *Mining Cong. Jour.*, v. 42, no. 5, p. 64-66, illus.
- Wilson, H. D., 1953, Geochemical control of chromium, vanadium, and titanium ore deposits: *Canadian Mining Metall. Bull.*, v. 46, no. 490, p. 57-60, (see *Canadian Inst. Mining Metall. Trans.*, v. 56, p. 9-12).
- Wilson, J. H., 1923, An occurrence of carnotite near Denver: *Eng. and Mining Jour.*, v. 116, no. 6, p. 239-240.
- Winterhalder, E. C., 1953, *Geologic and radiometric reconnaissance of North Park, Jackson County, Colorado*: U.S. Atomic Energy Comm. RME-1008, 10 p.
- Withington, C. F., 1949, *Geology of the Paradox quadrangle, Montrose County, Colorado*: Univ. Rochester, M.S. thesis.
- 1950, Preliminary appraisal of diamond-drill exploration in the Upper group area, San Miguel County, Colorado: U.S. Geol. Survey TEM-114, 5 p., map.
- 1951, Carnotite resources of the Upper group area, San Miguel County, Colorado: U.S. Geol. Survey TEI-145, 53 p., maps, tables, (see U.S. Geol. Survey Mineral Inv. Field Studies Map MF-241; U.S. Geol. Survey TEI-690).
- 1954, Geology of the Paradox quadrangle, Montrose County, Colorado: U.S. Geol. Survey TEM-703, 28 p., (see U.S. Geol. Survey Geol. Quad. Map GQ-72).
- 1955, Preliminary geologic map of the Paradox quadrangle, Colorado [map]: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-22, (see U.S. Geol. Survey TEM-703).
- 1955, Geology of the Paradox quadrangle, Montrose County, Colorado [map]: U.S. Geol. Survey Geol. Quad. Map GQ-72, scale 1:24,000. (see U.S. Geol. Survey TEM-703).
- Withington, C. F., and Bush, A. L., 1950, Carnotite resources of the Ellison and Burro claims, San Miguel County, Colorado: U.S. Geol. Survey TEI-115, 11 p., (see U.S. Geol. Survey Mineral Inv. Field Studies Map MF-241; U.S. Geol. Survey TEI-690).
- Withington, C. F., and Hasler, J. W., n.d., Interim

- report on exploration in the Gypsum Valley district, Montrose and San Miguel Counties, Colorado: U.S. Geol. Survey TEM-830.
- Withington, C. F., and Scott, J. B., 1953, Development drilling on the Contact No. 4 claim, Gypsum Valley district, San Miguel County, Colorado: U.S. Geol. Survey TEM-455, 2 p., figures.
- Wollenberg, H. A., and Smith, A. R., 1970, Radiogenic heat production in prebatholithic rocks of the central Sierra Nevada: Jour. Geophys. Research, v. 75, p. 431-438.
- Wood, H. B., 1956, Relations of the origins of host rocks to uranium deposits and ore production in western United States, in Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955: U.S. Geol. Survey Prof. Paper 300, p. 533-541.
- 1956, Age, environment and production of uranium host rocks on the Colorado Plateau, in Geology of uranium and thorium: U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc., v. 6, p. 307-316, illus.
- 1956, Relations of the origin of host rocks to uranium deposits and ore production in western United States, in Geology of uranium and thorium: U. N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc., v. 6.
- 1968, Geology and exploitation of uranium deposits in the Lisbon Valley area, Utah, in Ore deposits of the United States, 1933-1967: Am. Inst. Mining, Metall., and Petroleum Engineers, v. 1, p. 770-789.
- Wood, H. B., and Grundy, W. D., 1956, Techniques and guides for exploration of Shinarump channels in the Colorado Plateau, in Contributions to the geology of uranium and thorium by the U.S. Geol. Survey and Atomic Energy Comm. for the U.N. Internat. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955: U.S. Geol. Survey Prof. Paper 300, p. 651-657.
- Wood, H. B., and Lekas, M. A., 1958, Uranium deposits of the Uravan mineral belt: U.S. Atomic Energy Comm. RME-125, (see Intermt. Assoc. Petroleum Geologists, 1958 Field Conf. Guidebook, p. 208-215).
- 1958, Uranium deposits of the Uravan mineral belt (Colorado), in Guidebook to the Geology of the Paradox basin, 9th Annual Field Conf.: Salt Lake City, Utah, Intermt. Assoc. Petroleum Geologists, p. 208-215, illus.
- Wood, H. E., 1913, Concentration of pitchblende: Eng. and Mining Jour., v. 95, no. 23, p. 1164-1165.
- Wood, J. R., 1912, New vanadium fields in Boulder County, Colorado: Mining Sci., v. 65, p. 74-75.
- Wright, H. D., 1950, Mineralogy of the Radium vein, Caribou, in Kerr, P. F., Mineralogical studies of uraninite and uraninite-bearing deposits: U.S. Atomic Energy Comm. RMO-715, 3 p.
- 1950, Wall rock of the Radium vein, Caribou mine (a preliminary account), in Kerr, P. F., Mineralogical studies of uraninite and uraninite-bearing deposits: U.S. Atomic Energy Comm. RMO-715, 6 p.
- 1951, Paragenesis of a uranium-bearing vein at Caribou, Colorado: Denison Univ., Sci. Lab. Jour., v. 42, art. 8, p. 75-82, illus.
- 1951, Memorandum on the study of certain Colorado and Ontario uraninite deposits, - Annual report for July 1, 1950, to June 30, 1951: U.S. Atomic Energy Comm. RMO-797, p. 69-86, illus.
- 1954, Mineralogy of a uraninite deposit at Caribou, Colorado: Econ. Geology, v. 49, no. 2, p. 129-174, illus.
- Wright, H. D., and Shulhof, W. P., 1957, An investigation of the amount and distribution of uranium in sulfide minerals in vein ore deposits - Annual report for July 1, 1955, to Mar. 31, 1956: U.S. Atomic Energy Comm. RME-3142, 29 p.
- Wright, H. D., Hutta, J. J., Shulhof, W. P., and Smith, C. M., 1957, An investigation of the amount and distribution of uranium in base metal sulfide minerals in vein ore deposits, - Annual report for April 1, 1956, to April 30, 1957: U.S. Atomic Energy Comm. RME-3154, 24 p.
- Wright, J. C., 1955, Entrada study [Colorado, Utah], in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1955: U.S. Geol. Survey TEI-590, p. 79-80.
- 1959, San Rafael (Entrada) studies, in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1958, to May 31, 1959: U.S. Geol. Survey TEI-751, p. 61-66.
- Wright, J. C., and Dickey, D. D., 1956, Entrada study, in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1956: U.S. Geol. Survey TEI-620, p. 101.
- 1956, Entrada studies, in Geologic investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1955, to May 31, 1956: U.S. Geol. Survey TEI-640, p. 176-178.
- 1957, Entrada (San Rafael) studies, in Geologic investigations of radioactive deposits - Semiannual progress report, Nov. 30, 1957, to May 31, 1957: U.S. Geol. Survey TEI-690, p. 351-354.
- 1957, San Rafael (Entrada) studies, in Geologic investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1957: U.S. Geol. Survey TEI-700, p. 123.

- 1958, San Rafael (Entrada) studies, In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1957, to May 31, 1958: U.S. Geol. Survey TEI 740, p. 139-146, geol. sketch maps.
- Wright, J. C., Shawe, D. R., and Lohman, S. W., 1962, Definition of members of Jurassic Entrada Sandstone in east-central Utah and west-central Colorado: Am. Assoc. Petroleum Geologists Bull., v. 46, no. 11, p. 2057-2070, illus.
- Wright, R. J., 1953, Prospecting with a counter: U.S. Atomic Energy Comm. RME-4028, 70 p.
- 1953, Lithologic ore controls in sandstone type uranium deposits, Colorado Plateau [abs.]: Geol. Soc. America Bull., v. 64, no. 12, p. 1495.
- 1955, Lithologic controls of uranium ore deposits [Colorado Plateau]: Mining Cong. Jour., v. 41, no. 4, p. 98-100, illus.
- 1955, Ore controls in sandstone uranium deposits of the Colorado Plateau: Econ. Geology, v. 50, no. 2, p. 135-155, illus. (incl. geol. sketch maps).
- 1955, Colorado Plateau uranium deposits [disc.]: Econ. Geology, v. 50, no. 8, p. 884-885.
- Wright, R. J., and Everhart, D. L., 1960, Uranium, chap. 5, In Mineral resources of Colorado, 1st sequel: Denver, Colorado, Colorado Mineral Resources Board, p. 327-365, illus. (incl. geol. map).
- Wyant, D. G., 1949, Treasure Hill area, Larimer County, Colorado: U.S. Geol. Survey TEM-9, 6 p., figures.
- 1949, The Wheelman tunnel, Boulder County, Colorado: U.S. Geol. Survey TEM-8, 6 p., tables, maps.
- 1949, Spaulding-Woodhams scheelite prospects, Larimer County, Colorado: U.S. Geol. Survey TEM-9A.
- Wyant, D. G., and Fischer, W. A., 1957, Colorado Plateau geologic map, In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1957: U.S. Geol. Survey TEI-700, p. 73-75, sketch map.
- Wyant, D. G., Beroni, E. P., and Granger, H. C., 1951, Some uranium deposits in sandstone [abs.]: Geol. Soc. America Bull., v. 62, no. 12, pt. 2, p. 1544, (see U.S. Geol. Survey TEI-168).
- 1952, Some uranium deposits in sandstones, In Selected papers on uranium deposits in the United States: U.S. Geol. Survey Circ. 220, p. 26-30, [1953].
- Wyant, D. G., Fischer, W. A., O'Sullivan, R. B., and others, 1951, Treasure Hill area, Larimer County, Colorado: U.S. Geol. Survey TEM-9B, 3 p.
- 1958, Geologic maps of the Colorado Plateau, In Geologic Investigations of radioactive deposits - Semiannual progress report, Dec. 1, 1957, to May 31, 1958: U.S. Geol. Survey TEI-740, p. 81-83, sketch map.
- 1958, Geologic maps of the Colorado Plateau, In Geologic Investigations of radioactive deposits - Semiannual progress report, June 1 to Nov. 30, 1958: U.S. Geol. Survey TEI-750, p. 30-31, sketch map.
- Wyman, R. V., 1970, Distribution of groundwater U308 on the Colorado Plateau: Soc. Mining Eng., Am. Inst. Mining, Metall., and Petroleum Engineers, v. 22, no. 12, p. 39-40, illus.
- Young, E. J., 1972, Laramide-Tertiary intrusive rocks of Colorado: U.S. Geol. Survey open-file report 1796, 206 p.
- 1977, Geologic, radiometric, and mineralogic maps and underground workings of the Schwartzwalder uranium mine and area, Jefferson County, Colorado: U.S. Geol. Survey Open-File Rept. 77-725.
- Young, E. J., and Hauff, P. L., 1975, An occurrence of disseminated uraninite in Wheeler basin, Grand County, Colorado: U.S. Geol. Survey Jour. Research, v. 3, no. 3, p. 305-311.
- Young, E. J., and Lahr, M., 1975, The Schwartzwalder uranium mine [abs.]: Geol. Soc. America Abs. with Programs, v. 7, no. 5, p. 653.
- Young, E. J., and Sims, P. K., 1958, Occurrence of xenotime and monazite in Precambrian biotite gneiss and migmatite, Gilpin County, Colorado [abs.]: Geol. Soc. America Bull., v. 69, no. 12, pt. 2, p. 1750.
- 1961, Petrography and origin of xenotime and monazite concentrations, Central City district, Colorado: U.S. Geol. Survey Bull. 1032-F, p. 273-299.
- Young, Neal, 1957, Area economic map of Mount Peale quadrangle, Grand and San Juan Counties, Utah, and Montrose and San Miguel Counties, Colorado [map]: U.S. Atomic Energy Comm. open-file map.
- Young, Patti, and Mickle, D. G., 1976, Uranium favorability of Tertiary rocks in the Badger Flats - Elkhorn thrust area, Park and Teller Counties, Colorado: U.S. Energy Research Dev. Adm. GJBX-54(76).
- Zalinski, E. R., 1908, Occurrence of vanadium near Telluride, Colorado: Eng. and Mining Jour., v. 85, p. 1152-1153.
- Zareski, G. K., 1954, Reconnaissance of uranium occurrences at Wray Mesa, San Juan County, Utah, and Montrose County, Colorado: U.S. Atomic Energy Comm. RME-69, pt. 1, 15 p., illus. (incl. geol. sketch map).

Zeller, E. J., Dreschhoff, G., Angino, E., and others, 1975 Potential uranium host rocks and structures in the central Great Plains: U.S. Energy Research Devel. Adm. GJO-1642-1, Radiation Physics Lab., Space Technology Center, Univ. Kansas and Texas Instruments Inc.

Zogg, William, 1976, The geology of Colorado Gulch - Turquoise Lake area, northern Sawatch Range, Lake County, Colorado: Colorado School of Mines, Thesis No. T-1903, Golden, Colorado.

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- Lipman, P. W., Bunker, C. M., and Bush, C. A., 1973
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- De Voto, R. H., Land, C. B., Jr., Blazzard, T.
R., and others, 1972
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- Denson, N. M., and others, 1959
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- Otton, J. K., and Ward, F. N., 1975
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- U.S. Atomic Energy Commission, 1966
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- Adler, H. H., 1963
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- Adler, H. H., 1964
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- Anonymous, -1950
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- Bain, G. W., 1957
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- Baker, A. A., Dane, C. H., and Reeside, J. B.,
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- Baltz, E. H., Jr., 1953
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- Baltz, E. H., Jr., 1954
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- Baltz, E. H., Jr., 1955
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- Cadigan, R. A., 1972
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- Cater, F. W., Jr., 1955
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- Craig, L. C., and Holmes, C. N., 1951
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- Craig, L. C., Holmes, C. N., Cadigan, R. A., and
others, 1951
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- Duncan, D. C., compiler, 1953
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- Ekren, E. B., and Houser, F. N., 1959
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- Fassett, J. E., and Hinds, J. S., 1971
geology/ fuel/ resources/ Fruitland Formation/ San Juan basin/ Montezuma County/ La Plata County/ Archuleta County/ Colorado/ uranium/ sandstone/ New Mexico/ shale/ Colorado Plateau/ Kirtland Shale/
- Fischer, R. P., 1950
Colorado Plateau/ ore deposits/ sandstone/ uranium/ Morrison Formation/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ ore guides/ Garfield County/ San Miguel County/
- Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ clay mineralogy/ uranium/ vanadium/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Garrels, R. M., and Larsen, E. S., 3d, compilers, 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ sandstone/ ground water/ clay/ mudstone/ organics/ Peanut mine/ J. J. mine/ Montrose County/ Rifle mine/ Garfield mine/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Archuleta County/
- Hess, F. L., 1914
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- Hunt, C. B., 1956
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- Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1955
Colorado Plateau/ ore deposits/ absolute age/ host rocks/ sandstone/ formational environments/ Entrada Sandstone/ Kayenta Formation/ Garfield County/ Moffat County/ Rio Blanco County/ San Miguel County/ Mesa County/ Montrose County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Jobin, D. A., 1956
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- Jobin, D. A., 1956
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- Jobin, D. A., 1962
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- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ Igneous-metamorphic/
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- Keller, W. D., 1962
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geology/ petrology/ San Juan region/ Colorado Plateau/ igneous-metamorphic/ Montrose County/ Ouray County/ San Miguel County/ Dolores County/ La Plata County/ Gunnison County/ Hinsdale County/ Archuleta County/ Mineral County/ Saguache County/ Conejos County/ Alamosa County/ San Juan County/ Montezuma County/ Rio Grande County/

Maxwell, J. C., 1977

San Juan Mountains/ geology/ Archuleta County/ hydrogeochemistry/ stream sediments/ stream waters/ ground waters/ Storm King Mountain/ Vallecito Creek/ Montrose County/ Gunnison County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ San Juan County/ Ouray County/ Hinsdale County/ Mineral County/

McMillan, W. D., 1960

minerals/ resources/ Colorado/ New Mexico/ sandstone/ La Plata County/ Archuleta County/ Colorado Plateau/ San Juan irrigation project/ Chama Irrigation project/

Mullens, T. E., and Freeman, V. L., 1954

lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/

ore deposits/ Morrison Formation/ Rio Blanco County/

Mullens, T. E., and Freeman, V. L., 1957

lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/

Scott, R. C., and Barker, F. B., 1961

ground water/ radium/ La Plata County/ Cheyenne County/ Kiowa County/ Lincoln County/ Crowley County/ Otero County/ Bent County/ Prowers County/ Las Animas County/ Baca County/ Montezuma County/ Archuleta County/ Colorado Plateau/

Sears, R. S., Marjanleml, D. K., and Blomquist, J. T., 1974

Colorado/ computers/ data processing/ exploration/ geology/ iron/ maps/ New Mexico/ petroleum/ potassium/ radioactivity/ rocks/ stratigraphy/ thorium/ uranium/ ore deposits/ minerals/ well logging/ Morrison Formation/ San Juan basin/ Archuleta County/ La Plata County/ sandstone/ Colorado Plateau/

Shoemaker, E. M., 1956

structural features/ Colorado Plateau/ ore deposits/ veins/ Moffat County/ Rio Blanco County/ La Plata County/ uranium/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ San Juan County/ Ouray County/ sandstone/ Montezuma County/ Dolores County/ Archuleta County/

Stokes, W. L., 1944

Morrison Formation/ Colorado Plateau/ sandstone/ stratigraphy/ correlation/ Garfield County/ Mesa County/ Delta County/ Gunnison County/ Montrose County/ Ouray County/ Dolores County/ Hinsdale County/ Archuleta County/ Montezuma County/ La Plata County/ ore deposits/ San Juan County/

Thaden, R. E., and Kirk, A. R., 1975

sandstone/ district studies/ uranium/ resources/ La Plata County/ Archuleta County/ San Juan basin/ stratigraphy/ Montezuma County/ Colorado Plateau/

U.S. Atomic Energy Commission, 1966

geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Archuleta County/ reconnaissance/ ore deposits/ sandstone/ San Juan basin/

Weeks, A. D., Coleman, R. G., and Thompson, M. E., 1959

Colorado Plateau/ ore deposits/ mineralogy/ oxidation/ vanadium/ sandstone/ uranium/ Moffat County/ Dolores County/ Garfield County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/

ARCHULETA COUNTY

Wright, R. J., 1955

Colorado Plateau/ ore deposits/ ore controls/ lithology/ sandstone/ genesis/ Moffat County/ Dolores County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/ Archuleta County/

BACA COUNTY

Brown, L. J., and Easton, W. W., 1955

ore deposits/ reconnaissance/ airborne/ Huerfano Embayment/ intrusives/ volcanics/ Las Animas Arch/ La Veta Pass area/ Huerfano County/ Las Animas County/ Otero County/ Costilla County/ Pueblo County/ Crowley County/ Kiowa County/ Bent County/ Prowers County/ Baca County/ sandstone/ shale/ claystone/ igneous-metamorphic/

Finch, W. I., Wright, J. C., and Sullivan, M. W., 1975

bibliography/ Colorado/ geology/ geophysical surveys/ ground water/ Kansas/ New Mexico/ Oklahoma/ stratigraphy/ Texas/ uranium/ ore deposits/ sandstone/ Baca County/ Las Animas County/

Landis, E. R., 1956

ground water/ surface water/ Kansas/ Colorado/ Oklahoma/ shale/ tuff/ sandstone/ Smoky Hill River valley/ Rule Creek basin/ Baca County/ siltstone/ uranium/ claystone/ Bent County/ Las Animas County/ Kiowa County/ Cheyenne County/ Crowley County/ Lincoln County/ springs/ wells/ Muddy Creek/ geochemistry/

Landis, E. R., 1957

Colorado/ Kansas/ New Mexico/ Oklahoma/ exploration/ geochemistry/ ground water/ surface water/ tuff/ shale/ sandstone/ wells/ springs/ Cheyenne County/ Bent County/ Las Animas County/ Kiowa County/ Crowley County/ Lincoln County/ uranium/ Baca County/

Landis, E. R., 1960

ground water/ surface water/ Great Plains/ analyses/ Baca County/ Bent County/ Cheyenne County/ Crowley County/ Kiowa County/ Lincoln County/ Prowers County/ sandstone/ Las Animas County/ geochemistry/

Lipman, P. W., Bunker, C. M., and Bush, C. A., 1973

basalt/ spectroscopy/ Cenozoic rocks/ potassium/ thorium/ uranium/ Rio Grande depression/ New Mexico/ geochemistry/ ore composition/ Baca County/ Las Animas County/ igneous-metamorphic/ Conejos County/ Costilla County/ Rio Grande County/ Alamosa County/

Scott, R. C., and Barker, F. B., 1961

ground water/ radium/ La Plata County/ Cheyenne County/ Kiowa County/ Lincoln County/ Crowley County/ Otero County/ Bent County/ Prowers County/ Las Animas County/ Baca County/ Montezuma County/ Archuleta County/ Colorado Plateau/

Scott, R. C., and Barker, F. B., 1962

data/ uranium/ radium/ ground water/ analyses/ Logan County/ Phillips County/ Prowers County/

BENT COUNTY

Yuma County/ Jefferson County/ Garfield County/ Kit Carson County/ Pitkin County/ Mesa County/ Huerfano County/ Baca County/ Montezuma County/ Front Range/ Colorado Plateau/

Swenson, F. A., 1974

ground water/ drainage/ Arkansas River basin/ basin/ radioactive waste disposal/ sandstone/ salinity/ sodium chloride/ Baca County/ Permian basin/ Colorado River basin/ salt solution/

U.S. Atomic Energy Commission, 1966

geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Baca County/ reconnaissance/ ore deposits/ sandstone/

BENT COUNTY

Brown, L. J., and Easton, W. W., 1955

ore deposits/ reconnaissance/ airborne/ Huerfano Embayment/ intrusives/ volcanics/ Las Animas Arch/ La Veta Pass area/ Huerfano County/ Las Animas County/ Otero County/ Costilla County/ Pueblo County/ Crowley County/ Kiowa County/ Bent County/ Prowers County/ Baca County/ sandstone/ shale/ claystone/ igneous-metamorphic/

Finch, W. I., 1967

Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Landis, E. R., 1956

ground water/ surface water/ Kansas/ Colorado/ Oklahoma/ shale/ tuff/ sandstone/ Smoky Hill River valley/ Rule Creek basin/ Baca County/ siltstone/ uranium/ claystone/ Bent County/ Las Animas County/ Kiowa County/ Cheyenne County/ Crowley County/ Lincoln County/ springs/ wells/ Muddy Creek/ geochemistry/

Landis, E. R., 1957

Colorado/ Kansas/ New Mexico/ Oklahoma/ exploration/ geochemistry/ ground water/ surface water/ tuff/ shale/ sandstone/ wells/ springs/ Cheyenne County/ Bent County/ Las Animas County/ Kiowa County/ Crowley County/ Lincoln County/ uranium/ Baca County/

Landis, E. R., 1960

ground water/ surface water/ Great Plains/ analyses/ Baca County/ Bent County/ Cheyenne County/ Crowley County/ Kiowa County/ Lincoln County/ Prowers County/ sandstone/ Las Animas County/ geochemistry/

Scott, R. C., and Barker, F. B., 1961

ground water/ radium/ La Plata County/ Cheyenne County/ Kiowa County/ Lincoln County/ Crowley County/ Otero County/ Bent County/ Prowers County/

BENT COUNTY

Las Animas County/ Baca County/ Montezuma County/
Archuleta County/ Colorado Plateau/

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
Bent County/ reconnaissance/ ore deposits/ sandstone/
radioactivity/

BOULDER COUNTY

Anonymous, 1920
ore deposits/ resources/ pitchblende/ Boulder
County/ Igneous-metamorphic/ Front Range/

Anonymous, 1950
development/ Boulder County/ igneous-metamorphic/
Caribou mine/

Anonymous, 1950
Boulder County/ igneous-metamorphic/ Caribou
mine/ development/ Front Range/

Balilie, W. N., 1962
pegmatites/ feldspar/ rare earths/ Boulder County/
Chaffee County/ Clear Creek County/ Douglas
County/ El Paso County/ Fremont County/ Gunnison
County/ Jefferson County/ Larimer County/ Park
County/ igneous-metamorphic/ Front Range/

Bastin, E. S., and Hill, J. M., 1915
Gilpin County/ igneous-metamorphic/ Boulder
County/ Quartz Hill/ gold/ silver/ uranium/
copper/ tungsten/ Front Range/ ore deposits/
Clear Creek County/

Beroni, E. P., Granger, H. C., and King, R. U., 1950
Jamestown district/ Boulder County/ fluorite
deposits/ Argo mine/ Blue Jay mine/ Burlington
mine/ Emmett mine/ General Chemical fluorite
deposit/ igneous-metamorphic/ radioactivity/
ore deposits/ Front Range/ Williamson fluorite
deposit/

Bleniewski, C. L., Persse, F. H., and Brauch, E.
F., 1971
Colorado Plateau/ Rifle district/ Front Range/
Garfield County/ Clear Creek County/ Jefferson
County/ Boulder County/ resources/ price/ cost
analysis/ sandstone/ Igneous-metamorphic/ Marshall
Pass/

Boos, C. M., and Boos, M. F., 1957
tectonics/ Front Range/ igneous-metamorphic/
Gilpin County/ Larimer County/ Boulder County/
Jefferson County/ geology/ Clear Creek County/
Park County/ Douglas County/ Teller County/
El Paso County/ Fremont County/ Pueblo County/
granite/ schist/ gneiss/ pegmatite/

Bray, J. M., 1942
fluorite/ Jamestown district/ Boulder County/
Front Range/ veins/ igneous-metamorphic/ chemistry/
minor elements/

Brinkwoth, G. L., 1974
geophysical investigations/ Front Range/ mineral

BOULDER COUNTY

belt/ igneous-metamorphic/ Jefferson County/
Boulder County/ Clear Creek County/ Gilpin County/
geophysics/

Campbell, R. H., 1953
Gold Hill district/ Boulder County/ zoning/
Igneous-metamorphic/ Black Cloud mine/ pitchblende/
reconnaissance/ Front Range/ ore deposits/

Campbell, R. H., 1955
Boulder County/ Gold Hill district/ mineralogy/
petrology/ geochemistry/ breccia reefs/ zoning/
Front Range/ pitchblende/ schroeckingerite/
torbernite/ Black Cloud mine/ Goldsmith Maid
vein/ Snowbound mine/ reconnaissance/ veins/
Igneous-metamorphic/

Campbell, R. H., 1955
Boulder County/ Gold Hill district/ mineralogy/
petrology/ geochemistry/ breccia reefs/ zoning/
Front Range/ veins/ pitchblende/ schroeckingerite/
torbernite/ Black Cloud mine/ Goldsmith Maid
vein/ Snowbound mine/ reconnaissance/ veins/
Igneous-metamorphic/

Carter, W. D., and Gaultier, J. L., 1958
map/ tectonics/ Colorado/ Utah/ Moffat County/
Logan County/ geology/ Larimer County/ Jackson
County/ Boulder County/ Jefferson County/ Clear
Creek County/ Gilpin County/ Summit County/
Grand County/ Eagle County/ Routt County/ Garfield
County/ Rio Blanco County/ sandstone/ ore deposits/
Igneous-metamorphic/

Everhart, D. L., 1956
sandstone/ Colorado Plateau/ Front Range/ Copper
King mine/ veins/ Larimer County/ Los Ochos
mine/ Saguache County/ Caribou mine/ Boulder
County/ Schwartzwalder mine/ Carroll mine/ Placerville
district/ San Miguel County/ alteration/ pitchblende/
igneous-metamorphic/ Jefferson County/ Carroll
mine/ structural tension/

Everhart, D. L., 1956
pitchblende/ Colorado Plateau/ igneous-metamorphic/
granite/ Front Range/ Copper King mine/ Larimer
County/ alteration/ Los Ochos mine/ Saguache
County/ Caribou mine/ Carroll mine/ Boulder
County/ San Miguel County/ ore deposits/ sandstone/
Placerville district/ Schwartzwalder mine/ Jefferson
County/ structural tension/ United States/ Tertiary/
veins/ alteration/

Everhart, D. L., and Wright, R. J., 1953
veins/ pitchblende/ geologic features/ sulfides/
Precambrian rocks/ Canadian shield/ Paleozoic/
Tertiary/ paragenesis/ alteration/ sandstone/
Africa/ Idaho/ Front Range/ Gilpin County/ Clear
Creek County/ Boulder County/ Utah/ Colorado
Plateau/ Igneous-metamorphic/

Finch, W. I., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/
geology/ Larimer County/ Jackson County/ Routt
County/ Moffat County/ Garfield County/ Grand
County/ Eagle County/ Boulder County/ Jefferson
County/ Park County/ Mesa County/ Montrose County/
El Paso County/ San Miguel County/ Bent County/
Park County/ Saguache County/ Pueblo County/

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BOULDER COUNTY

- Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/
- Fraser, G. D., 1948
Coal Creek Quartzite/ igneous-metamorphic/ Jefferson County/ Boulder County/ Front Range/
- Gable, D. J., 1969
geology/ Nederland quadrangle/ Boulder County/ Gilpin County/ igneous-metamorphic/ ore deposits/ Caribou district/ veins/ map/ Caribou mine/ Front Range/
- George, R. D., 1917
minerals/ rocks/ Colorado/ occurrences/ uses/ Colorado Plateau/ sandstone/ igneous-metamorphic/ uranium/ vanadium/ radium/ carnotite/ pitchblende/ Jefferson County/ Gilpin County/ Front Range/ Montrose County/ San Miguel County/ Dolores County/ Garfield County/ Rio Blanco County/ Routt County/ Boulder County/
- George, R. D., Curtis, H. A., Lester, O. C., and others, 1920
Colorado Plateau/ mineralized waters/ springs/ spring deposits/ Front Range/ Jefferson County/ Pitkin County/ Pueblo County/ Garfield County/ Park County/ El Paso County/ Ouray County/ Boulder County/ Gunnison County/ Delta County/ Chaffee County/
- Goddard, E. N., 1946
Boulder County/ veins/ igneous-metamorphic/ fluorite/ Tertiary intrusions/ Jamestown district/ ore deposits/ fluorspar/ Front Range/
- Goddard, E. N., and Glass, J. J., 1940
radioactive cerite/ Jamestown district/ ore deposits/ igneous-metamorphic/ uranium/ Boulder County/ geology/ mineralogy/ chemistry/ Front Range/ Precambrian rocks/
- Gott, G. B., 1948
Boulder County/ water/ nonsaline waters/ Jamestown/ radioactivity/ spring deposits/ Front Range/ radioactive springs/
- Gott, G. B., 1948
Boulder County/ water/ nonsaline waters/ Jamestown/ radioactivity/ spring deposits/ Front Range/ radioactive springs/
- Gottfried, David, 1956
Front Range/ ore deposits/ exploration/ Precambrian rocks/ igneous complexes/ granite/ uranium/ Jefferson County/ Clear Creek County/ Gilpin County/ Pikes Peak batholith/ Log Cabin batholith/ Boulder Creek batholith/ igneous-metamorphic/ Boulder County/
- Grossman, E. L., 1957
Front Range/ ore deposits/ uranium/ Gilpin County/ Clear Creek County/ Jefferson County/ Schwartzwalder mine/ pitchblende/ igneous-metamorphic/ Ladwig mine/ Leyden mine/ Boulder County/ coal/ sandstone/ Morrison Formation/ Park County/ Gem Dandy/
- Grossman, E. L., and Smith, B. C., 1956
lithology/ uranium/ ore deposits/ sandstone/ exploration/ Front Range/ Dakota hogback/ Dakota Sandstone/ Cretaceous/ Boulder County/ Larimer County/ asphaltite/ Rose Mary No. 1 claim/ Wanketa lease/ Horsetooth Reservoir site/ Carter Lake/ Bonnell lease/ airborne radiometrics/
- Guillotte, G. B., 1944
reconnaissance/ uranium/ ore deposits/ Front Range/ igneous-metamorphic/ Park County/ Boulder County/ Jamestown district/ Larimer County/ Masonville mines/ Chaffee County/ Trout Creek pegmatites/ Clear Creek County/ carnotite/
- Gustafson, J. K., 1949
uranium/ resources/ veins/ Gilpin County/ Front Range/ Boulder County/ igneous-metamorphic/ pitchblende/ vanadium/ Morrison Formation/ sandstone/ Montrose County/ Mesa County/ San Miguel County/ Colorado Plateau/
- Hall, C. R., 1976
alkalic/ igneous rocks/ igneous-metamorphic/ Gilpin County/ Front Range/ bibliography/ San Juan County/ Custer County/ Fremont County/ La Plata County/ Montezuma County/ Gunnison County/ Saguache County/ El Paso County/ Rio Grande County/ Jefferson County/ Larimer County/ Boulder County/ Colorado Plateau/ Clear Creek County/ Teller County/
- Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
pegmatites/ geology/ mineralogy/ Chaffee County/ Boulder County/ Clear Creek County/ Douglas County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Montrose County/ Park County/ monazite/ thorium/ production/ Front Range/ El Paso County/ igneous-metamorphic/ Colorado Plateau/ Wyoming/ Utah/ Summit County/
- Harder, J. O., and Stead, F. W., 1945
Boulder County/ Gilpin County/ Gunnison County/ Mesa County/ Teller County/ ore deposits/ sandstone/ igneous-metamorphic/ reconnaissance/ Front Range/ Colorado Plateau/ Jefferson County/
- Harder, J. O., and Wyant, D. G., 1944
Central City district/ Cripple Creek/ Jamestown district/ Nederland district/ Boulder County/ Gilpin County/ Gunnison County/ Teller County/ Clear Creek County/ ore deposits/ igneous-metamorphic/ reconnaissance/ Precambrian rocks/ granite/ veins/ Brown Derby Pegmatite/ Calhoun mine/ Belcher mine/ trace elements/ Front Range/
- Hickling, N. L., 1965
Boulder Creek batholith/ allanite/ mineralogy/ epidote/ igneous-metamorphic/ Boulder County/ analyses/ geochemistry/ Precambrian rocks/ Front Range/
- Hickling, N. L., 1965
Boulder Creek batholith/ allanite/ mineralogy/ epidote/ igneous-metamorphic/ Boulder County/ analyses/ geochemistry/ Precambrian rocks/ Front Range/

BOULDER COUNTY

BOULDER COUNTY

- Hickling, N. L., Phair, G., Moore, R., and others, 1970
Boulder Creek batholith/ uranium/ thorium/ age patterns/ allanite/ mineralogy/ genesis/ paragenesis/ Igneous-metamorphic/ Jefferson County/ Clear Creek County/ Gilpin County/ Boulder County/ Larimer County/ Summit County/ Grand County/ Front Range/ Silver Plume batholith/
- Jenkins, E. D., 1961
records/ logs/ wells/ test holes/ chemical analyses/ radiometric analyses/ ground water/ Boulder area/ Boulder County/ Front Range/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/
- Kerr, P. F., 1950
uraninite/ Canada/ Idaho/ Lake Superior/ Caribou mine/ Wood's Hole/ Colorado/ Radium vein/ Boulder County/ igneous-metamorphic/ Front Range/ mineralogy/ veins/ ore deposits/
- Kerr, P. F., 1956
veins/ alteration/ exploration/ uranium/ geology/ Jamestown district/ Colorado Plateau/ Colorado/ sandstone/ Front Range/ igneous-metamorphic/ fluorite/ Boulder County/
- Kerr, P. F., 1956
veins/ alteration/ exploration/ uranium/ geology/ Colorado Plateau/ Colorado/ sandstone/ Jamestown district/ Front Range/ igneous-metamorphic/ fluorite/ Boulder County/
- King, R. U., 1950
Boulder County/ pitchblende/ veins/ igneous-metamorphic/ Precambrian rocks/ Caribou mine/ geology/ ore deposits/ No Name vein/ Radium vein/ silver/ uranium/ lead/ zinc/ analyses/ Front Range/
- King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/
- Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/
- King, R. U., 1952
ore deposits/ Boulder County/ Caribou mine/ veins/ No Name vein/ Radium vein/ uranium/ geology/ igneous-metamorphic/ Front Range/ pitchblende/
- King, R. U., 1952
uranium/ veins/ Caribou mine/ Boulder County/ Front Range/ igneous-metamorphic/ pitchblende/ ore deposits/ geology/
- King, R. U., 1953
reconnaissance/ Front Range/ igneous-metamorphic/ Clear Creek County/ Park County/ Summit County/ geology/ ore deposits/ Boulder County/
- King, R. U., and Moore, F. B., 1951
pitchblende/ ore deposits/ Clear Creek County/ Colorado/ Boulder County/ Front Range/ sandstone/ igneous-metamorphic/ sedimentary rocks/ Jefferson County/ geology/ Gilpin County/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/
- King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Kiowa County/ Larimer County/ Moffat County/ Pitkin County/ Rio Blanco County/ Routt County/ ore gullies/ pitchblende/ hydrocarbons/ metal-mining districts/ ore deposits/ limestone/ sandstone/ veins/ breccia pipes/ Eagle County/ hot spring deposits/ fluorite/ igneous-metamorphic/
- Kober, C. L., and Procter-Gregg, H. D., 1977
uranium/ alteration zones/ LANDSAT MSS Imagery/

- Jefferson County/ Boulder County/ Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/ Douglas County/ sandstone/ Front Range/ igneous-metamorphic/
- Larsen, E. S., 3d, 1957
analyses/ Colorado/ Wyoming/ Montana/ quartz monzonite/ granite/ Log Cabin batholith/ solubility/ uranium/ thorium/ Front Range/ Gilpin County/ Clear Creek County/ Boulder County/ Sherman batholith/ igneous-metamorphic/
- Leonard, B. F., 3d, 1952
Front Range/ ore deposits/ pitchblende/ hypogene zoning/ veins/ uranium/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/
- Leonard, B. F., 3d, 1952
veins/ Front Range mineralogy/ petrology/ pitchblende/ geochemistry/ ore deposits/ uranium/ Central City district/ bostonite/ Gilpin County/ Clear Creek County/ Larimer County/ Boulder County/ Jefferson County/ hypogene zoning/ igneous-metamorphic/
- Lester, O. C., 1918
springs/ radioactivity/ mineral springs/ Colorado/ spring deposits/ Delta County/ Boulder County/
- Lovering, T. S., 1942
Front Range/ mineral belt/ ore deposits/ Clear Creek County/ structural features/ igneous-metamorphic/ Gilpin County/ Boulder County/ Jefferson County/
- Lovering, T. S., and Goddard, E. N., 1938
Laramide/ tectonics/ differentiation/ Clear Creek County/ correlation/ geochemistry/ petrology/ Boulder County/ Grand County/ Summit County/ Gilpin County/ Park County/ Larimer County/ Teller County/ Jefferson County/ Front Range/ igneous-metamorphic/
- Mallory, N. S., and Bird, A. G., 1953
exploration/ geology/ Jefferson County/ Ralston Creek area/ Dawson arkose/ James Peak area/ Boulder County/ Adams County/ Larimer County/ Gilpin County/ igneous-metamorphic/ Idaho Springs Formation/ sandstone/ Dakota Sandstone/ Morrison Formation/ Front Range/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Front Range/ exploration/ Morrison Formation/ phosphates/ shale/ sandstone/ igneous-metamorphic/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ Dolores County/ Front Range/ Boulder County/ Gilpin County/ Clear Creek County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Clear Creek County/ Caribou district/ igneous-metamorphic/ Montrose County/ Clear Creek County/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Clear Creek County/ Caribou district/ igneous-metamorphic/
- Merwin, S. S., 1956
Front Range/ ore deposits/ uranium/ Jefferson County/ Gilpin County/ Clear Creek County/ Boulder County/ Schwartzwalder mine/ Caribou mine/ Wood mine/ igneous-metamorphic/
- Merwin, S. S., 1956
Front Range/ ore deposits/ ore controls/ Jefferson County/ Boulder County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/
- Moore, F. B., and Cavender, W. S., 1952
pitchblende/ Caribou mine/ Boulder County/ uranium/ igneous-metamorphic/ veins/ ore deposits/ Front Range/
- Moore, F. B., and Cavender, W. S., 1952
veins/ Caribou mine/ Boulder County/ pitchblende/ igneous-metamorphic/ monzonite/ uranium/ Front Range/ ore deposits/
- Moore, F. B., and Cavender, W. S., 1953
pitchblende/ Caribou mine/ Boulder County/ veins/ monzonite/ igneous-metamorphic/ ore deposits/ Front Range/
- Moore, F. B., Cavender, W. S., and Kaiser, E. P., 1954
Boulder County/ Caribou area/ pitchblende/ ore deposits/ geology/ igneous-metamorphic/ Belcher mine/ Caribou mines/ Comstock mine/ Cross mine/ Great Northern mine/ Idaho mine/ No Name vein/ Poorman mine/ Potosi mine/ Radium vein/ Seven-thirty mine/ Sherman mine/ Silver Point mine/ Socorro mine/ Spencer mine/ Wigwam mine/ veins/ Front Range/ St. Louis mine/
- Moore, F. B., Cavender, W. S., and Kaiser, E. P., 1957
Boulder County/ Caribou area/ pitchblende/ ore deposits/ geology/ igneous-metamorphic/ Belcher mine/ Caribou mines/ Comstock mine/ Cross mine/ Great Northern mine/ Idaho mine/ No Name vein/ Poorman mine/ Potosi mine/ Radium vein/ St. Louis mine/ Seven-thirty mine/ Sherman mine/ Silver Point mine/ Socorro mine/ Spencer mine/ Wigwam mine/ veins/ Front Range/
- Moore, F. B., King, R. U., and Hinrichs, E. N., 1951
Caribou district/ Central City district/ Front Range/ Clear Creek County/ Gilpin County/ Boulder County/ ore deposits/ Grand Island district/

Jamestown district/ Lawson area/ Quartz Hill area/ fluorite deposits/ Calhoun mines/ Caribou mines/ Jo Reynolds mine/ Kirk mine/ Wood mine/ pitchblende/ breccia deposits/ igneous-metamorphic/ exploration/

Moore, G. W., 1953

Boulder County/ Centennial coal mine/ Crested Butte/ Rio Blanco County/ uranium/ coal/ Gunnison County/ aqueous solutions/ uranium extraction/ Kebler mine/

Moore, G. W., 1954

uranium extraction/ uranium/ coal/ Boulder County/ Centennial coal mine/ Crested Butte/ Kebler mine/ Rio Blanco County/ Gunnison County/ aqueous solutions/

Neuerburg, G. J., 1967

Boulder County/ Caribou stock/ accessory minerals/ magnetite/ zircon/ sulfides/ igneous-metamorphic/ uranium/ Front Range/

Nishimori, R. K., Ragland, P. C., Rogers, J. J., and others, 1977

uranium/ ore deposits/ granite/ igneous-metamorphic/ Wheeler Basin/ Grand County/ Front Range/ Park County/ Clear Creek County/ Gilpin County/ Boulder County/ Jefferson County/ bostonite dikes/ Central City district/

Osterwald, F. W., 1965

ore deposits/ genesis/ veins/ mining districts/ structural controls/ Moffat County/ pitchblende/ conglomerate/ Front Range/ igneous-metamorphic/ sandstone/ Jefferson County/ Boulder County/ Montrose County/ Clear Creek County/ Gilpin County/ Saguache County/ Fremont County/

Osterwald, F. W., and Dean, B. G., 1956

bibliography/ structural geology/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/ ore deposits/ tectonics/

Osterwald, F. W., and Dean, B. G., 1958

ore deposits/ tectonics/ structural geology/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/

Osterwald, F. W., and Dean, B. G., 1961

Cordilleran foreland/ ore deposits/ genesis/ structural controls/ tectonic patterns/ Front Range/ Denver basin/ uranium/ igneous-metamorphic/ Jefferson County/ Boulder County/ Clear Creek County/ Gilpin County/ Larimer County/

Phair, George, 1953

Front Range/ Central City district/ ore deposits/ geochemistry/ petrology/ mineralogy/ bostonite/ pitchblende/ Wood mine/ Kirk mine/ igneous-metamorphic/ Quartz Hill area/ Copper King mine/ Larimer

County/ Jamestown district/ Boulder County/ Chalk Mountain rhyolite/ Climax/ beta-uranophane/ uraninite/ Lake County/ Eagle County/ Summit County/

Phair, George, 1955

ore deposits/ mineralization/ igneous-metamorphic/ thorium/ analyses/ granite/ Front Range/ Boulder Creek batholith/ Sherman granite/ Pikes Peak granite/ New Hampshire/ Boulder County/

Phair, George, 1956

Colorado/ New Hampshire/ ore deposits/ geochemistry/ igneous rocks/ igneous-metamorphic/ Precambrian rocks/ granite/ Boulder Creek batholith/ Silver Plume granite/ Front Range/ Boulder County/

Phair, George, 1958

uranium/ thorium/ intrusives/ Laramide/ mineralogy/ geochemistry/ Caribou complex/ Boulder County/ Central City district/ Clear Creek County/ Gilpin County/ Jamestown district/ Gold Hill district/ Front Range/ igneous-metamorphic/

Phair, George, and Gottfried, David, 1955

Front Range/ Boulder Creek batholith/ Silver Plume/ ore deposits/ uranium/ Precambrian rocks/ granite/ igneous-metamorphic/ thorium/ Boulder County/

Phair, George, and Gottfried, David, 1958

fractionation/ uranium/ rocks/ minerals/ Boulder Creek batholith/ igneous-metamorphic/ Front Range/ Boulder County/

Phair, George, and Gottfried, David, 1958

zircon/ Boulder Creek batholith/ Front Range/ igneous-metamorphic/ granite/ uranium/ Precambrian rocks/ age dates/ ore deposits/ Boulder County/

Phair, George, and Gottfried, David, 1964

Front Range/ ore province/ thorium/ uranium/ igneous-metamorphic/ Boulder County/ Clear Creek County/ Gilpin County/ Jefferson County/ Larimer County/

Phair, George, and Mela, Henry, Jr., 1955

Bergen Park/ Breckenridge district/ Caribou district/ age determination/ Front Range/ Cotopaxi/ Gold Hill/ Guffey/ Laramide/ Isotopes/ Lawson-Dumont/ Silver Plume/ El Paso County/ mineralogy/ petrology/ geochemistry/ galena/ Summit County/ Boulder County/ Clear Creek County/ Gilpin County/ Fremont County/ Chaffee County/ isotopic variation/ igneous-metamorphic/

Phair, George, and Onoda, Kiyoko, 1950

Boulder County/ Jamestown district/ ore deposits/ mineralogy/ petrology/ geochemistry/ uraninite/ Blue Jay mine/ igneous-metamorphic/ Front Range/ fluorite/ veins/ fluorite breccias/

Phair, George, and Onoda, Kiyoko, 1951

Jamestown district/ Boulder County/ ore deposits/ hydrothermal uranophane/ fluorite breccias/ mineralogy/ petrology/ geochemistry/ thorium/ haloes/ Blue Jay mine/ igneous-metamorphic/ Front Range/

- Phair, George, and Shimamoto, K. O., 1952
veins/ hydrothermal uranorthorite/ Blue Jay mine/
Jamestown district/ Boulder County/ thin sections/
heavy minerals/ New Zealand/ Alaska/ comparisons/
fluorite breccias/ mineralogy/ petrology/ geochemistry/
haloes/ Front Range/ igneous-metamorphic/
- Piiler, Richard, and Adams, J. A. S., 1959
ore deposits/ resources/ Pennsylvanian/ thorium/
uranium/ Boulder County/ analyses/ Front Range/
geochemistry/ igneous-metamorphic/ weathering
profile/
- Piiler, Richard, and Adams, J. A. S., 1962
weathering profiles/ pre-Pennsylvanian/ Pennsylvanian/
thorium/ uranium/ Boulder County/ geochemistry/
igneous-metamorphic/ analyses/ Front Range/
- Popenoe, Peter, 1965
arkose/ shale/ sandstone/ conglomerate/ Denver
basin/ Larimer County/ Boulder County/ Jefferson
County/ Douglas County/ Elbert County/ Arapahoe
County/ Denver County/ Adams County/ Weld County/
Morgan County/ geology/ aeroradioactivity survey/
conglomerate/ Front Range/
- Popenoe, Peter, 1965
Laramie Formation/ Dawson arkose/ Pierre Shale/
Castle Rock Conglomerate/ Denver basin/ Larimer
County/ Boulder County/ Jefferson County/ Douglas
County/ Elbert County/ Arapahoe County/ Denver
County/ Adams County/ Weld County/ Morgan County/
gamma-ray logs/ airborne radioactivity/ Front
Range/ Fox Hills Sandstone/
- Rabbitt, J. C., 1951
Central City district/ Jamestown district/ ore
deposits/ pitchblende/ Blue Jay mine/ bostonite/
fluorite/ veins/ breccia/ Colorado Plateau/
carnotite project/ sandstone/ igneous-metamorphic/
Boulder County/ Gilpin County/ Clear Creek County/
Front Range/
- Rabbitt, J. C., 1951
Blue Jay mine/ Jamestown district/ Colorado
Plateau/ bostonite dikes/ Front Range/ Central
City district/ mineralogy/ petrology/ geochemistry/
radioactivity/ fluorite/ Clear Creek County/
pitchblende/ ore deposits/ minerals/ Gilpin
County/ veins/ breccia/ sandstone/ Boulder County/
igneous-metamorphic/
- Rabbitt, J. C., 1951
Front Range/ Central City district/ ore deposits/
ore guides/ exploration/ Clear Creek County/
Gilpin County/ Colorado Plateau/ Jamestown district/
mineralogy/ petrology/ geochemistry/ pitchblende/
Blue Jay mine/ bostonite/ fluorite/ veins/ breccia/
sandstone/ igneous-metamorphic/ Boulder County/
- Ridland, G. C., 1949
Caribou mine/ silver/ uranium/ pitchblende/
Boulder County/ geology/ igneous-metamorphic/
Idaho Springs blotite schist/ Precambrian rocks/
quartz monzonite property/ No Name vein/ Front
Range/ veins/
- Ridland, G. C., 1950
veins/ ore deposits/ pitchblende/ Boulder County/
Caribou mine/ radioactivity/ No Name vein/ Radium
vein/ igneous-metamorphic/ Front Range/ silver/
- Ridland, G. C., 1951
ore deposits/ pitchblende/ Boulder County/ Caribou
mine/ radioactivity/ No Name vein/ Radium vein/
veins/ igneous-metamorphic/ Front Range/ silver/
- Russell, W. L., and Scherbatskoy, S. A., 1951
Colorado Plateau/ ore deposits/ genesis/ exploration/
gamma-ray detectors/ sandstone/ Front Range/
instrumentation/ Morrison Formation/ Salt Wash
Member/ Gilpin County/ Clear Creek County/ Boulder
County/ San Miguel County/ Montrose County/
igneous-metamorphic/ Entrada Sandstone/
- Sims, P. K., 1956
Front Range/ ore deposits/ uranium/ Larimer
County/ Boulder County/ Gilpin County/ Clear
Creek County/ Jefferson County/ Fremont County/
igneous-metamorphic/
- Sims, P. K., 1963
geology/ uranium/ ore deposits/ Front Range/
Gilpin County/ production/ Summit County/ Clear
Creek County/ Boulder County/ Grand County/
Central City district/ Idaho Springs district/
Lawson-Dumont-Fall River district/ Freeland-Lamartine
district/ gneiss/ thorium/ pegmatites/ alaskite/
bostonite/ Chicago Creek district/ igneous-metamorphic/
monazite/
- Sims, P. K., and Sheridan, D. M., 1964
geology/ ore deposits/ Front Range/ genesis/
mineralogy/ analyses/ emission spectroscopy/
uranium/ veins/ igneous-metamorphic/ Clear Creek
County/ Gilpin County/ Boulder County/ Larimer
County/
- Sims, P. K., Young, E. J., and Sharp, W. N., 1961
coffinite/ uranium/ veins/ Front Range/ Boulder
County/ Larimer County/ Jefferson County/ Clear
Creek County/ igneous-metamorphic/ ore deposits/
- Tourtelot, H. A., 1955
Boulder County/ Cheyenne County/ Crowley County/
Jefferson County/ Kiowa County/ Larimer County/
Pueblo County/ mineralogy/ petrology/ geochemistry/
black shale/ alteration/ White River group/
uranium/ radioactivity/ Cretaceous shales/ Great
Plains/ El Paso County/
- Tourtelot, H. A., 1956
marine black shales/ Boulder County/ Crowley
County/ El Paso County/ Jefferson County/ Kiowa
County/ Larimer County/ Pueblo County/ petrology/
geochemistry/ black shale/ alteration/ White
River group/ uranium/ radioactivity/ Cretaceous
shales/ Great Plains/ Cheyenne County/ mineralogy/
- Tovote, W. L., 1906
Boulder County/ igneous-metamorphic/ Front Range/
- Trautwein, C. M., 1975
Precambrian rocks/ stratigraphy/ structure/
metamorphic petrology/ Eldorado Springs quadrangle/

- Ralston Buttes quadrangle/ Jefferson County/ Boulder County/ Front Range/ igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Boulder County/ Front Range/ ore deposits/ reconnaissance/ igneous-metamorphic/ sandstone/
- U.S. Geological Survey, 1953
Colorado Plateau/ Front Range/ sandstone/ coal/ springs/ igneous-metamorphic/ shale/ Gilpin County/ Clear Creek County/ Jefferson County/ Boulder County/ Custer County/ thorium/ Gunnison County/ La Plata County/ San Juan County/ Ouray County/
- Walker, G. W., 1956
ore deposits/ host rocks/ alteration/ veins/ sandstone/ igneous-metamorphic/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ dolomite/ Pitkin County/ Larimer County/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/
- Walker, G. W., 1963
alteration/ veins/ igneous-metamorphic/ sandstone/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ Cochetopa district/ ore deposits/ Placerville district/ San Miguel County/ Larimer County/ Central City district/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/
- Walker, G. W., and Adams, J. W., 1957
Boulder County/ Larimer County/ Clear Creek County/ Central City district/ Gilpin County/ Caribou mine/ Front Range/ Jefferson County/ Placerville district/ San Miguel County/ Colorado Plateau/ ore deposits/ Marshall Pass/ Saguache County/ Copper King mine/ sandstone/ mineralogy/ veins/ textures/ structures/ paragenesis/ Los Ochos mine/ Schwartzwalder mine/ igneous-metamorphic/
- Walker, G. W., and Adams, J. W., 1963
Boulder County/ Larimer County/ Placerville district/ Central City district/ Gilpin County/ Clear Creek County/ Front Range/ Jefferson County/ Schwartzwalder mine/ San Miguel County/ Colorado Plateau/ Copper King mine/ Saguache County/ ore deposits/ Caribou mine/ Los Ochos mine/ sandstone/ Colorado/ mineralogy/ igneous-metamorphic/ textures/ structures/ paragenesis/
- Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ geology/ Front Range/ Gilpin County/ Jefferson County/ sandstone/ Boulder County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/ Saguache County/ Custer County/ Chaffee County/ Clear Creek County/ Jamestown district/ Cochetopa district/ Powderhorn district/ Placerville district/
- Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ genesis/ Placerville district/ transportation/ deposition/ depositional environments/ Clear Creek County/ Gilpin County/ Saguache County/ Jefferson County/ Cochetopa district/ Front Range/ San Miguel County/ Leyden coal mine/ Larimer County/ Boulder County/ sandstone/ igneous-metamorphic/
- Wallace, S. R., and Campbell, R. H., 1953
Gold Hill/ ore deposits/ zoning/ Boulder County/ metalliferous districts/ igneous-metamorphic/ Front Range/
- Wallace, S. R., and Campbell, R. H., 1954
ore deposits/ zoning/ Gold Hill/ Boulder County/ igneous-metamorphic/ Front Range/
- Wallace, S. R., and Laub, D. C., 1954
veins/ Colorado/ Arizona/ ore deposits/ exploration/ zoning/ metalliferous deposits/ Gold Hill/ Boulder County/ igneous-metamorphic/ Front Range/
- Wallace, S. R., Leonard, B. F., 3d, and Campbell, R. H., 1955
Breckenridge district/ Caribou district/ Central City district/ Summit County/ Gold Hill district/ Freeland-Lamartine district/ Front Range/ Georgetown district/ Silver Plume district/ Idaho Springs district/ Lawson - Dumont district/ igneous-metamorphic/ Gilpin county/ Ward district/ Boulder County/ Clear Creek County/ hypogene mineral zoning/ Idaho Springs district/
- Wells, J. D., 1967
geology/ Eldorado Springs quadrangle/ Boulder County/ Jefferson County/ igneous-metamorphic/ Front Range/
- Wilmarth, V. R., Bauer, H. L., Jr., Staatz, M. H., and Wyant, D. G., 1951
uranium/ fluorite/ ore deposits/ ore classification/ Front Range/ Boulder County/ igneous-metamorphic/ veins/
- Wilmarth, V. R., Bauer, H. L., Jr., Staatz, M. H., and others, 1952
veins/ fluorite/ uranium/ Front Range/ Boulder County/ ore deposits/ igneous-metamorphic/ mineral association/
- Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/ ore deposits/ Jefferson County/ San Miguel County/ Saguache County/ Park County/ Boulder County/ Montrose County/ Moffat County/ sandstone/ Front Range/ coal/ igneous-metamorphic/
- Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/ sandstone/ production/ geology/ Boulder County/ Jefferson County/ Saguache County/ Park County/ Montrose County/ San Miguel County/ Moffat County/ coal/ igneous-metamorphic/ Front Range/
- Wood, J. R., 1912
vanadium/ Boulder County/ igneous-metamorphic/ Front Range/
- Wright, H. D., 1950
ore deposits/ radium/ veins/ wall-rock alteration/

BOULDER COUNTY

- Caribou mine/ Radium vein/ Igneous-metamorphic/
uraninite/ Front Range/ Boulder County/
- Wright, H. D., 1951
ore deposits/ paragenesis/ Boulder County/ Caribou
district/ Radium vein/ igneous-metamorphic/
uraninite/ silver/ Caribou mine/ Front Range/
veins/
- Wright, H. D., 1951
Canada/ Ontario/ ore deposits/ uraninite/ Caribou
mine/ alteration/ Boulder County/ paragenesis/
Front Range/ igneous-metamorphic/
- Wright, H. D., 1954
ore deposits/ uraninite/ mineralogy/ Boulder
County/ silver/ Radium vein/ uranium/ veins/
wall-rock/ igneous-metamorphic/ geochemistry/
Caribou mine/ Front Range/ Caribou district/
- Wright, H. D., and Shulhof, W. P., 1957
veins/ sulfide minerals/ Front Range/ Boulder
County/ igneous-metamorphic/ ore deposits/
- Wyant, D. G., 1949
Boulder County/ Wheelman (mine) tunnel/ pegmatites/
igneous-metamorphic/ Precambrian rocks/ granite/
gold/ wolframite/ veins/ Front Range/ analyses/

CHAFFEE COUNTY

- Adams, J. W., 1948
Chaffee County/ Gunnison County/ Mount Antero/
igneous-metamorphic/ beryl/ beryllium/ White
Mountain/
- Adams, J. W., 1951
Chaffee County/ Carbonate Mountain/ Garfield
quadrangle/ Mount Antero region/ brannerite/
California mine/ veins/ molybdenum/ pegmatites/
igneous-metamorphic/ aquamarine/ White Mountain/
granite/ quartz monzonite/ beryllium/
- Adams, J. W., 1953
veins/ pegmatite/ quartz/ beryllium/ Mount Antero/
White Mountain/ granite/ quartz monzonite/ California
mine/ brannerite/ aquamarine/ molybdenum/ Chaffee
County/ igneous-metamorphic/
- Baillie, W. N., 1962
pegmatites/ feldspar/ rare earths/ Boulder County/
Chaffee County/ Clear Creek County/ Douglas
County/ El Paso County/ Fremont County/ Gunnison
County/ Jefferson County/ Larimer County/ Park
County/ igneous-metamorphic/ Front Range/
- De Voto, R. H., 1961
South Park/ Park County/ sandstone/ Chaffee
County/ geology/ ore deposits/
- De Voto, R. H., 1971
South Park/ Park County/ Chaffee County/ sandstone/
geology/ geologic history/ Antero Reservoir
quadrangle/ ore deposits/
- Dings, M. G., 1952
Garfield quadrangle/ Taylor Park quadrangle/
- Chaffee County/ Gunnison County/ Bon Ton mine/
Little Jimmie prospect/ Madonna mine/ Silent
Friend mine/ reconnaissance/ radioactive material/
mining districts/ fault breccia/ shear zone
material/ ore deposits/ veins/ igneous-metamorphic/
geology/
- Dings, M. G., and Robinson, C. S., 1952
geology/ ore deposits/ Quartz Creek district/
Gunnison County/ Tin Cup district/ production/
igneous-metamorphic/ Garfield quadrangle/ Chaffee
County/
- Dings, M. G., and Robinson, C. S., 1957
geology/ ore deposits/ Gunnison County/ Chaffee
County/ production/ volcanic rocks/ Quartz Creek
district/ Tin Cup district/ Garfield quadrangle/
igneous-metamorphic/
- Dings, M. G., and Schafer, Max, 1953
veins/ Garfield quadrangle/ Taylor Park quadrangle/
igneous-metamorphic/ geology/ ore deposits/
Gunnison County/ Chaffee County/ Mount Antero
region/ Bon Ton mine/ Madonna mine/ brannerite/
black (marine carbonaceous) shales/ pegmatites/
reconnaissance/ radiometrics/ Silent Friend
mine/
- Dings, M. G., Robinson, C. S., and Brock, M. R., 1952
Garfield quadrangle/ Chaffee County/ Gunnison
County/ igneous-metamorphic/ geology/ ore deposits/
- Doe, B. R., and Pearson, R. C., 1969
chronology/ age dating/ uranium/ thorium/ lead/
zircons/ granite/ Chaffee County/ Gunnison County/
analyses/ St. Kevin granite/ igneous-metamorphic/
Sawatch Range/
- George, R. D., Curtis, H. A., Lester, O. C., and
others, 1920
Colorado Plateau/ mineralized waters/ springs/
spring deposits/ Front Range/ Jefferson County/
Pitkin County/ Pueblo County/ Garfield County/
Park County/ El Paso County/ Ouray County/ Boulder
County/ Gunnison County/ Delta County/ Chaffee
County/
- Guillotte, G. B., 1944
reconnaissance/ uranium/ ore deposits/ Front
Range/ igneous-metamorphic/ Park County/ Boulder
County/ Jamestown district/ Larimer County/
Masonville mines/ Chaffee County/ Trout Creek
permatites/ Clear Creek County/ carnotite/
- King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/
pitchblende/ Boulder County/ Clear Creek County/
Gilpin County/ Chaffee County/ Custer County/
El Paso County/ Fremont County/ Huerfano County/
Jefferson County/ Larimer County/ Teller County/
veins/ igneous-metamorphic/ stream sediments/
spring deposits/ shear zones/ pegmatites/ sandstone/
coal/ Eagle County/ Grand County/ Gunnison County/
Lake County/ Moffat County/ ore deposits/ Douglas
County/ San Miguel County/ Summit County/
- Knepper, D. H., Lee, Keenan, Butler, R. W., and
others, 1974
photogeology/ exploration/ hydrogeology/ remote

CHAFFEE COUNTY

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sensing/ uranium/ multispectral photography/
photomapping/ ore deposits/ Bonanza test site/
Saguache County/ Chaffee County/ geologic analyses/

Lee, Keenan, 1975

Colorado/ geology/ remote sensing/ hydrogeology/
uranium/ water/ resources/ Saguache County/
Chaffee County/ Bonanza test site/ ore deposits/

Lovering, T. G., and Beroni, E. P., 1956

Diamond J Ranch/ Golden Gate Canyon/ Haputa
Ranch area/ Ouray hot springs/ Chaffee County/
Custer County/ Gunnison County/ Jefferson County/
Ouray County/ radioactive limonite/ Lucky Break
Iron mine/ sandstone/ thorium/ uranium/ spring
deposits/ Front Range/ conglomerate/ limestone/
tufa/ analyses/ igneous-metamorphic/ ore deposits/
El Paso County/

Lovering, T. G., and Beroni, E. P., 1959

Diamond J Ranch/ Golden Gate Canyon/ Haputa
Ranch area/ Ouray hot springs/ Chaffee County/
Custer County/ Gunnison County/ Jefferson County/
Ouray County/ radioactive limonite/ Lucky Break
Iron mine/ thorium/ uranium/ spring deposits/
Front Range/ sandstone/ conglomerate/ limestone/
tufa/ El Paso County/ igneous-metamorphic/ ore
deposits/

Olson, J. C., 1977

uranium/ Pitch mine/ Gunnison County/ Saguache
County/ Chaffee County/ map/ igneous-metamorphic/
limestone/ shale/ ore deposits/ geology/

Osterwald, F. W., 1956

Cordilleran foreland/ Clear Creek County/ Jefferson
County/ ore deposits/ Routt County/ Jackson
County/ El Paso County/ Park County/ Grand County/
Front Range/ igneous-metamorphic/ Larimer County/
Eagle County/ Summit County/ Fremont County/
Saguache County/ Teller County/ Chaffee County/
tectonics/ Gilpin County/ Pueblo County/ Custer
County/ Precambrian/ genesis/ structures/

Page, L. R., 1950

Mount Antero region/ Crystal Mountain district/
San Juan Mountains/ Chaffee County/ Larimer
County/ helvite/ pegmatites/ beryllium/ beryl/
Colorado Plateau/ igneous-metamorphic/ Devils
Hole mine/ Fremont County/ Gunnison County/
Jefferson County/ San Juan County/ Front Range/
aquamarine/

Page, L. R., 1950

beryllium/ beryl/ Colorado Plateau/ pegmatites/
Larimer County/ igneous-metamorphic/ San Juan
County/ Devils Hole mine/ Fremont County/ Gunnison
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district/

Page, L. R., 1950

pegmatite/ geochemistry/ igneous-metamorphic/
uranium/ mineralogy/ Gunnison County/ Larimer
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Range/

Phair, George, and Mala, Henry, Jr., 1955

Bergen Park/ Breckenridge district/ Caribou

CHEYENNE COUNTY

district/ age determination/ Front Range/ Cotopaxi/
Gold Hill/ Guffey/ Laramide/ Isotopes/ Lawson-Dumont/
Silver Plume/ El Paso County/ mineralogy/ petrology/
geochemistry/ galena/ Summit County/ Boulder
County/ Clear Creek County/ Gilpin County/ Fremont
County/ Chaffee County/ isotopic variation/
igneous-metamorphic/

Pierson, C. T., Singewald, Q. D., and Dings, M.
G., 1953

Colorado mineral belt/ ore deposits/ exploration/
St. Kevin district/ Summit County/ Chaffee County/
Gunnison County/ Glacier Mountain/ Alma district/
Lake County/ igneous-metamorphic/ Park County/

U.S. Atomic Energy Commission, 1966

geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Chaffee County/ reconnaissance/
ore deposits/ sandstone/ igneous-metamorphic/

Van Alstine, R. E., 1968

structural geology/ Tertiary trough/ Arkansas
Valley/ San Luis Valley/ Rio Grande depression/
Fremont County/ Chaffee County/ Lake County/
Saguache County/

Van Alstine, R. E., 1971

geology/ map/ Poncha Springs SE quadrangle/
Chaffee County/

Walker, G. W., 1957

Marysvale/ leaching/ uranium/ ore deposits/
supergene alteration/ veins/ Marshall Pass/
Colorado/ Utah/ Saguache County/ Nigger shaft/
North Star mine/ Jefferson County/ Gilpin County/
Front Range/ sandstone/ igneous-metamorphic/
zoning/ Madonna mine/ Chaffee County/

Walker, G. W., 1963

Marysvale/ leaching/ uranium/ ore deposits/
supergene alteration/ veins/ Marshall Pass/
Colorado/ Utah/ Saguache County/ Nigger Shaft/
North Star mine/ Jefferson County/ Gilpin County/
Front Range/ sandstone/ igneous-metamorphic/
zoning/ Madonna mine/ Chaffee County/

Walker, G. W., and Osterwald, F. W., 1956

ore deposits/ veins/ fluorite/ Front Range/
Gilpin County/ coal/ Jefferson County/ Placerville
district/ San Miguel County/ Clear Creek County/
sandstone/ igneous-metamorphic/ Colorado Plateau/
Cochetopa district/ Saguache County/ Powderhorn
district/ Custer County/ Chaffee County/

Walker, G. W., and Osterwald, F. W., 1963

ore deposits/ veins/ geology/ Front Range/ Gilpin
County/ Jefferson County/ sandstone/ Boulder
County/ San Miguel County/ igneous-metamorphic/
Colorado Plateau/ Saguache County/ Custer County/
Chaffee County/ Clear Creek County/ Jamestown
district/ Cochetopa district/ Powderhorn district/
Placerville district/

CHEYENNE COUNTY

Landis, E. R., 1954

Colorado/ Kansas/ exploration/ black shale/

CHEYENNE COUNTY

CLEAR CREEK COUNTY

Cretaceous/ Cheyenne County/ Kiowa County/ Crowley County/ Las Animas County/ map/ Pierre Shale/

properties/ areal geology/ economics/ veins/ uranium/ igneous-metamorphic/ Clear Creek County/ gneiss/ schist/ pegmatite/ Front Range/

Landis, E. R., 1955

Cheyenne County/ Crowley County/ Kiowa County/ Las Animas County/ Pueblo County/ genesis/ Pierre Shale/ Niobrara Formation/ shale/ Sharon Spring Member/ black shales/ ore deposits/ radioactivity/ uranium/ Yuma County/ stratigraphy/ uraniferous/

Anonymous, 1950

Clear Creek County/ pitchblende/ igneous-metamorphic/ Front Range/

Landis, E. R., 1956

ground water/ surface water/ Kansas/ Colorado/ Oklahoma/ shale/ tuff/ sandstone/ Smoky Hill River valley/ Rule Creek basin/ Baca County/ siltstone/ uranium/ claystone/ Bent County/ Las Animas County/ Kiowa County/ Cheyenne County/ Crowley County/ Lincoln County/ springs/ wells/ Muddy Creek/ geochemistry/

Armstrong, F. C., 1952

pitchblende/ ore deposits/ Quartz Hill/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ uranium/ ore grade/ veins/ Front Range/ Central City district/

Landis, E. R., 1957

Colorado/ Kansas/ New Mexico/ Oklahoma/ exploration/ geochemistry/ ground water/ surface water/ tuff/ shale/ sandstone/ wells/ springs/ Cheyenne County/ Bent County/ Las Animas County/ Kiowa County/ Crowley County/ Lincoln County/ uranium/ Baca County/

Armstrong, F. C., 1952

pitchblende/ ore deposits/ Quartz Hill/ Central City district/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ gneiss/ schist/ pegmatite/ Front Range/

Landis, E. R., 1959

Colorado/ Kansas/ ore deposits/ Cretaceous/ Pierre Shale/ Sharon Springs Member/ radioactivity/ Cheyenne County/ Crowley County/ Kiowa County/ Yuma County/ Las Animas County/ Pueblo County/ shale/ black shale/

Ballie, W. N., 1962

pegmatites/ feldspar/ rare earths/ Boulder County/ Chaffee County/ Clear Creek County/ Douglas County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Park County/ igneous-metamorphic/ Front Range/

Landis, E. R., 1960

ground water/ surface water/ Great Plains/ analyses/ Baca County/ Bent County/ Cheyenne County/ Crowley County/ Kiowa County/ Lincoln County/ Prowers County/ sandstone/ Las Animas County/ geochemistry/

Bain, H. F., 1914

Idaho Springs/ Clear Creek County/ springs/ radium/ Front Range/ igneous-metamorphic/

Scott, R. C., and Barker, F. B., 1961

ground water/ radium/ La Plata County/ Cheyenne County/ Kiowa County/ Lincoln County/ Crowley County/ Otero County/ Bent County/ Prowers County/ Las Animas County/ Baca County/ Montezuma County/ Archuleta County/ Colorado Plateau/

Bastin, E. S., and Hill, J. M., 1915

Gilpin County/ igneous-metamorphic/ Boulder County/ Quartz Hill/ gold/ silver/ uranium/ copper/ tungsten/ Front Range/ ore deposits/ Clear Creek County/

Tourtelot, H. A., 1955

Boulder County/ Cheyenne County/ Crowley County/ Jefferson County/ Kiowa County/ Larimer County/ Pueblo County/ mineralogy/ petrology/ geochemistry/ black shale/ alteration/ White River group/ uranium/ radioactivity/ Cretaceous shales/ Great Plains/ El Paso County/

Bertrand, Didier, 1950

biogeochemistry/ vanadium/ rocks/ sediments/ water/ soil/ coal/ Jamestown district/ Front Range/ Gilpin County/ igneous-metamorphic/ plants/ animals/ oil/ asphalt/ Clear Creek County/

Tourtelot, H. A., 1956

marine black shales/ Boulder County/ Crowley County/ El Paso County/ Jefferson County/ Kiowa County/ Larimer County/ Pueblo County/ petrology/ geochemistry/ black shale/ alteration/ White River group/ uranium/ radioactivity/ Cretaceous shales/ Great Plains/ Cheyenne County/ mineralogy/

Bieniewski, C. L., Persse, F. H., and Brauch, E. F., 1971

Colorado Plateau/ Rifle district/ Front Range/ Garfield County/ Clear Creek County/ Jefferson County/ Boulder County/ resources/ price/ cost analysis/ sandstone/ igneous-metamorphic/ Marshall Pass/

Boos, C. M., and Boos, M. F., 1957

tectonics/ Front Range/ igneous-metamorphic/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ geology/ Clear Creek County/ Park County/ Douglas County/ Teller County/ El Paso County/ Fremont County/ Pueblo County/ granite/ schist/ gneiss/ pegmatite/

Braddock, W. A., 1969

geology/ ore deposits/ Empire quadrangle/ Grand County/ Gilpin County/ Clear Creek County/ Front Range/ igneous-metamorphic/

Brinkworth, G. L., 1974

geophysical investigations/ Front Range/ mineral belt/ igneous-metamorphic/ Jefferson County/ Boulder County/ Clear Creek County/ Gilpin County/ geophysics/

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Als Dorf, P. R., 1916

Gilpin County/ ore deposits/ pitchblende/ occurrence/

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Butler, A. P., Jr., 1952

Front Range/ thorium/ Colorado Plateau/ Morrison Formation/ Igneous-metamorphic/ Chino Formation/ Shinarump Member/ geology/ ore deposits/ pegmatites/ veins/ sandstone/ placers/ carnotite/ fresh waters/ gases/ Gilpin County/ Clear Creek County/ Custer County/ Lake County/ San Miguel County/ Gunnison County/

Butler, A. P., Jr., Killeen, P. L., Page, G. B., and Rubey, W. W., 1947

ore deposits/ resources/ reconnaissance/ Front Range/ reserves/ Colorado Plateau/ carnotite/ uranium/ vanadium/ igneous-metamorphic/ uraninite/ Iron Hill/ Gunnison County/ Gilpin County/ Clear Creek County/ radioactive springs/ thorium/ mineralogy/ San Miguel County/ Montrose County/ Mesa County/ sandstone/ genesis/

Carter, W. D., and Gualtieri, J. L., 1958

map/ tectonics/ Colorado/ Utah/ Moffat County/ Logan County/ geology/ Larimer County/ Jackson County/ Boulder County/ Jefferson County/ Clear Creek County/ Gilpin County/ Summit County/ Grand County/ Eagle County/ Routt County/ Garfield County/ Rio Blanco County/ sandstone/ ore deposits/ igneous-metamorphic/

Decker, E. R., 1969

geophysics/ geothermal/ radioactive materials/ heat flow/ Colorado/ New Mexico/ Summit County/ Jefferson County/ Clear Creek County/ La Plata County/ igneous-metamorphic/ Roberts tunnel/

Drake, A. A., Jr., 1955

ore deposits/ Wood mine/ Central City district/ pitchblende/ Gilpin County/ uranium/ veins/ igneous-metamorphic/ Clear Creek County/ Front Range/

Drake, A. A., Jr., 1955

Front Range/ igneous-metamorphic/ Central City district/ Gilpin County/ geology/ mineralogy/ petrology/ geochemistry/ pitchblende/ ore deposits/ Calhoun mines/ Wood mine/ production/ veins/ Precambrian rocks/ Quartz Mill vein/ Wood vein/ Willowdale vein/ paragenesis/ alteration/ bostonite porphyry/ Clear Creek County/

Drake, A. A., Jr., 1957

veins/ Precambrian rock/ bostonite porphyry/ pitchblende/ production/ Central City district/ Gilpin County/ structure/ geology/ Wood-East Calhoun area/ igneous-metamorphic/ East Calhoun mine/ Clear Creek County/ mineralogy/ Front Range/ Wood mine/

Everhart, D. L., and Wright, R. J., 1953

veins/ pitchblende/ geologic features/ sulfides/ Precambrian rocks/ Canadian shield/ Paleozoic/ Tertiary/ paragenesis/ alteration/ sandstone/ Africa/ Idaho/ Front Range/ Gilpin County/ Clear Creek County/ Boulder County/ Utah/ Colorado Plateau/ igneous-metamorphic/

Flix, P. F., 1956

hydrogeochemistry/ surface water/ ground water/

uranium/ exploration/ Front Range/ Colorado Plateau/ Central City/ Clear Creek County/

Flix, P. F., 1956

hydrogeochemistry/ surface water/ ground water/ uranium/ exploration/ Front Range/ Colorado Plateau/ Central City/ Gilpin County/ Clear Creek County/

Gottfried, David, 1956

Front Range/ ore deposits/ exploration/ Precambrian rocks/ igneous complexes/ granite/ uranium/ Jefferson County/ Clear Creek County/ Gilpin County/ Pikes Peak batholith/ Log Cabin batholith/ Boulder County batholith/ igneous-metamorphic/ Boulder County/

Grossman, E. L., 1957

Front Range/ ore deposits/ uranium/ Gilpin County/ Clear Creek County/ Jefferson County/ Schwartzwalder mine/ pitchblende/ igneous-metamorphic/ Ludwig mine/ Leyden mine/ Boulder County/ coal/ sandstone/ Morrison Formation/ Park County/ Gem Dandy/

Guillotte, G. B., 1944

reconnaissance/ uranium/ ore deposits/ Front Range/ igneous-metamorphic/ Park County/ Boulder County/ Jamestown district/ Larimer County/ Masonville mines/ Chaffee County/ Trout Creek permatites/ Clear Creek County/ carnotite/

Guillotte, G. B., 1944

uranium/ ore deposits/ Grover pegmatite mine/ igneous-metamorphic/ Clear Creek County/ Front Range/ columbite/ North Beaver Brook area/

Hall, C. R., 1976

alkalic/ igneous rocks/ igneous-metamorphic/ Gilpin County/ Front Range/ bibliography/ San Juan County/ Custer County/ Fremont County/ La Plata County/ Montezuma County/ Gunnison County/ Saguache County/ El Paso County/ Rio Grande County/ Jefferson County/ Larimer County/ Boulder County/ Colorado Plateau/ Clear Creek County/ Teller County/

Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950

pegmatites/ geology/ mineralogy/ Chaffee County/ Boulder County/ Clear Creek County/ Douglas County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Montrose County/ Park County/ monazite/ thorium/ production/ Front Range/ El Paso County/ igneous-metamorphic/ Colorado Plateau/ Wyoming/ Utah/ Summit County/

Harder, J. O., and Wyant, D. G., 1944

Central City district/ Cripple Creek/ Jamestown district/ Nederland district/ Boulder County/ Gilpin County/ Gunnison County/ Teller County/ Clear Creek County/ ore deposits/ igneous-metamorphic/ reconnaissance/ Precambrian rocks/ granite/ veins/ Brown Derby Pegmatite/ Calhoun mine/ Belcher mine/ trace elements/ Front Range/

Harrison, J. E., 1952

Clear Creek County/ ore deposits/ Front Range/ Spring Gulch/ Lawson-Dumont district/ pegmatite/ granite/ schist/ minerals/ autunite/ metatorbernite/

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- pitchblende/ Martha E prospect/ Igneous-metamorphic/ Idaho Springs area/
- Harrison, J. E., 1953
fracture patterns/ Freeland-Lamartine district/ Colorado/ Clear Creek County/ Igneous-metamorphic/ veins/ Gilpin County/ thorium/ hypogene zoning/ Front Range/
- Harrison, J. E., 1953
Freeland-Lamartine district/ Clear Creek County/ veins/ Igneous-metamorphic/ Gilpin County/ Front Range/
- Harrison, J. E., 1955
fracture patterns/ Freeland-Lamartine district/ Clear Creek County/ Igneous-metamorphic/ Gilpin County/ veins/ thorium/ hypogene zoning/ Front Range/
- Harrison, J. E., and Leonard, B. F., 1952
Front Range/ Clear Creek County/ Lawson-Dumont district/ pitchblende/ Jo Reynolds mine/ veins/ stratigraphy/ Idaho Springs Formation/ Precambrian rocks/ Igneous-metamorphic/ structure/ ore deposits/ geology/ metamorphic rocks/ bostonite porphyry/ economic geology/
- Harrison, J. E., and Leonard, B. F., 1952
Front Range/ Clear Creek County/ Lawson-Dumont district/ pitchblende/ Jo Reynolds mine/ veins/ stratigraphy/ Idaho Springs Formation/ Precambrian rocks/ Igneous-metamorphic/ structure/ ore deposits/ geology/ metamorphic rocks/ bostonite porphyry/ economic geology/
- Harrison, J. E., and Wells, J. D., 1953
Igneous-metamorphic/ Clear Creek County/ Freeland district/ Chicago Creek area/ structure/ pitchblende/ Front Range/
- Harrison, J. E., and Wells, J. D., 1954
Freeland-Lamartine district/ Front Range/ autunite/ dumontite(?) / Arladne mine/ Belle Creole mine/ Invincible mine/ Golden Rod mine/ veins/ stratigraphy/ Idaho Springs Formation/ Igneous-metamorphic/ geology/ ore deposits/ Lone Tree mine/ Clear Creek County/ Belle of the West (mine) tunnel/
- Harrison, J. E., and Wells, J. D., 1956
Clear Creek County/ Chicago Creek area/ Front Range/ mineralogy/ petrology/ geochemistry/ breccia reefs/ pitchblende/ Igneous-metamorphic/ Intrusive Igneous rocks/ uranium/
- Harrison, J. E., and Wells, J. D., 1956
veins/ ore deposits/ production/ geology/ bostonite/ alaskite/ migmatite/ Freeland-Lamartine district/ Clear Creek County/ Igneous-metamorphic/ metamorphic rocks/ Front Range/
- Harrison, J. E., and Wells, J. D., 1959
Clear Creek County/ Chicago Creek area/ Front Range/ mineralogy/ petrology/ geochemistry/ breccia reefs/ minerals/ pitchblende/ Intrusive Igneous rocks/ pegmatites/ veins/ uranium/ geology/ genesis/ production/ ore deposits/ Igneous-metamorphic/
- Hawley, C. C., and Moore, F. B., 1955
Fall River area/ ore deposits/ genesis/ garnet/ quartz/ Clear Creek County/ veins/ uranium/ ore controls/ Igneous-metamorphic/ pitchblende/ wall rocks/ Front Range/ geology/
- Hawley, C. C., and Moore, F. B., 1967
Clear Creek County/ ore deposits/ resources/ Front Range/ geology/ genesis/ Lawson-Dumont-Fall River district/ veins/ Idaho Springs Formation/ Precambrian rocks/ Igneous-metamorphic/
- Hickling, N. L., Phair, G., Moore, R., and others, 1970
Boulder Creek batholith/ uranium/ thorium/ age patterns/ allanite/ mineralogy/ genesis/ paragenesis/ Igneous-metamorphic/ Jefferson County/ Clear Creek County/ Gilpin County/ Boulder County/ Larimer County/ Summit County/ Grand County/ Front Range/ Silver Plume batholith/
- Hirschi, H., 1923
Igneous-metamorphic/ Clear Creek County/ volcanic rocks/ pitchblende/ Central City district/ genesis/ Front Range/
- Kerr, P. F., Anderson, T. P., and Hamilton, Peggy-Kay, 1951
veins/ Bellevue-Rochester mine/ Igneous-metamorphic/ Clear Creek County/ alteration/ Front Range/ geology/
- King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ Igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/
- King, R. U., 1951
Lawson area/ Clear Creek County/ Jo Reynolds mine/ minerals/ pitchblende/ Precambrian rocks/ veins/ Igneous-metamorphic/ ore deposits/ geology/ schist/ granite/ Eilda tunnel/ Front Range/
- King, R. U., 1953
reconnaissance/ Front Range/ Igneous-metamorphic/ Clear Creek County/ Park County/ Summit County/ geology/ ore deposits/ Boulder County/
- King, R. U., and Beroni, E. P., 1953
Igneous-metamorphic/ reconnaissance/ Jefferson County/ Park County/ El Paso County/ Clear Creek County/ prospects/ uranium/ thorium/ Front Range/ ore deposits/ geology/
- King, R. U., and Granger, H. C., 1952
Clear Creek County/ torbernite/ George Peabody claim/ Little MacGregor claim/ Robineau claims/ Front Range/ granite/ pegmatites/ veins/ Little Mac claim/ ore deposits/ geology/ Igneous-metamorphic/
- King, R. U., and Moore, F. B., 1951
pitchblende/ ore deposits/ Clear Creek County/

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- Colorado/ Boulder County/ Front Range/ sandstone/ igneous-metamorphic/ sedimentary rocks/ Jefferson County/ geology/ Gilpin County/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/
- King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Kiowa County/ Larimer County/ Moffat County/ Pitkin County/ Rio Blanco County/ Routt County/ ore guides/ pitchblende/ hydrocarbons/ metal-mining districts/ ore deposits/ limestone/ sandstone/ veins/ breccia pipes/ Eagle County/ hot spring deposits/ fluorite/ igneous-metamorphic/
- King, R. U., Moore, F. B., and Hinrichs, E. N., 1952
veins/ Colorado/ uranium/ Central City district/ Front Range/ San Miguel County/ pitchblende/ ore deposits/ Larimer County/ Jefferson County/ Gilpin County/ Ralston Creek district/ Jamestown district/ Caribou district/ Lawson district/ Clear Creek County/ igneous-metamorphic/
- Larsen, E. S., 3d, 1957
analyses/ Colorado/ Wyoming/ Montana/ quartz monzonite/ granite/ Log Cabin batholith/ solubility/ uranium/ thorium/ Front Range/ Gilpin County/ Clear Creek County/ Boulder County/ Sherman batholith/ igneous-metamorphic/
- Leonard, B. F., 3d, 1952
Front Range/ ore deposits/ pitchblende/ hypogene zoning/ veins/ uranium/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/
- Leonard, B. F., 3d, 1952
veins/ Front Range mineralogy/ petrology/ pitchblende/ geochemistry/ ore deposits/ uranium/ Central City district/ bostonite/ Gilpin County/ Clear Creek County/ Larimer County/ Boulder County/ Jefferson County/ hypogene zoning/ igneous-metamorphic/
- Leonard, B. F., 3d, 1952
Central City district/ Front Range/ pitchblende/ base metals/ precious metals/ Clear Creek County/ igneous-metamorphic/ Gilpin County/ zoning/ ore deposits/
- Leonard, B. F., 3d, 1953
ore deposits/ zoning/ pitchblende/ hypogene zoning/ Front Range/ igneous-metamorphic/ Central City district/ Gilpin County/ Clear Creek County/
- Leonard, B. F., 3d, 1953
pitchblende/ ore deposits/ zoning/ Lake County/ Front Range/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ Pitkin County/ Teller County/ San Juan County/ Coeur d'Alene/ Idaho/
- Lovering, T. S., 1942
Front Range/ mineral belt/ ore deposits/ Clear Creek County/ structural features/ igneous-metamorphic/ Gilpin County/ Boulder County/ Jefferson County/
- Lovering, T. S., and Goddard, E. N., 1938
Laramide/ tectonics/ differentiation/ Clear Creek County/ correlation/ geochemistry/ petrology/ Boulder County/ Grand County/ Summit County/ Gilpin County/ Park County/ Larimer County/ Teller County/ Jefferson County/ Front Range/ igneous-metamorphic/
- Lovering, T. S., and Goddard, E. N., 1950
veins/ Front Range/ economic geology/ production/ uranium/ Quartz Hill/ Clear Creek County/ geology/ ore deposits/ Gilpin County/ bostonite/ porphyry/ igneous-metamorphic/ Central City district/
- McKelvey, V. E., 1953
Colorado Plateau/ Dolores County/ Mesa County/ exploration/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ phosphates/ shale/ placers/
- McKelvey, V. E., 1953
veins/ Dolores County/ Mesa County/ exploration/ sandstone/ igneous-metamorphic/ Front Range/ pegmatites/ geobotany/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ Colorado Plateau/ phosphates/ shale/ placers/
- McKelvey, V. E., 1954
Dolores County/ Mesa County/ exploration/ carnotite/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ veins/ Colorado Plateau/ phosphates/ shale/ placers/
- McKelvey, V. E., 1955
ore deposits/ exploration/ veins/ bituminous substances/ coal/ sandstone/ phosphates/ United States/ Dolores County/ Mesa County/ Gilpin County/ igneous-metamorphic/ Clear Creek County/ Montrose County/ San Miguel County/ Front Range/ Colorado Plateau/

- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1955
genesis/ uranium/ ore deposits/ veins/ bituminous substances/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ Montrose County/ San Miguel County/ Mesa County/ igneous-metamorphic/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1955
veins/ bituminous substances/ genesis/ uranium/ ore deposits/ igneous-metamorphic/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ San Miguel County/ Montrose County/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ ore deposits/ migmatites/ sandstone/ shale/ igneous-metamorphic/ Colorado/ Colorado Plateau/ San Juan County/ San Miguel County/ coal/ Jefferson County/ Montrose County/ Old Leyden mine/ uranium/ Gilpin County/ Clear Creek County/ Front Range/ genesis/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ Colorado/ genesis/ uranium/ ore deposits/ pegmatites/ migmatites/ San Miguel County/ sandstone/ coal/ shale/ Front Range/ Colorado Plateau/ San Juan County/ replacement/ Jefferson County/ Montrose County/ Old Leyden mine/ Mesa County/ Gilpin County/ igneous-metamorphic/ phosphorites/ Clear Creek County/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Front Range/ exploration/ Morrison Formation/ phosphates/ shale/ sandstone/ igneous-metamorphic/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ Dolores County/ Gilpin County/ Clear Creek County/ Garfield County/ Boulder County/
- Merritt, P. L., 1950
uranium/ exploration/ Colorado Plateau/ sandstone/ Morrison Formation/ Entrada Sandstone/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Caribou district/ igneous-metamorphic/ Montrose County/ Clear Creek County/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Caribou district/ igneous-metamorphic/
- County/ Front Range/ Boulder County/ Gilpin County/ Clear Creek County/ Caribou district/ igneous-metamorphic/
- Merwin, S. S., 1956
Front Range/ ore deposits/ uranium/ Jefferson County/ Gilpin County/ Clear Creek County/ Boulder County/ Schwartzwalder mine/ Caribou mine/ Wood mine/ igneous-metamorphic/
- Merwin, S. S., 1956
Front Range/ ore deposits/ ore controls/ Jefferson County/ Boulder County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/
- Moench, R. H., 1953
mapping/ Idaho Springs district/ Precambrian rocks/ veins/ igneous-metamorphic/ mineralogy/ Stanley mines/ Lawrence L claim/ P. J. claim (?)/ radioactivity/ Clear Creek County/ Gilpin County/ Front Range/ geology/
- Moench, R. H., 1964
geology/ Precambrian rocks/ Idaho Springs district/ petrography/ Clear Creek County/ Gilpin County/ igneous-metamorphic/ Front Range/
- Moench, R. H., and Drake, A. A., Jr., 1966
economic geology/ pitchblende/ coffinite/ uranophane/ Idaho Springs district/ Clear Creek County/ Gilpin County/ mineralogy/ ore deposits/ Front Range/ production/ igneous-metamorphic/
- Moench, R. H., Harrison, J. E., and Sims, P. K., 1954
Precambrian rocks/ structure/ Idaho Springs district/ Front Range/ geology/ Gilpin County/ Jefferson County/ igneous-metamorphic/ Clear Creek County/
- Moench, R. H., Harrison, J. E., and Sims, P. K., 1962
Precambrian rocks/ structure/ Idaho Springs district/ Central City district/ Front Range/ Gilpin County/ Clear Creek County/ igneous-metamorphic/
- Moore, F. B., 1953
Dumont-Fall River area/ Clear Creek County/ radioactivity/ veins/ Golden Calf mine/ Front Range/ igneous-metamorphic/
- Moore, F. B., and Hawley, C. C., 1952
geology/ ore deposits/ Lawson-Dumont-Fall River district/ Clear Creek County/ igneous-metamorphic/ Front Range/
- Moore, F. B., and Hawley, C. C., 1953
Dumont-Fall River district/ Clear Creek County/ igneous-metamorphic/ mapping/ veins/ radioactivity/ Front Range/
- Moore, F. B., King, R. U., and Hinrichs, E. N., 1951
Caribou district/ Central City district/ Front Range/ Clear Creek County/ Gilpin County/ Boulder County/ ore deposits/ Grand Island district/ Jamestown district/ Lawson area/ Quartz Hill area/ fluorite deposits/ Calhoun mines/ Caribou mines/ Jo Reynolds mine/ Kirk mine/ Wood mine/ pitchblende/ breccia deposits/ igneous-metamorphic/ exploration/

- Narten, P. F., Crawford, J. E., and Butler, A. P., Jr., 1951
Clear Creek County/ Garfield County/ Jefferson County/ Montrose County/ Rio Blanco County/ Dakota Sandstone/ Mesa County/ Fountain Formation/ Green River Formation/ Laramie Formation/ Hermosa Formation/ Paradox Member/ shales/ sandstone/ Front Range/ Colorado Plateau/
- Nishimori, R. K., Ragland, P. C., Rogers, J. J., and others, 1977
uranium/ ore deposits/ granite/ igneous-metamorphic/ Wheeler Basin/ Grand County/ Front Range/ Park County/ Clear Creek County/ Gilpin County/ Boulder County/ Jefferson County/ bostonite dikes/ Central City district/
- Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/
- Osterwald, F. W., 1956
veins/ structural geology/ Precambrian rocks/ Teller County/ structural controls/ ore deposits/ Cordilleran foreland/ igneous-metamorphic/ Gilpin County/ Front Range/ tectonics/ El Paso County/ Larimer County/ Clear Creek County/
- Osterwald, F. W., 1965
ore deposits/ genesis/ veins/ mining districts/ structural controls/ Moffat County/ pitchblende/ conglomerate/ Front Range/ igneous-metamorphic/ sandstone/ Jefferson County/ Boulder County/ Montrose County/ Clear Creek County/ Gilpin County/ Saguache County/ Fremont County/
- Osterwald, F. W., and Dean, B. G., 1956
bibliography/ structural geology/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/ ore deposits/ tectonics/
- Osterwald, F. W., and Dean, B. G., 1958
ore deposits/ tectonics/ structural geology/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/
- Osterwald, F. W., and Dean, B. G., 1961
Cordilleran foreland/ ore deposits/ genesis/ structural controls/ tectonic patterns/ Front Range/ Denver basin/ uranium/ igneous-metamorphic/ Jefferson County/ Boulder County/ Clear Creek County/ Gilpin County/ Larimer County/
- Phair, George, 1952
ore deposits/ porphyries/ radioactivity/ Gilpin County/ Central City district/ pitchblende/ Tertiary/ deposition/ Front Range/ mineralogy/ petrology/ geochemistry/ zircon/ veins/ uranium/ thorium/ analyses/ Quartz Hill/ Nigger Hill dike/ Clear Creek County/ igneous-metamorphic/ ore deposits/
- Phair, George, 1952
Front Range/ Central City district/ ore deposits/ Clear Creek County/ Gilpin County/ analyses/ quartz monzonite/ igneous-metamorphic/ Wood mine/ Kirk Mine/ Quartz Hill area/ pitchblende/ Copper King mine/ Larimer County/ paragenesis/
- Phair, George, 1953
Front Range/ veins/ igneous-metamorphic/ ore deposits/ Central City district/ Idaho Springs district/ Gilpin County/ Clear Creek County/ reserves/ Wood mine/ Kirk mine/ Bonanza mine/ German mine/ pitchblende/ Martha E mine/
- Phair, George, 1958
uranium/ thorium/ intrusives/ Laramide/ mineralogy/ geochemistry/ Caribou complex/ Boulder County/ Central City district/ Clear Creek County/ Gilpin County/ Jamestown district/ Gold Hill district/ Front Range/ igneous-metamorphic/
- Phair, George, and Antweiler, J. C., 1954
Larimer County/ Copper King mine/ ore deposits/ geochemistry/ mineralogy/ uraninite/ coffinite/ pitchblende/ Front Range/ Central City district/ Gilpin County/ igneous-metamorphic/ absolute age/ Clear Creek County/
- Phair, George, and Gottfried, David, 1964
Front Range/ ore province/ thorium/ uranium/ igneous-metamorphic/ Boulder County/ Clear Creek County/ Gilpin County/ Jefferson County/ Larimer County/
- Phair, George, and Herz, Norman, 1953
ore deposits/ pitchblende/ coffinite/ geochemistry/ Front Range/ igneous-metamorphic/ quartz bostonite dikes/ Central City district/ Clear Creek County/ Gilpin County/ mineralogy/ petrology/
- Phair, George, and Levine, Harry, 1952
Central City district/ Wood mine/ geochemistry/ uranium/ radium/ lead/ pitchblende/ solutions/ Katanga/ Great Bear Lake/ Russel Gulch/ Clear Creek County/ Gilpin County/ igneous-metamorphic/ Front Range/ differential leaching/
- Phair, George, and Levine, Harry, 1952
uranium/ radium/ lead/ pitchblende/ Wood mine/ Central City district/ Gilpin County/ analyses/ exploration/ igneous-metamorphic/ Clear Creek County/ Front Range/ differential leaching/
- Phair, George, and Mela, Henry, Jr., 1955
Bergen Park/ Breckenridge district/ Caribou district/ age determination/ Front Range/ Cotopaxi/ Gold Hill/ Guffey/ Laramide/ isotopes/ Lawson-Dumont/ Silver Plume/ El Paso County/ mineralogy/ petrology/ geochemistry/ galena/ Summit County/ Boulder

- County/ Clear Creek County/ Gilpin County/ Fremont County/ Chaffee County/ Isotopic variation/ Igneous-metamorphic/
- Phair, George, and Shimamoto, K. O., 1953
Front Range/ ore deposits/ mineralization/ mineralogy/ petrology/ geochemistry/ porphyries/ pitchblende/ Central City district/ Igneous-metamorphic/ Clear Creek County/ Gilpin County/
- Rabblitt, J. C., 1951
Central City district/ Jamestown district/ ore deposits/ pitchblende/ Blue Jay mine/ bostonite/ fluorite/ veins/ breccia/ Colorado Plateau/ carnotite project/ sandstone/ Igneous-metamorphic/ Boulder County/ Gilpin County/ Clear Creek County/ Front Range/
- Rabblitt, J. C., 1951
Blue Jay mine/ Jamestown district/ Colorado Plateau/ bostonite dikes/ Front Range/ Central City district/ mineralogy/ petrology/ geochemistry/ radioactivity/ fluorite/ Clear Creek County/ pitchblende/ ore deposits/ minerals/ Gilpin County/ veins/ breccia/ sandstone/ Boulder County/ Igneous-metamorphic/
- Rabblitt, J. C., 1951
Front Range/ Central City district/ ore deposits/ ore guides/ exploration/ Clear Creek County/ Gilpin County/ Colorado Plateau/ Jamestown district/ mineralogy/ petrology/ geochemistry/ pitchblende/ Blue Jay mine/ bostonite/ fluorite/ veins/ breccia/ sandstone/ Igneous-metamorphic/ Boulder County/
- Rabblitt, J. C., 1952
Colorado Plateau/ Front Range/ Central City district/ ore deposits/ exploration/ trace elements/ sandstone/ Igneous-metamorphic/ Gilpin County/ Clear Creek County/
- Rich, R. A., Holland, H. D., and Peterson, U., 1975
veins/ uranium/ ore deposits/ mineralogy/ fluid inclusions/ paragenesis/ hydrothermal/ pitchblende/ ground water/ Front Range/ Jefferson County/ Clear Creek County/ Gilpin County/ Gunnison County/ Saguache County/ Marshall Pass district/ Schwartzwalder mine/ Igneous-metamorphic/
- Russell, W. L., and Scherbatskoy, S. A., 1951
Colorado Plateau/ ore deposits/ genesis/ exploration/ gamma-ray detectors/ sandstone/ Front Range/ Instrumentation/ Morrison Formation/ Salt Wash Member/ Gilpin County/ Clear Creek County/ Boulder County/ San Miguel County/ Montrose County/ Igneous-metamorphic/ Entrada Sandstone/
- Sims, P. K., 1953
Front Range/ ore deposits/ exploration/ Clear Creek County/ Gilpin County/ Igneous-metamorphic/
- Sims, P. K., 1953
ore deposits/ Central City district/ Georgetown district/ Front Range/ Clear Creek County/ Gilpin County/ Igneous-metamorphic/
- Sims, P. K., 1954
veins/ Igneous-metamorphic/ Clear Creek County/ Gilpin County/ Front Range/ ore deposits/
- Sims, P. K., 1954
Front Range/ ore deposits/ mineralogy/ petrology/ igneous-metamorphic/ Gilpin County/ Clear Creek County/
- Sims, P. K., 1955
Front Range/ ore deposits/ trace elements/ Clear Creek County/ Gilpin County/ igneous-metamorphic/
- Sims, P. K., 1956
veins/ Front Range/ igneous-metamorphic/ geology/ ore deposits/ Gilpin County/ Clear Creek County/
- Sims, P. K., 1956
Front Range/ ore deposits/ uranium/ Larimer County/ Boulder County/ Gilpin County/ Clear Creek County/ Jefferson County/ Fremont County/ Igneous-metamorphic/
- Sims, P. K., 1956
Gilpin County/ ore deposits/ pitchblende/ genesis/ structural controls/ veins/ Front Range/ Clear Creek County/ geology/ uranium/ igneous-metamorphic/ Central City district/ mineralogy/ paragenesis/
- Sims, P. K., 1957
Front Range/ igneous-metamorphic/ veins/ geology/ ore deposits/ Gilpin County/ Clear Creek County/
- Sims, P. K., 1960
mineralogy/ hypogene zoning/ Central City district/ Gilpin County/ Clear Creek County/ Igneous-metamorphic/ Front Range/
- Sims, P. K., 1960
hypogene zoning/ mineralogy/ Gilpin County/ Clear Creek County/ Central City district/ Front Range/ igneous-metamorphic/
- Sims, P. K., 1960
Clear Creek County/ Gilpin County/ geology/ igneous-metamorphic/ Central City district/ Front Range/ Idaho Springs district/ guidebook/
- Sims, P. K., 1963
geology/ uranium/ ore deposits/ Front Range/ Gilpin County/ production/ Summit County/ Clear Creek County/ Boulder County/ Grand County/ Central City district/ Idaho Springs district/ Lawson-Dumont-Fall River district/ Freeland-Lamartine district/ gneiss/ thorium/ pegmatites/ alaskite/ bostonite/ Chicago Creek district/ Igneous-metamorphic/ monazite/
- Sims, P. K., 1964
Gilpin County/ Clear Creek County/ Igneous-metamorphic/ Central City quadrangle/ Russell Gulch/ geology/ Front Range/
- Sims, P. K., and Drake, A. A., Jr., 1953
Front Range/ Central City district/ Gilpin County/ Clear Creek County/ Igneous-metamorphic/ Jefferson County/ geology/ ore deposits/
- Sims, P. K., and Gable, D. J., 1963
cordierite/ gneiss/ Central City quadrangle/ Gilpin County/ Clear Creek County/ Front Range/ minerals/ Central City district/ geology/ Precambrian rocks/ igneous-metamorphic/

- Sims, P. K., and Gable, D. J., 1964
geology/ Precambrian rocks/ Central City district/
Gilpin County/ Clear Creek County/ uranium/
thorium/ monazite/ Igneous-metamorphic/ pegmatites/
gneiss/ granite/ Front Range/
- Sims, P. K., and Gable, D. J., 1967
petrology/ structure/ Precambrian rocks/ Gilpin
County/ Clear Creek County/ igneous-metamorphic/
pegmatites/ gneiss/ granite/ uranium/ thorium/
Front Range/ geology/ map/ Central City district/
Trilo claims/ White Spar claim/ Quartz Creek
district/ uranium/ thorium/ Colorado/ gneiss/
origin/ Sharon Springs Member/ Hermosa Formation/
Paradox Member/
- Sims, P. K., and others, 1959
Front Range/ Igneous-metamorphic/ uranium/ ore
deposits/ geology/ Clear Creek County/ Gilpin
County/
- Sims, P. K., and Sheridan, D. M., 1964
geology/ ore deposits/ Front Range/ genesis/
mineralogy/ analyses/ emission spectroscopy/
uranium/ veins/ igneous-metamorphic/ Clear Creek
County/ Gilpin County/ Boulder County/ Larimer
County/
- Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/
pitchblende/ Central City district/ veins/ uranium/
igneous-metamorphic/ bostonite/ production/
pegmatites/ gneiss/ genesis/ Front Range/
- Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/
pitchblende/ Central City district/ veins/ uranium/
igneous-metamorphic/ bostonite/ production/
pegmatite/ gneiss/ Front Range/ genesis/
- Sims, P. K., Drake, A. A., Jr., and Moench, R.
H., 1953
Gilpin County/ Clear Creek County/ igneous-metamorphic/
Central City district/ Front Range/ geology/
ore deposits/
- Sims, P. K., Drake, A. A., Jr., and Moench, R.
H., 1953
Gilpin County/ Clear Creek County/ Central City
district/ geology/ maps/ ore deposits/ Iron
mine/ veins/ Russell Gulch area/ Quartz Hill
area/ Nevada Gulch area/ pitchblende/ Wood mine/
Calhoun mine/ Gold King claim/ Kirk mine/ Ross
shaft/ Balcher claims/ Front Range/ German claims/
Pewabic mine/ igneous-metamorphic/
- Sims, P. K., Harrison, J. E., and Moore, F. B., 1952
Central City district/ Dumont district/ Fall
River district/ Eureka Gulch district/ Front
Range/ Georgetown area/ Clear Creek County/
pitchblende/ Diamond Mountain (Lanagan) mine/
Gomer mine/ Golden Calf mine/ Golden Glen mine/
Martha E. mine/ veins/ Old Town mine/ Spread
Eagle mine/ reconnaissance/ Gilpin County/ ore
deposits/ base metals/ Freeland-Lamartine district/
igneous-metamorphic/ precious metals/
- Sims, P. K., Moench, R. H., Drake, A. A., Jr.,
and others, 1963
uranium/ ore deposits/ Central City district/
Idaho Springs district/ mining/ Gilpin County/
Clear Creek County/ Front Range/ igneous-metamorphic/
- Sims, P. K., Young, E. J., and Sharp, W. N., 1961
coffinite/ uranium/ veins/ Front Range/ Boulder
County/ Larimer County/ Jefferson County/ Clear
Creek County/ igneous-metamorphic/ ore deposits/
- Taylor, R. B., 1975
geology/ map/ Black Hawk quadrangle/ Gilpin
County/ Jefferson County/ Clear Creek County/
Front Range/ igneous-metamorphic/
- Tooker, E. W., 1953
wall rock alteration/ Front Range/ igneous-metamorphic/
Gilpin County/ Clear Creek County/
- Tooker, E. W., 1955
Gilpin County/ Clear Creek County/ Central City
district/ Idaho Springs district/ mineralogy/
petrology/ alteration/ geochemistry/ wall rock/
igneous-metamorphic/ uranium/ veins/ Front Range/
- Tooker, E. W., 1956
Central City district/ Idaho Springs district/
igneous-metamorphic/ alteration/ veins/ wall
rocks/ sulfides/ structures/ ore deposits/ Front
Range/ Gilpin County/ Clear Creek County/
- Tooker, E. W., 1963
alteration/ wall rocks/ Front Range/ Gilpin
County/ Clear Creek County/ igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Clear Creek County/ igneous-metamorphic/
veins/ Front Range/ reconnaissance/ ore deposits/
- U.S. Geological Survey, 1953
sandstone/ Colorado Plateau/ Front Range/ veins/
igneous-metamorphic/ thorium/ Powderhorn district/
natural waters/ Morrison Formation/ Mesa County/
San Miguel County/ Dolores County/ Gilpin County/
San Juan County/ La Plata County/ Ouray County/
geology/ Gunnison County/ Montrose County/ San
Juan Mountains/ Clear Creek County/ ore deposits/
- U.S. Geological Survey, 1953
geologic mapping/ Colorado Plateau/ Front Range/
carbonaceous rocks/ geochemistry/ reconnaissance/
black shales/ sandstone/ igneous-metamorphic/
geology/ ore deposits/ Gilpin County/ Clear
Creek County/ Jefferson County/ Montrose County/
Mesa County/ San Miguel County/ Gunnison County/
- U.S. Geological Survey, 1954
Clear Creek County/ Gilpin County/ ore deposits/
reserves/ Colorado Plateau/ exploration/ sandstone/
Mesa County/ Montrose County/ San Miguel County/
Garfield County/ Moffat County/ Dolores County/
Rio Blanco County/ Front Range/ igneous-metamorphic/
Jefferson County/ pitchblende/ hydrogeochemical
exploration/ stream sediments/ ground water/
mine waters/

- U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geochemistry/ geophysics/ thorium/ ore deposits/ sandstone/ igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Gilpin County/ Clear Creek County/
- U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ San Miguel County/ Montrose County/ sandstone/ igneous-metamorphic/ Mesa County/ Clear Creek County/ Gilpin County/ ore deposits/
- U.S. Geological Survey, 1958
Colorado Plateau/ mapping/ geophysics/ Clear Creek County/ geochemistry/ Maybell-Lay area/ Front Range/ Gilpin County/ research/ thorium/ Moffat County/ sandstone/ Mesa County/ San Miguel County/ Montrose County/ igneous-metamorphic/
- U.S. Geological Survey, 1958
Colorado Plateau/ geophysics/ geochemistry/ Gilpin County/ research/ Front Range/ thorium/ reconnaissance/ Mesa County/ sandstone/ Clear Creek County/ Montrose County/ San Miguel County/ igneous-metamorphic/
- Walker, G. W., 1956
ore deposits/ host rocks/ alteration/ veins/ sandstone/ igneous-metamorphic/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ dolomite/ Pitkin County/ Larimer County/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/
- Walker, G. W., 1963
alteration/ veins/ igneous-metamorphic/ sandstone/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ Cochetopa district/ ore deposits/ Placerville district/ San Miguel County/ Larimer County/ Central City district/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/
- Walker, G. W., and Adams, J. W., 1957
Boulder County/ Larimer County/ Clear Creek County/ Central City district/ Gilpin County/ Caribou mine/ Front Range/ Jefferson County/ Placerville district/ San Miguel County/ Colorado Plateau/ ore deposits/ Marshall Pass/ Saguache County/ Copper King mine/ sandstone/ mineralogy/ veins/ textures/ structures/ paragenesis/ Los Ochos mine/ Schwartzwalder mine/ igneous-metamorphic/
- Walker, G. W., and Adams, J. W., 1963
Boulder County/ Larimer County/ Placerville district/ Central City district/ Gilpin County/ Clear Creek County/ Front Range/ Jefferson County/ Schwartzwalder mine/ San Miguel County/ Colorado Plateau/ Copper King mine/ Saguache County/ ore deposits/ Caribou mine/ Los Ochos mine/ sandstone/ Colorado/ mineralogy/ igneous-metamorphic/ textures/ structures/ paragenesis/
- Walker, G. W., and Osterwald, F. W., 1956
ore deposits/ veins/ fluorite/ Front Range/
- Gilpin County/ coal/ Jefferson County/ Placerville district/ San Miguel County/ Clear Creek County/ sandstone/ igneous-metamorphic/ Colorado Plateau/ Cochetopa district/ Saguache County/ Powderhorn district/ Custer County/ Chaffee County/
- Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ geology/ Front Range/ Gilpin County/ Jefferson County/ sandstone/ Boulder County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/ Saguache County/ Custer County/ Chaffee County/ Clear Creek County/ Jamestown district/ Cochetopa district/ Powderhorn district/ Placerville district/
- Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ genesis/ Placerville district/ transportation/ deposition/ depositional environments/ Clear Creek County/ Gilpin County/ Saguache County/ Jefferson County/ Cochetopa district/ Front Range/ San Miguel County/ Leyden coal mine/ Larimer County/ Boulder County/ sandstone/ igneous-metamorphic/
- Wallace, S. R., Leonard, B. F., 3d, and Campbell, R. H., 1955
Breckenridge district/ Caribou district/ Central City district/ Summit County/ Gold Hill district/ Freeland-Lamartine district/ Front Range/ Georgetown district/ Silver Plume district/ Idaho Springs district/ Lawson-Dumont district/ igneous-metamorphic/ Gilpin county/ Ward district/ Boulder County/ Clear Creek County/ hypogene mineral zoning/ Idaho Springs district/
- Wells, J. D., 1955
structure/ granodiorite/ Ute Creek/ Clear Creek County/ Front Range/ igneous-metamorphic/ petrology/
- Wells, J. D., 1960
petrology/ Tertiary rocks/ igneous-metamorphic/ thorium/ Front Range/ radioactivity/ bostonite porphyry/ Gilpin County/ Clear Creek County/ volcanic rocks/ uranium/ petrography/
- Wells, J. D., n.d.
geology/ Tertiary rocks/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/
- Wells, J. D., and Harrison, J. E., 1953
Clear Creek County/ reconnaissance/ radioactivity/ igneous-metamorphic/ Front Range/
- Wells, J. D., and Harrison, J. E., 1954
Clear Creek County/ ore deposits/ exploration/ veins/ radioactivity/ reconnaissance/ Front Range/ igneous-metamorphic/
- Wells, J. D., Sheridan, P. M., and Albee, A. L., 1961
metamorphism/ structure/ geologic history/ Coal Creek area/ Front Range/ igneous-metamorphic/ Jefferson County/ Clear Creek County/
- Wells, J. D., Sheridan, P. M., and Albee, A. L., 1964
Precambrian/ quartzite/ schist/ Coal Creek/ Front Range/ igneous-metamorphic/ Jefferson County/ Clear Creek County/ Idaho Springs Formation/

CLEAR CREEK COUNTY

Wright, H. D., Hutta, J. J., Shuihof, W. P., and Smith, C. M., 1957
veins/ igneous-metamorphic/ Clear Creek County/ sulfide minerals/ base metals/ mineral associations/ analyses/ paragenesis/ trace elements/ Idaho/ Arizona/ Central City district/ Carroll mine/ pitchblende/ solid solution/ ore deposits/ Front Range/

CONEJOS COUNTY

Gow, T. T., 1914
basalt/ Table Mountain/ igneous-metamorphic/ Jefferson County/ Conejos County/ Rio Grande County/ Gilmore/ Front Range/ radioactivity/

Larsen, E. S., and Cross, C. W., 1956
geology/ petrology/ San Juan region/ Colorado Plateau/ igneous-metamorphic/ Montrose County/ Ouray County/ San Miguel County/ Dolores County/ La Plata County/ Gunnison County/ Hinsdale County/ Archuleta County/ Mineral County/ Saguache County/ Conejos County/ Alamosa County/ San Juan County/ Montezuma County/ Rio Grande County/

Lipman, P. W., Bunker, C. M., and Bush, C. A., 1973
basalt/ spectroscopy/ Cenozoic rocks/ potassium/ thorium/ uranium/ Rio Grande depression/ New Mexico/ geochemistry/ ore composition/ Baca County/ Las Animas County/ igneous-metamorphic/ Conejos County/ Costilla County/ Rio Grande County/ Alamosa County/

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Conejos County/ reconnaissance/ ore deposits/ sandstone/

COSTILLA COUNTY

Brown, L. J., and Easton, W. W., 1955
ore deposits/ reconnaissance/ airborne/ Huerfano Embayment/ intrusives/ volcanics/ Las Animas Arch/ La Veta Pass area/ Huerfano County/ Las Animas County/ Otero County/ Costilla County/ Pueblo County/ Crowley County/ Kiowa County/ Bent County/ Prowers County/ Baca County/ sandstone/ shale/ claystone/ igneous-metamorphic/

Brown, L. J., and Malan, R. C., 1954
ore deposits/ exploration/ Sangre de Cristo/ reconnaissance/ province/ Canyon City embayment/ City Slicker mine/ igneous-metamorphic/ El Paso County/ Las Animas County/ La Veta Pass/ Alamosa County/ Costilla County/ sandstone/ Fremont County/ Huerfano County/ Pueblo County/ Rio Grande County/ Saguache County/ Teller County/ Dakota Sandstone/ Morrison Formation/ Cripple Creek - Victor district/

Emerson, J. F., 1943
vanadium/ uranium/ sandstone/ Huerfano County/ Costilla County/ Huerfano Park district/ Raton basin/

CROWLEY COUNTY

Finch, W. I., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Lipman, P. W., Bunker, C. M., and Bush, C. A., 1973
basalt/ spectroscopy/ Cenozoic rocks/ potassium/ thorium/ uranium/ Rio Grande depression/ New Mexico/ geochemistry/ ore composition/ Baca County/ Las Animas County/ igneous-metamorphic/ Conejos County/ Costilla County/ Rio Grande County/ Alamosa County/

Simon, M. R., 1956
ore deposits/ Huerfano County/ Raton basin/ Fremont County/ Custer County/ Las Animas County/ sandstone/ Costilla County/ uranium/ geology/ arkose/

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Costilla County/ reconnaissance/ ore deposits/ Front Range/ sandstone/

CROWLEY COUNTY

Brown, L. J., and Easton, W. W., 1955
ore deposits/ reconnaissance/ airborne/ Huerfano Embayment/ intrusives/ volcanics/ Las Animas Arch/ La Veta Pass area/ Huerfano County/ Las Animas County/ Otero County/ Costilla County/ Pueblo County/ Crowley County/ Kiowa County/ Bent County/ Prowers County/ Baca County/ sandstone/ shale/ claystone/ igneous-metamorphic/

Landis, E. R., 1954
Colorado/ Kansas/ exploration/ black shale/ Cretaceous/ Cheyenne County/ Kiowa County/ Crowley County/ Las Animas County/ map/ Pierre Shale/

Landis, E. R., 1955
Cheyenne County/ Crowley County/ Kiowa County/ Las Animas County/ Pueblo County/ genesis/ Pierre Shale/ Niobrara Formation/ shale/ Sharon Spring Member/ black shales/ ore deposits/ radioactivity/ uranium/ Yuma County/ stratigraphy/ uraniumiferous/

Landis, E. R., 1956
ground water/ surface water/ Kansas/ Colorado/ Oklahoma/ shale/ tuff/ sandstone/ Smoky Hill River valley/ Rule Creek basin/ Baca County/ siltstone/ uranium/ claystone/ Bent County/ Las Animas County/ Kiowa County/ Cheyenne County/ Crowley County/ Lincoln County/ springs/ wells/ Muddy Creek/ geochemistry/

Landis, E. R., 1957
Colorado/ Kansas/ New Mexico/ Oklahoma/ exploration/ geochemistry/ ground water/ surface water/ tuff/

CROWLEY COUNTY

shale/ sandstone/ wells/ springs/ Cheyenne County/
Bent County/ Las Animas County/ Kiowa County/
Crowley County/ Lincoln County/ uranium/ Baca
County/

Landis, E. R., 1959

Colorado/ Kansas/ ore deposits/ Cretaceous/
Pierre Shale/ Sharon Springs Member/ radioactivity/
Cheyenne County/ Crowley County/ Kiowa County/
Yuma County/ Las Animas County/ Pueblo County/
shale/ black shale/

Landis, E. R., 1960

ground water/ surface water/ Great Plains/ analyses/
Baca County/ Bent County/ Cheyenne County/ Crowley
County/ Kiowa County/ Lincoln County/ Prowers
County/ sandstone/ Las Animas County/ geochemistry/

Scott, R. C., and Barker, F. B., 1961

ground water/ radium/ La Plata County/ Cheyenne
County/ Kiowa County/ Lincoln County/ Crowley
County/ Otero County/ Bent County/ Prowers County/
Las Animas County/ Baca County/ Montezuma County/
Archuleta County/ Colorado Plateau/

Tourtelot, H. A., 1955

Boulder County/ Cheyenne County/ Crowley County/
Jefferson County/ Kiowa County/ Larimer County/
Pueblo County/ mineralogy/ petrology/ geochemistry/
black shale/ alteration/ White River group/
uranium/ radioactivity/ Cretaceous shales/ Great
Plains/ El Paso County/

Tourtelot, H. A., 1956

marine black shales/ Boulder County/ Crowley
County/ El Paso County/ Jefferson County/ Kiowa
County/ Larimer County/ Pueblo County/ petrology/
geochemistry/ black shale/ alteration/ White
River group/ uranium/ radioactivity/ Cretaceous
shales/ Great Plains/ Cheyenne County/ mineralogy/

CUSTER COUNTY

Armbrustmacher, T. J., 1975

thorium/ Wet Mountains/ Fremont County/ Custer
County/ igneous-metamorphic/ veins/ ore deposits/

Armbrustmacher, T. J., 1976

thorium/ Wet Mountains/ Fremont County/ Custer
County/ igneous-metamorphic/ veins/ ore deposits/

Brock, M. R., and Singewald, Q. D., 1968

geology/ Mount Tyndall quadrangle/ Custer County/
thorium/ igneous-metamorphic/ ore deposits/
Wet Mountains/

Buck, K. L., 1955

bibliography/ thorium/ rare earths/ Alaska/
Colorado/ United States/ El Paso County/ Custer
County/ Gunnison County/ igneous-metamorphic/
ore deposits/

Buck, K. L., 1957

ore deposits/ bibliography/ thorium/ rare earths/
Alaska/ Colorado/ United States/ El Paso County/
Custer County/ Gunnison County/ igneous-metamorphic/

CUSTER COUNTY

Butler, A. P., Jr., 1952

Front Range/ thorium/ Colorado Plateau/ Morrison
Formation/ igneous-metamorphic/ Chinle Formation/
Shinarump Member/ geology/ ore deposits/ pegmatites/
veins/ sandstone/ placers/ carnotite/ fresh
waters/ gases/ Gilpin County/ Clear Creek County/
Custer County/ Lake County/ San Miguel County/
Gunnison County/

Christman, R. A., Brock, M. R., and Singewald,
Q. D., 1954

Wet Mountains/ ore deposits/ exploration/ Custer
County/ thorium/ Fremont County/ Pueblo County/
veins/ igneous-metamorphic/

Christman, R. A., Brock, M. R., Pearson, R. C.,
and Singewald, Q. D., 1954

Wet Mountains/ Haputa Ranch/ Silver Cliff district/
McKinley Mountain area/ Rosita district/ Tuttle
Ranch/ Westcliff area/ Custer County/ Fremont
County/ Pine Tree claim/ stratigraphy/ ore deposits/
structure/ Precambrian rocks/ rare earths/ veins/
thorium/ igneous-metamorphic/

Christman, R. A., Brock, M. R., Pearson, R. C.,
and others, 1955

Wet Mountains/ ore deposits/ thorium/ Custer
County/ Fremont County/ veins/ igneous-metamorphic/
rare earths/ Pueblo County/

Christman, R. A., Brock, M. R., Pearson, R. C.,
and others, 1960

Wet Mountains/ ore deposits/ resources/ production/
geology/ thorium/ Custer County/ Pueblo County/
Fremont County/ veins/ igneous-metamorphic/

Christman, R. A., Heyman, A. M., Dellwig, L. F.,
and others, 1953

veins/ thorium/ Wet Mountains/ Custer County/
thorite/ shear zones/ metamorphic rocks/ ore
deposits/ igneous-metamorphic/

Christman, R. A., Heyman, A. M., Dellwig, L. F.,
and others, 1953

thorium/ Wet Mountains/ Custer County/ Fremont
County/ metamorphic rocks/ thorite/ ore deposits/
veins/ igneous-metamorphic/ shear zones/

Christman, R. A., Heyman, A. M., Dellwig, L. F.,
and others, 1953

thorium/ reconnaissance/ Wet Mountains/ Fremont
County/ Custer County/ igneous-metamorphic/
exploration/ veins/ ore deposits/

Christman, R. A., Heyman, A. M., Dellwig, L. F.,
1953

drilling/ analyses/ igneous-metamorphic/ Wet
Mountains/ structure/ geology/ mineralogy/ Custer
County/ Fremont County/ Haputa Ranch/ Tuttle
Ranch/ stratigraphy/ Precambrian rocks/ thorium/
rare earths/ ore deposits/ veins/ Atomic Mountain
group/ Barite lode/ thorite/ Big Chief claim/
Darby extension/

Conroy, A. R., 1960

Wet Mountains/ ore deposits/ geology/ Custer
County/ thorium/ igneous-metamorphic/

- Dellwig, L. F., 1951
Willis Tuttle ranch/ Greenwood thorium property/
thorium/ rare earths/ ore deposits/ Wet Mountains/
Custer County/ Fremont County/ Igneous-metamorphic/
alkalic rocks/
- Dellwig, L. F., and Gott, G. B., 1951
Custer County/ rare earth minerals/ shear zone
material/ veins/ Haputa Ranch/ ore deposits/
Wet Mountains/ thorium/ thorite/ fault breccia/
Igneous-metamorphic/
- Flinch, W. I., 1967
Colorado Plateau/ Front Range/ Igneous-metamorphic/
geology/ Larimer County/ Jackson County/ Routt
County/ Moffat County/ Garfield County/ Grand
County/ Eagle County/ Boulder County/ Jefferson
County/ Park County/ Mesa County/ Montrose County/
El Paso County/ San Miguel County/ Bent County/
Park County/ Saguache County/ Pueblo County/
Dolores County/ Las Animas County/ Huerfano
County/ Costilla County/ Custer County/ San
Juan County/ La Plata County/ Montezuma County/
- Fisher, F. G., and Meyrowitz, R., 1962
brockite/ thorium/ Wet Mountains/ Chemical properties/
Igneous-metamorphic/ crystal chemistry/ Bassick
mine/ Custer County/ phosphate/ ore deposits/
- Gerhard, L. C., and Mark, Anson, 1968
Pueblo County/ Custer County/ Wet Mountains/
Paleozoic/ Mesozoic/ geology/ sandstone/ guidebook/
Fremont County/ Igneous-metamorphic/ alkalic
Igneous rocks/
- Gillerman, Elliot, 1958
thorium/ Wet Mountains/ igneous-metamorphic/
Custer County/ ore deposits/
- Hall, C. R., 1976
alkalic/ Igneous rocks/ Igneous-metamorphic/
Gilpin County/ Front Range/ bibliography/ San
Juan County/ Custer County/ Fremont County/
La Plata County/ Montezuma County/ Gunnison
County/ Saguache County/ El Paso County/ Rio
Grande County/ Jefferson County/ Larimer County/
Boulder County/ Colorado Plateau/ Clear Creek
County/ Teller County/
- Heinicke, J. H., 1960
ore deposits/ resources/ reserves/ Gunnison
County/ production/ thorium/ Fremont County/
Custer County/ Igneous-metamorphic/
- Heinrich, E. W., and Reuss, R. L., 1969
Fremont County/ Custer County/ Igneous-metamorphic/
petrology/ carbonatites/ Gem Park/ gabbro/ Intrusives/
- Hillebrand, F. A., and Conklin, N. M., 1974
breccia dikes/ rare earths/ Iron Hill/ Custer
County/ Igneous-metamorphic/ thorium/ apatite/
molybdenite/ magnetite/
- Kelly, F. N., 1962
thorium/ Wet Mountains/ Custer County/ El Paso
County/ Fremont County/ Gunnison County/ Jefferson
County/ Park County/ mineralogy/ Powderhorn
district/ rare earths/ resources/ Igneous-metamorphic/
- Colorado/ Wyoming/ New Mexico/ economics/ Front
Range/ Gilpin County/
- King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/
pitchblende/ Boulder County/ Clear Creek County/
Gilpin County/ Chaffee County/ Custer County/
El Paso County/ Fremont County/ Huerfano County/
Jefferson County/ Larimer County/ Teller County/
veins/ igneous-metamorphic/ stream sediments/
spring deposits/ shear zones/ pegmatites/ sandstone/
coal/ Eagle County/ Grand County/ Gunnison County/
Lake County/ Moffat County/ ore deposits/ Douglas
County/ San Miguel County/ Summit County/
- Lovering, T. G., and Beroni, E. P., 1956
Diamond J Ranch/ Golden Gate Canyon/ Haputa
Ranch area/ Ouray hot springs/ Chaffee County/
Custer County/ Gunnison County/ Jefferson County/
Ouray County/ radioactive ilmenite/ Lucky Break
Iron mine/ sandstone/ thorium/ uranium/ spring
deposits/ Front Range/ conglomerate/ limestone/
tufa/ analyses/ Igneous-metamorphic/ ore deposits/
El Paso County/
- Lovering, T. G., and Beroni, E. P., 1959
Diamond J Ranch/ Golden Gate Canyon/ Haputa
Ranch area/ Ouray hot springs/ Chaffee County/
Custer County/ Gunnison County/ Jefferson County/
Ouray County/ radioactive ilmenite/ Lucky Break
Iron mine/ thorium/ uranium/ spring deposits/
Front Range/ sandstone/ conglomerate/ limestone/
tufa/ El Paso County/ igneous-metamorphic/ ore
deposits/
- Malan, R. C., 1969
genesis/ ore deposits/ Tertiary/ intermontane
basins/ geology/ uranium/ minerals/ sediments/
stratigraphy/ sandstone/ Middle Park/ South
Park/ Raton basin/ Thirtynine Mile volcanic
field/ Tallahassee Creek district/ Jackson County/
Grand County/ Park County/ Fremont County/ Huerfano
County/ Custer County/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/
veins/ pitchblende/ thorium/ uranium/ resources/
exploration/ Igneous-metamorphic/ Front Range/
Gilpin County/ Clear Creek County/ pegmatites/
sandstone/ limestone/ Colorado Plateau/ Custer
County/ Gunnison County/ Boulder County/ Larimer
County/ Jefferson County/ coal/ San Miguel County/
Montrose County/ Mesa County/ Moffat County/
- Moore, D. G., 1970
Custer County/ Fremont County/ Igneous-metamorphic/
thorium/ geology/ mineralogy/ genesis/ Wet Mountains/
feldspar rocks/ alkalic rocks/ carbonatite/
- Olson, J. C., and Adams, J. W., 1962
thorium/ rare earths/ United States/ Colorado/
Igneous-metamorphic/ Gunnison County/ Fremont
County/ Custer County/ Larimer County/ Gilpin
County/ Montezuma County/ Moffat County/ El
Paso County/
- Olson, J. C., Marvin, R. F., Parker, R. L., and
Mehnert, H. H., 1977
thorium/ alkalic rocks/ age dating/ carbonatite/

- Gunnison County/ Saguache County/ Custer County/ Fremont County/ tectonics/ Igneous-metamorphic/ mafic rocks/ Paleozoic/ veins/
- Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ Igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/
- Parker, R. L., and Hildebrand, F. A., 1963
alkalic rocks/ Intrusives/ Wet Mountains/ Fremont County/ Custer County/ Igneous-metamorphic/ geology/ petrology/
- Parker, R. L., and Sharp, W. N., 1970
carbonatites/ mafic-ultramafic/ thorium/ monazite/ geology/ Gem Park complex/ Custer County/ Fremont County/ mineralogy/ geochemistry/ Igneous-metamorphic/
- Phair, George, 1957
Wet Mountains/ ore deposits/ Custer County/ thorium/ veins/ Igneous-metamorphic/ Haputa Ranch/ Hardwick property/ Mystery Lode/ shear zones/
- Phair, George, 1958
Wet Mountains/ ore deposits/ wallrock alteration/ thorium/ Custer County/ Igneous-metamorphic/ chemical properties/
- Phair, George, and Fisher, F. G., 1961
Wet Mountains/ ore deposits/ genesis/ metasomatism/ processes/ potassic feldspathization/ thorium/ Custer County/ Powderhorn district/ Precambrian rocks/ thorite/ Igneous-metamorphic/
- Phair, George, and Gilbert, F. L., 1959
Igneous-metamorphic/ thorium/ ore deposits/ Wet Mountains/ Custer County/ Fremont County/ veins/ zoning/
- Salotti, C. A., 1965
mineralogy/ paragenesis/ Cotopaxi area/ Chaffee County/ Custer County/ Fremont County/ Park County/ Igneous-metamorphic/ petrology/ geology/ skarn/ ore deposits/ copper/ zinc/ uranium/
- Simon, M. R., 1956
ore deposits/ Huerfano County/ Raton basin/ Fremont County/ Custer County/ Las Animas County/ sandstone/ Costilla County/ uranium/ geology/ arkose/
- Singewald, Q. D., 1955
map/ thorium/ Wet Mountains/ Custer County/ Igneous-metamorphic/ ore deposits/
- Singewald, Q. D., and Brock, M. R., 1956
thorium/ Wet Mountains/ Custer County/ Fremont County/ Precambrian rocks/ Tertiary rocks/ dikes/ metasediments/ Igneous-metamorphic/ gneiss/ veins/ pegmatites/ ore deposits/
- Singewald, Q. D., and Christman, R. A., 1953
Wet Mountains/ ore deposits/ Custer County/ thorium/ Igneous-metamorphic/
- Singewald, Q. D., and Christman, R. A., 1953
Wet Mountains/ ore deposits/ exploration/ Custer County/ thorium/ Igneous-metamorphic/
- Singewald, Q. D., Christman, R. A., and Brock, M. R., 1953
Haputa Ranch area/ Custer County/ Fremont County/ veins/ thorium/ rare earths/ ore deposits/ Wet Mountains/ Precambrian rocks/ Sewell property/ Anna Lee property/ Igneous-metamorphic/
- Singewald, Q. D., Christman, R. A., and others, 1956
Custer County/ Fremont County/ McKinley Mountain area/ Igneous-metamorphic/ geology/ radiometrics/ maps/ City/ Colorado Plateau/ Gilpin County/ metamorphic/ ore deposits/ Colorado/ sandstone/ Front Range/
- Staatz, M. H., 1964
ore deposits/ resources/ thorium/ Custer County/ Fremont County/ Gunnison County/ Igneous-metamorphic/
- Staatz, M. H., 1973
veins/ thorium/ Igneous-metamorphic/ Custer County/ Fremont County/ Gunnison County/
- Staatz, M. H., 1974
ore deposits/ veins/ mineralogy/ geochemistry/ minerals/ thorite/ monazite/ genesis/ controls/ ore controls/ structural controls/ thorium/ Igneous-metamorphic/ Wet Mountains/ Powderhorn district/ Gunnison County/ carbonatite/ alkaline complexes/ Custer County/ Fremont County/
- Staatz, M. H., 1975
thorium/ ore deposits/ Igneous-metamorphic/ Custer County/ Fremont County/ Gunnison County/ deposits/ Colorado/ Igneous-metamorphic/ sandstone/ Front Range/
- Staatz, M. H., 1976
thorium/ Igneous-metamorphic/ alkalic Igneous rocks/ Fremont County/ Custer County/ Gunnison County/
- Staatz, M. H., 1976
thorium/ resources/ Igneous-metamorphic/ Custer County/ Fremont County/ Gunnison County/ Front Range/
- Staatz, M. H., and Conklin, N. M., 1966
thorium/ veins/ carbonate/ Road Gulch area/ Wet Mountains/ rare-earths/ Igneous-metamorphic/ thorite/ geology/ mineralogy/ Fremont County/ Custer County/
- Staatz, M. H., and Olson, J. C., 1973
thorium/ Igneous-metamorphic/ resources/ Custer County/ Fremont County/ Gunnison County/
- Twenhofel, W. S., and Buck, K. L., 1956
thorium/ Powderhorn district/ Gunnison County/ veins/ Custer County/ Fremont County/ Colorado/ Idaho/ Wyoming/ Precambrian rocks/ Montana/

CUSTER COUNTY

California/ geology/ New Mexico/ Wisconsin/
New York/ Michigan/ Wet Mountains/ ore deposits/
Igneous-metamorphic/

Twenhofel, W. S., and Buck, K. L., 1956
geology/ thorium/ Powderhorn district/ Gunnison
County/ Wet Mountains/ Custer County/ Fremont
County/ veins/ Precambrian rocks/ Colorado/
Wyoming/ Idaho/ Montana/ California/ New Mexico/
Wisconsin/ New York/ Michigan/ ore deposits/
Igneous-metamorphic/

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Custer County/ reconnaissance/
ore deposits/ Front Range/ sandstone/ igneous-metamorphic/

U.S. Geological Survey, 1953
Colorado Plateau/ Front Range/ sandstone/ coal/
springs/ igneous-metamorphic/ shale/ Gilpin
County/ Clear Creek County/ Jefferson County/
Boulder County/ Custer County/ thorium/ Gunnison
County/ La Plata County/ San Juan County/ Ouray
County/

Walker, G. W., and Osterwald, F. W., 1956
ore deposits/ veins/ fluorite/ Front Range/
Gilpin County/ coal/ Jefferson County/ Placerville
district/ San Miguel County/ Clear Creek County/
sandstone/ igneous-metamorphic/ Colorado Plateau/
Cochetopa district/ Saguache County/ Powderhorn
district/ Custer County/ Chaffee County/

Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ geology/ Front Range/ Gilpin
County/ Jefferson County/ sandstone/ Boulder
County/ San Miguel County/ igneous-metamorphic/
Colorado Plateau/ Saguache County/ Custer County/
Chaffee County/ Clear Creek County/ Jamestown
district/ Cochetopa district/ Powderhorn district/
Placerville district/

DELTA COUNTY

Adler, H. H., 1963
genesis/ sandstone/ ore deposits/ Jefferson
County/ Pueblo County/ Gunnison County/ Moffat
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ Colorado Plateau/ Front Range/
Rio Blanco County/

Adler, H. H., 1964
uranium/ roll ore/ exploration/ sandstone/ ore
deposits/ Jefferson County/ Pueblo County/ Gunnison
County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
San Miguel County/ Montezuma County/ La Plata
County/ Archuleta County/ Moffat County/ Colorado
Plateau/ Front Range/ Dolores County/

Bain, G. W., 1957
Colorado Plateau/ ore deposits/ organic ores/
genesis/ Colorado/ general/ Mesa County/ Delta

DELTA COUNTY

County/ sandstone/ Montrose County/ San Miguel
County/ Dolores County/ Archuleta County/ Garfield
County/ La Plata County/

Baltz, E. H., Jr., 1955
Colorado/ New Mexico/ ore deposits/ exploration/
carbonaceous rocks/ sandstone/ Mesa County/
Delta County/ Montrose County/ Gunnison County/
Ouray County/ San Miguel County/ Hinsdale County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ coal/ shale/ reconnaissance/
Colorado Plateau/

Cadigan, R. A., 1967
petrology/ Morrison Formation/ Colorado Plateau/
sandstone/ Gunnison County/ La Plata County/
Archuleta County/ San Miguel County/ Mesa County/
Delta County/ Eagle County/ Montrose County/
Montezuma County/ mineralogy/ Rio Blanco County/
Salt Wash Member/

Cadigan, R. A., 1971
petrology/ Moenkopi Formation/ Colorado Plateau/
mineralogy/ Moffat County/ Rio Blanco County/
Garfield County/ Mesa County/ Delta County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ sandstone/ stratigraphy/

Cadigan, R. A., 1971
geochemical distribution/ Colorado Plateau/
red beds/ vanadium/ sandstone/ La Plata County/
Montezuma County/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/ Delta
County/ Rio Blanco County/ geochemistry/ Garfield
County/ Moenkopi Formation/

Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado
Plateau/ paleontology/ sandstone/ Triassic strata/
Eagle County/ La Plata County/ Archuleta County/
Garfield County/ Mesa County/ Moffat County/
Montezuma County/ Pitkin County/ Montrose County/
Rio Blanco County/ Routt County/ San Miguel
County/ San Juan County/ Summit County/ Park
County/ Delta County/ Dolores County/ mineralogy/
conglomerate/ Gunnison County/ Ouray County/

Cadigan, R. A., and Felmler, J. K., 1975
Delta County/ spring deposits/ radioactive springs/
radium/ geochemistry/

Cadigan, R. A., and Felmler, J. K., 1975
geochemistry/ radioactive springs/ exploration/
Delta County/ spring deposits/ radium/ uranium/

Cadigan, R. A., and Felmler, J. K., 1976
springs/ spring deposits/ Delta County/ geochemistry/
exploration/ radioactive springs/ uranium/

Cadigan, R. A., Felmler, J. K., and Rosholt, J.
N., 1976
Delta County/ radioactive springs/ spring deposits/
geochemistry/

Cannon, H. L., 1960
Colorado Plateau/ ore deposits/ botanical prospecting/
exploration/ indicator plants/ sandstone/ Rio
Blanco County/ Garfield County/ Mesa County/

- Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ geobotany/
- Chew, R. T., 3d, 1955
Colorado Plateau/ Rifle mine/ Uravan district/ map/ Uranium Peak/ sandstone/ production/ uranium/ vanadium/ Morrison Formation/ La Plata County/ ore deposits/ Entrada Sandstone/ Rio Blanco County/ Mesa County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Gateway district/
- Chew, R. T., 3d, 1955
sandstone/ Mesa County/ Utah/ stream sediments/ exploration/ radioactivity/ Delta County/ Montrose County/ gravels/ San Miguel County/ Dolores County/ Ouray County/ San Juan County/ Montezuma County/ La Plata County/ Colorado Plateau/
- Chew, R. T., 3d, 1956
Mesa County/ Delta County/ Montrose County/ sandstone/ Dolores County/ Ouray County/ San Juan County/ gravels/ Montezuma County/ La Plata County/ Colorado Plateau/ exploration/ stream sediments/ radioactivity/ San Miguel County/
- Chew, R. T., 3d, 1956
Rifle mine/ Uravan district/ Uranium Peak/ vanadium/ production/ Colorado Plateau/ uranium/ sandstone/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Entrada Sandstone/ ore deposits/ Garfield County/ Morrison Formation/
- Craig, L. C., and Holmes, C. N., 1951
Morrison Formation/ Colorado Plateau/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Mesa County/ stratigraphy/ Glen Canyon group/ San Rafael group/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951
Colorado Plateau/ Morrison Formation/ Mesa County/ stratigraphy/ Glen Canyon group/ Montezuma County/ Delta County/ San Rafael group/ Dolores County/ Gunnison County/ Montrose County/ sandstone/ Moffat County/ Ouray County/ San Juan County/ San Miguel County/ La Plata County/ Rio Blanco County/ Garfield County/ Archuleta County/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1955
stratigraphy/ Morrison Formation/ Colorado Plateau/ sandstone/ Recapture Member/ Mesa County/ Ouray County/ Delta County/ Gunnison County/ Montrose County/ San Juan County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Salt Wash Member/
- Finch, W. I., 1955
Colorado Plateau/ ore deposits/ uranium/ sandstone/ copper/ conglomerate/ ore-bearing formation/ limestone/ vanadium/ Rio Blanco County/ Garfield County/ Mesa County/ geology/ Delta County/
- San Miguel County/ Dolores County/ Rifle mine/ Montezuma County/ La Plata County/ Greysill mine/ Placerville district/ Uravan district/ Gateway district/ map/ geology/
- Finch, W. I., 1956
Colorado Plateau/ ore deposits/ La Plata County/ production/ Triassic/ Chinle Formation/ shale/ sandstone/ conglomerate/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Garfield County/ Rio Blanco County/ geology/
- Finch, W. I., 1959
Colorado Plateau/ ore deposits/ production/ Triassic/ Chinle Formation/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ sandstone/ conglomerate/ shale/ Garfield County/ Rio Blanco County/ geology/
- Fischer, R. P., 1950
Colorado Plateau/ ore deposits/ sandstone/ uranium/ Morrison Formation/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ ore guides/ Garfield County/ San Miguel County/
- Fischer, R. P., 1955
Durango district/ Placerville district/ Rico district/ uranium/ vanadium/ chromium/ Delta County/ Garfield County/ La Plata County/ Ouray County/ Rio Blanco County/ San Juan County/ San Miguel County/ minerals/ marlposite/ sandstone/ Entrada Sandstone/ regional relations/ ore deposits/ Colorado Plateau/ Mesa County/ Moffat County/ Montezuma County/ Montrose County/ Rifle area/ Dolores County/
- Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ clay mineralogy/ uranium/ vanadium/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Garrels, R. M., and Larsen, E. S., 3d, compilers, 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ sandstone/ ground water/ clay/ mudstone/ organics/ Peanut mine/ J. J. mine/ Montrose County/ Rifle mine/ Garfield mine/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Archuleta County/
- George, R. D., Curtis, H. A., Lester, O. C., and others, 1920
Colorado Plateau/ mineralized waters/ springs/ spring deposits/ Front Range/ Jefferson County/ Pitkin County/ Pueblo County/ Garfield County/

Park County/ El Paso County/ Ouray County/ Boulder County/ Gunnison County/ Delta County/ Chaffee County/

Gill, J. R., 1953

Colorado/ Montana/ Wyoming/ ore deposits/ carbonaceous rocks/ coal/ Park County/ Gunnison County/ Delta County/ Las Animas County/ El Paso County/ Teller County/ La Plata County/ Montezuma County/ Denver Basin/ Larimer County/ shale/ Crested Butte/ Laramie Formation/ Colorado Plateau/ Front Range/

Hackman, R. J., 1958

Mesa County/ Montrose County/ Delta County/ photogeologic map/ sandstone/ Colorado Plateau/ Escalante Forks quadrangle/

Headden, W. P., 1905

Delta County/ spring deposits/ radium/ Doughty Springs/ Colorado Plateau/

Headden, W. P., 1905

Delta County/ spring deposits/ radium/ Doughty Springs/ Colorado Plateau/

Headden, W. P., 1905

Delta County/ spring deposits/ radium/ alunogen/ Doughty Springs/ Colorado Plateau/

Headden, W. P., 1909

Delta County/ springs deposits/ Doughty Springs/ radium/ Colorado Plateau/

Hess, F. L., 1914

genesis/ carnotite/ Colorado/ uranium/ vanadium/ Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/

Hess, F. L., 1925

carnotite/ vanoxite/ vanadium/ mineralogy/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Colorado Plateau/ ore deposits/ Delta County/

Holmes, C. N., 1950

sandstone/ Uncompahgre uplift/ tectonics/ sedimentary rocks/ Mesozoic/ Chinle Formation/ Pitkin County/ Gunnison County/ Montrose County/ Mesa County/ Delta County/ Dolores County/ Dolores Formation/ Montezuma County/ Entrada Sandstone/ stratigraphy/ Morrison Formation/ Colorado Plateau/

Hunt, C. B., 1956

Cenozoic/ geology/ Colorado Plateau/ physiography/ stratigraphy/ Moffat County/ sandstone/ Delta County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1955

Colorado Plateau/ ore deposits/ absolute age/ host rocks/ sandstone/ formational environments/

Entrada Sandstone/ Kayenta Formation/ Garfield County/ Moffat County/ Rio Blanco County/ San Miguel County/ Mesa County/ Montrose County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Jobin, D. A., 1956

Colorado Plateau/ ore deposits/ exploration/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ regional transmissivity/ Delta County/

Jobin, D. A., 1956

Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/

Jobin, D. A., 1962

Colorado Plateau/ ore deposits/ Morrison Formation/ transmissivity/ sandstone/ San Miguel County/ ground water/ conglomerate/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952

Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ Igneous-metamorphic/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952

Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ Igneous-metamorphic/

Keller, W. D., 1962

clay minerals/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ mineralogy/ Mesa County/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/

Kelley, V. C., 1955

sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/

Kelley, V. C., 1955

sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ Archuleta County/ Ouray County/ Gunnison County/ Montrose County/

Kelley, V. C., 1956

Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/

Kelley, V. C., 1956

Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Moffat County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ regional structure/

Kelley, V. C., 1959

structures/ fracture systems/ Colorado Plateau/ faults/ fractures/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Montezuma County/ Moffat County/ San Juan County/ Ouray County/ Delta County/ Gunnison County/ Garfield County/ La Plata County/ Rio Blanco County/

Kelley, V. C., 1959

jointing/ Colorado Plateau/ sandstone/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/

Kelley, V. C., and Clinton, N. J., 1960

Colorado Plateau/ sandstone/ fractures/ tectonics/ genesis/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/

Kerr, P. F., 1958

uranium/ ore deposits/ genesis/ alteration/ mineralogy/ Colorado Plateau/ Archuleta County/ conglomerate/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/

Kerr, P. F., 1958

Colorado Plateau/ ore deposits/ genesis/ sandstone/ stratigraphy/ uranium/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ hydrothermal emplacement/ Dolores County/

Lester, U. C., 1918

springs/ radioactivity/ mineral springs/ Colorado/ spring deposits/ Delta County/ Boulder County/

Marshall, C. H., 1959

Montrose County/ Delta County/ photogeologic map/ Delta quadrangle/ sandstone/ Colorado Plateau/

Miesch, A. T., 1963

Colorado Plateau/ ore deposits/ elements/ geology/ Morrison Formation/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/ Dolores County/

Miesch, A. T., Shoemaker, E. M., Newman, W. L., and others, 1960

Colorado Plateau/ ore deposits/ sandstone/ ore guides/ deposit size/ Jurassic/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ uranium/ chemical composition/ Morrison Formation/

Minerals Map Company, 1956

Colorado Plateau/ ore deposits/ maps/ sandstone/ Montrose County/ Dolores County/ Mesa County/ Delta County/ Garfield County/ Moffat County/ San Miguel County/

Mullens, T. E., and Freeman, V. L., 1954

lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/

Mullens, T. E., and Freeman, V. L., 1957

lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/

Newman, W. L., 1962

element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ sandstone/ mudstone/ limestone/ Uravan district/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/

DELTA COUNTY

DENVER COUNTY

Notestein, F. B., 1918

ore deposits/ geochemistry/ genesis/ experimental studies/ uranium/ vanadium/ Colorado Plateau/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/

Poole, F. G., and Williams, G. A., 1956

sediments/ Colorado Plateau/ ore guides/ uranium/ vanadium/ exploration/ sandstone/ conglomerate/ Morrison Formation/ transportation direction/ Chinle Formation/ Montrose County/ Entrada Sandstone/ Mesa County/ Delta County/ Tertiary/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/

Schultz, L. G., 1963

clay minerals/ Moenkopi Formation/ Chinle Formation/ x-ray diffraction/ Ouray County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Colorado Plateau/ sandstone/ La Plata County/

Shoemaker, E. M., 1954

Utah/ Colorado/ New Mexico/ Arizona/ Colorado Plateau/ structural features/ Uncompahgre uplift/ tectonics/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ Delta County/ diatremes/ La Plata County/ sandstone/ geology/ guidebook/ Mesa County/ igneous-metamorphic/

Shoemaker, E. M., 1956

structural features/ Colorado Plateau/ ore deposits/ veins/ Moffat County/ Rio Blanco County/ La Plata County/ uranium/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ San Juan County/ Ouray County/ sandstone/ Montezuma County/ Dolores County/ Archuleta County/

Shoemaker, E. M., and Luedke, R. G., 1952

Colorado Plateau/ map/ uranium/ ore deposits/ sandstone/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Ouray County/ Montezuma County/ La Plata County/ Garfield County/

Stieff, L. R., Stern, T. W., and Milkey, R. G., 1953

Colorado Plateau/ age determination/ sandstone/ uranium/ San Juan County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/

Stokes, W. L., 1944

Morrison Formation/ Colorado Plateau/ sandstone/ stratigraphy/ correlation/ Garfield County/ Mesa County/ Delta County/ Gunnison County/ Montrose County/ Ouray County/ Dolores County/ Hinsdale County/ Archuleta County/ Montezuma County/ La Plata County/ ore deposits/ San Juan County/

Walcott, E. R., 1904

radioactivity/ springs/ minerals/ Colorado/ Delta County/

Weeks, A. D., Coleman, R. G., and Thompson, M. E., 1959

Colorado Plateau/ ore deposits/ mineralogy/ oxidation/ vanadium/ sandstone/ uranium/ Moffat County/ Dolores County/ Garfield County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/

Williams, P. L., 1964

Colorado/ Utah/ Moab quadrangle/ ore deposits/ uranium/ maps/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Ouray County/ geology/ structure/ sandstone/

Wood, H. B., and Grundy, W. D., 1956

exploration guides/ exploration techniques/ Shinarump Formation/ channels/ Colorado Plateau/ uranium/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/

Wright, R. J., 1955

Colorado Plateau/ ore deposits/ ore controls/ lithology/ sandstone/ genesis/ Moffat County/ Dolores County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/ Archuleta County/

DENVER COUNTY

Boberg, W. W., 1970

surface water/ streams/ transport/ precipitation/ South Platte River/ geochemistry/ shale/ Jefferson County/ Douglas County/ Denver County/ Arapahoe County/ uranium/ Adams County/ Weld County/ Morgan County/ Washington County/ Logan County/ Sedgwick County/

Boberg, W. W., and Runnells, D. D., 1971

surface water/ rivers/ South Platte River/ geochemistry/ uranium/ analyses/ Jefferson County/ Douglas County/ Denver County/ Arapahoe County/ Adams County/ Weld County/ Morgan County/ Washington County/ Logan County/ Sedgwick County/ reconnaissance/

Popenoe, Peter, 1965

arkose/ shale/ sandstone/ conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ geology/ aeroradioactivity survey/ conglomerate/ Front Range/

Popenoe, Peter, 1965

Laramie Formation/ Dawson arkose/ Pierre Shale/ Castle Rock Conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ gamma-ray logs/ airborne radioactivity/ Front Range/ Fox Hills Sandstone/

U.S. Atomic Energy Commission, 1966

geology/ uranium/ geophysical prospecting/ economic

DENVER COUNTY

geology/ mining engineering/ petrology/ minerals/
radioactivity/ Denver County/ reconnaissance/
ore deposits/ Front Range/ slag/

DOLORES COUNTY

Adler, H. H., 1963

genesis/ sandstone/ ore deposits/ Jefferson
County/ Pueblo County/ Gunnison County/ Moffat
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ Colorado Plateau/ Front Range/
Rio Blanco County/

Adler, H. H., 1964

uranium/ roll ore/ exploration/ sandstone/ ore
deposits/ Jefferson County/ Pueblo County/ Gunnison
County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
San Miguel County/ Montezuma County/ La Plata
County/ Archuleta County/ Moffat County/ Colorado
Plateau/ Front Range/ Dolores County/

Anonymous, 1952

Colorado Plateau/ Uravan belt/ sandstone/ mill/
exploration/ Mesa County/ San Miguel County/
Dolores County/

Archbold, N. L., 1955

lithology/ vanadium/ uranium/ ore deposits/
Morrison Formation/ Salt Wash Member/ Colorado
Plateau/ sandstone/ analyses/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ calcium
carbonate/

Archbold, N. L., 1956

uranium/ vanadium/ Colorado Plateau/ Salt Wash
Member/ Morrison Formation/ sandstone/ Mesa
County/ Montrose County/ Dolores County/ Montezuma
County/ ore deposits/ lithology/ San Miguel
County/

Archbold, N. L., 1958

carbonate cement/ lithology/ vanadium/ uranium/
sandstone/ Morrison Formation/ Colorado Plateau/
Salt Wash Member/ Slick Rock district/ Uravan/
geochemistry/ ore deposits/ weathering/ alteration/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ Cougar mine/ Golden Cycle mine/
Virgin mine/ Upper Group/

Archbold, N. L., 1959

carbonate cement/ lithology/ vanadium/ uranium/
sandstone/ Morrison Formation/ Colorado Plateau/
Salt Wash Member/ Slick Rock district/ Uravan/
geochemistry/ ore deposits/ weathering/ alteration/
Mesa County/ Montrose County/ Dolores County/
Cougar mine/ Golden Cycle mine/ Virgin mine/
Upper group/

Bain, G. W., 1953

Colorado Plateau/ ore deposits/ sediments/ sandstone/
stratigraphy/ Dakota Group/ Morrison Formation/
structure/ topography/ geologic history/ Mesa
County/ Montrose County/ San Miguel County/

DOLORES COUNTY

geology/ Montezuma County/ reconnaissance/ Colorado
Plateau/ Dolores County/

Bain, G. W., 1953

Colorado Plateau/ ore deposits/ observations/
sedimentation/ Shinarump Member/ carnotite/
Morrison Formation/ tectonic structure/ sandstone/
fluvial sediments/ simulation/ precipitation/
Mesa County/ Montrose County/ San Miguel County/
Montezuma County/ conglomerate/ Chinle Formation/
Dolores County/ experimental studies/ Salt Wash
Member/

Bain, G. W., 1957

Colorado Plateau/ ore deposits/ organic ores/
genesis/ Colorado/ general/ Mesa County/ Delta
County/ sandstone/ Montrose County/ San Miguel
County/ Dolores County/ Archuleta County/ Garfield
County/ La Plata County/

Bain, G. W., Eastman, H. P., Ruckmick, J. C., and
others, 1953

Colorado Plateau/ ore deposits/ experimental
studies/ sandstone/ fluvial sediments/ field
observations/ heavy minerals/ Shinarump Member/
Morrison Formation/ Dakota Sandstone/ geology/
sedimentation/ ground water/ stratigraphy/ Mesa
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ Chinle Formation/

Baltz, E. H., Jr., 1955

Colorado/ New Mexico/ ore deposits/ exploration/
carbonaceous rocks/ sandstone/ Mesa County/
Delta County/ Montrose County/ Gunnison County/
Ouray County/ San Miguel County/ Hinsdale County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ coal/ shale/ reconnaissance/
Colorado Plateau/

Baltz, E. H., Jr., 1957

stratigraphy/ structure/ salt/ salt anticlines/
Colorado/ Utah/ Hermosa Formation/ Colorado
Plateau/ evaporites/ general/ San Miguel County/
Montrose County/ Dolores County/ Montezuma County/
sandstone/ Paradox Basin/

Bates, R. C., 1959

Colorado Plateau/ ore deposits/ resources/ exploration/
statistical analysis/ uranium/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ Morrison Formation/
sandstone/

Bethke, P. M., 1953

uranium salts/ Colorado Plateau/ simulation/
precipitation/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ sandstone/ ground water/ Morrison Formation/
Salt Wash Member/ uraninite/ carnotite/

Botinelly, Theodore, and Weeks, A. D., 1957

sandstone/ uranium/ vanadium/ Colorado Plateau/
Mesa County/ Montrose County/ minerals/ Dolores
County/ San Miguel County/ ore deposits/ mineralogic
classification/

Bowers, H. E., and Shawe, D. R., 1961

Slick Rock district/ Disappointment Valley/

DOLORES COUNTY

ore deposits/ exploration/ heavy minerals/ uranium/ vanadium/ sandstone/ Morrison Formation/ San Miguel County/ Salt Wash Member/ Dolores County/ ore guides/ Colorado Plateau/

Bromfield, C. S., 1967

San Miguel County/ Dolores County/ Mount Wilson quadrangle/ San Juan Mountains/ vanadium/ uranium/ Entrada Sandstone/ sandstone/ gold/ silver/ geology/ Colorado Plateau/

Bromfield, C. S., and Conroy, A. R., 1964

San Miguel County/ Dolores County/ Mount Wilson quadrangle/ vanadium/ San Juan Mountains/ uranium/ Entrada Sandstone/ sandstone/ gold/ silver/ geology/ Colorado Plateau/

Bromfield, C. S., and Williams, F. E., 1972

resources/ Wilson Mountains Primitive area/ uranium/ San Miguel County/ Dolores County/ vanadium/ sediments/ sandstone/ Colorado Plateau/ geophysics/

Bruyn, Kathleen, 1955

Colorado Plateau/ ore deposits/ sandstone/ Dolores County/ history/ San Miguel County/ Montrose County/ Mesa County/

Burbank, W. S., and Pierson, C. T., 1952

Gunnison County/ Ouray County/ San Juan County/ Dolores County/ radioactivity/ reconnaissance/ San Juan Mountains/ igneous-metamorphic/ Colorado Plateau/ sandstone/ veins/ San Miguel County/

Burbank, W. S., and Pierson, C. T., 1953

radioactivity/ reconnaissance/ San Juan Mountains/ Ouray County/ San Miguel County/ Gunnison County/ Dolores County/ igneous-metamorphic/ sandstone/ Colorado Plateau/ veins/ San Juan County/

Burwell, Blair, 1920

ore deposits/ resources/ mining/ carnotite/ Mesa County/ Dolores County/ San Miguel County/ Montrose County/ uranium/ vanadium/ Colorado Plateau/ sandstone/

Busch, P. M., 1961

vanadium/ Colorado Plateau/ uranium/ Placerville district/ Garfield County/ San Miguel County/ Dolores County/ San Juan County/ sandstone/ Uravan district/ Rico district/ metallurgy/ Rifle district/

Bush, A. L., 1954

San Juan Mountains/ San Miguel County/ mapping/ uranium/ vanadium/ sandstone/ Colorado Plateau/ veins/ Entrada Sandstone/ geology/ ore deposits/ Placerville district/ Dolores County/

Bush, A. L., 1954

San Juan Mountains/ Placerville district/ San Miguel County/ uranium/ vanadium/ Entrada Sandstone/ sandstone/ structure/ geology/ ore deposits/ Dolores County/ Colorado Plateau/ veins/

Bush, A. L., 1955

San Juan Mountains/ San Miguel County/ Dolores County/ Placerville district/ vanadium/ uranium/

DOLORES COUNTY

Entrada Sandstone/ sandstone/ ore deposits/ igneous-metamorphic/ Colorado Plateau/ veins/ geology/

Bush, A. L., 1956

vanadium/ uranium/ ore deposits/ Entrada Sandstone/ veins/ sandstone/ San Juan Mountains/ San Miguel County/ Dolores County/ mineralogy/ Placerville district/ geology/ Colorado Plateau/

Bush, A. L., and Bromfield, C. S., 1966

Dolores Peak quadrangle/ Dolores County/ San Miguel County/ geology/ sandstone/ Colorado Plateau/

Bush, A. L., and Bryner, Leonid, 1953

carnotite/ roscoelite/ stratigraphy/ Entrada Sandstone/ minerals/ Pony Express Limestone Member/ Wanakah Formation/ limestone/ sandstone/ Colorado Plateau/ uranium/ vanadium/ San Juan Mountains/ San Miguel County/ ore deposits/ San Juan County/ Dolores County/ La Plata County/ Lightner Creek district/ Placerville district/ resources/

Bush, A. L., Marsh, O. T., and Taylor, R. B., 1957

San Juan Mountains/ structure/ Placerville district/ San Miguel County/ igneous-metamorphic/ uranium/ vanadium/ selenium/ ore deposits/ Colorado Plateau/ San Juan County/ La Plata County/ Dolores County/ sandstone/ veins/

Byerly, P. E., and Joesting, H. R., 1959

Lisbon Valley area/ Colorado/ Colorado Plateau/ geophysical investigations/ uranium/ Mesa County/ San Miguel County/ Dolores County/ gravity/ aeromagnetism/ sandstone/ geophysics/ Montrose County/

Cadigan, R. A., 1955

Dolores County/ Garfield County/ Mesa County/ sandstone/ Montrose County/ Rio Blanco County/ San Miguel County/ Entrada Sandstone/ Morrison Formation/ stratigraphy/ Todilto Limestone/ Chinle Formation/ limestone/ host rocks/ conglomerate/ Colorado Plateau/ Triassic/ Jurassic/

Cadigan, R. A., 1959

Colorado Plateau/ ore deposits/ sandstone/ host rock/ Garfield County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Morrison Formation/ Entrada Sandstone/

Cadigan, R. A., 1971

petrology/ Moenkopi Formation/ Colorado Plateau/ mineralogy/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ stratigraphy/

Cadigan, R. A., 1971

geochemical distribution/ Colorado Plateau/ red beds/ vanadium/ sandstone/ La Plata County/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Rio Blanco County/ geochemistry/ Garfield County/ Moenkopi Formation/

- Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/
- Cannon, H. L., 1951
Colorado Plateau/ botanical studies/ uranium/ geobotany/ vanadium/ indicator plants/ Colorado/ Utah/ Salt Wash Member/ sandstone/ Astragalus/ geology/ analyses/ ore deposits/ Mesa County/ Montrose County/ Morrison Formation/ San Miguel County/ Dolores County/
- Cannon, H. L., 1952
Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/ vegetation/ uranium/ vanadium/ sandstone/ botanical studies/ Dolores County/ Colorado/ indicator plants/ Utah/ Morrison Formation/ Astragalus/ Salt Wash Member/ geology/ analyses/ ore deposits/ geobotany/
- Cannon, H. L., 1957
plant descriptions/ Colorado Plateau/ sandstone/ exploration/ uranium/ Astragalus/ vanadium/ Utah/ ore deposits/ New Mexico/ Arizona/ Colorado/ Wyoming/ San Miguel County/ Montrose County/ Mesa County/ geobotany/ Dolores County/ botanical studies/ indicator plants/
- Cannon, H. L., 1960
Colorado Plateau/ ore deposits/ botanical prospecting/ exploration/ indicator plants/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ geobotany/
- Carter, W. D., 1956
disconformity/ stratigraphy/ Cretaceous/ Colorado Plateau/ Dakota Sandstone/ Burro Canyon Member/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/ sandstone/
- Carter, W. D., 1957
disconformity/ stratigraphy/ Cretaceous/ Colorado/ Utah/ Colorado Plateau/ Dakota Sandstone/ Burro Canyon Member/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ sandstone/
- Case, J. E., and Joesting, H. R., 1972
geophysical investigations/ Colorado Plateau/ stratigraphy/ gravity surveys/ aeromagnetic surveys/ exploration/ Montezuma County/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ geophysics/ geology/
- Case, J. E., Joesting, H. R., and Byerly, P. E., 1963
geophysical investigations/ La Sal Mountains/ geophysics/ Colorado Plateau/ geology/ aeromagnetic surveys/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ igneous-metamorphic/
- Cater, F. W., Jr., 1954
Uravan district/ Dolores County/ San Miguel County/ Egnar quadrangle/ geology/ ore guides/ exploration/ minerals/ carnotite/ Colorado Plateau/ Salt Wash Member/ Morrison Formation/ sandstone/ Charles T. mines/ map/ Golden Rod mines/ Ownbey group/ Spud Patch group/ Legin mines/ Ike group of mines/ mines/ ore deposits/
- Cater, F. W., Jr., 1955
Dolores County/ San Miguel County/ Egnar quadrangle/ Colorado Plateau/ carnotite/ Morrison Formation/ sandstone/ Charles T. mines/ Golden Rod mines/ ore deposits/ Ownbey group of mines/ Spud Patch group/ Legin mines/ Ike group of mines/ geology/ map/ mines/ Salt Wash Member/
- Cater, F. W., Jr., 1955
Dolores County/ San Miguel County/ Colorado Plateau/ Joe Davis Hill quadrangle/ Morrison Formation/ ore deposits/ sandstone/ carnotite/ geology/ map/ Salt Wash Member/
- Cater, F. W., Jr., 1955
Dolores County/ San Miguel County/ Egnar quadrangle/ Colorado Plateau/ carnotite/ Morrison Formation/ sandstone/ Charles T. mines/ Ike group mines/ ore deposits/ Ownbey group/ Spud Patch group/ Legin mines/ geology/ map/ mines/ Golden Rod mines/ Salt Wash Member/
- Cater, F. W., Jr., 1955
Dolores County/ San Miguel County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ map/ mines/ carnotite/ Joe Davis Hill quadrangle/ geology/ ore deposits/
- Cater, F. W., Jr., 1955
geology/ Dolores County/ salt anticlines/ Montrose County/ San Miguel County/ sandstone/ Utah/ Paradox Basin/ Colorado Plateau/ carnotite/ San Juan Basin/ Archuleta County/ La Plata County/
- Cater, F. W., Jr., 1955
Colorado Plateau/ Colorado/ mapping/ maps published/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ sandstone/ carnotite/ ore deposits/
- Cater, F. W., Jr., and Bell, H., 3d, 1953
Uravan district/ Dolores County/ San Miguel County/ geology/ ore guides/ exploration/ minerals/ carnotite/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ Norma Jean mine/ Mucho Grande mine/ ore deposits/ map/ Joe Davis Hill quadrangle/
- Chenoweth, W. L., 1977
Colorado Plateau/ sandstone/ Garfield County/ San Miguel County/ Mesa County/ Dolores County/ Montezuma County/ Montrose County/
- Chew, R. T., 3d, 1955
Colorado Plateau/ Rifle mine/ Uravan district/ map/ Uranium Peak/ sandstone/ production/ uranium/ vanadium/ Morrison Formation/ La Plata County/ ore deposits/ Entrada Sandstone/ Rio Blanco County/ Mesa County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Gateway district/

Chew, R. T., 3d, 1955

sandstone/ Mesa County/ Utah/ stream sediments/ exploration/ radioactivity/ Delta County/ Montrose County/ gravels/ San Miguel County/ Dolores County/ Ouray County/ San Juan County/ Montezuma County/ La Plata County/ Colorado Plateau/

Chew, R. T., 3d, 1956

Mesa County/ Delta County/ Montrose County/ sandstone/ Dolores County/ Ouray County/ San Juan County/ gravels/ Montezuma County/ La Plata County/ Colorado Plateau/ exploration/ stream sediments/ radioactivity/ San Miguel County/

Chew, R. T., 3d, 1956

Rifle mine/ Uravan district/ Uranium Peak/ vanadium/ production/ Colorado Plateau/ uranium/ sandstone/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Entrada Sandstone/ ore deposits/ Garfield County/ Morrison Formation/

Coffin, R. C., 1921

resources/ structure/ composition/ sandstone/ carnotite/ radium/ uranium/ vanadium/ Colorado Plateau/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ ore deposits/

Coffin, R. C., 1921

carnotite/ Colorado Plateau/ radium/ uranium/ Mesa County/ vanadium/ sandstone/ ore deposits/ San Miguel County/ Dolores County/ Montrose County/

Coleman, R. G., Leo, G. W., and Stewart, D. B., 1957

Colorado Plateau/ ore deposits/ genesis/ geologic thermometry/ radioactive minerals/ sphalerite/ pyrite/ sulfides/ Good Hope mine/ Lytner (Lightner) Creek/ Wyoming/ sandstone/ Colorado/ Utah/ La Plata County/ Dolores County/ geothermometry/

Columbia University, 1971

plants/ uranium/ Colorado Plateau/ ore deposits/ sandstone/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/

Comstock, S. S., 1951

radioactivity/ exploration/ drilling/ Arizona/ Utah/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ gamma-ray logging/ Colorado Plateau/

Cooper, Margaret, 1951

bibliography/ uranium/ thorium/ carbonaceous deposits/ Colorado/ Colorado Plateau/ Mesa County/ sandstone/ San Miguel County/ Dolores County/ Montezuma County/ ore deposits/ Montrose County/

Cooper, Margaret, 1951

bibliography/ uranium/ thorium/ carbonaceous deposits/ Colorado/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ Dolores County/ organics/ sandstone/

Craig, L. C., and Holmes, C. N., 1951

Morrison Formation/ Colorado Plateau/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/

Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Mesa County/ stratigraphy/ Glen Canyon group/ San Rafael group/

Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951

Colorado Plateau/ Morrison Formation/ Mesa County/ stratigraphy/ Glen Canyon group/ Montezuma County/ Delta County/ San Rafael group/ Dolores County/ Gunnison County/ Montrose County/ sandstone/ Moffat County/ Ouray County/ San Juan County/ San Miguel County/ La Plata County/ Rio Blanco County/ Garfield County/ Archuleta County/

Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1955

stratigraphy/ Morrison Formation/ Colorado Plateau/ sandstone/ Recapture Member/ Mesa County/ Ouray County/ Delta County/ Gunnison County/ Montrose County/ San Juan County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Salt Wash Member/

Craig, L. C., Holmes, C. N., Freeman, V. L., and others, 1977

Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ member/ sandstone/ shale/ Colorado Plateau/ facies/ maps/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/

Curran, T. F., 1913

Colorado Plateau/ ore deposits/ carnotite/ history/ Gilpin County/ Wood mine/ Montrose County/ sandstone/ pitchblende/ San Miguel County/ Mesa County/ Dolores County/ Routt County/ Paradox Valley/ Rio Blanco County/ Utah/ Australia/ Front Range/ igneous-metamorphic/

Curran, T. F., 1913

ore deposits/ carnotite/ San Miguel County/ history/ Gilpin County/ Wood mine/ Montrose County/ Colorado Plateau/ sandstone/ pitchblende/ Mesa County/ Dolores County/ Routt County/ Rio Blanco County/ Paradox Valley/ Utah/ Australia/ Front Range/ igneous-metamorphic/

Eastman, H. P., 1953

detritus/ sandstone/ sphericity/ simulation/ transportation/ Shinarump Member/ river channels/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Colorado Plateau/

Ebbley, Norman, 1950

Colorado Plateau/ mines/ uranium/ Colorado/ Utah/ vanadium/ production problems/ Uravan district/ Gateway district/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Garfield County/ Rifle mine/ Morrison Formation/ Entrada Sandstone/ Dolores County/

Elston, D. P., and Landis, E. R., 1960

sandstone/ unconformities/ Paradox Valley/ Gypsum Valley/ salt anticlines/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Dolores County/ Hermosa Formation/ stratigraphy/

- Everhart, D. L., 1951
geology/ veins/ ore deposits/ minerals/ sandstone/ igneous-metamorphic/ mudstone/ Colorado Plateau/ phosphates/ pitchblende/ pegmatite/ carnotite/ Morrison Formation/ Entrada Sandstone/ Shinarump Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ asphalt/ limestone/ black shale/ Belgian Congo/ Canadian Shield/
- Finch, W. I., 1955
Colorado Plateau/ ore deposits/ uranium/ sandstone/ copper/ conglomerate/ ore-bearing formation/ limestone/ vanadium/ Rio Blanco County/ Garfield County/ Mesa County/ geology/ Delta County/ San Miguel County/ Dolores County/ Rifle mine/ Montezuma County/ La Plata County/ Greysill mine/ Placerville district/ Uravan district/ Gateway district/ map/ geology/
- Finch, W. I., 1956
Colorado Plateau/ ore deposits/ La Plata County/ production/ Triassic/ Chinle Formation/ shale/ sandstone/ conglomerate/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Garfield County/ Rio Blanco County/ geology/
- Finch, W. I., 1959
Colorado Plateau/ ore deposits/ production/ Triassic/ Chinle Formation/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ sandstone/ conglomerate/ shale/ Garfield County/ Rio Blanco County/ geology/
- Finch, W. I., 1967
Colorado Plateau/ Front Range/ Igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/
- Fischer, R. P., 1937
copper/ vanadium/ silver/ uranium/ sedimentary deposits/ Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ Montezuma County/ Dolores County/ San Miguel County/
- Fischer, R. P., 1942
vanadium/ production/ sandstone/ Morrison Formation/ Entrada Shinarump Member/ conglomerate/ ore deposits/ Dolores County/ San Miguel County/ Montrose County/ Colorado/ Utah/ Garfield County/ Colorado Plateau/ Entrada Sandstone/ Mesa County/
- Fischer, R. P., 1943
Colorado/ Utah/ vanadium/ ore deposits/ uranium/ radium/ Morrison Formation/ Entrada Sandstone/ Shinarump Member/ sandstone/ conglomerate/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Dolores County/ Colorado Plateau/
- Fischer, R. P., 1948
Morrison Formation/ Entrada Sandstone/ Placerville district/ Colorado Plateau/ production potential/ uranium/ vanadium/ ore deposits/ Colorado/ Utah/ New Mexico/ Arizona/ sandstone/ Uravan district/ Rifle district/ Garfield County/ Dolores County/ San Miguel County/ Montrose County/ Slick Rock district/
- Fischer, R. P., 1949
Colorado Plateau/ uranium/ vanadium/ ore deposits/ genesis/ structure/ ground water/ sandstone/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/
- Fischer, R. P., 1950
Colorado Plateau/ ore deposits/ sandstone/ uranium/ Morrison Formation/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ ore guides/ Garfield County/ San Miguel County/
- Fischer, R. P., 1950
Morrison Formation/ Colorado Plateau/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/ Garfield County/ Rio Blanco County/ sandstone/ ore rolls/ carnotite/ geology/ ore deposits/ mineralogy/ alteration/ Club mine/ uranium/ radium/ vanadium/ Entrada Sandstone/ genesis/
- Fischer, R. P., 1950
uranium/ vanadium/ potential/ Colorado Plateau/ sandstone/ ore deposits/ reserves/ analyses/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/
- Fischer, R. P., 1951
Colorado Plateau/ Uravan district/ exploration/ drilling/ sandstone/ ore deposits/ Morrison Formation/ Montrose County/ Mesa County/ Dolores County/ San Miguel County/
- Fischer, R. P., 1952
reserves/ resources/ Charles T. claims/ uranium/ Club Mesa area/ Maverick claims/ Radium claims/ Upper group/ Georgetown claims/ vanadium/ Colorado Plateau/ carnotite/ Morrison Formation/ sandstone/ Dolores County/ San Miguel County/ Mesa County/ Montrose County/
- Fischer, R. P., 1955
Colorado Plateau/ hot springs/ uranium/ vanadium/ geochemistry/ igneous-metamorphic/ sedimentary rocks/ veins/ sandstone/ ore deposits/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/
- Fischer, R. P., 1955
vanadium/ uranium/ geochemistry/ Colorado Plateau/ igneous-metamorphic/ sedimentary rocks/ veins/ sandstone/ ore deposits/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/ hot springs/

Fischer, R. P., 1955

veins/ igneous-metamorphic/ sedimentary rocks/
sandstone/ vanadium/ uranium/ ore deposits/
Colorado Plateau/ geochemistry/ San Miguel County/
Mesa County/ Montrose County/ Dolores County/
Garfield County/ hot springs/

Fischer, R. P., 1955

Durango district/ Placerville district/ Rico
district/ uranium/ vanadium/ chromium/ Delta
County/ Garfield County/ La Plata County/ Ouray
County/ Rio Blanco County/ San Juan County/
San Miguel County/ minerals/ mariposite/ sandstone/
Entrada Sandstone/ regional relations/ ore deposits/
Colorado Plateau/ Mesa County/ Moffat County/
Montezuma County/ Montrose County/ Rifle area/
Dolores County/

Fischer, R. P., 1956

uranium/ vanadium/ ore deposits/ Colorado Plateau/
genesis/ mineralogy/ Morrison Formation/ Entrada
Sandstone/ sandstone/ Mesa County/ copper/ Montrose
County/ San Miguel County/ Dolores County/ San
Juan County/ Uravan district/

Fischer, R. P., 1956

uranium/ vanadium/ ore deposits/ Colorado Plateau/
genesis/ mineralogy/ Morrison Formation/ Entrada
Sandstone/ sandstone/ Mesa County/ copper/ Montrose
County/ San Miguel County/ Dolores County/ San
Juan County/ Uravan district/

Fischer, R. P., 1956

ore deposits/ Colorado Plateau/ uranium/ vanadium/
localization/ Entrada Sandstone/ sandstone/
Rifle district/ Garfield County/ genesis/ San
Miguel County/ La Plata County/ Placerville
district/ Rico district/ Dolores County/

Fischer, R. P., 1956

vanadium/ uranium/ ore deposits/ Colorado Plateau/
sandstone/ Garfield County/ San Miguel County/
La Plata County/ Rifle district/ Placerville
district/ Rico district/ Durango district/ genesis/
localization/ Dolores County/ Entrada Sandstone/

Fischer, R. P., 1968

geology/ structure/ genesis/ sandstone/ San
Miguel County/ Montrose County/ Mesa County/
Dolores County/ Chinle Formation/ Morrison Formation/
Montezuma County/ La Plata County/ San Juan
County/ Garfield County/ Rio Blanco County/
Moffat County/ Entrada Sandstone/ production/
stratigraphy/ Colorado Plateau/ ore deposits/

Fischer, R. P., 1970

Colorado/ Wyoming/ Colorado Plateau/ genesis/
supergene processes/ ore deposits/ sandstone/
configuration/ distribution/ uranium/ Arizona/
mineralogy/ New Mexico/ Utah/ Mesa County/ Montrose
County/ Montezuma County/ Dolores County/ San
Miguel County/ Rio Blanco County/

Fischer, R. P., 1974

exploration/ ore guides/ uranium/ ore deposits/
Colorado Plateau/ Uravan district/ genesis/
sandstone/ Mesa County/ Montrose County/ San
Miguel County/ Dolores County/

Fischer, R. P., and Blackman, D. H., 1949

Colorado Plateau/ ore guides/ genesis/ Morrison
Formation/ carnotite/ sandstone/ Mesa County/
Montrose County/ Dolores County/ San Miguel
County/ ore deposits/ Calamity group/ geology/
structure/

Fischer, R. P., and Hilpert, L. S., 1951

Calamity Mesa/ Club Mesa/ Long Park/ Outlaw
Mesa/ Mesa County/ Montrose County/ San Miguel
County/ ore guides/ production/ Dolores County/
Uravan mineral belt/ sandstone/ ore deposits/
Morrison Formation/ Colorado Plateau/ carnotite/
exploration/ geology/ vanadium/ uranium/ Uravan
district/

Fischer, R. P., and Hilpert, L. S., 1951

Calamity Mesa/ Club Mesa/ Long Park/ Outlaw
Mesa/ Mesa County/ Montrose County/ San Miguel
County/ ore guides/ production/ Dolores County/
Uravan mineral belt/ sandstone/ Morrison Formation/
Colorado Plateau/ ore deposits/ carnotite/ exploration/
geology/ vanadium/ uranium/ Uravan district/

Fischer, R. P., and Hilpert, L. S., 1952

Uravan mineral belt/ ore deposits/ carnotite/
Mesa County/ Montrose County/ Outlaw Mesa/ Calamity
Mesa/ Club Mesa/ Long Park/ exploration/ geology/
sandstone/ Colorado Plateau/ Morrison Formation/
uranium/ Uravan district/ Dolores County/ San
Miguel County/ ore guides/ production/ uranium/

Fischer, R. P., Hilpert, L. S., Schumacher, J.
I., and others, 1951

Investigations/ carnotite/ ore deposits/ sandstone/
Colorado Plateau/ Morrison Formation/ Chinle
Formation/ Entrada Sandstone/ San Miguel County/
Mesa County/ Dolores County/ Garfield County/

Fleck, Herman, and Haldane, W. G., 1909

carnotite/ uranium/ vanadium/ radioactivity/
Dolores County/ Montrose County/ Mesa County/
San Miguel County/ sandstone/ Colorado Plateau/

Fleck, Herman, and Haldane, W. G., 1909

carnotite/ uranium/ vanadium/ radioactivity/
Dolores County/ Montrose County/ Mesa County/
San Miguel County/ sandstone/ Colorado Plateau/

Foster, M. D., 1959

Colorado Plateau/ ore deposits/ mineralogy/
geochemistry/ clay mineralogy/ uranium/ vanadium/
sandstone/ Moffat County/ Rio Blanco County/
Garfield County/ Mesa County/ Delta County/
San Miguel County/ Montrose County/ Dolores
County/ Montezuma County/ La Plata County/ Archuleta
County/

Four Corners Geological Society, 1960

Colorado Plateau/ Dolores County/ San Miguel
County/ Montrose County/ sandstone/ sediments/
geology/ structures/ Paradox basin/ oil/ gas/
uranium/

Freeman, H. D., 1935

uranium/ vanadium/ Triassic/ Jurassic/ sandstone/
Colorado/ Utah/ Colorado Plateau/ ore deposits/
Dolores County/ Montrose County/ San Miguel
County/

DOLORES COUNTY

- Gabelman, J. W., 1956
uranium/ ore deposits/ limestone/ Colorado Plateau/
Gypsum Valley area/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/ Wanakah
Formation/
- Gabelman, J. W., 1956
uranium/ ore deposits/ limestone/ Colorado Plateau/
Gypsum Valley area/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/ Wanakah
Formation/
- Gabelman, J. W., 1958
Colorado Plateau/ Uravan district/ mineral belts/
structure/ Montrose County/ San Miguel County/
Dolores County/ sandstone/ alterations/ tectonic
control/
- Gabelman, J. W., and Boyer, W. H., 1974
exploration/ status/ uranium/ technology/ history/
pitchblende/ radium/ vanadium/ Colorado Plateau/
Front Range/ Montrose County/ Mesa County/ San
Miguel County/ Dolores County/ Moffat County/
Jefferson County/ sandstone/ igneous-metamorphic/
shale/
- Garrels, R. M., and Larsen, E. S., 3d, compilers,
1959
Colorado Plateau/ ore deposits/ mineralogy/
geochemistry/ sandstone/ ground water/ clay/
mudstone/ organics/ Peanut mine/ J. J. mine/
Montrose County/ Rifle mine/ Garfield mine/
Moffat County/ Rio Blanco County/ Mesa County/
Delta County/ San Miguel County/ Dolores County/
La Plata County/ Montezuma County/ Archuleta
County/
- George, R. D., 1917
minerals/ rocks/ Colorado/ occurrences/ uses/
Colorado Plateau/ sandstone/ igneous-metamorphic/
uranium/ vanadium/ radium/ carnotite/ pitchblende/
Jefferson County/ Gypsum Valley/ Front Range/
Montrose County/ San Miguel County/ Dolores
County/ Garfield County/ Rio Blanco County/
Routt County/ Boulder County/
- Gilbert, C. C., 1954
resources/ sandstone/ Uravan district/ Morrison
Formation/ Mesa County/ Montrose County/ Gateway
district/ Gypsum Valley district/ Slick Rock
district/ Colorado Plateau/ Salt Wash Member/
Dolores County/ San Miguel County/ Paradox district/
- Girdley, W. A., Flook, J. E., and Harris, R. E., 1975
spectroscopy/ ore deposits/ uranium/ vanadium/
lithology/ mineralogy/ sandstone/ subsurface
stratigraphy/ Morrison Formation/ Sage Plain
area/ Colorado Plateau/ Utah/ Colorado/ Dolores
County/ Montezuma County/ La Plata County/ San
Miguel County/
- Gruner, J. W., 1951
Shinarump Member/ Morrison Formation/ Colorado
Plateau/ conglomerate/ sandstone/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ Utah/ pitchblende/
genesis/ Chinle Formation/ ore deposits/

DOLORES COUNTY

- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ syngenetic processes/
hydrothermal processes/ ground water/ genesis/
Shinarump Member/ Morrison Formation/ sandstone/
conglomerate/ mudstone/ limestone/ Todilto Limestone/
Mesa County/ Montrose County/ Dolores County/
San Miguel County/ Montezuma County/ Chinle
Formation/
- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ intrusives/
ore sources/ sandstone/ Mesa County/ Dolores
County/ Montrose County/ San Miguel County/
extrusives/ Montezuma County/ ground water/
igneous-metamorphic/
- Gruner, J. W., 1956
uranium concentration/ sediments/ geochemistry/
Colorado Plateau/ sandstone/ Mesa County/ genesis/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ multiple migration-accretion/
- Gruner, J. W., 1956
uranium concentration/ sediments/ geochemistry/
sandstone/ genesis/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ multiple migration-accretion/ Colorado
Plateau/
- Gruner, J. W., and Smith, D. K., Jr., 1954
South Dakota/ Wyoming/ ore deposits/ uranium/
Colorado Plateau/ sandstone/ siltstone/ shale/
coffinite/ uraninite/ organics/ Hopi Buttes/
diatremes/ Arizona/ Colorado/ New Mexico/ Utah/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/
- Gruner, J. W., and Smith, D. K., Jr., 1955
siltstone/ sandstone/ Colorado Plateau/ uranium/
coffinite/ Jurassic/ Larimer County/ Black King
mine/ Mesa County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ mineralogy/
Morrison Formation/ Bull Canyon district/ Calamity
Mesa/ Paradox Valley/ Salt Wash Member/ Front
Range/
- Gruner, J. W., Rosenzweig, A., and Smith, D. K.,
Jr., 1953
clay/ Colorado Plateau/ Chinle Formation/ Dolores
County/ San Juan County/ Arizona/ Utah/ New
Mexico/ Colorado/ San Juan Mountains/ Entrada
Sandstone/ Greysill mine/ sandstone/ San Miguel
County/
- Gruner, J. W., Rosenzweig, A., and Smith, D. K.,
Jr., 1954
Colorado Plateau/ ore deposits/ mineralogy/
uraninite/ coffinite/ vanadium/ uranium/ Colorado/
Utah/ New Mexico/ Todilto Limestone/ limestone/
Morrison Formation/ sandstone/ Entrada Sandstone/
Dolores County/ San Miguel County/ Greysill
mine/ Mesa County/ Montrose County/ San Juan
County/
- Gullotte, G. B., 1947
drilling/ well logging/ drill cores/ tables/
data/ ore deposits/ gamma-ray logs/ Slick Rock
district/ Colorado Plateau area/ Dolores County/
San Miguel County/ sandstone/ Dolores Plateau/

- Hackman, R. J., 1952
Dolores County/ San Miguel County/ photogeologic map/ Verdure-1 quadrangle/ Colorado/ Utah/ sandstone/ Colorado Plateau/ carnotite/
- Hackman, R. J., 1952
Dolores County/ photogeologic map/ Verdure-8 quadrangle/ Colorado/ Utah/ sandstone/ Colorado Plateau/ carnotite/
- Hackman, R. J., 1952
Dolores County/ Montezuma County/ photogeologic map/ Verdure-9 quadrangle/ Colorado/ Utah/ sandstone/ Colorado Plateau/ carnotite/
- Hackman, R. J., 1959
Dolores County/ Montezuma County/ photogeologic map/ Yellow Jacket quadrangle/ sandstone/ Colorado Plateau/
- Hague, R. S., Goldstein, S. J., and Blakey, E., 1958
sandstone/ uranium/ vanadium/ Uravan mineral belt/ ore deposits/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Colorado Plateau/
- Hastings, J. S., 1963
Uravan mineral belt/ Colorado Plateau/ sandstone/ exploration/ Montrose County/ San Miguel County/ Dolores County/ geology/ mining methods/
- Haynes, D. D., Vogel, J. D., and Wyant, D. G., compilers, 1972
Colorado/ Utah/ geology/ structure/ ore deposits/ uranium/ Cortez quadrangle/ map/ host formations/ sandstone/ San Miguel County/ Dolores County/ La Plata County/ Colorado Plateau/ stratigraphy/ Montezuma County/
- Hess, F. L., 1914
genesis/ carnotite/ Colorado/ uranium/ vanadium/ Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/
- Hess, F. L., 1922
Colorado Plateau/ ore deposits/ resources/ radium/ uranium/ vanadium/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/
- Hess, F. L., 1925
carnotite/ vanoxite/ vanadium/ mineralogy/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Colorado Plateau/ ore deposits/ Delta County/
- High, T. D., 1970
uranium/ vanadium/ mines/ sandstone/ reports/ Dolores County/ Gunnison County/ Little Indian property/ Mesa County/ Montrose County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/
- High, T. D., 1971
uranium/ vanadium/ mines/ sandstone/ Dolores County/ Montrose County/ Saguache County/ Pitch mine/ igneous-metamorphic/ San Miguel County/ Colorado Plateau/ Mesa County/
- High, T. D., 1972
uranium/ vanadium/ mines/ reports/ sandstone/ Montrose County/ San Miguel County/ Mesa County/ Saguache County/ igneous-metamorphic/ Pitch mine/ Colorado Plateau/ Dolores County/
- High, T. D., 1973
Dolores County/ uranium/ vanadium/ sandstone/ mines/ reports/ Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/
- High, T. D., 1974
uranium/ vanadium/ Dolores County/ Mesa County/ reports/ Montrose County/ San Miguel County/ sandstone/ mines/ Colorado Plateau/
- High, T. D., 1975
uranium/ vanadium/ mapping/ geological studies/ drilling/ Dolores County/ Mesa County/ sandstone/ Colorado Plateau/ Montrose County/ San Miguel County/ Rico-Argentine district/
- Hilpert, L. S., 1953
Colorado Plateau/ sandstone/ exploration/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ drilling/ Morrison Formation/ Uravan district/ Yellow Cat mine/ Monogram Mesa/ Gateway district/
- Hilpert, L. S., and Boardman, R. L., 1953
Colorado Plateau/ sandstone/ Colorado/ Utah/ Mesa County/ San Miguel County/ Dolores County/ drilling/ exploration/ ore deposits/ Morrison Formation/ Salt Wash Member/ Uravan district/ Gateway district/ Gypsum Valley district/ Montrose County/
- Holmes, C. N., 1950
sandstone/ Uncompahgre uplift/ tectonics/ sedimentary rocks/ Mesozoic/ Chinle Formation/ Pitkin County/ Gunnison County/ Montrose County/ Mesa County/ Delta County/ Dolores County/ Dolores Formation/ Montezuma County/ Entrada Sandstone/ stratigraphy/ Morrison Formation/ Colorado Plateau/
- Holmes, W. H., 1878
Dolores County/ San Miguel County/ La Plata County/ San Miguel Mountains/ geology/ Colorado Plateau/ igneous-metamorphic/ sandstone/ Sierra Abajo Mountains/
- Houser, F. N., and Ekren, E. B., 1959
Ute Mountains/ Montezuma County/ Dolores County/ sandstone/ Cretaceous strata/ Colorado Plateau/ Dakota Sandstone/
- Huff, L. C., 1954
Sage Plain area/ Utah/ Colorado/ Colorado Plateau/ mapping/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ sandstone/ Dolores County/ San Miguel County/ ore deposits/

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Huff, L. C., 1955

Colorado/ Utah/ ore deposits/ Colorado Plateau/ Dolores County/ San Miguel County/ stratigraphy/ Salt Wash Member/ sandstone/ uranium/ vanadium/ Sage Plain area/ Morrison Formation/

Huff, L. C., and Lesure, F. G., 1956

Sage Plain area/ Utah/ Colorado/ Colorado Plateau/ uranium/ vanadium/ Dolores County/ San Miguel County/ Morrison Formation/ sandstone/ Salt Wash Member/ geochemistry/ Middle Montezuma group/ Coyote No. 1 mine/ Verdure mine/ Strawberry mine/ Rainbow mine/ ore deposits/ geophysical logs/ Lucky Boy mine/

Huff, L. C., and Lesure, F. G., 1956

Colorado/ Colorado Plateau/ uranium/ vanadium/ Dolores County/ San Miguel County/ Morrison Formation/ sandstone/ mines/ Salt Wash Member/ peat/ Sage Plain area/ Utah/ ore deposits/

Huff, L. C., and Lesure, F. G., 1957

Colorado/ Utah/ Colorado Plateau/ uranium/ vanadium/ Dolores County/ San Miguel County/ Salt Wash Member/ sandstone/ stratigraphy/ mapping/ structure/ ore deposits/ geochemistry/ mines/ Sage Plain area/ Morrison Formation/

Huleatt, W. P., Hazen, S. W., Jr., and Traver, W. M., Jr., 1946

exploration/ vanadium/ Colorado/ Utah/ Colorado Plateau/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/

Hunt, C. B., 1956

Cenozoic/ geology/ Colorado Plateau/ physiography/ stratigraphy/ Moffat County/ sandstone/ Delta County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Isachsen, Y. W., 1956

Colorado Plateau/ Shinarump Member/ Chinle Formation/ Holiday Mesa/ Happy Jack mine/ Calyx mines/ Delta mine/ Cameron district/ copper/ vanadium/ sandstone/ geology/ ore deposits/ Montrose County/ San Miguel County/ Dolores County/ Big Indian Wash - Lisbon Valley district/ Mesa County/ stratigraphy/ structure/

Isachsen, Y. W., and Evensen, C. G., 1956

Colorado Plateau/ Shinarump Member/ Chinle Formation/ Holiday Mesa/ Happy Jack mine/ Calyx mines/ Delta mine/ Cameron district/ copper/ vanadium/ Big Indian Wash - Lisbon Valley district/ sandstone/ geology/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ stratigraphy/ structure/

Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1954

uranium/ ore deposits/ exploration/ drilling/ Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/

Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1955

Colorado Plateau/ ore deposits/ absolute age/ host rocks/ sandstone/ formational environments/ Entrada Sandstone/ Kayenta Formation/ Garfield County/ Moffat County/ Rio Blanco County/ San Miguel County/ Mesa County/ Montrose County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Ives, R. L., 1936

sandstone/ radium/ mining/ ore deposits/ San Miguel County/ Colorado Plateau/ history/ Utah/ carnotite/ Montrose County/ Dolores County/ Mesa County/ Montezuma County/ uranium/ McElmo Formation/

Jobin, D. A., 1956

Colorado Plateau/ ore deposits/ exploration/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ regional transmissivity/ Delta County/

Jobin, D. A., 1956

Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Montrose County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/

Jobin, D. A., 1962

Colorado Plateau/ ore deposits/ Morrison Formation/ transmissivity/ sandstone/ San Miguel County/ ground water/ conglomerate/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Joesting, H. R., and Byerly, P. E., 1953

Gateway district/ Sleeping Ute Mountain/ Uravan district/ geophysics/ Colorado Plateau/ San Miguel County/ Montrose County/ Mesa County/ Montezuma County/ Dolores County/ sandstone/ Slick Rock district/ vanadium/ uranium/ Egnar district/ ore deposits/

Joesting, H. R., and Byerly, P. E., 1956

Disappointment Valley/ Gypsum Valley/ Nucla district/ Paradox district/ Uncompahgre Plateau/ Mesa County/ San Miguel County/ Uravan district/ ore deposits/ salt anticlines/ Disappointment syncline/ geophysics/ sandstone/ Colorado Plateau/ geology/ Dolores County/ Montrose County/

Joesting, H. R., and Byerly, P. E., 1956

aeromagnetics/ gravity profiles/ sandstone/ Colorado Plateau/ Colorado/ Utah/ Mesa County/ Montrose County/ Dolores County/ Uravan district/ geology/ ore deposits/ geophysics/ San Miguel County/

Joesting, H. R., and Byerly, P. E., 1958

Disappointment Valley/ Disappointment syncline/ Nucla district/ Paradox district/ Uncompahgre

Plateau/ Mesa County/ Montrose County/ San Miguel County/ geophysics/ salt anticlines/ map/ ore deposits/ sandstone/ Gypsum Valley district/ Uravan district/ geology/ Dolores County/ Colorado Plateau/

Joesting, H. R., Case, J. E., and Plouff, D. F., 1966
Moab area/ Needles area/ Utah/ sandstone/ Mesa County/ Montrose County/ geophysics/ stratigraphy/ geology/ magnetic survey/ gravity survey/ structural geology/ San Miguel County/ Dolores County/ Colorado Plateau/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/

Keller, G. V., 1959
geological properties/ sandstone/ Morrison Formation/ geophysics/ resistivity/ porosity/ Dolores County/ Mesa County/ Montrose County/ San Miguel County/ Uravan district/ exploration/ Colorado Plateau/

Keller, G. V., and Licastro, P. H., 1959
dielectric constant/ electrical resistivity/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Miguel County/ Dolores County/ cores/ Colorado Plateau/ Morrison Formation/

Keller, W. D., 1953
Colorado Plateau/ ore deposits/ mudstone/ clay mineralogy/ uranium/ vanadium/ Morrison Formation/ San Miguel County/ Chinle Formation/ Montrose County/ Mesa County/ Dolores County/ sandstone/ clay minerals/

Keller, W. D., 1955
Colorado Plateau/ clay minerals/ mudstone/ Long Park area/ Slick Rock district/ Uravan district/ Club mines/ mudstone/ ore deposits/ Utah/ uranium/ vanadium/ mineralogy/ Dolores County/ San Miguel County/ Montrose County/ sandstone/

Keller, W. D., 1962
clay minerals/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ mineralogy/ Mesa

County/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/

Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/

Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ Archuleta County/ Ouray County/ Gunnison County/ Montrose County/

Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/

Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Moffat County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ regional structure/

Kelley, V. C., 1959
jointing/ Colorado Plateau/ sandstone/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/

Kelley, V. C., and Clinton, N. J., 1960
Colorado Plateau/ sandstone/ fractures/ tectonics/ genesis/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/

Kellogg, J. P., 1952
Colorado Plateau/ ore deposits/ exploration/ drilling/ Utah/ Colorado/ Arizona/ New Mexico/ uranium/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Salt Wash Member/ Tenderfoot Mesa/

Kellogg, J. P., 1954
drilling/ statistics/ Colorado Plateau/ Mesa County/ San Miguel County/ Montezuma County/ Dolores County/ sandstone/ exploration/

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- Kerr, P. F., 1958
 uranium/ ore deposits/ genesis/ alteration/
 mineralogy/ Colorado Plateau/ Archuleta County/
 conglomerate/ sandstone/ Moffat County/ Rio
 Blanco County/ Garfield County/ Mesa County/
 Delta County/ Montrose County/ San Miguel County/
 Dolores County/ Montezuma County/ La Plata County/
- Kerr, P. F., 1958
 Colorado Plateau/ ore deposits/ genesis/ sandstone/
 stratigraphy/ uranium/ Moffat County/ Rio Blanco
 County/ Garfield County/ Mesa County/ Delta
 County/ Montrose County/ San Miguel County/
 Montezuma County/ La Plata County/ Archuleta
 County/ hydrothermal emplacement/ Dolores County/
- Kirkemo, Harold, 1954
 Colorado Plateau/ sandstone/ exploration/ drilling/
 Mesa County/ Montrose County/ San Miguel County/
 Uravan district/ ore deposits/ Morrison Formation/
 Colorado/ Utah/ Arizona/ Long Park district/
 Dolores County/ Yellow Cat mine/ Slick Rock
 district/
- Koerberlin, F. R., 1938
 copper/ vanadium/ uranium/ silver/ Colorado/
 Utah/ genesis/ ore deposits/ discussion/ Montrose
 County/ Colorado Plateau/ Mesa County/ Montezuma
 County/ San Miguel County/ Dolores County/ sandstone/
- Langan, L. V., and Ash, H. O., 1955
 Colorado Plateau/ ore deposits/ uranium/ field
 trip/ New Mexico/ Utah/ Colorado/ stratigraphy/
 Morrison Formation/ sandstone/ Entrada Sandstone/
 Dolores County/ Montezuma County/ Montrose County/
 San Miguel County/
- Larsen, E. S., and Cross, C. W., 1956
 geology/ petrology/ San Juan region/ Colorado
 Plateau/ igneous-metamorphic/ Montrose County/
 Ouray County/ San Miguel County/ Dolores County/
 La Plata County/ Gunnison County/ Hinsdale County/
 Archuleta County/ Mineral County/ Saguache County/
 Conejos County/ Alamosa County/ San Juan County/
 Montezuma County/ Rio Grande County/
- Leaming, G. F., 1971
 economic development/ Arizona/ economic analysis/
 New Mexico/ Utah/ Colorado/ economic conditions/
 minerals/ mining/ fuels/ industries/ iron/ uranium/
 silver/ copper/ titanium/ coal/ natural gas/
 oil shale/ sandstone/ ore deposits/ Colorado
 Plateau/ Montezuma County/ Dolores County/ San
 Miguel County/ Montrose County/
- Lindberg, M., Weeks, A. D., Thompson, M E., and
 others, 1962
 henderonite/ vanadium/ Colorado Plateau/ vanadates/
 Paradox Valley/ Montrose County/ Morrison Formation/
 sandstone/ San Miguel County/ Dolores County/
 Montezuma County/ crystallography/ geochemistry/
- Lindgren, Waldemar, 1933
 copper/ lead/ vanadium/ uranium/ sandstone/
 shale/ carnotite/ roscoelite/ Colorado Plateau/
 Dolores County/ San Miguel County/ Mesa County/
 Montrose County/ Entrada Sandstone/ La Plata
- Sandstone/ McElmo Formation/ genesis/ Gilpin
 County/ igneous-metamorphic/ ore deposits/ Front
 Range/
- Maise, C. R., 1953
 Colorado Plateau/ ore deposits/ genesis/ ground
 water/ mineralization/ sandstone/ Jurassic/
 syncline/ aquifers/ experimental simulation/
 Morrison Formation/ Salt Wash Member/ Mesa County/
 Montrose County/ San Miguel County/ Dolores
 County/ Montezuma County/
- Maxwell, J. C., 1977
 San Juan Mountains/ geology/ Archuleta County/
 hydrogeochemistry/ stream sediments/ stream
 waters/ ground waters/ Storm King Mountain/
 Yallico Creek/ Montrose County/ Gunnison County/
 San Miguel County/ Dolores County/ Montezuma
 County/ La Plata County/ San Juan County/ Ouray
 County/ Hinsdale County/ Mineral County/
- McKelvey, V. E., 1953
 Colorado Plateau/ Dolores County/ Mesa County/
 exploration/ veins/ sandstone/ igneous-metamorphic/
 pegmatites/ geobotany/ Front Range/ Gilpin County/
 Clear Creek County/ coal/ Montrose County/ San
 Miguel County/ ore deposits/ phosphates/ shale/
 placers/
- McKelvey, V. E., 1953
 veins/ Dolores County/ Mesa County/ exploration/
 sandstone/ igneous-metamorphic/ Front Range/
 pegmatites/ geobotany/ Gilpin County/ Clear
 Creek County/ coal/ Montrose County/ San Miguel
 County/ ore deposits/ Colorado Plateau/ phosphates/
 shale/ placers/
- McKelvey, V. E., 1954
 Dolores County/ Mesa County/ exploration/ carnotite/
 veins/ sandstone/ igneous-metamorphic/ pegmatites/
 geobotany/ Front Range/ Gilpin County/ Clear
 Creek County/ coal/ Montrose County/ San Miguel
 County/ ore deposits/ veins/ Colorado Plateau/
 phosphates/ shale/ placers/
- McKelvey, V. E., 1955
 ore deposits/ exploration/ veins/ bituminous
 substances/ coal/ sandstone/ phosphates/ United
 States/ Dolores County/ Mesa County/ Gilpin
 County/ igneous-metamorphic/ Clear Creek County/
 Montrose County/ San Miguel County/ Front Range/
 Colorado Plateau/
- Merritt, P. L., 1950
 uranium/ Colorado Plateau/ Front Range/ exploration/
 Morrison Formation/ phosphates/ shale/ sandstone/
 igneous-metamorphic/ Mesa County/ Montrose County/
 San Miguel County/ Montezuma County/ Dolores
 County/ Gilpin County/ Clear Creek County/ Garfield
 County/ Boulder County/
- Merritt, P. L., 1950
 uranium/ exploration/ Colorado Plateau/ sandstone/
 Morrison Formation/ Entrada Sandstone/ Mesa
 County/ San Miguel County/ Dolores County/ Montezuma
 County/ Front Range/ Boulder County/ Gilpin
 County/ Caribou district/ igneous-metamorphic/
 Montrose County/ Clear Creek County/

- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Morrison Formation/
Entrada Sandstone/ sandstone/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ Front Range/ Boulder County/ Gilpin
County/ Clear Creek County/ Caribou district/
Igneous-metamorphic/
- Miesch, A. T., 1958
Colorado Plateau/ ore deposits/ exploration/
chemical composition/ size determination/ Jurassic/
sandstone/ ore guides/ uranium/ statistics/
San Miguel County/ Montrose County/ Mesa County/
Dolores County/ Morrison Formation/
- Miesch, A. T., 1958
Colorado Plateau/ ore deposits/ exploration/
size determination/ sandstone/ Jurassic/ Morrison
Formation/ ore guides/ uranium/ statistics/
San Miguel County/ Montrose County/ Mesa County/
chemical composition/ Dolores County/
- Miesch, A. T., 1963
Colorado Plateau/ ore deposits/ elements/ geology/
Morrison Formation/ Chinle Formation/ Moffat
County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
San Miguel County/ Montezuma County/ La Plata
County/ Archuleta County/ sandstone/ Dolores
County/
- Miesch, A. T., Shoemaker, E. M., and Newman, W.
L., 1958
elements/ Colorado Plateau/ sandstone/ Chinle
Formation/ analyses/ uranium/ vanadium/ Morrison
Formation/ Uravan district/ statistics/ San
Miguel County/ Dolores County/ Montrose County/
Mesa County/
- Miesch, A. T., Shoemaker, E. M., Newman, W. L.,
and others, 1959
chemical composition/ ore guides/ ore deposits/
Morrison Formation/ Salt Wash Member/ Colorado
Plateau/ sandstone/ analyses/ statistics/ Mesa
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ geology/
- Miesch, A. T., Shoemaker, E. M., Newman, W. L.,
and others, 1960
Colorado Plateau/ ore deposits/ sandstone/ ore
guides/ deposit size/ Jurassic/ Mesa County/
Delta County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ uranium/ chemical
composition/ Morrison Formation/
- Minerals Map Company, 1956
Colorado Plateau/ ore deposits/ maps/ sandstone/
Montrose County/ Dolores County/ Mesa County/
Delta County/ Garfield County/ Moffat County/
San Miguel County/
- Mullens, T. E., and Freeman, V. L., 1952
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/
Colorado Plateau/ Colorado/ uranium/ vanadium/
Mesa County/ Montrose County/ Dolores County/
Montezuma County/ La Plata County/ Utah/ Arizona/
New Mexico/ San Miguel County/ Morrison Formation/
- Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/
Colorado Plateau/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ La Plata County/ Moffat County/ Garfield
County/ Delta County/ San Juan County/ Eagle
County/ Pitkin County/ Gunnison County/ Ouray
County/ Hinsdale County/ Archuleta County/ genesis/
ore deposits/ Morrison Formation/ Rio Blanco
County/
- Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San
Juan County/ Morrison Formation/ stratigraphy/
Colorado Plateau/ Moffat County/ Rio Blanco
County/ Garfield County/ Eagle County/ Mesa
County/ Delta County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ La
Plata County/ genesis/ ore deposits/ Pitkin
County/ Gunnison County/ Ouray County/ Hinsdale
County/ Archuleta County/
- Newman, W. L., 1959
Colorado Plateau/ ore deposits/ sandstone/ resources/
indicators/ ore guides/ chemical composition/
exploration/ Morrison Formation/ Salt Wash Member/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/
- Newman, W. L., 1962
element distribution/ sedimentary rocks/ Colorado
Plateau/ genesis/ ore deposits/ sandstone/ mudstone/
limestone/ Uravan district/ Moffat County/ Rio
Blanco County/ Garfield County/ Mesa County/
Delta County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
- Nininger, R. D., and Wentzel, Volkmar, 1954
exploration/ ore deposits/ Colorado Plateau/
Uravan district/ Dolores County/ San Miguel
County/ Montrose County/ sandstone/
- Notestein, F. B., 1918
ore deposits/ geochemistry/ genesis/ experimental
studies/ uranium/ vanadium/ Colorado Plateau/
Rio Blanco County/ Garfield County/ Mesa County/
Delta County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ sandstone/
- Pierson, C. T., 1953
San Juan Mountains/ San Juan County/ La Plata
County/ Ouray County/ Dolores County/ Bonanza
district/ Saguache County/ Mineral County/ Hinsdale
County/ La Plata district/ Upper Uncompahgre
district/ Colorado Plateau/ igneous-metamorphic/
- Pierson, C. T., Weeks, W. F., and Kleinhampl, F.
J., 1956
San Juan Mountains/ Dolores County/ La Plata
County/ pitchblende/ reconnaissance/ radioactivity/
mining districts/ fractures/ andesite/ San Miguel
County/ hydrocarbons/ calcareous tufa/ hot springs/
limonite/ alteration/ diorite/ veins/ fault
breccia/ shear zone materials/ San Juan tuff/
Uncompahgre Formation/ igneous-metamorphic/
spring deposits/ Colorado Plateau/

- Pommer, A. M., 1956
oxidation potential/ Colorado Plateau/ uranium/
vanadium/ sandstone/ Salt Wash Member/ Morrison
Formation/ Utah/ Arizona/ Colorado/ New Mexico/
Montrose County/ Mesa County/ Dolores County/
Montezuma County/ Jo Dandy area/ ore deposits/
genesis/ Woody material/ San Miguel County/
- Poole, F. G., and Williams, G. A., 1956
sediments/ Colorado Plateau/ ore guides/ uranium/
vanadium/ exploration/ sandstone/ conglomerate/
Morrison Formation/ transportation direction/
Chinle Formation/ Montrose County/ Entrada Sandstone/
Mesa County/ Delta County/ Triassic/ San Miguel
County/ Dolores County/ Montezuma County/ La
Plata County/
- Poole, F. G., and Williams, G. A., 1956
ore guides/ exploration/ uranium/ vanadium/
sandstone/ conglomerate/ transportation direction/
Morrison Formation/ Chinle Formation/ Entrada
Sandstone/ sediments/ Mesa County/ Delta County/
Montrose County/ Dolores County/ Montezuma County/
La Plata County/ Triassic/ Colorado Plateau/
San Miguel County/
- Reinhardt, E. V., 1952
Colorado Plateau/ ore deposits/ ore guides/
uranium/ vanadium/ copper/ hydrocarbons/ limestone/
sandstone/ Morrison Formation/ Salt Wash Member/
Entrada Sandstone/ Shinarump Member/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/
- Reinhardt, E. V., 1963
Colorado Plateau/ Uravan district/ structure/
ore deposits/ genesis/ sandstone/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/
- Ruckmick, J. C., 1953
heavy minerals/ simulation/ ore deposits/ placers/
gravels/ sandstone/ Mesa County/ Montrose County/
Dolores County/ Montezuma County/ samarskite/
Shinarump Member/ conglomerate/ Colorado Plateau/
fluvial deposits/ San Miguel County/
- Schultz, L. G., 1963
clay minerals/ Moenkopi Formation/ Chinle Formation/
x-ray diffraction/ Ouray County/ Rio Blanco
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ Colorado Plateau/
sandstone/ La Plata County/
- Shawe, D. R., 1955
San Miguel County/ Dolores County/ Slick Rock
district/ sandstone/ Colorado Plateau/ ore deposits/
geology/
- Shawe, D. R., 1955
Slick Rock district/ San Miguel County/ Dolores
County/ sandstone/ Colorado Plateau/ ore deposits/
geology/
- Shawe, D. R., 1962
Colorado Plateau/ ore localization/ Uravan district/
sedimentation/ uranium/ vanadium/ Morrison Formation/
sandstone/ carbonaceous materials/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ ore deposits/
- Shawe, D. R., 1968
Slick Rock district/ ore deposits/ Chinle Formation/
Morrison Formation/ San Miguel County/ Dolores
County/ petrography/ sandstone/ uranium/ vanadium/
Colorado Plateau/
- Shawe, D. R., 1969
ore deposits/ minerals/ Utah/ Uravan district/
exploration/ Montrose County/ San Miguel County/
Dolores County/ uranium/ vanadium/ sandstone/
Morrison Formation/ Colorado Plateau/
- Shawe, D. R., 1970
geology/ tectonics/ ore deposits/ Slick Rock
district/ structure/ San Miguel County/ Dolores
County/ salt anticlines/ uranium/ vanadium/
sandstone/ Colorado Plateau/
- Shawe, D. R., 1974
alteration/ red beds/ uranium/ vanadium/ ore
deposits/ Colorado Plateau/ Slick Rock district/
San Miguel County/ sandstone/ Mancos Shale/
Morrison Formation/ carbonaceous material/ Dolores
County/ genesis/ deposition/ pore waters/
- Shawe, D. R., 1976
alteration/ Slick Rock district/ San Miguel
County/ Dolores County/ sandstone/ uranium/
vanadium/ Morrison Formation/ Chinle Formation/
Colorado Plateau/
- Shawe, D. R., 1976
geologic history/ Slick Rock district/ Colorado
Plateau/ Dolores County/ sandstone/ tectonics/
uranium/ San Miguel County/ vanadium/
- Shawe, D. R., and Granger, H. C., 1965
uranium ore/ rolls/ Rifle district/ Uravan district/
Colorado Plateau/ sandstone/ Entrada Sandstone/
Garfield County/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Morrison
Formation/
- Shawe, D. R., and others, 1956
San Miguel County/ Dolores County/ sandstone/
Cougar mine/ Slick Rock district/ Colorado Plateau/
ore deposits/ geology/
- Shawe, D. R., Archbold, N. L., and Simmons, G.
C., 1958
Colorado Plateau/ geology/ uranium/ vanadium/
ore deposits/ Slick Rock district/ San Miguel
County/ Dolores County/ County/ sandstone/ genesis/
Morrison Formation/
- Shawe, D. R., Archbold, N. L., and Simmons, G.
C., 1959
Colorado Plateau/ geology/ uranium/ vanadium/
ore deposits/ Slick Rock district/ San Miguel
County/ Dolores County/ sandstone/ genesis/
Morrison Formation/
- Shawe, D. R., Archbold, N. L., Boudette, E. L.,
and others, 1978
sandstone/ Colorado Plateau/ San Miguel County/

- Slick Rock district/ uranium/ vanadium/ ore deposits/ Dolores County/
- Shawe, D. R., Simmons, G. C., and Rogers, William, 1956
San Miguel County/ Dolores County/ Slick Rock district/ sandstone/ Colorado Plateau/ geology/ ore deposits/
- Shawe, D. R., Simmons, G. C., and Archbold, N. L., 1957
San Miguel County/ Dolores County/ Slick Rock district/ sandstone/ Colorado Plateau/ ore deposits/
- Shawe, D. R., Simmons, G. C., and Archbold, N. L., 1968
stratigraphy/ Slick Rock district/ San Miguel County/ Dolores County/ sandstone/ Morrison Formation/ uranium/ vanadium/ Chinle Formation/ Colorado Plateau/
- Shoemaker, E. M., 1954
Utah/ Colorado/ New Mexico/ Arizona/ Colorado Plateau/ structural features/ Uncompahgre uplift/ tectonics/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ Delta County/ dilatremes/ La Plata County/ sandstone/ geology/ guidebook/ Mesa County/ Igneous-metamorphic/
- Shoemaker, E. M., 1956
structural features/ Colorado Plateau/ ore deposits/ veins/ Moffat County/ Rio Blanco County/ La Plata County/ uranium/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ San Juan County/ Ouray County/ sandstone/ Montezuma County/ Dolores County/ Archuleta County/
- Shoemaker, E. M., and Luedke, R. G., 1952
Colorado Plateau/ map/ uranium/ ore deposits/ sandstone/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Ouray County/ Montezuma County/ La Plata County/ Garfield County/
- Shoemaker, E. M., and Newman, W. L., 1957
Moenkopi Formation/ salt anticlines/ sandstone/ Montrose County/ San Miguel County/ Dolores County/ geology/ Colorado Plateau/ Utah/ Mesa County/
- Shumway, G. L., 1970
uranium industry/ Colorado Plateau/ history/ sandstone/ San Miguel County/ Dolores County/ Montrose County/
- Simmons, G. C., 1957
sandstone/ Burro Canyon Formation/ Dakota Sandstone/ formation contacts/ Slick Rock district/ correlation/ fossils/ Dolores County/ San Miguel County/ geology/ stratigraphy/ Colorado Plateau/
- Simmons, G. C., 1957
Dakota Sandstone/ stratigraphy/ Slick Rock district/ correlation/ Burro Canyon Formation/ sandstone/ San Miguel County/ Dolores County/ Colorado Plateau/ geology/
- Stager, H. K., 1952
Colorado Plateau/ drilling/ sandstone/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ reserves/ La Sal Creek district/ Paradox Valley district/
- Stewart, J. H., and Wilson, R. F., 1960
Dolores County/ San Miguel County/ Montrose County/ Chinle Formation/ sandstone/ Moenkopi Formation/ Wingate Sandstone/ correlation/ Triassic/ Colorado Plateau/ salt anticlines/ Paradox basin/
- Stewart, J. H., Mullens, T. E., and Williams, G. A., 1954
Dolores County/ Mesa County/ Montrose County/ Isopach maps/ Colorado Plateau/ sandstone/ Morrison Formation/ stratigraphy/ Cutler Formation/ Hoskinnintongue/ Moenkopi formation/ Utah/ Arizona/
- Stewart, J. H., Williams, G. A., Albee, H. F., and others, 1959
stratigraphy/ Triassic/ Colorado Plateau/ Chinle Formation/ sandstone/ ore deposits/ sedimentary structure/ lithofacies/ San Miguel County/ Dolores County/ sedimentary petrology/
- Stokes, W. L., 1944
Morrison Formation/ Colorado Plateau/ sandstone/ stratigraphy/ correlation/ Garfield County/ Mesa County/ Delta County/ Gunnison County/ Montrose County/ Ouray County/ Dolores County/ Hinsdale County/ Archuleta County/ Montezuma County/ La Plata County/ ore deposits/ San Juan County/
- Tavelli, J. A., 1951
Colorado Plateau/ sandstone/ airborne radiometrics/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ New Mexico/ Arizona/ Utah/ exploration/ instrumentation/ Mesa County/
- Tom, C. W., 1966
Verdure quadrangle/ Utah/ San Miguel County/ Dolores County/ Montezuma County/ Colorado Plateau/ sandstone/ ore deposits/ economic map/ resources/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Dolores County/ reconnaissance/ ore deposits/ Colorado Plateau/ sandstone/
- U.S. Geological Survey, 1953
geology/ San Miguel County/ Uravan district/ sandstone/ Colorado Plateau/ Powderhorn district/ Igneous-metamorphic/ exploration/ Slick Rock district/ Gypsum Valley district/ Morrison Formation/ Gateway district/ Mesa County/ Montrose County/ Dolores County/ Spud Patch area/ Legln group/ Monogram Mesa/ Club Mesa/ carnotite/ ore deposits/ Gunnison County/
- U.S. Geological Survey, 1953
sandstone/ Colorado Plateau/ Front Range/ veins/ Igneous-metamorphic/ thorium/ Powderhorn district/ natural waters/ Morrison Formation/ Mesa County/ San Miguel County/ Dolores County/ Gilpin County/

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San Juan County/ La Plata County/ Ouray County/ geology/ Gunnison County/ Montrose County/ San Juan Mountains/ Clear Creek County/ ore deposits/

U.S. Geological Survey, 1954
Clear Creek County/ Gilpin County/ ore deposits/ reserves/ Colorado Plateau/ exploration/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Moffat County/ Dolores County/ Rio Blanco County/ Front Range/ Igneous-metamorphic/ Jefferson County/ pitchblende/ hydrogeochemical exploration/ stream sediments/ ground water/ mine waters/

U.S. Geological Survey, 1954
Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ Morrison Formation/ geology/ Chinle Formation/ Shinarump Member/ reserves/ San Juan Mountains/ snow/ surface water/ ground water/ Ouray County/ San Juan County/ conglomerate/ Igneous-metamorphic/ Front Range/

U.S. Geological Survey, 1954
Colorado Plateau/ Montrose County/ Mesa County/ Dolores County/ Montezuma County/ drilling/ logging/ data/ analyses/ sandstone/ maps/ Morrison Formation/ San Miguel County/

U.S. Geological Survey, 1955
Front Range/ Golden Gate Canyon area/ Uravan district/ exploration/ drilling/ Colorado Plateau/ Jefferson County/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ sandstone/ Igneous-metamorphic/ Ralston Buttes district/

U.S. Geological Survey, 1955
Colorado Plateau/ Front Range/ sandstone/ geologic mapping/ veins/ carbonaceous rocks/ geochemistry/ reconnaissance/ analyses/ Igneous-metamorphic/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ Montezuma County/ Fremont County/ Jefferson County/

U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ veins/ geologic mapping/ mineralogy/ petrology/ geophysics/ carbonaceous rocks/ analyses/ sandstone/ San Miguel County/ Dolores County/ Montrose County/ Montezuma County/ Jefferson County/ Mesa County/ Igneous-metamorphic/

U.S. Geological Survey, 1956
Colorado Plateau/ mapping/ geology/ geophysics/ mineralogy/ vanadium/ carbonaceous rocks/ petrology/ San Miguel County/ sandstone/ Igneous-metamorphic/ Dolores County/ Montrose County/ Montezuma County/ Jefferson County/ Front Range/ Mesa County/ Fremont County/

U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ sandstone/ San Miguel County/ Igneous-metamorphic/ Dolores County/ Montrose County/ Mesa County/ Montezuma County/ Jefferson County/ Fremont County/

U.S. Geological Survey, 1957
drilling/ Colorado Plateau/ sandstone/ reserves/ sections/ geology/ exploration/ ore deposits/ Mesa County/ Dolores County/ San Miguel County/ Montrose County/

U.S. Geological Survey, 1959
Colorado Plateau/ Lisbon Valley district/ mapping/ research/ thorium/ sandstone/ geophysics/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/

Umbach, P. H., 1952
exploration/ Colorado Plateau/ sandstone/ uranium/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/

Utah Geological Society, 1954
Colorado/ Utah/ ore deposits/ geology/ uranium/ sandstone/ New Mexico/ Arizona/ minerals/ Colorado Plateau/ Thompson district/ Lisbon Valley district/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Big Indian district/

Van Voorhis, B. W., Jr., 1945
ore deposits/ vanadium oxides/ vanadium/ geological surveys/ uranium/ prospecting/ reserves/ stratigraphy/ geology/ uranium oxides/ Dolores Plateau/ sandstone/ Dolores County/ San Miguel County/ Colorado Plateau/ Dolores River district/

Wardwell, H. R., 1948
uranium/ ore deposits/ exploration/ geology/ stratigraphy/ mining/ mineralogy/ vanadium/ minerals/ reserves/ Coyote Mesa district/ Dolores Plateau/ sandstone/ Colorado Plateau/ San Miguel County/ Dolores County/

Weeks, A. D., 1952
Colorado Plateau/ alteration/ sandstone/ oxidation/ paragenesis/ ore deposits/ pitchblende/ roscoelite/ mineralogy/ Uravan district/ Chinle Formation/ Shinarump Member/ Morrison Formation/ uraninite/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/

Weeks, A. D., 1956
Uravan district/ ore deposits/ mineralogy/ sandstone/ Colorado Plateau/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/

Weeks, A. D., and Thompson, M. E., 1954
Colorado Plateau/ ore deposits/ uranium/ vanadium/ minerals/ mineralogy/ identification/ x-ray data/ Mesa County/ analyses/ Montrose County/ San Miguel County/ Dolores County/ sandstone/

Weeks, A. D., and Truesdell, A. H., 1957
Uravan district/ sandstone/ Colorado Plateau/ mineralogy/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ ore deposits/

Weeks, A. D., Coleman, R. G., and Thompson, M. E., 1959
Colorado Plateau/ ore deposits/ mineralogy/ oxidation/ vanadium/ sandstone/ uranium/ Moffat County/ Dolores County/ Garfield County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose

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DOUGLAS COUNTY

County/ San Miguel County/ Montezuma County/
La Plata County/ Archuleta County/

Welr, D. B., 1951

Colorado Plateau/ sandstone/ carnotite/ ore
guides/ exploration/ ore deposits/ Morrison
Formation/ Mesa County/ Montrose County/ San
Miguel County/ Dolores County/ geology/

Welr, D. B., 1952

Colorado Plateau/ ore guides/ exploration/ carnotite/
ore deposits/ Morrison Formation/ sandstone/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ geology/

Wood, H. B., and Grundy, W. D., 1956

exploration guides/ exploration techniques/
Shinarump Formation/ channels/ Colorado Plateau/
uranium/ Moffat County/ Rio Blanco County/ Garfield
County/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ sandstone/

Wood, H. B., and Lekas, M. A., 1958

uranium/ sandstone/ ore deposits/ Colorado Plateau/
Uravan district/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/

Wood, H. B., and Lekas, M. A., 1958

Uravan district/ ore deposits/ sandstone/ uranium/
Colorado Plateau/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/

Wright, R. J., 1955

Colorado Plateau/ ore deposits/ ore controls/
lithology/ sandstone/ genesis/ Moffat County/
Dolores County/ Rio Blanco County/ Garfield
County/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ La Plata County/
Archuleta County/

DOUGLAS COUNTY

Ballie, W. N., 1962

pegmatites/ feldspar/ rare earths/ Boulder County/
Chaffee County/ Clear Creek County/ Douglas
County/ El Paso County/ Fremont County/ Gunnison
County/ Jefferson County/ Larimer County/ Park
County/ Igneous-metamorphic/ Front Range/

Boberg, W. W., 1970

surface water/ streams/ transport/ precipitation/
South Platte River/ geochemistry/ shale/ Jefferson
County/ Douglas County/ Denver County/ Arapahoe
County/ uranium/ Adams County/ Weld County/
Morgan County/ Washington County/ Logan County/
Sedgwick County/

Boberg, W. W., and Runnells, D. D., 1971

surface water/ rivers/ South Platte River/ geochemistry/
uranium/ analyses/ Jefferson County/ Douglas
County/ Denver County/ Arapahoe County/ Adams
County/ Weld County/ Morgan County/ Washington
County/ Logan County/ Sedgwick County/ reconnaissance/

Boos, C. M., and Boos, M. F., 1957

tectonics/ Front Range/ Igneous-metamorphic/

Gilpin County/ Larimer County/ Boulder County/
Jefferson County/ geology/ Clear Creek County/
Park County/ Douglas County/ Teller County/
El Paso County/ Fremont County/ Pueblo County/
granite/ schist/ gneiss/ pegmatite/

Brown, L. J., and Stehle, F. T., 1956

arkose/ uranium/ ore deposits/ exploration/
aerial prospecting/ reconnaissance/ El Paso
County/ Denver basin/ Dawson Arkose/ sandstone/
Arapahoe County/ Elbert County/ Douglas County/

Burnside, S. S., and Wenrich-Verbeek, K. J., 1976

Colorado/ New Mexico/ surface water/ stream
sediments/ Arizona/ analyses/ Douglas County/
exploration/ Huerfano County/ Summit County/
sampling techniques/ San Juan County/

De Voto, R. H., Land, C. B., Jr., Blazzard, T.
R., and others, 1972

Colorado/ Wyoming/ Utah/ field trip/ guidebook/
Tertiary/ Cretaceous/ energy resources/ uranium/
sandstone/ ore deposits/ oil/ gas/ oil shale/
coal/ Denver basin/ Dawson Formation/ Laramie
Formation/ Dakota Sandstone/ Morrison Formation/
Weld County/ Douglas County/ Arapahoe County/
Elbert County/ Rocky Mountains/

Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950

pegmatites/ geology/ mineralogy/ Chaffee County/
Boulder County/ Clear Creek County/ Douglas
County/ Fremont County/ Gunnison County/ Jefferson
County/ Larimer County/ Montrose County/ Park
County/ monazite/ thorium/ production/ Front
Range/ El Paso County/ Igneous-metamorphic/
Colorado Plateau/ Wyoming/ Utah/ Summit County/

Heinrich, E. W., 1958

thorium/ pegmatites/ Lake George area/ South
Platte area/ Douglas County/ Teller County/
Park County/ Igneous-metamorphic/ mineralogy/
analyses/ rare earth minerals/

King, R. U., 1951

reconnaissance/ Front Range/ geology/ mineralogy/
plitchblende/ Boulder County/ Clear Creek County/
Gilpin County/ Chaffee County/ Custer County/
El Paso County/ Fremont County/ Huerfano County/
Jefferson County/ Larimer County/ Teller County/
veins/ igneous-metamorphic/ stream sediments/
spring deposits/ shear zones/ pegmatites/ sandstone/
coal/ Eagle County/ Grand County/ Gunnison County/
Lake County/ Moffat County/ ore deposits/ Douglas
County/ San Miguel County/ Summit County/

Kober, C. L., and Procter-Gregg, H. D., 1977

uranium/ alteration zones/ LANDSAT MSS Imagery/
Jefferson County/ Boulder County/ Mesa County/
Montrose County/ San Miguel County/ Colorado
Plateau/ Douglas County/ sandstone/ Front Range/
Igneous-metamorphic/

Utton, J. K., and Ward, F. N., 1975

uranium/ trace elements/ stream sediments/ Denver
basin/ Castle Rock/ Douglas County/ Jefferson
County/ Arapahoe County/

DOUGLAS COUNTY

Popenoa, Peter, 1965

arkose/ shale/ sandstone/ conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ geology/ aeroradioactivity survey/ conglomerate/ Front Range/

Popenoa, Peter, 1965

Laramie Formation/ Dawson arkose/ Pierre Shale/ Castle Rock Conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ gamma-ray logs/ airborne radioactivity/ Front Range/ Fox Hills Sandstone/

U.S. Atomic Energy Commission, 1966

geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Douglas County/ reconnaissance/ ore deposits/ Front Range/ sandstone/

Wenrich-Verbeek, K. J., 1976

ore deposits/ exploration/ stream sediments/ sampling techniques/ San Juan County/ Douglas County/ surface water/

EAGLE COUNTY

Allen, M. A., and Butler, G. M., 1921

Colorado/ Utah/ Arizona/ vanadium/ Placerville district/ San Miguel County/ sandstone/ Eagle County/ carnotite/ uranium/ Paradox Valley/ production/ uses/ ore treatment/ geology/ Colorado Plateau/

Cadigan, R. A., 1967

petrology/ Morrison Formation/ Colorado Plateau/ sandstone/ Gunnison County/ La Plata County/ Archuleta County/ San Miguel County/ Mesa County/ Delta County/ Eagle County/ Montrose County/ Montezuma County/ mineralogy/ Rio Blanco County/ Salt Wash Member/

Cadigan, R. A., 1972

stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/

Campbell, G. C., and Schlotmann, J. D., 1957

uranium/ ore deposits/ stratigraphy/ mineralization/ geology/ geological surveys/ meteoric water/ siltstone/ Eagle County/ sandstone/ limestone/ Minturn Formation/ Vail Pass area/

Carter, W. D., and Gaultier, J. L., 1958

map/ tectonics/ Colorado/ Utah/ Moffat County/ Logan County/ geology/ Larimer County/ Jackson County/ Boulder County/ Jefferson County/ Clear Creek County/ Gilpin County/ Summit County/

EAGLE COUNTY

Grand County/ Eagle County/ Routt County/ Garfield County/ Rio Blanco County/ sandstone/ ore deposits/ igneous-metamorphic/

Christ, C. L., and Chisholm, W. A., 1957

thermoluminescence/ radioactive minerals/ limestone/ ore deposits/ limestone/ Gilman district/ ore guides/ hydrothermal alteration/ Eagle County/ Puerto Rico limestone/ igneous-metamorphic/

Duncan, D. C., compiler, 1953

ore deposits/ black shale/ Weber Formation/ exploration/ shale/ reconnaissance/ Belden Formation/ Paradox Member/ Eagle County/ Garfield County/ Gunnison County/ Hermosa Formation/ San Juan County/ La Plata County/ Lake County/ Pony Express Limestone Member/ Ouray County/ Dakota Sandstone/ Archuleta County/ Pierre Shale/ Las Animas County/ Huerfano County/ Vermejo Formation/ limestone/ sandstone/ Front Range/ Colorado Plateau/

Finch, W. J., 1967

Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Hess, F. L., 1914

genesis/ carnotite/ Colorado/ uranium/ vanadium/ Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/

Hurley, P. M., and Fairbairn, H. W., 1957

uranium/ thorium/ zircon/ analyses/ Front Range/ sphene/ apatite/ epidote/ monazite/ granite/ minerals/ pegmatites/ mineralogy/ Climax/ Colorado/ Massachusetts/ Nova Scotia/ Canada/ Germany/ El Paso County/ Eagle County/ Lake County/ Summit County/ igneous-metamorphic/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952

Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952

Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata

- County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ Igneous-metamorphic/
- Keevil, N. B., 1941
uranium/ exploration/ Gilman district/ Eagle County/ ore deposits/ radioactive aureoles/ veins/ Igneous-metamorphic/
- Keevil, N. B., 1941
ore deposits/ resources/ production/ uranium/ exploration/ Gilman district/ Eagle County/ Igneous-metamorphic/ veins/ radioactive aureoles/
- Keevil, N. B., 1942
radioactive aureoles/ ore deposits/ uranium/ exploration/ Gilman district/ Eagle County/ Igneous-metamorphic/ veins/
- King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ Igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ Igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ Igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/
- King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Kiowa County/ Larimer County/ Moffat County/ Pitkin County/ Rio Blanco County/ Routt County/ ore guides/ pitchblende/ hydrocarbons/ metal-mining districts/ ore deposits/ limestone/ sandstone/ veins/ breccia pipes/ Eagle County/ not spring deposits/ fluorite/ Igneous-metamorphic/
- Knox, M. S., 1947
Gilman district/ Colorado/ Santa Rita district/ New Mexico/ ore deposits/ alteration/ radioactivity/ Eagle County/ Igneous-metamorphic/
- Kuehnel, F. W., 1956
uranium/ ore deposits/ exploration/ drilling/ geology/ topography/ carnotite/ sandstone/ Piney Drilling Project/ Eagle County/ Shinarump Member/ Chinle Formation/
- Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/
- Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/
- Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/
- Osterwald, F. W., and Dean, B. G., 1956
bibliography/ structural geology/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ Clear Creek County/ Igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/ ore deposits/ tectonics/
- Osterwald, F. W., and Dean, B. G., 1958
ore deposits/ tectonics/ structural geology/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ Igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/
- Phair, George, 1953
Front Range/ Central City district/ ore deposits/ geochemistry/ petrology/ mineralogy/ bostonite/

EAGLE COUNTY

pitchblende/ Wood mine/ Kirk mine/ Igneous-metamorphic/ Quartz Hill area/ Copper King mine/ Larimer County/ Jamestown district/ Boulder County/ Chalk Mountain rhyolite/ Climax/ beta-uranophane/ uraninite/ Lake County/ Eagle County/ Summit County/

Stafford, H. S., 1955

uranium/ exploration/ geology/ stratigraphy/ sedimentary rocks/ carnotite/ Triassic sediments/ Eagle County/ State Bridge-Walcott area/ sandstone/ ore deposits/

Tweto, Ogden, Bryant, Bruce, and Williams, F. E., 1970

minerals/ resources/ Gore Range-Eagles Nest Primitive Area/ Summit County/ Eagle County/

U.S. Atomic Energy Commission, 1966

geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Eagle County/ reconnaissance/ ore deposits/ sandstone/ limestone/

Vine, J. D., and Flege, R. F., Jr., 1953

ore deposits/ exploration/ carbonaceous rocks/ Colorado/ Utah/ Idaho/ Wyoming/ coal/ Moffat County/ Garfield County/ Eagle County/ Mesa County/ Colorado Plateau/ sandstone/ coal/ shale/ Jackson County/ Montrose County/

ELBERT COUNTY

Brown, L. J., and Stehle, F. T., 1956

arkose/ uranium/ ore deposits/ exploration/ aerial prospecting/ reconnaissance/ El Paso County/ Denver basin/ Dawson Arkose/ sandstone/ Arapahoe County/ Elbert County/ Douglas County/

De Voto, R. H., Land, C. B., Jr., Blazzard, T. R., and others, 1972

Colorado/ Wyoming/ Utah/ field trip/ guidebook/ Tertiary/ Cretaceous/ energy resources/ uranium/ sandstone/ ore deposits/ oil/ gas/ oil shale/ coal/ Denver basin/ Dawson Formation/ Laramie Formation/ Dakota Sandstone/ Morrison Formation/ Weld County/ Douglas County/ Arapahoe County/ Elbert County/ Rocky Mountains/

Popenoe, Peter, 1965

arkose/ shale/ sandstone/ conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ geology/ aeroradioactivity survey/ conglomerate/ Front Range/

Popenoe, Peter, 1965

Laramie Formation/ Dawson arkose/ Pierre Shale/ Castle Rock Conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ gamma-ray logs/ airborne radioactivity/ Front Range/ Fox Hills Sandstone/

EL PASO COUNTY

U.S. Atomic Energy Commission, 1966

geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Elbert County/ reconnaissance/ ore deposits/ sandstone/

EL PASO COUNTY

Ballille, W. N., 1962

pegmatites/ feldspar/ rare earths/ Boulder County/ Chaffee County/ Clear Creek County/ Douglas County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Park County/ Igneous-metamorphic/ Front Range/

Beroni, E. P., and King, R. U., 1950

Front Range/ minerals/ carnotite/ Mike Doyle mine/ continental carbonaceous shale/ Morrison Formation/ El Paso County/ geology/ ore deposits/ sandstone/

Beroni, E. P., and King, R. U., 1952

Colorado Springs/ Mike Doyle mine/ ore deposits/ carnotite/ El Paso County/ sandstone/ Front Range/ carbonaceous shale/ Morrison Formation/ geology/

Boos, C. M., and Boos, M. F., 1957

tectonics/ Front Range/ igneous-metamorphic/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ geology/ Clear Creek County/ Park County/ Douglas County/ Teller County/ El Paso County/ Fremont County/ Pueblo County/ granite/ schist/ gneiss/ pegmatite/

Breger, I. A., and Moore, R. T., 1955

El Paso County/ Montrose County/ Virgin mine/ coal/ uraninite/ uranyl ion/ geochemistry/ reduction/ Colorado Plateau/ Front Range/ sandstone/ carbonaceous substances/

Brown, L. J., and Malan, R. C., 1954

ore deposits/ exploration/ Sangre de Cristo/ reconnaissance/ province/ Canyon City embayment/ City Slicker mine/ igneous-metamorphic/ El Paso County/ Las Animas County/ La Veta Pass/ Alamosa County/ Costilla County/ sandstone/ Fremont County/ Huerfano County/ Pueblo County/ Rio Grande County/ Saguache County/ Teller County/ Dakota Sandstone/ Morrison Formation/ Cripple Creek - Victor district/

Brown, L. J., and Stehle, F. T., 1956

arkose/ uranium/ ore deposits/ exploration/ aerial prospecting/ reconnaissance/ El Paso County/ Denver basin/ Dawson Arkose/ sandstone/ Arapahoe County/ Elbert County/ Douglas County/

Buck, K. L., 1955

bibliography/ thorium/ rare earths/ Alaska/ Colorado/ United States/ El Paso County/ Custer County/ Gunnison County/ igneous-metamorphic/ ore deposits/

Buck, K. L., 1957

ore deposits/ bibliography/ thorium/ rare earths/

Alaska/ Colorado/ United States/ El Paso County/
Custer County/ Gunnison County/ igneous-metamorphic/

Finch, W. I., 1967

Colorado Plateau/ Front Range/ igneous-metamorphic/
geology/ Larimer County/ Jackson County/ Routt
County/ Moffat County/ Garfield County/ Grand
County/ Eagle County/ Boulder County/ Jefferson
County/ Park County/ Mesa County/ Montrose County/
El Paso County/ San Miguel County/ Bent County/
Park County/ Saguache County/ Pueblo County/
Dolores County/ Las Animas County/ Huerfano
County/ Costilla County/ Custer County/ San
Juan County/ La Plata County/ Montezuma County/

George, R. D., Curtis, H. A., Lester, O. C., and
others, 1920

Colorado Plateau/ mineralized waters/ springs/
spring deposits/ Front Range/ Jefferson County/
Pitkin County/ Pueblo County/ Garfield County/
Park County/ El Paso County/ Ouray County/ Boulder
County/ Gunnison County/ Delta County/ Chaffee
County/

Gill, J. R., 1953

Colorado/ Montana/ Wyoming/ ore deposits/ carbonaceous
rocks/ coal/ Park County/ Gunnison County/ Delta
County/ Las Animas County/ El Paso County/ Teller
County/ La Plata County/ Montezuma County/ Denver
Basin/ Larimer County/ shale/ Crested Butte/
Laramie Formation/ Colorado Plateau/ Front Range/

Hall, C. R., 1976

alkalic/ igneous rocks/ igneous-metamorphic/
Gilpin County/ Front Range/ bibliography/ San
Juan County/ Custer County/ Fremont County/
La Plata County/ Montezuma County/ Gunnison
County/ Saguache County/ El Paso County/ Rio
Grande County/ Jefferson County/ Larimer County/
Boulder County/ Colorado Plateau/ Clear Creek
County/ Teller County/

Hanley, E. S., 1948

El Paso County/ Golden Cycle mill dump/ tailings/
Cripple Creek ore/ Teller County/ Front Range/
igneous-metamorphic/

Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950

pegmatites/ geology/ mineralogy/ Chaffee County/
Boulder County/ Clear Creek County/ Douglas
County/ Fremont County/ Gunnison County/ Jefferson
County/ Larimer County/ Montrose County/ Park
County/ monazite/ thorium/ production/ Front
Range/ El Paso County/ igneous-metamorphic/
Colorado Plateau/ Wyoming/ Utah/ Summit County/

Hurley, P. M., and Fairbairn, H. W., 1957

uranium/ thorium/ zircon/ analyses/ Front Range/
sphene/ apatite/ epidote/ monazite/ granite/
minerals/ pegmatites/ mineralogy/ Climax/ Colorado/
Massachusetts/ Nova Scotia/ Canada/ Germany/
El Paso County/ Eagle County/ Lake County/ Summit
County/ igneous-metamorphic/

Kelly, F. N., 1962

thorium/ Wet Mountains/ Custer County/ El Paso
County/ Fremont County/ Gunnison County/ Jefferson
County/ Park County/ mineralogy/ Powderhorn

district/ rare earths/ resources/ igneous-metamorphic/
Colorado/ Wyoming/ New Mexico/ economics/ Front
Range/ Gilpin County/

King, R. U., 1951

reconnaissance/ Front Range/ geology/ mineralogy/
pitchblende/ Boulder County/ Clear Creek County/
Gilpin County/ Chaffee County/ Custer County/
El Paso County/ Fremont County/ Huerfano County/
Jefferson County/ Larimer County/ Teller County/
veins/ igneous-metamorphic/ stream sediments/
spring deposits/ shear zones/ pegmatites/ sandstone/
coal/ Eagle County/ Grand County/ Gunnison County/
Lake County/ Moffat County/ ore deposits/ Douglas
County/ San Miguel County/ Summit County/

King, R. U., and Beroni, E. P., 1953

igneous-metamorphic/ reconnaissance/ Jefferson
County/ Park County/ El Paso County/ Clear Creek
County/ prospects/ uranium/ thorium/ Front Range/
ore deposits/ geology/

Lovering, T. G., and Beroni, E. P., 1956

Diamond J Ranch/ Golden Gate Canyon/ Haputa
Ranch area/ Ouray hot springs/ Chaffee County/
Custer County/ Gunnison County/ Jefferson County/
Ouray County/ radioactive limonite/ Lucky Break
Iron mine/ sandstone/ thorium/ uranium/ spring
deposits/ Front Range/ conglomerate/ limestone/
tufa/ analyses/ igneous-metamorphic/ ore deposits/
El Paso County/

Lovering, T. G., and Beroni, E. P., 1959

Diamond J Ranch/ Golden Gate Canyon/ Haputa
Ranch area/ Ouray hot springs/ Chaffee County/
Custer County/ Gunnison County/ Jefferson County/
Ouray County/ radioactive limonite/ Lucky Break
Iron mine/ thorium/ uranium/ spring deposits/
Front Range/ sandstone/ conglomerate/ limestone/
tufa/ El Paso County/ igneous-metamorphic/ ore
deposits/

Nash, A. L., and Brown, L. J., 1954

Canon City embayment/ airborne radiometrics/
Pueblo County/ shale/ clay/ George Avery Ranch/
carnotite/ analyses/ Hoyt Adkins Ranch/ Burgess
prospect/ El Paso County/ Dawson Arkose/ sandstone/
Dakota Formation/ Fremont County/ geology/ Morrison
Formation/ Front Range/

Olson, J. C., and Adams, J. W., 1962

thorium/ rare earths/ United States/ Colorado/
igneous-metamorphic/ Gunnison County/ Fremont
County/ Custer County/ Larimer County/ Gilpin
County/ Montezuma County/ Moffat County/ El
Paso County/

Osterwald, F. W., 1956

Cordilleran foreland/ Clear Creek County/ Jefferson
County/ ore deposits/ Routt County/ Jackson
County/ El Paso County/ Park County/ Grand County/
Front Range/ igneous-metamorphic/ Larimer County/
Eagle County/ Summit County/ Fremont County/
Saguache County/ Teller County/ Chaffee County/
tectonics/ Gilpin County/ Pueblo County/ Custer
County/ Precambrian/ genesis/ structures/

EL PASO COUNTY

- Osterwald, F. W., 1956
veins/ structural geology/ Precambrian rocks/
Teller County/ structural controls/ ore deposits/
Cordilleran foreland/ Igneous-metamorphic/ Gilpin
County/ Front Range/ tectonics/ El Paso County/
Larimer County/ Clear Creek County/
- Phair, George, and Mela, Henry, Jr., 1955
Bergen Park/ Breckenridge district/ Caribou
district/ age determination/ Front Range/ Cotopaxi/
Gold Hill/ Guffey/ Laramide/ isotopes/ Lawson-Dumont/
Silver Plume/ El Paso County/ mineralogy/ petrology/
geochemistry/ galena/ Summit County/ Boulder
County/ Clear Creek County/ Gilpin County/ Fremont
County/ Chaffee County/ Isotopic variation/
igneous-metamorphic/
- Shedd, J. C., 1912
El Paso County/ mineral springs/ radioactivity/
Manitou/ Front Range/
- Tourtelot, H. A., 1955
Boulder County/ Cheyenne County/ Crowley County/
Jefferson County/ Kiowa County/ Larimer County/
Pueblo County/ mineralogy/ petrology/ geochemistry/
black shale/ alteration/ White River group/
uranium/ radioactivity/ Cretaceous shales/ Great
Plains/ El Paso County/
- Tourtelot, H. A., 1956
marine black shales/ Boulder County/ Crowley
County/ El Paso County/ Jefferson County/ Kiowa
County/ Larimer County/ Pueblo County/ petrology/
geochemistry/ black shale/ alteration/ White
River group/ uranium/ radioactivity/ Cretaceous
shales/ Great Plains/ Cheyenne County/ mineralogy/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ El Paso County/ reconnaissance/
ore deposits/ Front Range/ sandstone/ igneous-metamorphic/

FREMONT COUNTY

- Armbrustmacher, T. J., 1975
thorium/ Wet Mountains/ Fremont County/ Custer
County/ igneous-metamorphic/ veins/ ore deposits/
- Armbrustmacher, T. J., 1976
thorium/ Wet Mountains/ Fremont County/ Custer
County/ igneous-metamorphic/ veins/ ore deposits/
- Ballile, W. N., 1962
pegmatites/ feldspar/ rare earths/ Boulder County/
Chaffee County/ Clear Creek County/ Douglas
County/ El Paso County/ Fremont County/ Gunnison
County/ Jefferson County/ Larimer County/ Park
County/ igneous-metamorphic/ Front Range/
- Bever, J. E., 1952
Park County/ Fremont County/ igneous-metamorphic/
geology/ petrology/ Guffey-Micanite region/
- Boos, C. M., and Boos, M. F., 1957
tectonics/ Front Range/ igneous-metamorphic/
Gilpin County/ Larimer County/ Boulder County/

FREMONT COUNTY

- Jefferson County/ geology/ Clear Creek County/
Park County/ Douglas County/ Teller County/
El Paso County/ Fremont County/ Pueblo County/
granite/ schist/ gneiss/ pegmatite/
- Brown, L. J., and Malan, R. C., 1954
ore deposits/ exploration/ Sangre de Cristo/
reconnaissance/ province/ Canyon City embayment/
City Slicker mine/ igneous-metamorphic/ El Paso
County/ Las Animas County/ La Veta Pass/ Alamosa
County/ Costilla County/ sandstone/ Fremont
County/ Huerfano County/ Pueblo County/ Rio
Grande County/ Saguache County/ Teller County/
Dakota Sandstone/ Morrison Formation/ Cripple
Creek - Victor district/
- Christman, R. A., Brock, M. R., and Singewald,
Q. D., 1954
Wet Mountains/ ore deposits/ exploration/ Custer
County/ thorium/ Fremont County/ Pueblo County/
veins/ igneous-metamorphic/
- Christman, R. A., Brock, M. R., Pearson, R. C.,
and Singewald, Q. D., 1954
Wet Mountains/ Haputa Ranch/ Silver Cliff district/
McKinley Mountain area/ Rosita district/ Tuttle
Ranch/ Westcliff area/ Custer County/ Fremont
County/ Pine Tree claim/ stratigraphy/ ore deposits/
structure/ Precambrian rocks/ rare earths/ veins/
thorium/ igneous-metamorphic/
- Christman, R. A., Brock, M. R., Pearson, R. C.,
and others, 1955
Wet Mountains/ ore deposits/ thorium/ Custer
County/ Fremont County/ veins/ igneous-metamorphic/
rare earths/ Pueblo County/
- Christman, R. A., Brock, M. R., Pearson, R. C.,
and others, 1960
Wet Mountains/ ore deposits/ resources/ production/
geology/ thorium/ Custer County/ Pueblo County/
Fremont County/ veins/ igneous-metamorphic/
- Christman, R. A., Heyman, A. M., Dellwig, L. F.,
and others, 1953
thorium/ Wet Mountains/ Custer County/ Fremont
County/ metamorphic rocks/ thorite/ ore deposits/
veins/ igneous-metamorphic/ shear zones/
- Christman, R. A., Heyman, A. M., Dellwig, L. F.,
and others, 1953
thorium/ reconnaissance/ Wet Mountains/ Fremont
County/ Custer County/ igneous-metamorphic/
exploration/ veins/ ore deposits/
- Christman, R. A., Heyman, A. M., Dellwig, L. F.,
1953
drilling/ analyses/ igneous-metamorphic/ Wet
Mountains/ structure/ geology/ mineralogy/ Custer
County/ Fremont County/ Haputa Ranch/ Tuttle
Ranch/ stratigraphy/ Precambrian rocks/ thorium/
rare earths/ ore deposits/ veins/ Atomic Mountain
group/ Barite lode/ thorite/ Big Chief claim/
Darby extension/
- Dahlem, D. H., 1965
geology/ Lookout Mountain area/ Fremont County/
alkaline complex/ petrology/ McClure Mountains/
igneous-metamorphic/

- Del Rio, S. M., compiler, 1960
minerals/ resources/ Colorado/ uranium/ Colorado Plateau/ San Miguel County/ Montrose County/ Mesa County/ Front Range/ Jefferson County/ Fremont County/ sandstone/ igneous-metamorphic/ Moffat County/
- Dellwig, L. F., 1951
Willis Tuttle ranch/ Greenwood thorium property/ thorium/ rare earths/ ore deposits/ Wet Mountains/ Custer County/ Fremont County/ igneous-metamorphic/ alkalic rocks/
- Epis, R. C., and Chapin, C. E., 1974
stratigraphy/ Thirtynine Mile volcanic field/ Summit County/ Fremont County/ stratigraphic nomenclature/ igneous-metamorphic/
- Fenton, M. D., and Faure, G., 1970
Gunnison County/ Iron Hill complex/ Rb-Sr/ age determinations/ carbonatite/ alkalic complexes/ thorium/ Fremont County/ igneous-metamorphic/ McClure Mountain complex/
- Fix, P. F., 1955
Barnard Creek/ geochemistry/ surface water/ uranium/ natural waters/ ground water/ Arkansas River/ South Platte River/ Gunnison River/ Fremont County/
- Gerhard, L. C., and Mark, Anson, 1968
Pueblo County/ Custer County/ Wet Mountains/ Paleozoic/ Mesozoic/ geology/ sandstone/ guidebook/ Fremont County/ igneous-metamorphic/ alkalic igneous rocks/
- Gruner, J. W., and Knox, J. A., 1957
Colorado/ Arizona/ Montana/ New Mexico/ South Dakota/ minerals/ uranium/ ore deposits/ mines/ San Miguel County/ Colorado Plateau/ Fremont County/ Gunnison County/ Saguache County/ volcanics/ conglomerate/ Morrison Formation/ sandstone/ siltstone/ igneous-metamorphic/ Montrose County/ Mesa County/ Moffat County/ Browns Park Formation/
- Hall, C. R., 1976
alkalic/ igneous rocks/ igneous-metamorphic/ Gilpin County/ Front Range/ bibliography/ San Juan County/ Custer County/ Fremont County/ La Plata County/ Montezuma County/ Gunnison County/ Saguache County/ El Paso County/ Rio Grande County/ Jefferson County/ Larimer County/ Boulder County/ Colorado Plateau/ Clear Creek County/ Teller County/
- Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
pegmatites/ geology/ mineralogy/ Chaffee County/ Boulder County/ Clear Creek County/ Douglas County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Montrose County/ Park County/ monazite/ thorium/ production/ Front Range/ El Paso County/ igneous-metamorphic/ Colorado Plateau/ Wyoming/ Utah/ Summit County/
- Heinicke, J. H., 1960
ore deposits/ resources/ reserves/ Gunnison County/ production/ thorium/ Fremont County/ Custer County/ igneous-metamorphic/
- Heinrich, E. W., 1948
pegmatites/ thorium/ rare earth minerals/ Chaffee County/ Fremont County/ monazite/ igneous-metamorphic/ ore deposits/ fluorite/
- Heinrich, E. W., and Bever, J. E., 1957
Guffey area/ igneous-metamorphic/ radioactive minerals/ pegmatites/ Park County/ Fremont County/
- Heinrich, E. W., and Dahlem, D. H., 1966
Guffey area/ igneous-metamorphic/ radioactive minerals/ pegmatites/ Park County/ Fremont County/ carbonatite/ Arkansas River Canyon area/
- Heinrich, E. W., and Dahlem, D. H., 1967
carbonatites/ alkalic rocks/ Fremont County/ McClure Mountain/ Iron Mountain/ geology/ petrography/ genesis/ igneous-metamorphic/ Arkansas River area/
- Heinrich, E. W., and Dahlem, D. H., 1967
carbonatites/ alkalic rocks/ Fremont County/ McClure Mountain/ Iron Mountain/ geology/ petrography/ genesis/ igneous-metamorphic/ Arkansas River area/
- Heinrich, E. W., and Dahlem, D. H., 1970
Fremont County/ igneous-metamorphic/ dikes/ Iron Mountain alkalic complex/ alkalic rocks/ McClure Mountain alkalic complex/
- Heinrich, E. W., and Reuss, R. L., 1969
Fremont County/ Custer County/ igneous-metamorphic/ petrology/ carbonatites/ Gem Park/ gabbro/ intrusives/
- Heinrich, E. W., and Shappirio, J. R., 1966
alkaline rocks/ carbonatites/ Arkansas River Canyon/ Iron Mountain/ McClure Mountain/ geology/ mineralogy/ petrology/ amethyst carbonatites/ Fremont County/ igneous-metamorphic/
- Hyden, H. J., 1956
uranium/ crude oil/ petroleum/ Moffat County/ conglomerate/ Triassic/ Jurassic/ Entrada Sandstone/ Morrison Formation/ Archuleta County/ Cretaceous/ Dakota Sandstone/ Mancos Shale/ Morgan County/ Rio Blanco County/ sandstone/ trace elements/ Shinarump Member/ Fremont County/
- Jensen, F. S., 1957
Fremont County/ Tallahassee Creek district/ ore deposits/ uranium/ sandstone/ arkose/ volcanic detritus/ igneous-metamorphic/ Dickson-Snooper mine/ Sunshine mine/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/

- bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/
- Kelly, F. N., 1962
thorium/ Wet Mountains/ Custer County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Park County/ mineralogy/ Powderhorn district/ rare earths/ resources/ igneous-metamorphic/ Colorado/ Wyoming/ New Mexico/ economics/ Front Range/ Gilpin County/
- King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/
- King, R. U., and Theobald, P. K., Jr., 1955
Canon City/ Idledale/ ore deposits/ exploration/ Jefferson County/ veins/ FMD mine/ Front Range/ geology/ igneous-metamorphic/ Fremont County/
- MacPherson, B. A., 1959
uranium/ ore deposits/ geology/ stratigraphy/ topography/ lithology/ mineralogy/ Fremont County/ igneous-metamorphic/ volcanics/ conglomerate/ arkose/ uraninite/ Sunshine mine/ genesis/ ore controls/ Mary L mine/ Tallahassee Creek district/ Dickson-Snooper mine/
- Malan, R. C., 1969
Intermontane basins/ North Park/ Tertiary/ Middle Park/ South Park/ Raton basin/ Tallahassee Creek district/ sandstone/ ore deposits/ Grand County/ Teller County/ Park County/ arkose/ Fremont County/ mudstone/ Huerfano County/ conglomerate/ genesis/ geology/ Gunnison County/ Saguache County/ exploration/ water sampling/ Wet Mountains/ High Park/ Cochetopa district/ Marshall Pass/ Thirtynine Mile field/
- Malan, R. C., 1969
genesis/ ore deposits/ Tertiary/ Intermontane basins/ geology/ uranium/ minerals/ sediments/ stratigraphy/ sandstone/ Middle Park/ South Park/ Raton basin/ Thirtynine Mile volcanic field/ Tallahassee Creek district/ Jackson County/ Grand County/ Park County/ Fremont County/ Huerfano County/ Custer County/
- McCarn, D. W., and Freeman, R. W., 1976
ground water/ surface water/ United States/ uranium/ chemical analyses/ Colorado/ Front Range/ Jefferson County/ Chaffee County/ Fremont County/ Gunnison County/ Huerfano County/ Saguache County/ Park County/ Colorado Plateau/
- Moore, D. G., 1970
Custer County/ Fremont County/ igneous-metamorphic/ thorium/ geology/ mineralogy/ genesis/ Wet Mountains/ feldspar rocks/ alkalic rocks/ carbonatite/
- Nash, A. L., and Brown, L. J., 1954
Canon City embayment/ airborne radiometrics/ Pueblo County/ shale/ clay/ George Avery Ranch/ carnotite/ analyses/ Hoyt Adkins Ranch/ Burgess prospect/ El Paso County/ Dawson Arkose/ sandstone/ Dakota Formation/ Fremont County/ geology/ Morrison Formation/ Front Range/
- Olson, J. C., and Adams, J. W., 1962
thorium/ rare earths/ United States/ Colorado/ igneous-metamorphic/ Gunnison County/ Fremont County/ Custer County/ Larimer County/ Gilpin County/ Montezuma County/ Moffat County/ El Paso County/
- Olson, J. C., Marvin, R. F., Parker, R. L., and Mehnert, H. H., 1977
thorium/ alkalic rocks/ age dating/ carbonatite/ Gunnison County/ Saguache County/ Custer County/ Fremont County/ tectonics/ igneous-metamorphic/ mafic rocks/ Paleozoic/ veins/
- Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/
- Osterwald, F. W., 1965
ore deposits/ genesis/ veins/ mining districts/ structural controls/ Moffat County/ pitchblende/ conglomerate/ Front Range/ igneous-metamorphic/ sandstone/ Jefferson County/ Boulder County/ Montrose County/ Clear Creek County/ Gilpin County/ Saguache County/ Fremont County/
- Page, L. R., 1950
Mount Antero region/ Crystal Mountain district/ San Juan Mountains/ Chaffee County/ Larimer County/ helvite/ pegmatites/ beryllium/ beryl/ Colorado Plateau/ igneous-metamorphic/ Devils Hole mine/ Fremont County/ Gunnison County/ Jefferson County/ San Juan County/ Front Range/ aquamarine/
- Page, L. R., 1950
beryllium/ beryl/ Colorado Plateau/ pegmatites/ Larimer County/ igneous-metamorphic/ San Juan County/ Devils Hole mine/ Fremont County/ Gunnison County/ Jefferson County/ Mount Antero/ Chaffee County/ aquamarine/ Front Range/ Crystal Mountain district/
- Page, L. R., 1950
pegmatite/ geochemistry/ igneous-metamorphic/ uranium/ mineralogy/ Gunnison County/ Larimer

- County/ Chaffee County/ Fremont County/ Front Range/
- Parker, R. L., and Hildebrand, F. A., 1963
alkalic rocks/ intrusives/ Wet Mountains/ Fremont County/ Custer County/ Igneous-metamorphic/ geology/ petrology/
- Parker, R. L., and Sharp, W. N., 1970
carbonatites/ mafic-ultramafic/ thorium/ monazite/ geology/ Gem Park complex/ Custer County/ Fremont County/ mineralogy/ geochemistry/ Igneous-metamorphic/
- Phair, George, and Gilbert, F. L., 1959
Igneous-metamorphic/ thorium/ ore deposits/ Wet Mountains/ Custer County/ Fremont County/ veins/ zoning/
- Phair, George, and Mela, Henry, Jr., 1955
Bergen Park/ Breckenridge district/ Carlbou district/ age determination/ Front Range/ Cotopaxi/ Gold Hill/ Guffey/ Laramide/ Isotopes/ Lawson-Dumont/ Silver Plume/ El Paso County/ mineralogy/ petrology/ geochemistry/ galena/ Summit County/ Boulder County/ Clear Creek County/ Gilpin County/ Fremont County/ Chaffee County/ Isotopic variation/ Igneous-metamorphic/
- Salotti, C. A., 1961
Fremont County/ Igneous-metamorphic/ sandstone/ Cotopaxi area/ Howard area/ geology/ petrology/
- Salotti, C. A., 1962
Fremont County/ Igneous-metamorphic/ petrology/ structure/ Howard area/ metasediments/ Precambrian rocks/
- Salotti, C. A., 1965
mineralogy/ paragenesis/ Cotopaxi area/ Chaffee County/ Custer County/ Fremont County/ Park County/ Igneous-metamorphic/ petrology/ geology/ skarn/ ore deposits/ copper/ zinc/ uranium/
- Shappirio, J. R., 1963
Fremont County/ sandstone/ geology/ petrology/ Tallahassee Creek area/ ore deposits/ conglomerate/
- Shappirio, J. R., and Heinrich, E. W., 1961
Tallahassee Creek area/ ore deposits/ Fremont County/ uranium/ conglomerate/ sandstone/
- Shappirio, J. R., and Heinrich, E. W., 1962
Tallahassee Creek area/ ore deposits/ Fremont County/ uranium/ conglomerate/ sandstone/
- Shawe, D. R., and Parker, R. L., 1967
Fremont County/ ultramafic layered intrusives/ Iron Mountain complex/ McClure Mountain complex/ Igneous-metamorphic/ mafic rocks/
- Simon, M. R., 1956
ore deposits/ Huerfano County/ Raton basin/ Fremont County/ Custer County/ Las Animas County/ sandstone/ Costilla County/ uranium/ geology/ arkose/
- Sims, P. K., 1956
Front Range/ ore deposits/ uranium/ Larimer County/ Boulder County/ Gilpin County/ Clear
- Creek County/ Jefferson County/ Fremont County/ Igneous-metamorphic/
- Singewald, Q. D., 1966
thorium/ faults/ Ilse fault zone/ Wet Mountains/ structure/ Igneous-metamorphic/ gneiss/ ore deposits/ Fremont County/
- Singewald, Q. D., and Brock, M. R., 1956
thorium/ faults/ Ilse fault zone/ Wet Mountains/ Fremont County/ structures/ Igneous-metamorphic/ gneiss/ ore deposits/ geology/
- Singewald, Q. D., and Brock, M. R., 1956
thorium/ Wet Mountains/ Custer County/ Fremont County/ Precambrian rocks/ Tertiary rocks/ dikes/ metasediments/ Igneous-metamorphic/ gneiss/ veins/ pegmatites/ ore deposits/
- Singewald, Q. D., Christman, R. A., and Brock, M. R., 1953
Haputa Ranch area/ Custer County/ Fremont County/ veins/ thorium/ rare earths/ ore deposits/ Wet Mountains/ Precambrian rocks/ Sewell property/ Anna Lee property/ Igneous-metamorphic/
- Singewald, Q. D., Christman, R. A., and others, 1956
Custer County/ Fremont County/ McKinley Mountain area/ Igneous-metamorphic/ geology/ radiometrics/ maps/ City/ Colorado Plateau/ Gilpin County/ metamorphic/ ore deposits/ Colorado/ sandstone/ Front Range/
- Staatz, M. H., 1964
ore deposits/ resources/ thorium/ Custer County/ Fremont County/ Gunnison County/ Igneous-metamorphic/
- Staatz, M. H., 1973
veins/ thorium/ Igneous-metamorphic/ Custer County/ Fremont County/ Gunnison County/
- Staatz, M. H., 1974
ore deposits/ veins/ mineralogy/ geochemistry/ minerals/ thorite/ monazite/ genesis/ controls/ ore controls/ structural controls/ thorium/ Igneous-metamorphic/ Wet Mountains/ Powderhorn district/ Gunnison County/ carbonatite/ alkaline complexes/ Custer County/ Fremont County/
- Staatz, M. H., 1975
thorium/ ore deposits/ Igneous-metamorphic/ Custer County/ Fremont County/ Gunnison County/ deposits/ Colorado/ Igneous-metamorphic/ sandstone/ Front Range/
- Staatz, M. H., 1976
thorium/ Igneous-metamorphic/ alkalic igneous rocks/ Fremont County/ Custer County/ Gunnison County/
- Staatz, M. H., 1976
thorium/ resources/ Igneous-metamorphic/ Custer County/ Fremont County/ Gunnison County/ Front Range/
- Staatz, M. H., and Conklin, N. M., 1966
thorium/ veins/ carbonate/ Road Gulch area/ Wet Mountains/ rare-earths/ Igneous-metamorphic/

FREMONT COUNTY

GARFIELD COUNTY

thorium/ geology/ mineralogy/ Fremont County/
Custer County/

Staatz, M. H., and Olson, J. C., 1973

thorium/ igneous-metamorphic/ resources/ Custer
County/ Fremont County/ Gunnison County/

Twenhofel, W. S., and Buck, K. L., 1956

thorium/ Powderhorn district/ Gunnison County/
veins/ Custer County/ Fremont County/ Colorado/
Idaho/ Wyoming/ Precambrian rocks/ Montana/
California/ geology/ New Mexico/ Wisconsin/
New York/ Michigan/ Wet Mountains/ ore deposits/
igneous-metamorphic/

Twenhofel, W. S., and Buck, K. L., 1956

geology/ thorium/ Powderhorn district/ Gunnison
County/ Wet Mountains/ Custer County/ Fremont
County/ veins/ Precambrian rocks/ Colorado/
Wyoming/ Idaho/ Montana/ California/ New Mexico/
Wisconsin/ New York/ Michigan/ ore deposits/
igneous-metamorphic/

U.S. Atomic Energy Commission, 1966

geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Fremont County/ reconnaissance/
ore deposits/ Front Range/ sandstone/

U.S. Geological Survey, 1955

Colorado Plateau/ Front Range/ sandstone/ geologic
mapping/ veins/ carbonaceous rocks/ geochemistry/
reconnaissance/ analyses/ igneous-metamorphic/
Mesa County/ Montrose County/ Dolores County/
San Miguel County/ Montezuma County/ Fremont
County/ Jefferson County/

U.S. Geological Survey, 1956

Colorado Plateau/ mapping/ geology/ geophysics/
mineralogy/ vanadium/ carbonaceous rocks/ petrology/
San Miguel County/ sandstone/ igneous-metamorphic/
Dolores County/ Montrose County/ Montezuma County/
Jefferson County/ Front Range/ Mesa County/
Fremont County/

U.S. Geological Survey, 1956

Colorado Plateau/ Front Range/ geology/ geophysics/
mineralogy/ research/ sandstone/ San Miguel
County/ igneous-metamorphic/ Dolores County/
Montrose County/ Mesa County/ Montezuma County/
Jefferson County/ Fremont County/

Van Alstine, R. E., 1968

structural geology/ Tertiary trough/ Arkansas
Valley/ San Luis Valley/ Rio Grande depression/
Fremont County/ Chaffee County/ Lake County/
Saguache County/

Vargas, F. H., 1961

Fremont County/ sediments/ geology/ sandstone/
limestone/ Cotopaxi Inlier/ Sangre de Cristo
Range/

GARFIELD COUNTY

Adler, H. H., 1963

genesis/ sandstone/ ore deposits/ Jefferson
County/ Pueblo County/ Gunnison County/ Moffat
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ Colorado Plateau/ Front Range/
Rio Blanco County/

Adler, H. H., 1964

uranium/ roll ore/ exploration/ sandstone/ ore
deposits/ Jefferson County/ Pueblo County/ Gunnison
County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
San Miguel County/ Montezuma County/ La Plata
County/ Archuleta County/ Moffat County/ Colorado
Plateau/ Front Range/ Dolores County/

Anonymous, 1950

Rifle plant/ milling/ Garfield County/ Colorado
Plateau/ ores/ sandstone/ vanadium/

Bain, G. W., 1957

Colorado Plateau/ ore deposits/ organic ores/
genesis/ Colorado/ general/ Mesa County/ Delta
County/ sandstone/ Montrose County/ San Miguel
County/ Dolores County/ Archuleta County/ Garfield
County/ La Plata County/

Bieniewski, C. L., Persse, F. H., and Brauch, E.
F., 1971

Colorado Plateau/ Rifle district/ Front Range/
Garfield County/ Clear Creek County/ Jefferson
County/ Boulder County/ resources/ price/ cost
analysis/ sandstone/ igneous-metamorphic/ Marshall
Pass/

Botinelly, Theodore, 1955

J. J. mine/ Jo Dandy group/ Bull Canyon district/
geology/ mineralogy/ Montrose County/ sandstone/
carnotite/ uranium/ vanadium/ ore deposits/
Rifle mine/ Garfield County/ Colorado Plateau/
Morrison Formation/ Salt Wash Member/

Botinelly, Theodore, and Fischer, R. P., 1955

Garfield County/ mineralogy/ petrology/ geochemistry/
Garfield mine/ Colorado Plateau/ galena/ Rifle
mine/ minerals/ clausthalite/ montrosite/ roscoelite/
sandstone/ geology/ uranium/ vanadium/ Entrada
Sandstone/ Wingate Sandstone/ ore deposits/
stratigraphy/ structure/ chromium/

Botinelly, Theodore, and Fischer, R. P., 1959

mineralogy/ geology/ Rifle mine/ Garfield mine/
sandstone/ uranium/ vanadium/ Entrada Sandstone/
Chinle Formation/ ore deposits/ stratigraphy/
structure/ chromium/ petrology/ geochemistry/
galena/ minerals/ Garfield County/ clausthalite/
montrosite/ roscoelite/

Botinelly, Theodore, and Weeks, A. D., 1954

mineralogy/ ore deposits/ minerals/ Colorado
Plateau/ sandstone/ Montrose County/ Jo Dandy
area/ Rifle mine/ Garfield County/ clay minerals/

- Boyer, W. H., 1956
ore deposits/ sandstone/ stratigraphy/ Colorado Plateau/ vanadium/ mineralization/ exploration/ White River Plateau/ Rio Blanco County/ conglomerate/ siltstone/ mudstone/ Garfield County/ reconnaissance/ geology/ Morrison Formation/ Chinle Formation/ Burrell mines/ Last Day mine/ Coal Creek mine/ Uranium Peak/ Coal Creek anticline/ Sleepy Cat area/
- Burwell, Blair, 1932
Rifle mine/ Garfield County/ McElmo Sandstone/ sandstone/ ore deposits/ mining methods/ mining costs/ uranium/ vanadium/ exploration/ geology/ history/ Entrada Sandstone/
- Busch, P. M., 1961
vanadium/ Colorado Plateau/ uranium/ Placerville district/ Garfield County/ San Miguel County/ Dolores County/ San Juan County/ sandstone/ Uravan district/ Rico district/ metallurgy/ Rifle district/
- Cadigan, R. A., 1955
Dolores County/ Garfield County/ Mesa County/ sandstone/ Montrose County/ Rio Blanco County/ San Miguel County/ Entrada Sandstone/ Morrison Formation/ stratigraphy/ Todilto Limestone/ Chinle Formation/ limestone/ host rocks/ conglomerate/ Colorado Plateau/ Triassic/ Jurassic/
- Cadigan, R. A., 1959
Colorado Plateau/ ore deposits/ sandstone/ host rock/ Garfield County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Morrison Formation/ Entrada Sandstone/
- Cadigan, R. A., 1971
petrology/ Moenkopi Formation/ Colorado Plateau/ mineralogy/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ stratigraphy/
- Cadigan, R. A., 1971
geochemical distribution/ Colorado Plateau/ red beds/ vanadium/ sandstone/ La Plata County/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Rio Blanco County/ geochemistry/ Garfield County/ Moenkopi Formation/
- Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/
- Cannon, H. L., 1960
Colorado Plateau/ ore deposits/ botanical prospecting/ exploration/ indicator plants/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/
- Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ geobotany/
- Carter, W. D., and Gualtieri, J. L., 1958
map/ tectonics/ Colorado/ Utah/ Moffat County/ Logan County/ geology/ Larimer County/ Jackson County/ Boulder County/ Jefferson County/ Clear Creek County/ Gilpin County/ Summit County/ Grand County/ Eagle County/ Routt County/ Garfield County/ Rio Blanco County/ sandstone/ ore deposits/ igneous-metamorphic/
- Cashion, W. B., 1973
geology/ structure/ map/ Grand Junction quadrangle/ Colorado/ Utah/ Colorado Plateau/ Mesa County/ sandstone/ Rio Blanco County/ Garfield County/
- Cater, F. W., Jr., Craig, L. C., and Phoenix, D. A., 1950
sandstone/ Morrison Formation/ Salt Wash Member/ geology/ Colorado Plateau/ ground water studies/ carnotite/ stratigraphy/ structure/ ore deposits/ Colorado/ New Mexico/ Utah/ Arizona/ San Miguel County/ Montrose County/ Mesa County/ Garfield County/ Rio Blanco County/
- Chenoweth, W. L., 1977
Garfield County/ sandstone/ Colorado Plateau/ San Miguel County/ Mesa County/ Dolores County/ Montezuma County/ Montrose County/
- Chew, R. T., 3d, 1955
Colorado Plateau/ Rifle mine/ Uravan district/ map/ Uranium Peak/ sandstone/ production/ uranium/ vanadium/ Morrison Formation/ La Plata County/ ore deposits/ Entrada Sandstone/ Rio Blanco County/ Mesa County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Gateway district/
- Chew, R. T., 3d, 1956
Rifle mine/ Uravan district/ Uranium Peak/ vanadium/ production/ Colorado Plateau/ uranium/ sandstone/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Entrada Sandstone/ ore deposits/ Garfield County/ Morrison Formation/
- Chew, R. T., 3d, and Fischer, R. P., 1954
ore deposits/ Rifle district/ Rio Blanco County/ Colorado/ Moffat County/ Maybell-Lay district/ Coal Creek area/ Skull Creek district/ Browns Park Formation/ Garfield County/ Meeker district/ Utah/ Entrada Sandstone/ sandstone/ Colorado Plateau/
- Craig, L. C., and Holmes, C. N., 1951
Morrison Formation/ Colorado Plateau/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Mesa County/ stratigraphy/ Glen Canyon group/ San Rafael group/

GARFIELD COUNTY

Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951

Colorado Plateau/ Morrison Formation/ Mesa County/ stratigraphy/ Glen Canyon group/ Montezuma County/ Delta County/ San Rafael group/ Dolores County/ Gunnison County/ Montrose County/ sandstone/ Moffat County/ Ouray County/ San Juan County/ San Miguel County/ La Plata County/ Rio Blanco County/ Garfield County/ Archuleta County/

Doyle, J. W., 1975

Garfield County/ Garfield mine/ Rifle mine/ sandstone/ uranium/ vanadium/ Colorado Plateau/ Entrada Sandstone/

Duncan, D. C., compiler, 1953

ore deposits/ black shale/ Weber Formation/ exploration/ shale/ reconnaissance/ Belden Formation/ Paradox Member/ Eagle County/ Garfield County/ Gunnison County/ Hermosa Formation/ San Juan County/ La Plata County/ Lake County/ Pony Express Limestone Member/ Ouray County/ Dakota Sandstone/ Archuleta County/ Pierre Shale/ Las Animas County/ Huerfano County/ Vermejo Formation/ Limestone/ sandstone/ Front Range/ Colorado Plateau/

Ebbley, Norman, 1950

Colorado Plateau/ mines/ uranium/ Colorado/ Utah/ vanadium/ production problems/ Uravan district/ Gateway district/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Garfield County/ Rifle mine/ Morrison Formation/ Entrada Sandstone/ Dolores County/

Finch, W. I., 1955

Colorado Plateau/ ore deposits/ uranium/ sandstone/ copper/ conglomerate/ ore-bearing formation/ limestone/ vanadium/ Rio Blanco County/ Garfield County/ Mesa County/ geology/ Delta County/ San Miguel County/ Dolores County/ Rifle mine/ Montezuma County/ La Plata County/ Greysill mine/ Placerville district/ Uravan district/ Gateway district/ map/ geology/

Finch, W. I., 1956

Colorado Plateau/ ore deposits/ La Plata County/ production/ Triassic/ Chinle Formation/ shale/ sandstone/ conglomerate/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Garfield County/ Rio Blanco County/ geology/

Finch, W. I., 1959

Colorado Plateau/ ore deposits/ production/ Triassic/ Chinle Formation/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ sandstone/ conglomerate/ shale/ Garfield County/ Rio Blanco County/ geology/

Finch, W. I., 1967

Colorado Plateau/ Front Range/ Igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/

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Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Fischer, R. P., 1942

vanadium/ production/ sandstone/ Morrison Formation/ Entrada Shinarump Member/ conglomerate/ ore deposits/ Dolores County/ San Miguel County/ Montrose County/ Colorado/ Utah/ Garfield County/ Colorado Plateau/ Entrada Sandstone/ Mesa County/

Fischer, R. P., 1943

Colorado/ Utah/ vanadium/ ore deposits/ uranium/ radium/ Morrison Formation/ Entrada Sandstone/ Shinarump Member/ sandstone/ conglomerate/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Dolores County/ Colorado Plateau/

Fischer, R. P., 1944

vanadium/ Colorado/ Utah/ Colorado Plateau/ uranium/ Entrada Sandstone/ sandstone/ Garfield County/ San Miguel County/

Fischer, R. P., 1947

Colorado Plateau/ exploration/ drilling/ sandstone/ carnotite/ recommendations/ Garfield County/ San Miguel County/ Montrose County/ Mesa County/

Fischer, R. P., 1947

sandstone/ Colorado Plateau/ vanadium/ genesis/ ore deposits/ Garfield County/ San Miguel County/

Fischer, R. P., 1948

Morrison Formation/ Entrada Sandstone/ Placerville district/ Colorado Plateau/ production potential/ uranium/ vanadium/ ore deposits/ Colorado/ Utah/ New Mexico/ Arizona/ sandstone/ Uravan district/ Rifle district/ Garfield County/ Dolores County/ San Miguel County/ Montrose County/ Slick Rock district/

Fischer, R. P., 1950

Colorado Plateau/ ore deposits/ sandstone/ uranium/ Morrison Formation/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ ore guides/ Garfield County/ San Miguel County/

Fischer, R. P., 1950

Morrison Formation/ Colorado Plateau/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/ Garfield County/ Rio Blanco County/ sandstone/ ore rolls/ carnotite/ geology/ ore deposits/ mineralogy/ alteration/ Club mine/ uranium/ radium/ vanadium/ Entrada Sandstone/ genesis/

Fischer, R. P., 1955

Colorado Plateau/ hot springs/ uranium/ vanadium/ geochemistry/ igneous-metamorphic/ sedimentary rocks/ veins/ sandstone/ ore deposits/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/

- Fischer, R. P., 1955
vanadium/ uranium/ geochemistry/ Colorado Plateau/
Igneous-metamorphic/ sedimentary rocks/ veins/
sandstone/ ore deposits/ San Miguel County/
Mesa County/ Montrose County/ Dolores County/
Garfield County/ hot springs/
- Fischer, R. P., 1955
veins/ igneous-metamorphic/ sedimentary rocks/
sandstone/ vanadium/ uranium/ ore deposits/
Colorado Plateau/ geochemistry/ San Miguel County/
Mesa County/ Montrose County/ Dolores County/
Garfield County/ hot springs/
- Fischer, R. P., 1955
Durango district/ Placerville district/ Rico
district/ uranium/ vanadium/ chromium/ Delta
County/ Garfield County/ La Plata County/ Ouray
County/ Rio Blanco County/ San Juan County/
San Miguel County/ minerals/ marlposite/ sandstone/
Entrada Sandstone/ regional relations/ ore deposits/
Colorado Plateau/ Mesa County/ Moffat County/
Montezuma County/ Montrose County/ Rifle area/
Dolores County/
- Fischer, R. P., 1956
ore deposits/ Colorado Plateau/ uranium/ vanadium/
localization/ Entrada Sandstone/ sandstone/
Rifle district/ Garfield County/ genesis/ San
Miguel County/ La Plata County/ Placerville
district/ Rico district/ Dolores County/
- Fischer, R. P., 1956
vanadium/ uranium/ ore deposits/ Colorado Plateau/
sandstone/ Garfield County/ San Miguel County/
La Plata County/ Rifle district/ Placerville
district/ Rico district/ Durango district/ genesis/
localization/ Dolores County/ Entrada Sandstone/
- Fischer, R. P., 1957
ore deposits/ Colorado Plateau/ uranium/ vanadium/
localization/ genesis/ Rifle Creek area/ Garfield
County/ Entrada Sandstone/ sandstone/ geology/
stratigraphy/ mineralogy/
- Fischer, R. P., 1960
vanadium/ uranium/ mineralogy/ Rifle mine/ Rifle
Creek area/ Garfield County/ ore deposits/ Entrada
Sandstone/ Morrison Formation/ sandstone/ Colorado
Plateau/
- Fischer, R. P., 1962
Colorado/ vanadium/ sandstone/ Entrada Sandstone/
Garfield County/ United States/ Colorado Plateau/
- Fischer, R. P., 1968
geology/ structure/ genesis/ sandstone/ San
Miguel County/ Montrose County/ Mesa County/
Dolores County/ Chinle Formation/ Morrison Formation/
Montezuma County/ La Plata County/ San Juan
County/ Garfield County/ Rio Blanco County/
Moffat County/ Entrada Sandstone/ production/
stratigraphy/ Colorado Plateau/ ore deposits/
- Fischer, R. P., and Stewart, J. H., 1960
bed distribution/ lithology/ sandstone/ uranium/
vanadium/ copper/ Colorado/ Morrison Formation/
Colorado Plateau/ ore deposits/ San Miguel County/
Garfield County/ Entrada Sandstone/
- Fischer, R. P., and Stewart, J. H., 1961
copper/ vanadium/ uranium/ ore deposits/ sandstone/
Colorado Plateau/ Entrada Sandstone/ geochemistry/
San Miguel County/ Garfield County/
- Fischer, R. P., Hilpert, L. S., Schumacher, J.
I., and others, 1951
Investigations/ carnotite/ ore deposits/ sandstone/
Colorado Plateau/ Morrison Formation/ Chinle
Formation/ Entrada Sandstone/ San Miguel County/
Mesa County/ Dolores County/ Garfield County/
- Fischer, R. P., Stokes, W. L., and Smith, L. E., 1944
Rifle mine/ Garfield mine/ uranium/ vanadium/
Garfield County/ Entrada Sandstone/ sandstone/
geology/ Rifle Creek area/ Colorado Plateau/
ore deposits/
- Fischer, R. P., Stokes, W. L., and Smith, L. E., 1945
Garfield County/ vanadium/ Entrada Sandstone/
sandstone/ uranium/ geology/ Rifle Creek area/
Rifle mine/ Garfield mine/ Colorado Plateau/
ore deposits/
- Fleck, Herman, and Haldane, W. G., 1907
uranium/ vanadium/ Colorado Plateau/ San Miguel
County/ Garfield County/ sandstone/ ore deposits/
- Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/
geochemistry/ clay mineralogy/ uranium/ vanadium/
sandstone/ Moffat County/ Rio Blanco County/
Garfield County/ Mesa County/ Delta County/
San Miguel County/ Montrose County/ Dolores
County/ Montezuma County/ La Plata County/ Archuleta
County/
- Garrels, R. M., and Pommer, A. M., 1956
Colorado Plateau/ oxidation/ reduction/ ore
deposits/ organics/ uraninite/ pyrite/ sandstone/
geochemistry/ San Miguel County/ Garfield County/
Montrose County/ Mesa County/
- Garrels, R. M., and Pommer, A. M., 1959
oxidation/ reduction/ ores/ minerals/ geochemistry/
ore deposits/ mineralogy/ Colorado Plateau/
sandstone/ San Miguel County/ Mesa County/ Montrose
County/ Garfield County/
- Garrels, R. M., and Richter, D. H., 1955
thermodynamics/ uranium oxides/ oxidation states/
Colorado Plateau/ ore deposits/ San Miguel County/
genesis/ sandstone/ Montrose County/ Garfield
County/ Mesa County/
- George, R. D., 1917
minerals/ rocks/ Colorado/ occurrences/ uses/
Colorado Plateau/ sandstone/ igneous-metamorphic/
uranium/ vanadium/ radium/ carnotite/ pitchblende/
Jefferson County/ Gilpin County/ Front Range/
Montrose County/ San Miguel County/ Dolores
County/ Garfield County/ Rio Blanco County/
Routt County/ Boulder County/
- George, R. D., Curtis, H. A., Lester, O. C., and
others, 1920
Colorado Plateau/ mineralized waters/ springs/
spring deposits/ Front Range/ Jefferson County/

- Pitkin County/ Pueblo County/ Garfield County/ Park County/ El Paso County/ Ouray County/ Boulder County/ Gunnison County/ Delta County/ Chaffee County/
- Gulliotte, G. B., 1944
minerals/ hydrocarbons/ Uinta basin/ Colorado/ Utah/ Garfield County/ Rio Blanco County/ uranium/ Colorado Plateau/ reconnaissance/ ore deposits/ sandstone/ Mesa County/ gilsonite/ shale/ Green River Formation/ oil shale/ native asphalts/
- Hendricks, T. A., 1948
Green River Formation/ shale/ oil shale/ radioactivity/ Garfield County/ analyses/ reconnaissance/ Colorado Plateau/
- Hess, F. L., 1914
genesis/ carnotite/ Colorado/ uranium/ vanadium/ Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/
- Hess, F. L., 1925
carnotite/ vanoxite/ vanadium/ mineralogy/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Colorado Plateau/ ore deposits/ Delta County/
- Hunt, C. B., 1956
Cenozoic/ geology/ Colorado Plateau/ physiography/ stratigraphy/ Moffat County/ sandstone/ Delta County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Isachsen, Y. W., 1955
Skull Creek district/ Uranium Peak district/ ore deposits/ Garfield County/ sandstone/ Rio Blanco County/ Moffat County/ guidebook/ Colorado Plateau/
- Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1955
Colorado Plateau/ ore deposits/ absolute age/ host rocks/ sandstone/ formational environments/ Entrada Sandstone/ Kayenta Formation/ Garfield County/ Moffat County/ Rio Blanco County/ San Miguel County/ Mesa County/ Montrose County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Jensen, M. L., 1958
Colorado Plateau/ Wyoming/ ore deposits/ genesis/ geochemistry/ sulfur isotopes/ sandstone/ uranium/ Montrose County/ San Miguel County/ Garfield County/ Morrison Formation/ Entrada Sandstone/
- Jensen, M. L., 1971
carbon/ oxygen/ sulfur/ isotopes/ genesis/ sandstone/ uranium/ ore deposits/ Colorado Plateau/ Wyoming/
- San Miguel County/ Montrose County/ Garfield County/ Mesa County/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ regional transmissivity/ Delta County/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Montrose County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/
- Jobin, D. A., 1962
Colorado Plateau/ ore deposits/ Morrison Formation/ transmissivity/ sandstone/ San Miguel County/ ground water/ conglomerate/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ Igneous-metamorphic/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ Igneous-metamorphic/
- Keller, W. D., 1962
clay minerals/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ mineralogy/ Mesa County/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/
- Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/

- Delta County/ Ouray County/ Gunnison County/
Garfield County/ Rio Blanco County/ Moffat County/
- Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/
tectonics/ structural elements/ Mesa County/
San Miguel County/ Dolores County/ Montezuma
County/ La Plata County/ Delta County/ Garfield
County/ Rio Blanco County/ Moffat County/ Archuleta
County/ Ouray County/ Gunnison County/ Montrose
County/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Delta
County/ uranium/ tectonic history/ regional
structure/ Colorado/ sandstone/ Montezuma County/
San Miguel County/ Dolores County/ Montrose
County/ Mesa County/ Ouray County/ San Juan
County/ Gunnison County/ La Plata County/ Garfield
County/ Rio Blanco County/ Delta County/ structural
controls/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa
County/ structural controls/ uranium/ tectonic
history/ Colorado/ sandstone/ Montezuma County/
San Miguel County/ Dolores County/ Montrose
County/ Moffat County/ San Juan County/ Ouray
County/ Gunnison County/ La Plata County/ Garfield
County/ Rio Blanco County/ Delta County/ regional
structure/
- Kelley, V. C., 1959
structures/ fracture systems/ Colorado Plateau/
faults/ fractures/ Mesa County/ Montrose County/
San Miguel County/ sandstone/ Montezuma County/
Moffat County/ San Juan County/ Ouray County/
Delta County/ Gunnison County/ Garfield County/
La Plata County/ Rio Blanco County/
- Kelley, V. C., 1959
jointing/ Colorado Plateau/ sandstone/ structures/
Montezuma County/ Dolores County/ Montrose County/
Mesa County/ Delta County/ Garfield County/
Rio Blanco County/ Moffat County/ San Miguel
County/
- Kelley, V. C., and Clinton, N. J., 1960
Colorado Plateau/ sandstone/ fractures/ tectonics/
genesis/ structures/ Montezuma County/ Dolores
County/ Montrose County/ Mesa County/ Delta
County/ Garfield County/ Rio Blanco County/
Moffat County/ San Miguel County/
- Kerr, P. F., 1958
uranium/ ore deposits/ genesis/ alteration/
mineralogy/ Colorado Plateau/ Archuleta County/
conglomerate/ sandstone/ Moffat County/ Rio
Blanco County/ Garfield County/ Mesa County/
Delta County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
- Kerr, P. F., 1958
Colorado Plateau/ ore deposits/ genesis/ sandstone/
stratigraphy/ uranium/ Moffat County/ Rio Blanco
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Montezuma County/ La Plata County/ Archuleta
County/ hydrothermal emplacement/ Dolores County/
- King, R. U., Leonard, B. F., Moore, F. B., and
others, 1952
Front Range/ Boulder County/ Clear Creek County/
Garfield County/ Gilpin County/ Jefferson County/
Larimer County/ Moffat County/ Pitkin County/
pitchblende/ hydrocarbons/ Kiowa County/ Rio
Blanco County/ Routt County/ hot spring deposits/
limestone/ pegmatites/ sandstone/ veins/ breccia
pipes/ igneous-metamorphic/ Park County/ Lake
County/ geology/ mineralogy/ San Miguel County/
ore deposits/ metal-mining districts/ Huerfano
County/ Eagle County/
- King, R. U., Leonard, B. F., Moore, F. B., and
others, 1953
Front Range/ Boulder County/ Clear Creek County/
Garfield County/ Gilpin County/ Jefferson County/
Larimer County/ Moffat County/ Pitkin County/
pitchblende/ hydrocarbons/ hot spring deposits/
limestone/ sandstone/ veins/ breccia pipes/
igneous-metamorphic/ Park County/ Lake County/
geology/ mineralogy/ San Miguel County/ ore
deposits/ metal-mining districts/ Kiowa County/
Rio Blanco County/ Routt County/ Huerfano County/
Eagle County/
- King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/ Boulder County/ Clear Creek County/
Garfield County/ Gilpin County/ Jefferson County/
Kiowa County/ Larimer County/ Moffat County/
Pitkin County/ Rio Blanco County/ Routt County/
ore guides/ pitchblende/ hydrocarbons/ metal-mining
districts/ ore deposits/ limestone/ sandstone/
veins/ breccia pipes/ Eagle County/ hot spring
deposits/ fluorite/ igneous-metamorphic/
- Kirkemo, Harold, 1954
ore deposits/ Morrison Formation/ Salt Wash
Member/ Colorado Plateau/ exploration/ sandstone/
Monogram Mesa/ Uravan district/ Jo Dandy area/
Mesa County/ Montrose County/ San Miguel County/
Garfield County/ Entrada Sandstone/ Moffat County/
Browns Park Formation/ Slick Rock district/
Long Park district/
- Kunkle, G., 1923
vanadium/ sandstone/ Garfield County/ Entrada
Sandstone/ Colorado Plateau/ ore deposits/ Rifle
district/
- La Point, D. J., and Markos, G., 1977
geochemistry/ ore deposits/ zonation/ Rifle
mine/ vanadium/ Garfield County/ sandstone/
Colorado Plateau/ geology/ Entrada Sandstone/
- McDougald, W. D., 1954
stratigraphy/ radioactivity/ radiation detectors/
geology/ radiation monitoring/ Paleocene/ Ohio
conglomerate/ Eocene/ DeBeque area/ Mesa County/
Garfield County/ Colorado Plateau/ sandstone/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Front Range/ exploration/
Morrison Formation/ phosphates/ shale/ sandstone/
igneous-metamorphic/ Mesa County/ Montrose County/
San Miguel County/ Montezuma County/ Dolores
County/ Gilpin County/ Clear Creek County/ Garfield
County/ Boulder County/

- Metal Mining Fund Board, 1961
vanadium/ mineralogy/ geochemistry/ Colorado Plateau/ sandstone/ uranium/ Rifle Creek district/ roscoelite/ San Miguel County/ Montrose County/ Mesa County/ Garfield County/ Placerville district/
- Miesch, A. T., 1963
Colorado Plateau/ ore deposits/ elements/ geology/ Morrison Formation/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/ Dolores County/
- Minerals Map Company, 1956
Colorado Plateau/ ore deposits/ maps/ sandstone/ Montrose County/ Dolores County/ Mesa County/ Delta County/ Garfield County/ Moffat County/ San Miguel County/
- Morgan, J. M., Jr., 1959
environment/ stream study/ uranium/ Colorado River/ Gunnison River/ Colorado Plateau/ liquid wastes/ surface water/ stream sediments/ Mesa County/ Garfield County/
- Morgan, J. M., Jr., 1959
environment/ stream study/ uranium/ Colorado River/ Gunnison River/ Colorado Plateau/ liquid wastes/ surface water/ stream sediments/ Mesa County/ Garfield County/
- Mull, C. G., 1960
geology/ Grand Hogback monocline/ Garfield County/ sandstone/ Entrada Sandstone/ vanadium/ Rifle district/ Colorado Plateau/
- Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/
- Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/
- Murray, D. K., and Haun, J. D., 1974
age estimation/ geology/ geomorphology/ mineral resources/ natural gas/ petroleum/ Piceance Creek basin/ sediments/ stratigraphy/ uranium/ Utah/ Rio Blanco County/ Garfield County/ Mesa County/ Moffat County/ Colorado Plateau/ sandstone/
- Narten, P. F., Crawford, J. E., and Butler, A. P., Jr., 1951
Clear Creek County/ Garfield County/ Jefferson County/ Montrose County/ Rio Blanco County/ Dakota Sandstone/ Mesa County/ Fountain Formation/ Green River Formation/ Laramie Formation/ Hermosa Formation/ Paradox Member/ shales/ sandstone/ Front Range/ Colorado Plateau/
- Newman, W. L., 1962
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ sandstone/ mudstone/ limestone/ Uruvan district/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/
- Notestein, F. B., 1918
ore deposits/ geochemistry/ genesis/ experimental studies/ uranium/ vanadium/ Colorado Plateau/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/
- Osterwald, F. W., and Dean, B. G., 1956
bibliography/ structural geology/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/ ore deposits/ tectonics/
- Osterwald, F. W., and Dean, B. G., 1958
ore deposits/ tectonics/ structural geology/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/
- Palst, D. A., 1970
vanadium/ alloys/ compounds/ San Miguel County/ metallurgy/ history/ ore deposits/ geology/ sandstone/ Colorado Plateau/ Montrose County/ Mesa County/ Garfield County/ Uruvan district/ Placerville district/ Rifle district/ carnotite/ roscoelite/
- Schultz, L. G., 1963
clay minerals/ Moenkopi Formation/ Chinle Formation/ x-ray diffraction/ Ouray County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Colorado Plateau/ sandstone/ La Plata County/
- Scott, R. C., and Barker, F. B., 1962
data/ uranium/ radium/ ground water/ analyses/ Logan County/ Phillips County/ Prowers County/ Yuma County/ Jefferson County/ Garfield County/ Kit Carson County/ Pitkin County/ Mesa County/ Huerfano County/ Baca County/ Montezuma County/ Front Range/ Colorado Plateau/
- Shaw, D. R., 1956
Garfield County/ sandstone/ roll fronts/ Rifle

- mine/ Colorado Plateau/ genesis/ uranium/ vanadium/
ore deposits/ geology/
- Shawe, D. R., 1966
uranium/ vanadium/ roll fronts/ tabular ore/
ore deposits/ zoning/ elements/ Colorado Plateau/
Garfield County/ Montrose County/ sandstone/
- Shawe, D. R., and Granger, H. C., 1965
uranium ore/ rolls/ Rifle district/ Uravan district/
Colorado Plateau/ sandstone/ Entrada Sandstone/
Garfield County/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Morrison
Formation/
- Shoemaker, E. M., 1956
structural features/ Colorado Plateau/ ore deposits/
veins/ Moffat County/ Rio Blanco County/ La
Plata County/ uranium/ Garfield County/ Mesa
County/ Delta County/ Montrose County/ San Miguel
County/ San Juan County/ Ouray County/ sandstone/
Montezuma County/ Dolores County/ Archuleta
County/
- Shoemaker, E. M., and Luedke, R. G., 1952
Colorado Plateau/ map/ uranium/ ore deposits/
sandstone/ Moffat County/ Rio Blanco County/
Mesa County/ Delta County/ Montrose County/
San Miguel County/ Dolores County/ Ouray County/
Montezuma County/ La Plata County/ Garfield
County/
- Smith, C. T., 1946
geology/ uranium/ ore deposits/ White River
uplift/ vanadium/ geography/ exploration/ mining/
maps/ tables/ Rifle mine/ Grand Hogback district/
Garfield County/ Entrada Sandstone/ sandstone/
Colorado Plateau/
- Spirakis, C. S., 1976
semipermeable membranes/ ore deposits/ genesis/
vanadium/ uranium/ sandstone/ Rifle mine/ Garfield
mine/ Garfield County/ geochemistry/ Colorado
Plateau/ Entrada Sandstone/
- Spirakis, C. S., 1977
Rifle mine/ Garfield mine/ ore deposits/ uranium/
vanadium/ sandstone/ Garfield County/ genesis/
Colorado Plateau/ semipermeable membranes/ Entrada
Sandstone/
- Spirakis, C. S., 1977
Garfield County/ uranium/ vanadium/ ore deposits/
Entrada Sandstone/ sandstone/ geochemistry/
Rifle mine/ Garfield mine/ ore genesis/ Colorado
Plateau/ semipermeable membranes/
- Stieff, L. R., 1948
Colorado Plateau/ mineralogy/ carnotite/ ore
deposits/ Garfield County/ Montrose County/
sandstone/
- Stokes, W. L., 1944
Morrison Formation/ Colorado Plateau/ sandstone/
stratigraphy/ correlation/ Garfield County/
Mesa County/ Delta County/ Gunnison County/
Montrose County/ Ouray County/ Dolores County/
Hinsdale County/ Archuleta County/ Montezuma
County/ La Plata County/ ore deposits/ San Juan
County/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Garfield County/ reconnaissance/
ore deposits/ sandstone/ Colorado Plateau/ Entrada
Sandstone/
- U.S. Department of Energy, 1977
engineering assessment/ inactive uranium mill
tailings/ Rifle site/ Garfield County/ Rifle
district/ sandstone/ Colorado Plateau/
- U.S. Geological Survey, 1948
Green River Formation/ oil shale/ radioactivity/
Garfield County/ Colorado Plateau/
- U.S. Geological Survey, 1954
Clear Creek County/ Gilpin County/ ore deposits/
reserves/ Colorado Plateau/ exploration/ sandstone/
Mesa County/ Montrose County/ San Miguel County/
Garfield County/ Moffat County/ Dolores County/
Rio Blanco County/ Front Range/ igneous-metamorphic/
Jefferson County/ pitchblende/ hydrogeochemical
exploration/ stream sediments/ ground water/
mine waters/
- Vine, J. D., and Flege, R. F., Jr., 1953
ore deposits/ exploration/ carbonaceous rocks/
Colorado/ Utah/ Idaho/ Wyoming/ coal/ Moffat
County/ Garfield County/ Eagle County/ Mesa
County/ Colorado Plateau/ sandstone/ coal/ shale/
Jackson County/ Montrose County/
- Webber, B. N., 1944
uranium/ ore deposits/ maps/ geology/ Colorado
Plateau/ mineralization/ Grand Hogback district/
White River uplift/ Rio Blanco County/ Garfield
County/ sandstone/
- Weeks, A. D., and Thompson, M. E., 1953
mineralogy/ ore deposits/ Colorado Plateau/
uranium/ vanadium/ copper/ Placerville district/
Rifle district/ Garfield County/ San Miguel
County/ sandstone/
- Weeks, A. D., Coleman, R. G., and Thompson, M.
E., 1956
Colorado Plateau/ asphaltic rocks/ Atkinson
Mesa/ Club Mesa/ Flat Top Mesa/ Jo Dandy area/
Paradox district/ Placerville district/ Rifle
district/ Slick Rock district/ Uravan/ Montrose
County/ San Miguel County/ mineralogy/ petrology/
geochemistry/ vanadium/ ore deposits/ Garfield
mine/ roscoelite/ chemical analyses/ sandstone/
Garfield County/
- Weeks, A. D., Coleman, R. G., and Thompson, M.
E., 1959
Colorado Plateau/ ore deposits/ mineralogy/
oxidation/ vanadium/ sandstone/ uranium/ Moffat
County/ Dolores County/ Garfield County/ Rio
Blanco County/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Montezuma County/
La Plata County/ Archuleta County/

GARFIELD COUNTY

Weeks, A. D., Thompson, M. E., and Thompson, R. B., Jr., 1954

Colorado Plateau/ minerals/ mineral associations/ ore classification/ uranium/ Placerville district/ San Miguel County/ sandstone/ ore deposits/ Rifle district/ Garfield County/ Entrada Sandstone/ Morrison Formation/

Wood, H. B., and Grundy, W. D., 1956

exploration guides/ exploration techniques/ Shinarump Formation/ channels/ Colorado Plateau/ uranium/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/

Wright, R. J., 1955

Colorado Plateau/ ore deposits/ ore controls/ lithology/ sandstone/ genesis/ Moffat County/ Dolores County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/ Archuleta County/

GILPIN COUNTY

Alsdorf, P. R., 1916

Gilpin County/ ore deposits/ pitchblende/ occurrence/ properties/ areal geology/ economics/ veins/ uranium/ igneous-metamorphic/ Clear Creek County/ gneiss/ schist/ pegmatite/ Front Range/

Anonymous, 1873

Gilpin County/ ore deposits/ pitchblende/ evaluation/ igneous-metamorphic/ Front Range/

Anonymous, 1913

carnotite/ pitchblende/ radium/ Gilpin County/ Quartz Hill/ Meeker/ Skull Creek/ Utah/ Colorado/ Moffat County/ Paradox Valley/ Colorado Plateau/ uranium/ sandstone/ igneous-metamorphic/ Rio Blanco County/ Front Range/ San Miguel County/

Anonymous, 1914

pitchblende/ Kirk mine/ Gilpin County/ carnotite/ igneous-metamorphic/ Chihuahua/ Mexico/ molybdenum/ tungsten/ Front Range/ uranium/ ore deposits/

Armstrong, F. C., 1952

pitchblende/ ore deposits/ Quartz Hill/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ uranium/ ore grade/ veins/ Front Range/ Central City district/

Armstrong, F. C., 1952

pitchblende/ ore deposits/ Quartz Hill/ Central City district/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ gneiss/ schist/ pegmatite/ Front Range/

Armstrong, F. C., 1953

pitchblende/ Quartz Hill/ Central City district/ Gilpin County/ igneous-metamorphic/ uranium/ Front Range/ production/ geology/ ore deposits/ gneiss/ schist/ pegmatite/ veins/

GILPIN COUNTY

Banks, P. U., and Silver, L. T., 1964

Front Range/ ore deposits/ isotopes/ age determination/ uranium/ igneous-metamorphic/ Gilpin County/ Larimer County/ pitchblende/ bostonite/ Central City district/

Bastin, E. S., 1915

ore deposits/ pitchblende/ veins/ geology/ uranium/ Gilpin County/ Quartz Hill/ Wood mine/ Front Range/ igneous-metamorphic/

Bastin, E. S., 1916

Gilpin County/ ore deposits/ pitchblende/ uraninite/ resources/ structure/ abundance/ veins/ economic geology/ igneous-metamorphic/ uranium/ Front Range/

Bastin, E. S., and Hill, J. M., 1915

Gilpin County/ igneous-metamorphic/ Boulder County/ Quartz Hill/ gold/ silver/ uranium/ copper/ tungsten/ Front Range/ ore deposits/ Clear Creek County/

Bastin, E. S., and Hill, J. M., 1915

economic geology/ Gilpin County/ Central City district/ Hill/ uraninite/ pitchblende/ bostonite porphyry/ igneous-metamorphic/ Front Range/

Becke, F., 1909

Gilpin County/ Bald Mountain/ ore deposits/ pitchblende/ mineral assemblages/ Kirk mine/ igneous-metamorphic/ Front Range/

Bertrand, Didier, 1950

biogeochemistry/ vanadium/ rocks/ sediments/ water/ soil/ coal/ Jamestown district/ Front Range/ Gilpin County/ igneous-metamorphic/ plants/ animals/ oil/ asphalt/ Clear Creek County/

Boos, C. M., and Boos, M. F., 1957

tectonics/ Front Range/ igneous-metamorphic/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ geology/ Clear Creek County/ Park County/ Douglas County/ Teller County/ El Paso County/ Fremont County/ Pueblo County/ granite/ schist/ gneiss/ pegmatite/

Braddock, W. A., 1969

geology/ ore deposits/ Empire quadrangle/ Grand County/ Gilpin County/ Clear Creek County/ Front Range/ igneous-metamorphic/

Brinkworth, G. L., 1974

geophysical investigations/ Front Range/ mineral belt/ igneous-metamorphic/ Jefferson County/ Boulder County/ Clear Creek County/ Gilpin County/ geophysics/

Butler, A. P., Jr., 1952

Front Range/ thorium/ Colorado Plateau/ Morrison Formation/ igneous-metamorphic/ Chinle Formation/ Shinarump Member/ geology/ ore deposits/ pegmatites/ veins/ sandstone/ placers/ carnotite/ fresh waters/ gases/ Gilpin County/ Clear Creek County/ Custer County/ Lake County/ San Miguel County/ Gunnison County/

- Butler, A. P., Jr., Killeen, P. L., Page, G. B., and Rubey, W. W., 1947
ore deposits/ resources/ reconnaissance/ Front Range/ reserves/ Colorado Plateau/ carnotite/ uranium/ vanadium/ igneous-metamorphic/ uraninite/ Iron Hill/ Gunnison County/ Gilpin County/ Clear Creek County/ radioactive springs/ thorium/ mineralogy/ San Miguel County/ Montrose County/ Mesa County/ sandstone/ genesis/
- Campbell, R. H., and Schafer, M., 1953
Gilpin County/ mineralogy/ petrology/ geochemistry/ zoning/ Front Range/ uraninite/ Elliott mine/ reconnaissance/ radioactive materials/ igneous-metamorphic/
- Carter, W. D., and Gualtieri, J. L., 1958
map/ tectonics/ Colorado/ Utah/ Moffat County/ Logan County/ geology/ Larimer County/ Jackson County/ Boulder County/ Jefferson County/ Clear Creek County/ Gilpin County/ Summit County/ Grand County/ Eagle County/ Routt County/ Garfield County/ Rio Blanco County/ sandstone/ ore deposits/ igneous-metamorphic/
- Collins, G. E., 1909
ore deposits/ milling/ vanadium/ uranium/ veins/ Gilpin County/ Belcher mine/ Quartz Hill district/ Wood vein/ Kirk vein/ German vein/ pitchblende/ Front Range/ igneous-metamorphic/
- Collins, G. E., 1914
carnotite/ sandstone/ San Miguel County/ Montrose County/ pitchblende/ igneous-metamorphic/ Gilpin County/ mining/ Colorado Plateau/ Front Range/
- Curran, T. F., 1913
Colorado Plateau/ ore deposits/ carnotite/ history/ Gilpin County/ Wood mine/ Montrose County/ sandstone/ pitchblende/ San Miguel County/ Mesa County/ Dolores County/ Routt County/ Paradox Valley/ Rio Blanco County/ Utah/ Australia/ Front Range/ igneous-metamorphic/
- Curran, T. F., 1913
ore deposits/ carnotite/ San Miguel County/ history/ Gilpin County/ Wood mine/ Montrose County/ Colorado Plateau/ sandstone/ pitchblende/ Mesa County/ Dolores County/ Routt County/ Rio Blanco County/ Paradox Valley/ Utah/ Australia/ Front Range/ igneous-metamorphic/
- Derzay, R. C., 1953
Cherokee mine/ ore deposits/ Queen Mineral Ranch/ Gilpin County/ veins/ igneous-metamorphic/ pitchblende/ Precambrian rocks/ quartz-biotite schist/ schistose gneiss/ pegmatite/ drilling/ Front Range/
- Drake, A. A., Jr., 1955
ore deposits/ Wood mine/ Central City district/ pitchblende/ Gilpin County/ uranium/ veins/ igneous-metamorphic/ Clear Creek County/ Front Range/
- Drake, A. A., Jr., 1955
Front Range/ igneous-metamorphic/ Central City district/ Gilpin County/ geology/ mineralogy/ petrology/ geochemistry/ pitchblende/ ore deposits/ Calhoun mines/ Wood mine/ production/ veins/ Precambrian rocks/ Quartz Mill vein/ Wood vein/ Willowdale vein/ paragenesis/ alteration/ bostonite porphyry/ Clear Creek County/
- Drake, A. A., Jr., 1957
veins/ Precambrian rock/ bostonite porphyry/ pitchblende/ production/ Central City district/ Gilpin County/ structure/ geology/ Wood-East Calhoun area/ igneous-metamorphic/ East Calhoun mine/ Clear Creek County/ mineralogy/ Front Range/ Wood mine/
- Everhart, D. L., and Wright, R. J., 1953
veins/ pitchblende/ geologic features/ sulfides/ Precambrian rocks/ Canadian shield/ Paleozoic/ Tertiary/ paragenesis/ alteration/ sandstone/ Africa/ Idaho/ Front Range/ Gilpin County/ Clear Creek County/ Boulder County/ Utah/ Colorado Plateau/ igneous-metamorphic/
- Fix, P. F., 1956
hydrogeochemistry/ surface water/ ground water/ uranium/ exploration/ Front Range/ Colorado Plateau/ Central City/ Gilpin County/ Clear Creek County/
- Fleck, Herman, 1908
pitchblende/ Gilpin County/ igneous-metamorphic/ uranium/ vanadium/ ore deposits/ Placerville district/ sandstone/ San Miguel County/ Front Range/ rare metals/ Entrada Sandstone/
- Fleck, Herman, 1908
rare elements/ vanadium/ uranium/ importance/ Gilpin County/ Front Range/ igneous-metamorphic/ Placerville district/ sandstone/ San Miguel County/ ore deposits/ Colorado Plateau/
- Fleck, Herman, 1909
Gilpin County/ ore deposits/ pitchblende/ production/ vanadium/ Placerville district/ San Miguel County/ rare metals/ uranium/ Entrada Sandstone/ sandstone/ igneous-metamorphic/ Front Range/ Colorado Plateau/
- Fleck, Herman, 1916
ore deposits/ production/ rare metals/ tungsten/ molybdenum/ vanadium/ uranium/ Colorado Plateau/ Placerville district/ San Miguel County/ sandstone/ Front Range/ Gilpin County/ igneous-metamorphic/
- Gable, D. J., 1969
geology/ Nederland quadrangle/ Boulder County/ Gilpin County/ igneous-metamorphic/ ore deposits/ Caribou district/ veins/ map/ Caribou mine/ Front Range/
- George, R. D., 1917
minerals/ rocks/ Colorado/ occurrences/ uses/ Colorado Plateau/ sandstone/ igneous-metamorphic/ uranium/ vanadium/ radium/ carnotite/ pitchblende/ Jefferson County/ Gilpin County/ Front Range/ Montrose County/ San Miguel County/ Dolores County/ Garfield County/ Rio Blanco County/ Routt County/ Boulder County/
- Gottfried, David, 1956
Front Range/ ore deposits/ exploration/ Precambrian rocks/ igneous complexes/ granite/ uranium/

- Jefferson County/ Clear Creek County/ Gilpin County/ Pikes Peak batholith/ Log Cabin batholith/ Boulder Creek batholith/ igneous-metamorphic/ Boulder County/
- Grossman, E. L., 1957
Front Range/ ore deposits/ uranium/ Gilpin County/ Clear Creek County/ Jefferson County/ Schwartzwalder mine/ pitchblende/ igneous-metamorphic/ Ladwig mine/ Leyden mine/ Boulder County/ coal/ sandstone/ Morrison Formation/ Park County/ Gem Dandy/
- Guillotte, G. B., 1944
reconnaissance/ uranium/ ore deposits/ Gilpin County/ igneous-metamorphic/ Kirk mine/ Wood mine/ Belcher mine/ Front Range/ Central City district/ geology/ mining/ Quartz Hill area/
- Gustafson, J. K., 1949
uranium/ resources/ veins/ Gilpin County/ Front Range/ Boulder County/ igneous-metamorphic/ pitchblende/ vanadium/ Morrison Formation/ sandstone/ Montrose County/ Mesa County/ San Miguel County/ Colorado Plateau/
- Hall, C. R., 1976
alkalic/ igneous rocks/ igneous-metamorphic/ Gilpin County/ Front Range/ bibliography/ San Juan County/ Custer County/ Fremont County/ La Plata County/ Montezuma County/ Gunnison County/ Saguache County/ El Paso County/ Rio Grande County/ Jefferson County/ Larimer County/ Boulder County/ Colorado Plateau/ Clear Creek County/ Teller County/
- Harder, J. O., and Stead, F. W., 1945
Boulder County/ Gilpin County/ Gunnison County/ Mesa County/ Teller County/ ore deposits/ sandstone/ igneous-metamorphic/ reconnaissance/ Front Range/ Colorado Plateau/ Jefferson County/
- Harder, J. O., and Wyant, D. G., 1944
Central City district/ Cripple Creek/ Jamestown district/ Nederland district/ Boulder County/ Gilpin County/ Gunnison County/ Teller County/ Clear Creek County/ ore deposits/ igneous-metamorphic/ reconnaissance/ Precambrian rocks/ granite/ veins/ Brown Derby Pegmatite/ Calhoun mine/ Belcher mine/ trace elements/ Front Range/
- Harrison, J. E., 1953
fracture patterns/ Freeland-Lamartine district/ Colorado/ Clear Creek County/ igneous-metamorphic/ veins/ Gilpin County/ thorium/ hypogene zoning/ Front Range/
- Harrison, J. E., 1953
Freeland-Lamartine district/ Clear Creek County/ veins/ igneous-metamorphic/ Gilpin County/ Front Range/
- Harrison, J. E., 1955
fracture patterns/ Freeland-Lamartine district/ Clear Creek County/ igneous-metamorphic/ Gilpin County/ veins/ thorium/ hypogene zoning/ Front Range/
- Hickling, N. L., Phair, G., Moore, R., and others, 1970
Boulder Creek batholith/ uranium/ thorium/ age patterns/ allanite/ mineralogy/ genesis/ paragenesis/ igneous-metamorphic/ Jefferson County/ Clear Creek County/ Gilpin County/ Boulder County/ Larimer County/ Summit County/ Grand County/ Front Range/ Silver Plume batholith/
- Hill, J. M., 1945
Gilpin County/ Kirk mine/ geology/ sampling/ unwatering/ igneous-metamorphic/ Front Range/ Quartz Hill area/
- Hillebrand, W. F., 1890
ore deposits/ geochemistry/ nitrogen/ uraninite/ Black Hawk mine/ analyses/ Gilpin County/ Front Range/ igneous-metamorphic/
- Hillebrand, W. F., 1890
ore deposits/ uraninite/ geochemistry/ nitrogen/ Black Hawk/ Gilpin County/ igneous-metamorphic/ analyses/ Front Range/
- Kelly, F. N., 1962
thorium/ Wet Mountains/ Custer County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Park County/ mineralogy/ Powderhorn district/ rare earths/ resources/ igneous-metamorphic/ Colorado/ Wyoming/ New Mexico/ economics/ Front Range/ Gilpin County/
- King, R. U., 1950
Gilpin County/ Apex claims/ Bates Creek/ Front Range/ ore deposits/ geology/ igneous-metamorphic/
- King, R. U., 1950
Central City district/ Gilpin County/ pitchblende/ Wood mine/ igneous-metamorphic/ Front Range/ ore deposits/ geology/
- King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/
- King, R. U., 1951
Wood mine/ ore deposits/ pitchblende/ Gilpin County/ igneous-metamorphic/ Front Range/ Central City district/ geology/
- King, R. U., and Moore, F. B., 1951
pitchblende/ ore deposits/ Clear Creek County/ Colorado/ Boulder County/ Front Range/ sandstone/ igneous-metamorphic/ sedimentary rocks/ Jefferson County/ geology/ Gilpin County/
- King, R. U., and Theobald, P. K., Jr., 1955
veins/ Gilpin County/ Blackhawk district/ Silver Hill area/ igneous-metamorphic/ geology/ Front Range/ ore deposits/

- King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ Igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ Igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/
- King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Kiowa County/ Larimer County/ Moffat County/ Pitkin County/ Rio Blanco County/ Routt County/ ore guides/ pitchblende/ hydrocarbons/ metal-mining districts/ ore deposits/ limestone/ sandstone/ veins/ breccia pipes/ Eagle County/ hot spring deposits/ fluorite/ Igneous-metamorphic/
- King, R. U., Moore, F. B., and Hinrichs, E. N., 1952
veins/ Colorado/ uranium/ Central City district/ Front Range/ San Miguel County/ pitchblende/ ore deposits/ Larimer County/ Jefferson County/ Gilpin County/ Ralston Creek district/ Jamestown district/ Caribou district/ Lawson district/ Clear Creek County/ Igneous-metamorphic/
- Larsen, E. S., 3d, 1957
analyses/ Colorado/ Wyoming/ Montana/ quartz monzonite/ granite/ Log Cabin batholith/ solubility/ uranium/ thorium/ Front Range/ Gilpin County/ Clear Creek County/ Boulder County/ Sherman batholith/ Igneous-metamorphic/
- Larsen, E. S., and Berman, Harry, 1926
gilpinite/ geochemistry/ Gilpin County/ uranium/ Igneous-metamorphic/ Johannite/ mineralogy/ Front Range/
- Larsen, E. S., and Brown, G. V., 1917
gilpinite/ uranium/ Gilpin County/ Front Range/ Igneous-metamorphic/ geochemistry/ mineralogy/
- Leonard, B. F., 3d, 1952
Front Range/ ore deposits/ pitchblende/ hypogene zoning/ veins/ uranium/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ Igneous-metamorphic/
- Leonard, B. F., 3d, 1952
City district/ bostonite/ Gilpin County/ Clear Creek County/ Larimer County/ Boulder County/ Jefferson County/ hypogene zoning/ Igneous-metamorphic/
- Leonard, B. F., 3d, 1952
Central City district/ Front Range/ pitchblende/ base metals/ precious metals/ Clear Creek County/ Igneous-metamorphic/ Gilpin County/ zoning/ ore deposits/
- Leonard, B. F., 3d, 1953
ore deposits/ zoning/ pitchblende/ hypogene zoning/ Front Range/ Igneous-metamorphic/ Central City district/ Gilpin County/ Clear Creek County/
- Leonard, B. F., 3d, 1953
pitchblende/ ore deposits/ zoning/ Lake County/ Front Range/ Gilpin County/ Clear Creek County/ Igneous-metamorphic/ Pitkin County/ Teller County/ San Juan County/ Coeur d'Alene/ Idaho/
- LeRoy, L. W., 1969
Precambrian rocks/ stratigraphy/ Golden area/ Gilpin County/ Front Range/ Igneous-metamorphic/ Jefferson County/
- Lindgren, Waldemar, 1933
copper/ lead/ vanadium/ uranium/ sandstone/ shale/ carnotite/ roscoelite/ Colorado Plateau/ Dolores County/ San Miguel County/ Mesa County/ Montrose County/ Entrada Sandstone/ La Plata Sandstone/ McElmo Formation/ genesis/ Gilpin County/ Igneous-metamorphic/ ore deposits/ Front Range/
- Lovering, T. S., 1942
Front Range/ mineral belt/ ore deposits/ Clear Creek County/ structural features/ Igneous-metamorphic/ Gilpin County/ Boulder County/ Jefferson County/
- Lovering, T. S., and Goddard, E. N., 1938
Laramide/ tectonics/ differentiation/ Clear Creek County/ correlation/ geochemistry/ petrology/ Boulder County/ Grand County/ Summit County/ Gilpin County/ Park County/ Larimer County/ Teller County/ Jefferson County/ Front Range/ Igneous-metamorphic/
- Lovering, T. S., and Goddard, E. N., 1950
veins/ Front Range/ economic geology/ production/ uranium/ Quartz Hill/ Clear Creek County/ geology/ ore deposits/ Gilpin County/ bostonite/ porphyry/ Igneous-metamorphic/ Central City district/
- Mallory, N. S., and Bird, A. G., 1953
exploration/ geology/ Jefferson County/ Ralston Creek area/ Dawson arkose/ James Peak area/ Boulder County/ Adams County/ Larimer County/ Gilpin County/ Igneous-metamorphic/ Idaho Springs Formation/ sandstone/ Dakota Sandstone/ Morrison Formation/ Front Range/
- McKelvey, V. E., 1953
Colorado Plateau/ Dolores County/ Mesa County/ exploration/ veins/ sandstone/ Igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ phosphates/ shale/ placers/

- McKelvey, V. E., 1953
veins/ Dolores County/ Mesa County/ exploration/
sandstone/ igneous-metamorphic/ Front Range/
pegmatites/ geobotany/ Gilpin County/ Clear
Creek County/ coal/ Montrose County/ San Miguel
County/ ore deposits/ Colorado Plateau/ phosphates/
shale/ placers/
- McKelvey, V. E., 1954
Dolores County/ Mesa County/ exploration/ carnotite/
veins/ sandstone/ igneous-metamorphic/ pegmatites/
geobotany/ Front Range/ Gilpin County/ Clear
Creek County/ coal/ Montrose County/ San Miguel
County/ ore deposits/ veins/ Colorado Plateau/
phosphates/ shale/ placers/
- McKelvey, V. E., 1955
ore deposits/ exploration/ veins/ bituminous
substances/ coal/ sandstone/ phosphates/ United
States/ Dolores County/ Mesa County/ Gilpin
County/ igneous-metamorphic/ Clear Creek County/
Montrose County/ San Miguel County/ Front Range/
Colorado Plateau/
- McKelvey, V. E., Everhart, D. L., and Garrels,
R. M., 1955
genesis/ uranium/ ore deposits/ veins/ bituminous
substances/ sandstone/ limestone/ coal/ shale/
pitchblende/ geochemistry/ age/ Front Range/
Colorado Plateau/ Gilpin County/ Clear Creek
County/ Montrose County/ San Miguel County/
Mesa County/ igneous-metamorphic/
- McKelvey, V. E., Everhart, D. L., and Garrels,
R. M., 1955
veins/ bituminous substances/ genesis/ uranium/
ore deposits/ igneous-metamorphic/ sandstone/
limestone/ coal/ shale/ pitchblende/ geochemistry/
age/ Front Range/ Colorado Plateau/ Gilpin County/
Clear Creek County/ San Miguel County/ Montrose
County/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels,
R. M., 1956
veins/ bituminous substances/ ore deposits/
migmatites/ sandstone/ shale/ igneous-metamorphic/
Colorado/ Colorado Plateau/ San Juan County/
San Miguel County/ coal/ Jefferson County/ Montrose
County/ Old Leyden mine/ uranium/ Gilpin County/
Clear Creek County/ Front Range/ genesis/ Mesa
County/
- McKelvey, V. E., Everhart, D. L., and Garrels,
R. M., 1956
veins/ bituminous substances/ Colorado/ genesis/
uranium/ ore deposits/ pegmatites/ migmatites/
San Miguel County/ sandstone/ coal/ shale/ Front
Range/ Colorado Plateau/ San Juan County/ replacement/
Jefferson County/ Montrose County/ Old Leyden
mine/ Mesa County/ Gilpin County/ igneous-metamorphic/
phosphorites/ Clear Creek County/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/
veins/ pitchblende/ thorium/ uranium/ resources/
exploration/ igneous-metamorphic/ Front Range/
Gilpin County/ Clear Creek County/ pegmatites/
sandstone/ limestone/ Colorado Plateau/ Custer
County/ Gunnison County/ Boulder County/ Larimer
County/ Jefferson County/ coal/ San Miguel County/
Montrose County/ Mesa County/ Moffat County/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Front Range/ exploration/
Morrison Formation/ phosphates/ shale/ sandstone/
igneous-metamorphic/ Mesa County/ Montrose County/
San Miguel County/ Montezuma County/ Dolores
County/ Gilpin County/ Clear Creek County/ Garfield
County/ Boulder County/
- Merritt, P. L., 1950
uranium/ exploration/ Colorado Plateau/ sandstone/
Morrison Formation/ Entrada Sandstone/ Mesa
County/ San Miguel County/ Dolores County/ Montezuma
County/ Front Range/ Boulder County/ Gilpin
County/ Caribou district/ igneous-metamorphic/
Montrose County/ Clear Creek County/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Morrison Formation/
Entrada Sandstone/ sandstone/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ Front Range/ Boulder County/ Gilpin
County/ Clear Creek County/ Caribou district/
igneous-metamorphic/
- Merwin, S. S., 1956
Front Range/ ore deposits/ uranium/ Jefferson
County/ Gilpin County/ Clear Creek County/ Boulder
County/ Schwartzwalder mine/ Caribou mine/ Wood
mine/ igneous-metamorphic/
- Merwin, S. S., 1956
Front Range/ ore deposits/ ore controls/ Jefferson
County/ Boulder County/ Gilpin County/ Clear
Creek County/ igneous-metamorphic/
- Moench, R. H., 1953
mapping/ Idaho Springs district/ Precambrian
rocks/ veins/ igneous-metamorphic/ mineralogy/
Stanley mines/ Lawrence L. claim/ P. J. claim
(?)/ radioactivity/ Clear Creek County/ Gilpin
County/ Front Range/ geology/
- Moench, R. H., 1964
geology/ Precambrian rocks/ Idaho Springs district/
petrography/ Clear Creek County/ Gilpin County/
igneous-metamorphic/ Front Range/
- Moench, R. H., and Drake, A. A., Jr., 1966
economic geology/ pitchblende/ coffinite/ uranophane/
Idaho Springs district/ Clear Creek County/
Gilpin County/ mineralogy/ ore deposits/ Front
Range/ production/ igneous-metamorphic/
- Moench, R. H., Harrison, J. E., and Sims, P. K., 1954
Precambrian rocks/ structure/ Idaho Springs
district/ Front Range/ geology/ Gilpin County/
Jefferson County/ igneous-metamorphic/ Clear
Creek County/
- Moench, R. H., Harrison, J. E., and Sims, P. K., 1962
Precambrian rocks/ structure/ Idaho Springs
district/ Central City district/ Front Range/
Gilpin County/ Clear Creek County/ igneous-metamorphic/

- Moore, F. B., and Butler, C. R., 1950
ore deposits/ Gilpin County/ Central City district/
pitchblende/ Calhoun (east and west) mines/
Wood mine/ base metals/ precious metals/ veins/
Igneous-metamorphic/ Front Range/ geology/ reserves/
bostonite porphyry/ Front Range/
- Moore, F. B., and Butler, C. R., 1952
Gilpin County/ Central City district/ ore deposits/
pitchblende/ Wood mine/ Calhoun mine/ veins/
Igneous-metamorphic/ Front Range/ bostonite/
porphyry/
- Moore, F. B., King, R. U., and Hinrichs, E. N., 1951
Caribou district/ Central City district/ Front
Range/ Clear Creek County/ Gilpin County/ Boulder
County/ ore deposits/ Grand Island district/
Jamestown district/ Lawson area/ Quartz Hill
area/ fluorite deposits/ Calhoun mines/ Caribou
mines/ Jo Reynolds mine/ Kirk mine/ Wood mine/
pitchblende/ breccia deposits/ Igneous-metamorphic/
exploration/
- Moore, R. B., 1913
ore deposits/ carnotite/ Colorado/ Utah/ mining/
uranium/ radium/ vanadium/ North Carolina/ marketing/
San Miguel County/ Montrose County/ Mesa County/
Gilpin County/ pitchblende/ Huerfano County/
Colorado Plateau/ Front Range/ sandstone/
- Moya, E. A., 1969
structure/ stratigraphy/ analyses/ Precambrian
rocks/ North Clear Creek area/ Jefferson County/
Gilpin County/ Igneous-metamorphic/ Front Range/
- Nishimori, R. K., Ragland, P. C., Rogers, J. J.,
and others, 1977
uranium/ ore deposits/ granite/ igneous-metamorphic/
Wheeler Basin/ Grand County/ Front Range/ Park
County/ Clear Creek County/ Gilpin County/ Boulder
County/ Jefferson County/ bostonite dikes/ Central
City district/
- Olson, J. C., and Adams, J. W., 1962
thorium/ rare earths/ United States/ Colorado/
Igneous-metamorphic/ Gunnison County/ Fremont
County/ Custer County/ Larimer County/ Gilpin
County/ Montezuma County/ Moffat County/ El
Paso County/
- Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson
County/ ore deposits/ Routt County/ Jackson
County/ El Paso County/ Park County/ Grand County/
Front Range/ Igneous-metamorphic/ Larimer County/
Eagle County/ Summit County/ Fremont County/
Saguache County/ Teller County/ Chaffee County/
tectonics/ Gilpin County/ Pueblo County/ Custer
County/ Precambrian/ genesis/ structures/
- Osterwald, F. W., 1956
veins/ structural geology/ Precambrian rocks/
Teller County/ structural controls/ ore deposits/
Cordilleran foreland/ igneous-metamorphic/ Gilpin
County/ Front Range/ tectonics/ El Paso County/
Larimer County/ Clear Creek County/
- Osterwald, F. W., 1965
ore deposits/ genesis/ veins/ mining districts/
structural controls/ Moffat County/ pitchblende/
conglomerate/ Front Range/ Igneous-metamorphic/
sandstone/ Jefferson County/ Boulder County/
Montrose County/ Clear Creek County/ Gilpin
County/ Saguache County/ Fremont County/
- Osterwald, F. W., and Dean, B. G., 1956
bibliography/ structural geology/ Gilpin County/
Larimer County/ Boulder County/ Jefferson County/
Clear Creek County/ Igneous-metamorphic/ sandstone/
Front Range/ Grand County/ Jackson County/ Summit
County/ Eagle County/ Rio Blanco County/ Garfield
County/ Routt County/ Moffat County/ ore deposits/
tectonics/
- Osterwald, F. W., and Dean, B. G., 1958
ore deposits/ tectonics/ structural geology/
Larimer County/ Boulder County/ Jefferson County/
Gilpin County/ Clear Creek County/ Igneous-metamorphic/
sandstone/ Front Range/ Grand County/ Jackson
County/ Summit County/ Eagle County/ Rio Blanco
County/ Garfield County/ Routt County/ Moffat
County/
- Osterwald, F. W., and Dean, B. G., 1961
Cordilleran foreland/ ore deposits/ genesis/
structural controls/ tectonic patterns/ Front
Range/ Denver basin/ uranium/ igneous-metamorphic/
Jefferson County/ Boulder County/ Clear Creek
County/ Gilpin County/ Larimer County/
- Pearce, Richard, 1896
ore deposits/ uraninite/ Gilpin County/ igneous-metamorphic/
veins/ Front Range/ Wood mine/
- Pearce, Richard, 1898
uraninite/ veins/ igneous-metamorphic/ Gilpin
County/ Front Range/
- Pearce, Richard, 1898
uraninite/ veins/ igneous-metamorphic/ Gilpin
County/ Front Range/ Wood mine/
- Pearce, Richard, 1916
veins/ uraninite/ igneous-metamorphic/ Gilpin
County/ Front Range/ Wood mine/
- Phair, George, 1952
ore deposits/ porphyries/ radioactivity/ Gilpin
County/ Central City district/ pitchblende/
Tertiary/ deposition/ Front Range/ mineralogy/
petrology/ geochemistry/ zircon/ veins/ igneous-metamorphic/
uranium/ thorium/ analyses/ Quartz Hill/ Nigger
Hill dike/ Clear Creek County/ ore deposits/
- Phair, George, 1952
Front Range/ Central City district/ ore deposits/
Clear Creek County/ Gilpin County/ analyses/
quartz monzonite/ igneous-metamorphic/ Wood
mine/ Kirk Mine/ Quartz Hill area/ pitchblende/
Copper King mine/ Larimer County/ paragenesis/
- Phair, George, 1953
Front Range/ veins/ igneous-metamorphic/ ore
deposits/ Central City district/ Idaho Springs
district/ Gilpin County/ Clear Creek County/
reserves/ Wood mine/ Kirk mine/ Bonanza mine/
German mine/ pitchblende/ Martha E mine/
- Phair, George, 1958

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- uranium/ thorium/ Intrusives/ Laramide/ mineralogy/ geochemistry/ Caribou complex/ Boulder County/ Central City district/ Clear Creek County/ Gilpin County/ Jamestown district/ Gold Hill district/ Front Range/ Igneous-metamorphic/
- Phair, George, and Antweiler, J. C., 1954
Larimer County/ Copper King mine/ ore deposits/ geochemistry/ mineralogy/ uraninite/ coffinite/ pitchblende/ Front Range/ Central City district/ Gilpin County/ Igneous-metamorphic/ absolute age/ Clear Creek County/
- Phair, George, and Gottfried, David, 1964
Front Range/ ore province/ thorium/ uranium/ Igneous-metamorphic/ Boulder County/ Clear Creek County/ Gilpin County/ Jefferson County/ Larimer County/
- Phair, George, and Herz, Norman, 1953
ore deposits/ pitchblende/ coffinite/ geochemistry/ Front Range/ Igneous-metamorphic/ quartz bostonite dikes/ Central City district/ Clear Creek County/ Gilpin County/ mineralogy/ petrology/
- Phair, George, and Levine, Harry, 1952
Central City district/ Wood mine/ geochemistry/ uranium/ radium/ lead/ pitchblende/ solutions/ Katanga/ Great Bear Lake/ Russel Gulch/ Clear Creek County/ Gilpin County/ Igneous-metamorphic/ Front Range/ differential leaching/
- Phair, George, and Levine, Harry, 1952
uranium/ radium/ lead/ pitchblende/ Wood mine/ Central City district/ Gilpin County/ analyses/ exploration/ Igneous-metamorphic/ Clear Creek County/ Front Range/ differential leaching/
- Phair, George, and Levine, Harry, 1953
uranium/ radium/ lead/ pitchblende/ Central City district/ Gilpin County/ igneous metamorphic/ Front Range/ differential leaching/
- Phair, George, and Mela, Henry, Jr., 1955
Bergen Park/ Breckenridge district/ Caribou district/ age determination/ Front Range/ Cotopaxi/ Gold Hill/ Guffey/ Laramide/ Isotopes/ Lawson-Dumont/ Silver Plume/ El Paso County/ mineralogy/ petrology/ geochemistry/ galena/ Summit County/ Boulder County/ Clear Creek County/ Gilpin County/ Fremont County/ Chaffee County/ Isotopic variation/ Igneous-metamorphic/
- Phair, George, and Shimamoto, K. O., 1953
Front Range/ ore deposits/ mineralization/ mineralogy/ petrology/ geochemistry/ porphyries/ pitchblende/ Central City district/ Igneous-metamorphic/ Clear Creek County/ Gilpin County/
- Rabblitt, J. C., 1951
Central City district/ Jamestown district/ ore deposits/ pitchblende/ Blue Jay mine/ bostonite/ fluorite/ veins/ breccia/ Colorado Plateau/ carnotite project/ sandstone/ Igneous-metamorphic/ Boulder County/ Gilpin County/ Clear Creek County/ Front Range/
- Rabblitt, J. C., 1951
Front Range/ Central City district/ ore deposits/ ore guides/ exploration/ Clear Creek County/ Gilpin County/ Colorado Plateau/ Jamestown district/ mineralogy/ petrology/ geochemistry/ pitchblende/ Blue Jay mine/ bostonite/ fluorite/ veins/ breccia/ sandstone/ Igneous-metamorphic/ Boulder County/
- Rabblitt, J. C., 1952
Colorado Plateau/ carnotite project/ Gilpin County/ Larimer County/ sandstone/ Igneous-metamorphic/ Front Range/
- Rabblitt, J. C., 1952
Colorado Plateau/ Front Range/ Central City district/ ore deposits/ exploration/ trace elements/ sandstone/ Igneous-metamorphic/ Gilpin County/ Clear Creek County/
- Rich, R. A., Holland, H. D., and Peterson, U., 1975
veins/ uranium/ ore deposits/ Igneous-metamorphic/ mineralogy/ fluid inclusions/ paragenesis/ hydrothermal/ pitchblende/ ground water/ Front Range/ Jefferson County/ Clear Creek County/ Gilpin County/ Gunnison County/ Saguache County/ Marshall Pass district/ Schwartzwalder mine/
- Rickard, Forbes, 1913
veins/ Quartz Hill area/ Gilpin County/ pitchblende/ Front Range/ Igneous-metamorphic/
- Russell, W. L., and Scherbatskoy, S. A., 1951
Colorado Plateau/ ore deposits/ genesis/ exploration/ gamma-ray detectors/ sandstone/ Front Range/ Instrumentation/ Morrison Formation/ Salt Wash Member/ Gilpin County/ Clear Creek County/ Boulder County/ San Miguel County/ Montrose County/ Igneous-metamorphic/ Entrada Sandstone/
- Sims, P. K., 1953
Front Range/ ore deposits/ exploration/ Clear Creek County/ Gilpin County/ Igneous-metamorphic/
- Sims, P. K., 1953
ore deposits/ Central City district/ Georgetown district/ Front Range/ Clear Creek County/ Gilpin County/ Igneous-metamorphic/
- Sims, P. K., 1954
veins/ Igneous-metamorphic/ Clear Creek County/ Gilpin County/ Front Range/ ore deposits/
- Sims, P. K., 1954
Front Range/ ore deposits/ mineralogy/ petrology/ Igneous-metamorphic/ Gilpin County/ Clear Creek County/
- Sims, P. K., 1955
Gilpin County/ Central City district/ mineralogy/ petrology/ geochemistry/ pitchblende/ ore deposits/ veins/ Front Range/ Igneous-metamorphic/ paragenesis/ structure/
- Rabblitt, J. C., 1951
Blue Jay mine/ Jamestown district/ Colorado

- Sims, P. K., 1955
paragenesis/ structure/ pitchblende/ veins/
Igneous-metamorphic/ Gilpin County/ uranium/
mineralogy/ Front Range/ ore deposits/ Buckhorn
mica mine/ Bucky claim/ Opportunity No. 1 claim/
Trilo claims/ White Spar claim/ Quartz Creek
district/ uranium/ thorium/ Colorado/ gneiss/
origin/ Sharon Springs Member/ Hermosa Formation/
Paradox Member/
- Sims, P. K., 1955
Front Range/ ore deposits/ trace elements/ Clear
Creek County/ Gilpin County/ Igneous-metamorphic/
- Sims, P. K., 1956
veins/ Front Range/ Igneous-metamorphic/ geology/
ore deposits/ Gilpin County/ Clear Creek County/
- Sims, P. K., 1956
Front Range/ ore deposits/ uranium/ Larimer
County/ Boulder County/ Gilpin County/ Clear
Creek County/ Jefferson County/ Fremont County/
Igneous-metamorphic/
- Sims, P. K., 1956
Gilpin County/ ore deposits/ pitchblende/ genesis/
structural controls/ veins/ Front Range/ Clear
Creek County/ geology/ uranium/ Igneous-metamorphic/
Central City district/ mineralogy/ paragenesis/
- Sims, P. K., 1956
Front Range/ Gilpin County/ Central City district/
mineralogy/ petrology/ geochemistry/ pitchblende/
ore deposits/ zoning/ tennantite/ Calhoun (East
and West) mines/ Carroll mine/ J.P. Whitney
mine/ genesis/ host rocks/ Intrusive structures/
veins/ stratigraphy/ Precambrian rocks/ uranium/
Igneous-metamorphic/ paragenesis/ structure/
pitchblende-bearing vein
- Sims, P. K., 1957
Front Range/ Igneous-metamorphic/ veins/ geology/
ore deposits/ Gilpin County/ Clear Creek County/
- Sims, P. K., 1960
mineralogy/ hypogene zoning/ Central City district/
Gilpin County/ Clear Creek County/ Igneous-metamorphic/
Front Range/
- Sims, P. K., 1960
hypogene zoning/ mineralogy/ Gilpin County/
Clear Creek County/ Central City district/ Front
Range/ Igneous-metamorphic/
- Sims, P. K., 1960
Clear Creek County/ Gilpin County/ geology/
Igneous-metamorphic/ Central City district/
Front Range/ Idaho Springs district/ guidebook/
- Sims, P. K., 1963
geology/ uranium/ ore deposits/ Front Range/
Gilpin County/ production/ Summit County/ Clear
Creek County/ Boulder County/ Grand County/
Central City district/ Idaho Springs district/
Lawson-Dumont-Fall River district/ Freeland-Lamarline
district/ gneiss/ thorium/ pegmatites/ alaskite/
bosfontite/ Chicago Creek district/ Igneous-metamorphic/
monazite/
- Sims, P. K., 1964
Gilpin County/ Clear Creek County/ Igneous-metamorphic/
Central City quadrangle/ Russell Gulch/ geology/
Front Range/
- Sims, P. K., and Barton, P. B., Jr., 1962
Gilpin County/ Central City district/ hypogene
zoning/ ore genesis/ ore deposits/ Igneous-metamorphic/
Front Range/ petrology/
- Sims, P. K., and Drake, A. A., Jr., 1953
Front Range/ Central City district/ Gilpin County/
Clear Creek County/ Igneous-metamorphic/ Jefferson
County/ geology/ ore deposits/
- Sims, P. K., and Gable, D. J., 1963
cordierite/ gneiss/ Central City quadrangle/
Gilpin County/ Clear Creek County/ Front Range/
minerals/ Central City district/ geology/ Precambrian
rocks/ Igneous-metamorphic/
- Sims, P. K., and Gable, D. J., 1964
geology/ Precambrian rocks/ Central City district/
Gilpin County/ Clear Creek County/ uranium/
thorium/ monazite/ Igneous-metamorphic/ pegmatites/
gneiss/ granite/ Front Range/
- Sims, P. K., and Gable, D. J., 1967
petrology/ structure/ Precambrian rocks/ Gilpin
County/ Clear Creek County/ Igneous-metamorphic/
pegmatites/ gneiss/ granite/ uranium/ thorium/
Front Range/ geology/ map/ Central City district/
Trilo claims/ White Spar claim/ Quartz Creek
district/ uranium/ thorium/ Colorado/ gneiss/
origin/ Sharon Springs Member/ Hermosa Formation/
Paradox Member/
- Sims, P. K., and others, 1959
Front Range/ Igneous-metamorphic/ uranium/ ore
deposits/ geology/ Clear Creek County/ Gilpin
County/
- Sims, P. K., and Sheridan, D. M., 1964
geology/ ore deposits/ Front Range/ genesis/
mineralogy/ analyses/ emission spectroscopy/
uranium/ veins/ Igneous-metamorphic/ Clear Creek
County/ Gilpin County/ Boulder County/ Larimer
County/
- Sims, P. K., and Tooker, E. W., 1954
Eureka Gulch area/ Central City district/ Gilpin
County/ Igneous-metamorphic/ maps/ Front Range/
geology/
- Sims, P. K., and Tooker, E. W., 1955
metatorbernite/ alteration/ wall rocks/ Gilpin
County/ uranium/ Igneous-metamorphic/ veins/
Front Range/ Central City district/
- Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/
pitchblende/ Central City district/ veins/ uranium/
Igneous-metamorphic/ bostonite/ production/
pegmatites/ gneiss/ genesis/ Front Range/
- Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/
pitchblende/ Central City district/ veins/ uranium/

- igneous-metamorphic/ bostonite/ production/ pegmatite/ gneiss/ Front Range/ genesis/
- Sims, P. K., Drake, A. A., Jr., and Moench, R. H., 1953
Gilpin County/ Clear Creek County/ Igneous-metamorphic/ Central City district/ Front Range/ geology/ ore deposits/
- Sims, P. K., Drake, A. A., Jr., and Moench, R. H., 1953
Gilpin County/ Clear Creek County/ Central City district/ geology/ maps/ ore deposits/ Iron mine/ veins/ Russell Gulch area/ Quartz Hill area/ Nevada Gulch area/ pitchblende/ Wood mine/ Calhoun mine/ Gold King claim/ Kirk mine/ Ross shaft/ Belcher claims/ Front Range/ German claims/ Pewabic mine/ igneous-metamorphic/
- Sims, P. K., Drake, A. A., Jr., and Moench, R. H., 1954
veins/ maps/ Central City district/ Gilpin County/ igneous-metamorphic/ Front Range/ geology/
- Sims, P. K., Drake, A. A., Jr., and Tooker, E. W., 1963
economic geology/ Central City district/ Gilpin County/ igneous-metamorphic/ production/ geology/ ore deposits/ mineralogy/ uranium/ pitchblende/ veins/ Front Range/ granite/ gneiss/ pegmatites/
- Sims, P. K., Harrison, J. E., and Moore, F. B., 1952
Central City district/ Dumont district/ Fall River district/ Eureka Gulch district/ Front Range/ Georgetown area/ Clear Creek County/ pitchblende/ Diamond Mountain (Lanagan) mine/ Gomer mine/ Golden Calf mine/ Golden Glen mine/ Martha E. mine/ veins/ Old Town mine/ Spread Eagle mine/ reconnaissance/ Gilpin County/ ore deposits/ base metals/ Freeland-Lamartine district/ igneous-metamorphic/ precious metals/
- Sims, P. K., Moench, R. H., Drake, A. A., Jr., and others, 1963
uranium/ ore deposits/ Central City district/ Idaho Springs district/ mining/ Gilpin County/ Clear Creek County/ Front Range/ igneous-metamorphic/
- Sims, P. K., Osterwald, F. W., and Tooker, E. W., 1954
Gilpin County/ igneous-metamorphic/ Wood mine/ Nigger Hill/ Uinta Mountains/ Central City district/ mineralogy/ petrology/ geochemistry/ pitchblende/ ore deposits/ veins/ minerals/ kasolite/ metatorbernite/ Buckley mine/ Bullion mine/ Carroll mine/ Rara Avis mine/ R.H.D. mine/ Two Sisters mine/ stratigraphy/ Precambrian rocks/ genesis/ Front Range/ Claire Marie mine/
- Sims, P. K., Osterwald, F. W., and Tooker, E. W., 1955
Gilpin County/ ore deposits/ petrology/ Eureka Gulch area/ veins/ geology/ Central City district/ pitchblende/ metatorbernite/ igneous-metamorphic/ uranium/ Front Range/
- Sims, P. K., Tooker, E. W., and Osterwald, F. W., 1954
Central City district/ Gilpin County/ Eureka Gulch area/ geology/ igneous-metamorphic/ uranium/ ore deposits/ Front Range/ maps/
- Singewald, Q. D., Christman, R. A., and others, 1956
Custer County/ Fremont County/ McKinley Mountain area/ igneous-metamorphic/ geology/ radiometrics/ maps/ City/ Colorado Plateau/ Gilpin County/ metamorphic/ ore deposits/ Colorado/ sandstone/ Front Range/
- Stugard, Frederick, Jr., Wyant, D. G., and Gude, A. J., 3d, 1952
veins/ uranium/ secondary deposits/ United States/ Central City district/ Colorado Plateau/ Gilpin County/ ore deposits/ igneous-metamorphic/ sandstone/ Front Range/
- Taylor, R. B., 1975
geology/ map/ Black Hawk quadrangle/ Gilpin County/ Jefferson County/ Clear Creek County/ Front Range/ igneous-metamorphic/
- Tooker, E. W., 1953
wall rock alteration/ Front Range/ igneous-metamorphic/ Gilpin County/ Clear Creek County/
- Tooker, E. W., 1955
Gilpin County/ Clear Creek County/ Central City district/ Idaho Springs district/ mineralogy/ petrology/ alteration/ geochemistry/ wall rock/ igneous-metamorphic/ uranium/ veins/ Front Range/
- Tooker, E. W., 1956
Central City district/ Idaho Springs district/ igneous-metamorphic/ alteration/ veins/ wall rocks/ sulfides/ structures/ ore deposits/ Front Range/ Gilpin County/ Clear Creek County/
- Tooker, E. W., 1963
alteration/ wall rocks/ Front Range/ Gilpin County/ Clear Creek County/ igneous-metamorphic/
- Tovote, W. L., 1906
Gilpin County/ pitchblende/ igneous-metamorphic/ Front Range/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Gilpin County/ reconnaissance/ ore deposits/ Front Range/ igneous-metamorphic/
- U.S. Geological Survey, 1953
sandstone/ Colorado Plateau/ Front Range/ veins/ igneous-metamorphic/ thorium/ Powderhorn district/ natural waters/ Morrison Formation/ Mesa County/ San Miguel County/ Dolores County/ Gilpin County/ San Juan County/ La Plata County/ Ouray County/ geology/ Gunnison County/ Montrose County/ San Juan Mountains/ Clear Creek County/ ore deposits/
- U.S. Geological Survey, 1953
geologic mapping/ Colorado Plateau/ Front Range/ carbonaceous rocks/ geochemistry/ reconnaissance/ black shales/ sandstone/ igneous-metamorphic/ geology/ ore deposits/ Gilpin County/ Clear Creek County/ Jefferson County/ Montrose County/ Mesa County/ San Miguel County/ Gunnison County/

- U.S. Geological Survey, 1953
Colorado Plateau/ Front Range/ sandstone/ coal/ springs/ igneous-metamorphic/ shale/ Gilpin County/ Clear Creek County/ Jefferson County/ Boulder County/ Custer County/ thorium/ Gunnison County/ La Plata County/ San Juan County/ Ouray County/
- U.S. Geological Survey, 1954
Clear Creek County/ Gilpin County/ ore deposits/ reserves/ Colorado Plateau/ exploration/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Moffat County/ Dolores County/ Rio Blanco County/ Front Range/ igneous-metamorphic/ Jefferson County/ pitchblende/ hydrogeochemical exploration/ stream sediments/ ground water/ mine waters/
- U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geochemistry/ geophysics/ thorium/ ore deposits/ sandstone/ igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Gilpin County/ Clear Creek County/
- U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ San Miguel County/ Montrose County/ sandstone/ igneous-metamorphic/ Mesa County/ Clear Creek County/ Gilpin County/ ore deposits/
- U.S. Geological Survey, 1958
Colorado Plateau/ mapping/ geophysics/ Clear Creek County/ geochemistry/ Maybell-Lay area/ Front Range/ Gilpin County/ research/ thorium/ Moffat County/ sandstone/ Mesa County/ San Miguel County/ Montrose County/ igneous-metamorphic/
- U.S. Geological Survey, 1958
Colorado Plateau/ geophysics/ geochemistry/ Gilpin County/ research/ Front Range/ thorium/ reconnaissance/ Mesa County/ sandstone/ Clear Creek County/ Montrose County/ San Miguel County/ igneous-metamorphic/
- Vanderpool, J. S., 1957
paragenesis/ structure/ pitchblende/ veins/ igneous-metamorphic/ Gilpin County/ Front Range/ Central City district/
- Walker, G. W., 1956
ore deposits/ host rocks/ alteration/ veins/ sandstone/ igneous-metamorphic/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ dolomite/ Pitkin County/ Larimer County/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/
- Walker, G. W., 1957
Marysville/ leaching/ uranium/ ore deposits/ supergene alteration/ veins/ Marshall Pass/ Colorado/ Utah/ Saguache County/ Nigger shaft/ North Star mine/ Jefferson County/ Gilpin County/ Front Range/ sandstone/ igneous-metamorphic/ zoning/ Madonna mine/ Chaffee County/
- Walker, G. W., 1963
alteration/ veins/ igneous-metamorphic/ sandstone/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ Cochetopa district/ ore deposits/ Placerville district/ San Miguel County/ Larimer County/ Central City district/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/
- Walker, G. W., 1963
Marysville/ leaching/ uranium/ ore deposits/ supergene alteration/ veins/ Marshall Pass/ Colorado/ Utah/ Saguache County/ Nigger shaft/ North Star mine/ Jefferson County/ Gilpin County/ Front Range/ sandstone/ igneous-metamorphic/ zoning/ Madonna mine/ Chaffee County/
- Walker, G. W., and Adams, J. W., 1957
Boulder County/ Larimer County/ Clear Creek County/ Central City district/ Gilpin County/ Caribou mine/ Front Range/ Jefferson County/ Placerville district/ San Miguel County/ Colorado Plateau/ ore deposits/ Marshall Pass/ Saguache County/ Copper King mine/ sandstone/ mineralogy/ veins/ textures/ structures/ paragenesis/ Los Ochos mine/ Schwartzwalder mine/ igneous-metamorphic/
- Walker, G. W., and Adams, J. W., 1963
Boulder County/ Larimer County/ Placerville district/ Central City district/ Gilpin County/ Clear Creek County/ Front Range/ Jefferson County/ Schwartzwalder mine/ San Miguel County/ Colorado Plateau/ Copper King mine/ Saguache County/ ore deposits/ Caribou mine/ Los Ochos mine/ sandstone/ Colorado/ mineralogy/ igneous-metamorphic/ textures/ structures/ paragenesis/
- Walker, G. W., and Osterwald, F. W., 1956
ore deposits/ veins/ fluorite/ Front Range/ Gilpin County/ coal/ Jefferson County/ Placerville district/ San Miguel County/ Clear Creek County/ sandstone/ igneous-metamorphic/ Colorado Plateau/ Cochetopa district/ Saguache County/ Powderhorn district/ Custer County/ Chaffee County/
- Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ geology/ Front Range/ Gilpin County/ Jefferson County/ sandstone/ Boulder County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/ Saguache County/ Custer County/ Chaffee County/ Clear Creek County/ Jamestown district/ Cochetopa district/ Powderhorn district/ Placerville district/
- Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ genesis/ Placerville district/ transportation/ deposition/ depositional environments/ Clear Creek County/ Gilpin County/ Saguache County/ Jefferson County/ Cochetopa district/ Front Range/ San Miguel County/ Leyden coal mine/ Larimer County/ Boulder County/ sandstone/ igneous-metamorphic/
- Wallace, S. R., Leonard, B. F., 3d, and Campbell, R. H., 1955
Breckenridge district/ Caribou district/ Central City district/ Summit County/ Gold Hill district/

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GRAND COUNTY

- Freeland-Lamartine district/ Front Range/ Georgetown district/ Silver Plume district/ Idaho Springs district/ Lawson - Dumont district/ Igneous-metamorphic/ Gilpin county/ Ward district/ Boulder County/ Clear Creek County/ hypogene mineral zoning/ Idaho Springs district/
- Wells, J. D., 1960
petrology/ Tertiary rocks/ Igneous-metamorphic/ thorium/ Front Range/ radioactivity/ bostonite porphyry/ Gilpin County/ Clear Creek County/ volcanic rocks/ uranium/ petrography/
- Wells, J. D., n.d.
geology/ Tertiary rocks/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/
- Wood, H. E., 1913
radium/ pitchblende/ Gilpin County/ chemical separation/ Igneous-metamorphic/ Front Range/
- Young, E. J., and Sims, P. K., 1958
Front Range/ xenotime/ monazite/ biotite gneiss/ migmatite/ Igneous-metamorphic/ Gilpin County/ thorium/ Central City district/ Precambrian rocks/
- Young, E. J., and Sims, P. K., 1961
Central City district/ Gilpin County/ petrography/ monazite/ xenotime/ Precambrian rocks/ gneiss/ genesis/ Igneous-metamorphic/ Front Range/
- Larimer County/ Igneous-metamorphic/ Grand County/ Rocky Mountain National Park/ Silverton/ San Juan County/
- Anonymous, 1951
Colorado Plateau/ Grand County/ sandstone/ bonus payments/ uranium/ mines/
- Beroni, E. P., and McKeown, F. A., 1952
geology/ sandstone/ reconnaissance/ marine black shales/ Entrada Sandstone/ Curtis Formation/ Igneous-metamorphic/ Skull Creek district/ Bozo claims/ Fair-U claim/ Lucky Strike claims/ Grand County/ Moffat County/ Routt County/ coal/ copper/ uranium/ limestone/ phosphates/ carnotite/ uraninite/ spring deposits/ migmatite/ granite/ Colorado/ Wyoming/ Utah/
- Braddock, W. A., 1969
geology/ ore deposits/ Empire quadrangle/ Grand County/ Gilpin County/ Clear Creek County/ Front Range/ Igneous-metamorphic/
- Carter, W. D., and Gaultier, J. L., 1958
map/ tectonics/ Colorado/ Utah/ Moffat County/ Logan County/ geology/ Larimer County/ Jackson County/ Boulder County/ Jefferson County/ Clear Creek County/ Gilpin County/ Summit County/ Grand County/ Eagle County/ Routt County/ Garfield County/ Rio Blanco County/ sandstone/ ore deposits/ igneous-metamorphic/
- Finch, W. I., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/
- Hickling, N. L., Phair, G., Moore, R., and others, 1970
Boulder Creek batholith/ uranium/ thorium/ age patterns/ allanite/ mineralogy/ genesis/ paragenesis/ Igneous-metamorphic/ Jefferson County/ Clear Creek County/ Gilpin County/ Boulder County/ Larimer County/ Summit County/ Grand County/ Front Range/ Silver Plume batholith/
- Izett, G. A., and Hoover, D. L., 1963
geology/ map/ Hot Sulphur Springs SE quadrangle/ quartz monzonite/ Igneous-metamorphic/ Grand County/ Middle Park Formation/ siltstone/ sandstone/ conglomerate/ arkose/ Lucky Jack mine/ Precambrian rocks/
- King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ Igneous-metamorphic/ stream sediments/

GRAND COUNTY

- Adams, J. A. S., 1954
volcanic rocks/ uranium/ thorium/ analyses/

spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/

Lovering, T. S., and Goddard, E. N., 1938

Laramide/ tectonics/ differentiation/ Clear Creek County/ correlation/ geochemistry/ petrology/ Boulder County/ Grand County/ Summit County/ Gilpin County/ Park County/ Larimer County/ Teller County/ Jefferson County/ Front Range/ Igneous-metamorphic/

Ludwig, K. R., and Young, E. J., 1975

uranium/ geology/ age dating/ isotopes/ radioactivity/ Rossing uranium deposit/ monazite/ uraninite/ Wheeler Basin/ Grand County/ gneiss/ absolute age/ pegmatite/ migmatite/ igneous-metamorphic/

Malan, R. C., 1957

North Park/ Middle Park/ ore deposits/ Grand County/ igneous-metamorphic/ Jackson County/ Routt County/ peat/ sandstone/ Peada claims/ Northgate district/ Beaver Creek area/ Troublesome Creek area/ Rabbit Ears Pass area/

Malan, R. C., 1969

Intermontane basins/ North Park/ Tertiary/ Middle Park/ South Park/ Raton basin/ Tallahassee Creek district/ sandstone/ ore deposits/ Grand County/ Teller County/ Park County/ arkose/ Fremont County/ mudstone/ Huerfano County/ conglomerate/ genesis/ geology/ Gunnison County/ Saguache County/ exploration/ water sampling/ Wet Mountains/ High Park/ Cochetopa district/ Marshall Pass/ Thirtynine Mile field/

Malan, R. C., 1969

genesis/ ore deposits/ Tertiary/ intermontane basins/ geology/ uranium/ minerals/ sediments/ stratigraphy/ sandstone/ Middle Park/ South Park/ Raton basin/ Thirtynine Mile volcanic field/ Tallahassee Creek district/ Jackson County/ Grand County/ Park County/ Fremont County/ Huerfano County/ Custer County/

Nishimori, R. K., Ragland, P. C., Rogers, J. J., and others, 1977

uranium/ ore deposits/ granite/ igneous-metamorphic/ Wheeler Basin/ Grand County/ Front Range/ Park County/ Clear Creek County/ Gilpin County/ Boulder County/ Jefferson County/ bostonite dikes/ Central City district/

Osterwald, F. W., 1956

Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/

Osterwald, F. W., and Dean, B. G., 1956

bibliography/ structural geology/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit

County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/ ore deposits/ tectonics/

Osterwald, F. W., and Dean, B. G., 1958

ore deposits/ tectonics/ structural geology/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/

Schlottmann, J. D., 1957

uranium/ ore deposits/ stratigraphy/ mineralization/ geology/ lithology/ Alaska Humes claims/ Grand County/ Jackson County/ sandstone/ Dakota Sandstone/ carnotite/ Rabbit Ears Pass area/

Schlottmann, J. D., and Brown, L. J., 1955

uranium/ ore deposits/ radioactivity/ stratigraphy/ geology/ drilling/ Troublesome area/ Middle Park/ Grand County/ exploration/ Beaver Creek area/ sandstone/ clay/ conglomerate/ mineralization/ Oligocene/ structure/ regolith/ Cretaceous/ Pierre Shale/ Precambrian rocks/ airborne reconnaissance/ Troublesome Formation/

Schlottmann, J. D., and Smith, L. E., 1954

Middle Park/ Troublesome Formation/ mineralization/ ore deposits/ Oligocene/ sandstone/ clay/ conglomerate/ Grand County/ carnotite/ autunite/ schroekingerite/ stratigraphy/ structure/

Sims, P. K., 1963

geology/ uranium/ ore deposits/ Front Range/ Gilpin County/ production/ Summit County/ Clear Creek County/ Boulder County/ Grand County/ Central City district/ Idaho Springs district/ Lawson-Dumont-Fall River district/ Freeland-Lamartine district/ gneiss/ thorium/ pegmatites/ alaskite/ bostonite/ Chicago Creek district/ igneous-metamorphic/ monazite/

Stokes, W. L., and Fischer, R. P., 1945

vanadium/ sandstone/ Mesa County/ Gateway district/ Colorado Plateau/ ore deposits/

Stokes, W. L., Russell, R. T., Fischer, R. P., and Butler, A. P., Jr., 1945

Mesa County/ Colorado/ Utah/ Gateway district/ uranium/ ore deposits/ vanadium/ Calamity Group claims/ sandstone/ Tenderfoot Mesa/ carnotite/ production/ Salt Wash Member/ Morrison Formation/ Colorado Plateau/ geology/ map/

U.S. Atomic Energy Commission, 1966

geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Grand County/ reconnaissance/ ore deposits/ sandstone/

Vine, J. D., and Moore, G. W., 1952

Middle Park/ North Park/ Grand County/ Jackson County/ Moffat County/ Rio Blanco County/ Routt County/ coal/ carbonaceous rocks/ Wyoming/ occurrences/ Idaho/ Colorado/ Colorado Plateau/ ore deposits/ sandstone/

GRAND COUNTY

Young, E. J., and Hauff, P. L., 1975
 Colorado/ isotopes/ radioactivity/ age dating/
 uranium/ lead/ uraninite/ pegmatite/ gneiss/
 Wheeler basin/ Grand County/ Rossing uranium
 deposit/ Precambrian rocks/ igneous-metamorphic/
 ore deposits/

GUNNISON COUNTY

Adams, J. W., 1948
 Chaffee County/ Gunnison County/ Mount Antero/
 igneous-metamorphic/ beryl/ beryllium/ White
 Mountain/

Adler, H. H., 1963
 genesis/ sandstone/ ore deposits/ Jefferson
 County/ Pueblo County/ Gunnison County/ Moffat
 County/ Garfield County/ Mesa County/ Delta
 County/ Montrose County/ San Miguel County/
 Dolores County/ Montezuma County/ La Plata County/
 Archuleta County/ Colorado Plateau/ Front Range/
 Rio Blanco County/

Adler, H. H., 1964
 uranium/ roll ore/ exploration/ sandstone/ ore
 deposits/ Jefferson County/ Pueblo County/ Gunnison
 County/ Rio Blanco County/ Garfield County/
 Mesa County/ Delta County/ Montrose County/
 San Miguel County/ Montezuma County/ La Plata
 County/ Archuleta County/ Moffat County/ Colorado
 Plateau/ Front Range/ Dolores County/

Anonymous, 1951
 Gunnison County/ rare earths/ pegmatites/ Gold
 Creek/ Brown Derby mine/ igneous-metamorphic/

Anonymous, 1951
 Gunnison County/ rare earths/ pegmatites/ beryllium/
 igneous-metamorphic/

Baillie, W. N., 1962
 pegmatites/ feldspar/ rare earths/ Boulder County/
 Chaffee County/ Clear Creek County/ Douglas
 County/ El Paso County/ Fremont County/ Gunnison
 County/ Jefferson County/ Larimer County/ Park
 County/ igneous-metamorphic/ Front Range/

Baltz, E. H., Jr., 1955
 Colorado/ New Mexico/ ore deposits/ exploration/
 carbonaceous rocks/ sandstone/ Mesa County/
 Delta County/ Montrose County/ Gunnison County/
 Ouray County/ San Miguel County/ Hinsdale County/
 Dolores County/ Montezuma County/ La Plata County/
 Archuleta County/ coal/ shale/ reconnaissance/
 Colorado Plateau/

Bartleson, B. L., Bryant, B., and Mutschler, F.
 E., 1968
 nomenclature/ stratigraphy/ Elk Mountains/ Eagle
 basin/ Gothic Formation/ Belden Formation/ Maroon
 Formation/ Pitkin County/ Gunnison County/ Permian
 stratigraphy/ Pennsylvanian stratigraphy/

Buck, K. L., 1955
 bibliography/ thorium/ rare earths/ Alaska/
 Colorado/ United States/ El Paso County/ Custer
 County/ Gunnison County/ igneous-metamorphic/
 ore deposits/

GUNNISON COUNTY

Buck, K. L., 1957
 ore deposits/ bibliography/ thorium/ rare earths/
 Alaska/ Colorado/ United States/ El Paso County/
 Custer County/ Gunnison County/ igneous-metamorphic/

Burbank, W. S., and Pierson, C. T., 1952
 Gunnison County/ Ouray County/ San Juan County/
 Dolores County/ radioactivity/ reconnaissance/
 San Juan Mountains/ igneous-metamorphic/ Colorado
 Plateau/ sandstone/ veins/ San Miguel County/

Burbank, W. S., and Pierson, C. T., 1953
 radioactivity/ reconnaissance/ San Juan Mountains/
 Ouray County/ San Miguel County/ Gunnison County/
 Dolores County/ igneous-metamorphic/ sandstone/
 Colorado Plateau/ veins/ San Juan County/

Butler, A. P., Jr., 1952
 Front Range/ thorium/ Colorado Plateau/ Morrison
 Formation/ igneous-metamorphic/ Chinle Formation/
 Shinarump Member/ geology/ ore deposits/ pegmatites/
 veins/ sandstone/ placers/ carnotite/ fresh
 waters/ gases/ Gilpin County/ Clear Creek County/
 Custer County/ Lake County/ San Miguel County/
 Gunnison County/

Butler, A. P., Jr., Killien, P. L., Page, G. B.,
 and Rubey, W. W., 1947
 ore deposits/ resources/ reconnaissance/ Front
 Range/ reserves/ Colorado Plateau/ carnotite/
 uranium/ vanadium/ igneous-metamorphic/ uraninite/
 Iron Hill/ Gunnison County/ Gilpin County/ Clear
 Creek County/ radioactive springs/ thorium/
 mineralogy/ San Miguel County/ Montrose County/
 Mesa County/ sandstone/ genesis/

Cadigan, R. A., 1967
 petrology/ Morrison Formation/ Colorado Plateau/
 sandstone/ Gunnison County/ La Plata County/
 Archuleta County/ San Miguel County/ Mesa County/
 Delta County/ Eagle County/ Montrose County/
 Montezuma County/ mineralogy/ Rio Blanco County/
 Salt Wash Member/

Cadigan, R. A., 1972
 stratigraphy/ genesis/ Chinle Formation/ Colorado
 Plateau/ paleontology/ sandstone/ Tertiary strata/
 Eagle County/ La Plata County/ Archuleta County/
 Garfield County/ Mesa County/ Moffat County/
 Montezuma County/ Pitkin County/ Montrose County/
 Rio Blanco County/ Routt County/ San Miguel
 County/ San Juan County/ Summit County/ Park
 County/ Delta County/ Dolores County/ mineralogy/
 conglomerate/ Gunnison County/ Ouray County/

Coats, R. R., 1956
 felsic volcanic rocks/ igneous-metamorphic/
 uranium/ trace elements/ Cenozoic/ genesis/
 Gunnison County/ Pitkin County/ Lake County/
 Park County/ Chaffee County/ Ouray County/ Saguache
 County/ Hinsdale County/

Coats, R. R., 1956
 uranium/ trace elements/ felsic volcanic rocks/
 Cenozoic/ genesis/ igneous-metamorphic/ Gunnison
 County/ Pitkin County/ Lake County/ Park County/
 Chaffee County/ Ouray County/ Saguache County/
 Hinsdale County/

- Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951
Colorado Plateau/ Morrison Formation/ Mesa County/ stratigraphy/ Glen Canyon group/ Montezuma County/ Delta County/ San Rafael group/ Dolores County/ Gunnison County/ Montrose County/ sandstone/ Moffat County/ Ouray County/ San Juan County/ San Miguel County/ La Plata County/ Rio Blanco County/ Garfield County/ Archuleta County/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1955
stratigraphy/ Morrison Formation/ Colorado Plateau/ sandstone/ Recapture Member/ Mesa County/ Ouray County/ Delta County/ Gunnison County/ Montrose County/ San Juan County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Salt Wash Member/
- Cross, C. W., and Larsen, E. S., 1915
stratigraphy/ La Plata Sandstone/ unconformity/ Precambrian/ San Juan Mountains/ Montrose County/ Gunnison County/ igneous-metamorphic/ sandstone/ Colorado Plateau/ geology/
- Cross, C. W., and Larsen, E. S., 1935
geology/ San Juan region/ igneous-metamorphic/ ore deposits/ alkaline complex/ thorium/ iron Hill/ Powderhorn area/ Gunnison County/
- Dings, M. G., 1952
Garfield quadrangle/ Taylor Park quadrangle/ Chaffee County/ Gunnison County/ Bon Ton mine/ Little Jimmie prospect/ Madonna mine/ Silent Friend mine/ reconnaissance/ radioactive material/ mining districts/ fault breccia/ shear zone material/ ore deposits/ veins/ igneous-metamorphic/ geology/
- Dings, M. G., and Robinson, C. S., 1952
geology/ ore deposits/ Quartz Creek district/ Gunnison County/ Tin Cup district/ production/ igneous-metamorphic/ Garfield quadrangle/ Chaffee County/
- Dings, M. G., and Robinson, C. S., 1957
geology/ ore deposits/ Gunnison County/ Chaffee County/ production/ volcanic rocks/ Quartz Creek district/ Tin Cup district/ Garfield quadrangle/ igneous-metamorphic/
- Dings, M. G., and Schafer, Max, 1953
veins/ Garfield quadrangle/ Taylor Park quadrangle/ igneous-metamorphic/ geology/ ore deposits/ Gunnison County/ Chaffee County/ Mount Antero region/ Bon Ton mine/ Madonna mine/ brannerite/ black (marline carbonaceous) shales/ pegmatites/ reconnaissance/ radiometrics/ Silent Friend mine/
- Dings, M. G., Robinson, C. S., and Brock, M. R., 1952
Garfield quadrangle/ Chaffee County/ Gunnison County/ igneous-metamorphic/ geology/ ore deposits/
- Doe, B. R., and Pearson, R. C., 1969
chronology/ age dating/ uranium/ thorium/ lead/ zirconium/ granite/ Chaffee County/ Gunnison County/ analyses/ St. Kevin granite/ igneous-metamorphic/ Sawatch Range/
- Dooley, J. R., Jr., and Hathaway, J. C., 1961
mineralogy/ thorium/ rhabdophane/ veins/ Precambrian rock/ Gunnison County/ igneous-metamorphic/
- Duncan, D. C., compiler, 1953
ore deposits/ black shale/ Weber Formation/ exploration/ shale/ reconnaissance/ Belden Formation/ Paradox Member/ Eagle County/ Garfield County/ Gunnison County/ Hermosa Formation/ San Juan County/ La Plata County/ Lake County/ Pony Express Limestone Member/ Ouray County/ Dakota Sandstone/ Archuleta County/ Pierre Shale/ Las Animas County/ Huerfano County/ Vermejo Formation/ limestone/ sandstone/ Front Range/ Colorado Plateau/
- Dunn, J. E., 1957
Marshall Pass/ ore deposits/ Saguache County/ uranium/ Gunnison County/ Chester fault/ Harding Sandstone/ igneous-metamorphic/ pegmatite/ limestone/ Belden Formation/ Leadville Limestone/
- Elmore, R. T., 1955
Gunnison County/ Jack's Cabin prospect/ sedimentary rocks/ igneous-metamorphic/ sandstone/ veins/
- Fenton, M. D., and Faure, G., 1970
Gunnison County/ Iron Hill complex/ Rb-Sr/ age determinations/ carbonatite/ alkalic complexes/ thorium/ Fremont County/ igneous-metamorphic/ McClure Mountain complex/
- Fischer, R. P., Luedke, R. G., Sheridan, M. J., and others, 1968
mineral industry/ resources/ minerals/ Ouray County/ Hinsdale County/ San Miguel County/ production/ Gunnison County/ Beth claim/ veins/ rhyolite porphyry/ black shale/ Precambrian rocks/ pitchblende/ bituminous shale/ igneous-metamorphic/ Uncompahgre primitive area/
- Fix, P. F., 1954
San Miguel River/ Montrose County/ ground water/ nonsaline waters/ analyses/ Big Springs Gulch/ Orvis Hot spring/ streams/ geochemistry/ Mesa County/ San Miguel County/ Ouray County/ Hinsdale County/ Gunnison County/ springs/ Cougar mine spring/ Maverick Mesa spring/ Cimarron Creek/ Blue Creek/ Colorado Plateau/ Calamity Mesa spring/
- Gallagher, G. L., Edmond, C. L., and D'Andrea, R. F., 1977
uranium favorability/ Gunnison County/ ore deposits/ igneous-metamorphic/
- George, R. D., Curtis, H. A., Lester, O. C., and others, 1920
Colorado Plateau/ mineralized waters/ springs/ spring deposits/ Front Range/ Jefferson County/ Pitkin County/ Pueblo County/ Garfield County/ Park County/ El Paso County/ Ouray County/ Boulder County/ Gunnison County/ Delta County/ Chaffee County/
- Gill, J. R., 1953
Colorado/ Montana/ Wyoming/ ore deposits/ carbonaceous

- rocks/ coal/ Park County/ Gunnison County/ Delta County/ Las Animas County/ El Paso County/ Teller County/ La Plata County/ Montezuma County/ Denver Basin/ Larimer County/ shale/ Crested Butte/ Laramie Formation/ Colorado Plateau/ Front Range/
- Grogan, R. M., 1959
Gunnison County/ Iron Hill/ Powderhorn/ carbonatite/ minerals/ thorium/ niobium/ igneous-metamorphic/
- Grogan, R. M., 1960
niobium/ Gunnison County/ Powderhorn/ Iron Hill/ igneous-metamorphic/ carbonatite/ minerals/ thorium/
- Gross, E. B., 1965
pitchblende/ Gunnison County/ ore deposits/ geology/ production/ geochemistry/ mineralogy/ uranium minerals/ Marshall Pass/ Saguache County/ igneous-metamorphic/
- Gruner, J. W., and Knox, J. A., 1957
Colorado/ Arizona/ Montana/ New Mexico/ South Dakota/ minerals/ uranium/ ore deposits/ mines/ San Miguel County/ Colorado Plateau/ Fremont County/ Gunnison County/ Saguache County/ volcanics/ conglomerate/ Morrison Formation/ sandstone/ siltstone/ igneous-metamorphic/ Montrose County/ Mesa County/ Moffat County/ Browns Park Formation/
- Gullotte, G. B., 1945
Gunnison County/ geology/ ore deposits/ Box Canyon mining district/ igneous-metamorphic/ microlite/ dikes/ schist/ granite/ lepidolite/ topaz/ albite/ Brown Derby pegmatite/
- Hall, C. R., 1976
alkalic/ igneous rocks/ igneous-metamorphic/ Gilpin County/ Front Range/ bibliography/ San Juan County/ Custer County/ Fremont County/ La Plata County/ Montezuma County/ Gunnison County/ Saguache County/ El Paso County/ Rio Grande County/ Jefferson County/ Larimer County/ Boulder County/ Colorado Plateau/ Clear Creek County/ Teller County/
- Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
pegmatites/ geology/ mineralogy/ Chaffee County/ Boulder County/ Clear Creek County/ Douglas County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Montrose County/ Park County/ monazite/ thorium/ production/ Front Range/ El Paso County/ igneous-metamorphic/ Colorado Plateau/ Wyoming/ Utah/ Summit County/
- Hansen, W. R., and Peterman, Z. E., 1968
geochronology/ Black Canyon of the Gunnison/ basement rocks/ Gunnison County/ igneous-metamorphic/ Montrose County/
- Harder, J. O., and Stead, F. W., 1945
Boulder County/ Gilpin County/ Gunnison County/ Mesa County/ Teller County/ ore deposits/ sandstone/ igneous-metamorphic/ reconnaissance/ Front Range/ Colorado Plateau/ Jefferson County/
- Harder, J. O., and Wyant, D. G., 1944
Central City district/ Cripple Creek/ Jamestown
- district/ Nederland district/ Boulder County/ Gilpin County/ Gunnison County/ Teller County/ Clear Creek County/ ore deposits/ igneous-metamorphic/ reconnaissance/ Precambrian rocks/ granite/ veins/ Brown Derby Pegmatite/ Calhoun mine/ Belcher mine/ trace elements/ Front Range/
- Hedlund, D. C., and Olson, J. C., 1958
Gunnison County/ ore deposits/ thorium/ veins/ Gateview quadrangle/ igneous-metamorphic/ geology/
- Hedlund, D. C., and Olson, J. C., 1961
thorium/ rare earths/ niobium/ Powderhorn district/ Colorado/ Gunnison County/ igneous rocks/ carbonatite/ monazite/ pyrochlore/ veins/ thorite/ dikes/ igneous-metamorphic/ minerals/ ore deposits/ geology/
- Hedlund, D. C., and Olson, J. C., 1973
Gunnison County/ Carpenter Ridge quadrangle/ igneous-metamorphic/ thorium/ map/ geology/ ore deposits/ Black Canyon Schist/
- Hedlund, D. C., and Olson, J. C., 1974
Gunnison County/ Saguache County/ igneous-metamorphic/ thorium/ Iris NW quadrangle/ map/ geology/ ore deposits/
- Hedlund, D. C., and Olson, J. C., 1975
geology/ Powderhorn quadrangle/ Gunnison County/ igneous-metamorphic/ ore deposits/ thorium/ map/ niobium/ carbonatite/ alkalic rocks/ Saguache County/
- Heinicke, J. H., 1960
ore deposits/ resources/ reserves/ Gunnison County/ production/ thorium/ Fremont County/ Custer County/ igneous-metamorphic/
- Heinrich, E. W., and Dahlem, D. H., 1957
Brown Derby pegmatites/ pegmatite/ Gunnison County/ monazite/ thorium/ igneous-metamorphic/ mineralogy/ niobium (columbite)/ stibiotantalite/
- Heinrich, E. W., Borup, R. A., and Levinson, A. A., 1958
thorium/ pegmatites/ monazite/ Colorado/ Brown Derby mine/ igneous-metamorphic/ analyses/ Gunnison County/ rare earth minerals/
- High, T. D., 1970
uranium/ vanadium/ mines/ sandstone/ reports/ Dolores County/ Gunnison County/ Little Indian property/ Mesa County/ Montrose County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/
- Holmes, C. N., 1950
sandstone/ Uncompahgre uplift/ tectonics/ sedimentary rocks/ Mesozoic/ Chinle Formation/ Pitkin County/ Gunnison County/ Montrose County/ Mesa County/ Delta County/ Dolores County/ Dolores Formation/ Montezuma County/ Entrada Sandstone/ stratigraphy/ Morrison Formation/ Colorado Plateau/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/

- Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ Igneous-metamorphic/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ Igneous-metamorphic/
- Keller, W. D., 1956
clay studies/ Colorado Plateau/ Jurassic rocks/ mudstone/ analyses/ Montrose County/ Gunnison County/ San Miguel County/ Sapiñero/ Slick Rock district/ sandstone/ Uravan district/ Morrison Formation/
- Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/
- Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ Archuleta County/ Ouray County/ Gunnison County/ Montrose County/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Moffat County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ regional structure/
- Kelley, V. C., 1959
structures/ fracture systems/ Colorado Plateau/ faults/ fractures/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Montezuma County/ Moffat County/ San Juan County/ Ouray County/ Delta County/ Gunnison County/ Garfield County/ La Plata County/ Rio Blanco County/
- Kelly, F. N., 1962
thorium/ Wet Mountains/ Custer County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Park County/ mineralogy/ Powderhorn district/ rare earths/ resources/ igneous-metamorphic/ Colorado/ Wyoming/ New Mexico/ economics/ Front Range/ Gilpin County/
- King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ Igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/
- Langenhelm, R. L., Jr., 1952
stratigraphy/ Crested Butte quadrangle/ Gunnison County/ Permian stratigraphy/ Maroon Formation/ sandstone/ Pennsylvanian stratigraphy/
- Larsen, E. S., 1942
Iron Hill/ Gunnison County/ geology/ alkalic rocks/ petrology/ igneous-metamorphic/
- Larsen, E. S., and Cross, C. W., 1956
geology/ petrology/ San Juan region/ Colorado Plateau/ igneous-metamorphic/ Montrose County/ Ouray County/ San Miguel County/ Dolores County/ La Plata County/ Gunnison County/ Hinsdale County/ Archuleta County/ Mineral County/ Saguache County/ Conejos County/ Alamosa County/ San Juan County/ Montezuma County/ Rio Grande County/
- Lovering, T. G., and Beroni, E. P., 1956
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive ilmonite/ Lucky Break Iron mine/ sandstone/ thorium/ uranium/ spring deposits/ Front Range/ conglomerate/ limestone/ tufa/ analyses/ igneous-metamorphic/ ore deposits/ El Paso County/
- Lovering, T. G., and Beroni, E. P., 1959
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive ilmonite/ Lucky Break Iron mine/ thorium/ uranium/ spring deposits/ Front Range/ sandstone/ conglomerate/ limestone/ tufa/ El Paso County/ igneous-metamorphic/ ore deposits/
- Malan, R. C., 1969
Intermontane basins/ North Park/ Tertiary/ Middle Park/ South Park/ Raton basin/ Tallahassee Creek district/ sandstone/ ore deposits/ Grand County/

- Teller County/ Park County/ arkose/ Fremont County/ mudstone/ Huerfano County/ conglomerate/ genesis/ geology/ Gunnison County/ Saguache County/ exploration/ water sampling/ Wet Mountains/ High Park/ Cochetopa district/ Marshall Pass/ Thirty-nine Mile field/
- Malan, R. C., and Ranspot, H. W., 1959
Cochetopa district/ ore deposits/ areal geology/ resources/ reserves/ Saguache County/ Gunnison County/ uranium/ pitchblende/ igneous-metamorphic/
- Maxwell, J. C., 1977
San Juan Mountains/ geology/ Archuleta County/ hydrogeochemistry/ stream sediments/ stream waters/ ground waters/ Storm King Mountain/ Vallecito Creek/ Montrose County/ Gunnison County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ San Juan County/ Ouray County/ Hinsdale County/ Mineral County/
- McCarn, D. W., and Freeman, R. W., 1976
ground water/ surface water/ United States/ uranium/ chemical analyses/ Colorado/ Front Range/ Jefferson County/ Chaffee County/ Fremont County/ Gunnison County/ Huerfano County/ Saguache County/ Park County/ Colorado Plateau/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/
- Moore, G. W., 1953
Boulder County/ Centennial coal mine/ Crested Butte/ Rio Blanco County/ uranium/ coal/ Gunnison County/ aqueous solutions/ uranium extraction/ Kebler mine/
- Moore, G. W., 1954
uranium extraction/ uranium/ coal/ Boulder County/ Centennial coal mine/ Crested Butte/ Kebler mine/ Rio Blanco County/ Gunnison County/ aqueous solutions/
- Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/
- Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/
- Nash, W. P., 1970
mineralogy/ petrology/ Iron Hill complex/ carbonatite/ Powderhorn district/ Gunnison County/ thorium/ geothermometry/ igneous-metamorphic/
- Nash, W. P., 1972
mineralogy/ petrology/ Iron Hill complex/ carbonatite/ Powderhorn district/ Gunnison County/ thorium/ geothermometry/ igneous-metamorphic/
- Olson, J. C., 1953
Powderhorn district/ Gunnison County/ thorium/ monazite/ igneous-metamorphic/ Little Johnny vein/ reserves/ ore deposits/
- Olson, J. C., 1953
Powderhorn district/ igneous-metamorphic/ thorium/ Gunnison County/ monazite/ ore deposits/ exploration/
- Olson, J. C., 1953
Gunnison County/ Powderhorn district/ Little Johnny deposit/ ore deposits/ thorium/ augite syenite/ shonkinite/ Iron Hill complex/ Lot mine/ igneous-metamorphic/
- Olson, J. C., 1973
geology/ Rudolph Hill quadrangle/ map/ Gunnison County/ thorium/ ore deposits/ Hinsdale County/ Saguache County/ igneous-metamorphic/
- Olson, J. C., 1974
map/ geology/ Rudolph Hill quadrangle/ Gunnison County/ thorium/ ore deposits/ Saguache County/ Hinsdale County/ igneous-metamorphic/
- Olson, J. C., 1975
uranium/ ore deposits/ Cochetopa district/ Oligocene erosion surface/ Gunnison County/ sandstone/ Saguache County/ volcanics/ veins/ igneous-metamorphic/
- Olson, J. C., 1975
Iris quadrangle/ map/ geology/ Gunnison County/ Saguache County/ uranium/ igneous-metamorphic/ ore deposit/
- Olson, J. C., 1975
Houston Gulch quadrangle/ geology/ map/ Gunnison County/ Saguache County/ igneous-metamorphic/ ore deposits/
- Olson, J. C., 1976
geology/ ore deposits/ Houston Gulch quadrangle/ Gunnison County/ igneous-metamorphic/ Saguache County/
- Olson, J. C., 1976
Cochetopa district/ uranium/ geomorphology/ ore deposits/ igneous-metamorphic/ Saguache County/ Gunnison County/ Oligocene erosion surface/
- Olson, J. C., 1976
Iris quadrangle/ map/ geology/ Gunnison County/ uranium/ igneous-metamorphic/ ore deposits/ Saguache County/
- Olson, J. C., 1977
uranium/ Pitch mine/ Gunnison County/ Saguache

- County/ Chaffee County/ map/ igneous-metamorphic/ limestone/ shale/ ore deposits/ geology/
- Olson, J. C., and Adams, J. W., 1962
thorium/ rare earths/ United States/ Colorado/ igneous-metamorphic/ Gunnison County/ Fremont County/ Custer County/ Larimer County/ Gilpin County/ Montezuma County/ Moffat County/ El Paso County/
- Olson, J. C., and Hedlund, D. C., 1956
Gunnison County/ Powderhorn district/ ore deposits/ exploration/ thorium/ alkalic igneous rocks/ Sapinero Mesa/ igneous-metamorphic/
- Olson, J. C., and Hedlund, D. C., 1957
Gunnison County/ Gateview quadrangle/ ore deposits/ exploration/ investigations/ thorium/ veins/ igneous-metamorphic/
- Olson, J. C., and Hedlund, D. C., 1957
Gunnison County/ ore deposits/ exploration/ investigations/ thorium/ veins/ igneous-metamorphic/
- Olson, J. C., and Hedlund, D. C., 1958
Gunnison County/ Cebolla quadrangle/ ore deposits/ exploration/ investigations/ thorium/ igneous-metamorphic/ veins/ alkalic igneous rocks/ Powderhorn district/ Gateview district/ Iron Hill complex/ carbonatite/
- Olson, J. C., and Hedlund, D. C., 1973
geology/ Gateview quadrangle/ Gunnison County/ ore deposits/ igneous-metamorphic/ thorium/
- Olson, J. C., and Overstreet, W. C., 1964
thorium/ igneous-metamorphic/ veins/ resources/ alkalic rocks/ bostonite/ Gunnison County/ Saguache County/ Hinsdale County/ ore deposits/
- Olson, J. C., and Wallace, S. R., 1953
Gunnison County/ Powderhorn district/ ore deposits/ titanium/ veins/ igneous-metamorphic/ Little Johnny deposit/ thorite/ thorium/
- Olson, J. C., and Wallace, S. R., 1954
ore deposits/ igneous-metamorphic/ geology/ Gunnison County/ Powderhorn district/ stratigraphy/ thorium/ rare earths/ Iron Hill complex/ mineralogy/ petrology/ geochemistry/ Little Johnny deposit/ thorite/ veins/ xenotime/ alkalic igneous rocks/ carbonate veins/ marble/
- Olson, J. C., and Wallace, S. R., 1956
Powderhorn district/ Gunnison County/ thorium/ rare earths/ veins/ igneous-metamorphic/ minerals/ ore deposits/
- Olson, J. C., Butler, A. P., Jr., Finch, W. I., and Fischer, R. P., 1973
resources/ uranium/ thorium/ production/ exploration/ veins/ sandstone/ San Miguel County/ Colorado Plateau/ Gunnison County/ Saguache County/
- Olson, J. C., Hedlund, D. C., and Hansen, W. R., 1958
Powderhorn district/ Black Canyon region/ Gunnison County/ Montrose County/ volcanics/ stratigraphy/ petrology/ Tertiary/ igneous-metamorphic/ Colorado Plateau/
- Olson, J. C., Marvin, R. F., Parker, R. L., and Mennert, H. H., 1977
thorium/ alkalic rocks/ age dating/ carbonatite/ Gunnison County/ Saguache County/ Custer County/ Fremont County/ tectonics/ igneous-metamorphic/ mafic rocks/ Paleozoic/ veins/
- Page, L. R., 1950
Mount Antero region/ Crystal Mountain district/ San Juan Mountains/ Chaffee County/ Larimer County/ helvite/ pegmatites/ beryllium/ beryl/ Colorado Plateau/ igneous-metamorphic/ Devils Hole mine/ Fremont County/ Gunnison County/ Jefferson County/ San Juan County/ Front Range/ aquamarine/
- Page, L. R., 1950
beryllium/ beryl/ Colorado Plateau/ pegmatites/ Larimer County/ igneous-metamorphic/ San Juan County/ Devils Hole mine/ Fremont County/ Gunnison County/ Jefferson County/ Mount Antero/ Chaffee County/ aquamarine/ Front Range/ Crystal Mountain district/
- Page, L. R., 1950
pegmatite/ geochemistry/ igneous-metamorphic/ uranium/ mineralogy/ Gunnison County/ Larimer County/ Chaffee County/ Fremont County/ Front Range/
- Page, L. R., Stocking, H. E., and Smith, H. B., compilers, 1956
Colorado Plateau/ Front Range/ Gunnison County/ limestone/ Montrose County/ Jefferson County/ arkosa/ sandstone/ shale/ geology/ uranium/ thorium/ exploration/ igneous-metamorphic/ San Miguel County/ geochemistry/ mineralogy/ conglomerate/
- Pierson, C. T., Singewald, Q. D., and Dings, M. G., 1953
Colorado mineral belt/ ore deposits/ exploration/ St. Kevin district/ Summit County/ Chaffee County/ Gunnison County/ Glacier Mountain/ Alma district/ Lake County/ igneous-metamorphic/ Park County/
- Raines, G. L., 1971
Gunnison County/ Saguache County/ sandstone/ limestone/ shale/ igneous-metamorphic/ Sargents area/ geology/ veins/
- Ranspot, H. W., 1958
Indian Creek area/ ore deposits/ geology/ Gunnison County/ Saguache County/ uranium/ shale/ sandstone/ limestone/ igneous-metamorphic/ limestone/ Pitch mine/
- Ranspot, H. W., and Spengler, R. G., 1957
uranium/ ore deposits/ radioactivity/ stratigraphy/ geology/ exploration/ Marshall Pass area/ Gunnison County/ Saguache County/ igneous-metamorphic/ sandstone/ limestone/ Pitch mine/
- Rich, R. A., Holland, H. D., and Peterson, U., 1975
veins/ uranium/ ore deposits/ igneous-metamorphic/ mineralogy/ fluid inclusions/ paragenesis/ hydrothermal/ pitchblende/ ground water/ Front Range/ Jefferson County/ Clear Creek County/ Gilpin County/ Gunnison

- County/ Saguache County/ Marshall Pass district/ Schwartzwalder mine/
- Spengler, R. G., Ranspot, H. W., and Smith, B. C., 1957
uranium/ore deposits/ aerial prospecting/ aerial monitoring/ radioactivity/ stratigraphy/ geology/ statistics/ reconnaissance/ Tomich dome/ Gunnison County/
- Staatz, M. H., 1964
ore deposits/ resources/ thorium/ Custer County/ Fremont County/ Gunnison County/ Igneous-metamorphic/
- Staatz, M. H., 1973
veins/ thorium/ Igneous-metamorphic/ Custer County/ Fremont County/ Gunnison County/
- Staatz, M. H., 1974
ore deposits/ veins/ mineralogy/ geochemistry/ minerals/ thorite/ monazite/ genesis/ controls/ ore controls/ structural controls/ thorium/ Igneous-metamorphic/ Wet Mountains/ Powderhorn district/ Gunnison County/ carbonatite/ alkaline complexes/ Custer County/ Fremont County/
- Staatz, M. H., 1975
thorium/ ore deposits/ Igneous-metamorphic/ Custer County/ Fremont County/ Gunnison County/ deposits/ Colorado/ Igneous-metamorphic/ sandstone/ Front Range/
- Staatz, M. H., 1976
thorium/ Igneous-metamorphic/ alkaline igneous rocks/ Fremont County/ Custer County/ Gunnison County/
- Staatz, M. H., 1976
thorium/ resources/ Igneous-metamorphic/ Custer County/ Fremont County/ Gunnison County/ Front Range/
- Staatz, M. H., and Olson, J. C., 1973
thorium/ Igneous-metamorphic/ resources/ Custer County/ Fremont County/ Gunnison County/
- Staatz, M. H., and Trites, A. F., Jr., 1952
Front Range/ granite/ pegmatites/ Igneous-metamorphic/ geology/ structure/ mineralogy/ Gunnison County/ Wood Gulch/ Gulch/ beryllium/ petrology/ geochemistry/ minerals/ allanite/ monazite/ pyrochlore-microlite/ Brown Derby claim/ Black Wonder claim/ Beryl and Rare Minerals Lode claim/ Buckhorn mica mine/ Bucky claim/ Opportunity No. 1 claim/ Trio claims/ White Spar claim/ Quartz Creek district/ uranium/ thorium/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/
- Staatz, M. H., and Trites, A. F., Jr., 1955
Front Range/ granite/ pegmatites/ Igneous-metamorphic/ geology/ structure/ mineralogy/ Gunnison County/ Wood Gulch/ beryllium/ petrology/ geochemistry/ minerals/ gneiss/ allanite/ monazite/ pyrochlore-microlite/ uranium/ thorium/ origin/ Black Wonder claim/ Brown Derby claim/ Buckhorn mica mine/ Bucky claim/ Opportunity No. 1 claim/ Trio claims/ White Spar claim/ Quartz Creek district/ Beryl and Rare Minerals Lode claim/
- Stokes, W. L., 1944
Morrison Formation/ Colorado Plateau/ sandstone/ stratigraphy/ correlation/ Garfield County/ Mesa County/ Delta County/ Gunnison County/ Montrose County/ Ouray County/ Dolores County/ Hinsdale County/ Archuleta County/ Montezuma County/ La Plata County/ ore deposits/ San Juan County/
- Temple, A. K., and Grogan, R. M., 1963
Gunnison County/ Powderhorn district/ carbonatite/ pyroxenite/ alkaline rocks/ Igneous-metamorphic/ niobium/ Iron Hill/ thorium/ columbium/
- Temple, A. K., and Grogan, R. M., 1963
carbonatite/ alkaline complex/ Powderhorn district/ Igneous-metamorphic/ thorium/ veins/ alkaline rocks/ Iron Hill/ Gunnison County/ niobium/
- Temple, A. K., and Grogan, R. M., 1965
carbonatite/ alkaline complex/ Igneous-metamorphic/ Powderhorn district/ Gunnison County/ thorium/ veins/ geochemistry/ petrology/ Iron Hill/ niobium/ alkaline rocks/
- Twenhofel, W. S., and Buck, K. L., 1956
thorium/ Powderhorn district/ Gunnison County/ veins/ Custer County/ Fremont County/ Colorado/ Idaho/ Wyoming/ Precambrian rocks/ Montana/ California/ geology/ New Mexico/ Wisconsin/ New York/ Michigan/ Wet Mountains/ ore deposits/ Igneous-metamorphic/
- Twenhofel, W. S., and Buck, K. L., 1956
geology/ thorium/ Powderhorn district/ Gunnison County/ Wet Mountains/ Custer County/ Fremont County/ veins/ Precambrian rocks/ Colorado/ Wyoming/ Idaho/ Montana/ California/ New Mexico/ Wisconsin/ New York/ Michigan/ ore deposits/ Igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Gunnison County/ reconnaissance/ ore deposits/ veins/ Igneous-metamorphic/
- U.S. Department of Energy, 1977
engineering assessment/ inactive uranium mill tailings/ Gunnison site/ Gunnison County/
- U.S. Geological Survey, 1953
geology/ San Miguel County/ Uravan district/ sandstone/ Colorado Plateau/ Powderhorn district/ Igneous-metamorphic/ exploration/ Slick Rock district/ Gypsum Valley district/ Morrison Formation/ Gateway district/ Mesa County/ Montrose County/ Dolores County/ Spud Patch area/ Legler group/ Monogram Mesa/ Club Mesa/ carnotite/ ore deposits/ Gunnison County/
- U.S. Geological Survey, 1953
sandstone/ Colorado Plateau/ Front Range/ veins/ Igneous-metamorphic/ thorium/ Powderhorn district/ natural waters/ Morrison Formation/ Mesa County/ San Miguel County/ Dolores County/ Gilpin County/ San Juan County/ La Plata County/ Ouray County/ geology/ Gunnison County/ Montrose County/ San Juan Mountains/ Clear Creek County/ ore deposits/ geology/

GUNNISON COUNTY

HINSDALE COUNTY

- U.S. Geological Survey, 1953
geologic mapping/ Colorado Plateau/ Front Range/
carbonaceous rocks/ geochemistry/ reconnaissance/
black shales/ sandstone/ igneous-metamorphic/
geology/ ore deposits/ Gilpin County/ Clear
Creek County/ Jefferson County/ Montrose County/
Mesa County/ San Miguel County/ Gunnison County/
- U.S. Geological Survey, 1953
Colorado Plateau/ Front Range/ sandstone/ coal/
springs/ igneous-metamorphic/ shale/ Gilpin
County/ Clear Creek County/ Jefferson County/
Boulder County/ Custer County/ thorium/ Gunnison
County/ La Plata County/ San Juan County/ Ouray
County/
- Wallace, S. R., and Olson, J. C., 1956
Powderhorn district/ thorium/ Gunnison County/
Iron Hill/ carbonatite/ igneous-metamorphic/
geology/ mineralogy/ analyses/ ore deposits/
alkalic igneous rocks/
- Wallace, S. R., and Olson, J. C., 1956
Gunnison County/ Powderhorn district/ ore deposits/
thorium/ alkalic igneous rocks/ Iron Hill/ carbonatite/
igneous-metamorphic/ geology/ mineralogy/ analyses/
- Wemlinger, C. A., 1950
Gunnison County/ Willow Creek/ pegmatites/ igneous-metamorphic/
beryl/ mica/ ore deposits/ rare earth minerals/

HINSDALE COUNTY

- Baltz, E. H., Jr., 1955
Colorado/ New Mexico/ ore deposits/ exploration/
carbonaceous rocks/ sandstone/ Mesa County/
Delta County/ Montrose County/ Gunnison County/
Ouray County/ San Miguel County/ Hinsdale County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ coal/ shale/ reconnaissance/
Colorado Plateau/
- Coats, R. R., 1956
felsic volcanic rocks/ igneous-metamorphic/
uranium/ trace elements/ Cenozoic/ genesis/
Gunnison County/ Pitkin County/ Lake County/
Park County/ Chaffee County/ Ouray County/ Saguache
County/ Hinsdale County/
- Coats, R. R., 1956
uranium/ trace elements/ felsic volcanic rocks/
Cenozoic/ genesis/ igneous-metamorphic/ Gunnison
County/ Pitkin County/ Lake County/ Park County/
Chaffee County/ Ouray County/ Saguache County/
Hinsdale County/
- Fischer, R. P., Luedke, R. G., Sheridan, M. J.,
and others, 1968
mineral industry/ resources/ minerals/ Ouray
County/ Hinsdale County/ San Miguel County/
production/ Gunnison County/ Beth claim/ veins/
rhyolite porphyry/ black shale/ Precambrian rocks/
pitchblende/ bituminous shale/ igneous-metamorphic/
Uncompahgre primitive area/
- Fix, P. F., 1954
San Miguel River/ Montrose County/ ground water/
nonsaline waters/ analyses/ Big Springs Gulch/

- Orvis Hot spring/ streams/ geochemistry/ Mesa
County/ San Miguel County/ Ouray County/ Hinsdale
County/ Gunnison County/ springs/ Cougar mine
spring/ Maverick Mesa spring/ Cimarron Creek/
Blue Creek/ Colorado Plateau/ Calamity Mesa
spring/
- Gottfried, David, 1958
San Juan Mountains/ ore deposits/ exploration/
igneous-metamorphic/ volcanics/ Iceland/ New
Jersey/ Oregon/ Hinsdale Formation/ Potosi volcanic
series/ Ouray County/ Hinsdale County/ San Juan
County/
- Irving, J. D., and Bancroft, H., 1911
geology/ ore deposits/ igneous-metamorphic/
Hinsdale County/ San Juan Mountains/ production/
volcanic rocks/ Lake City area/
- Larsen, E. S., and Cross, C. W., 1956
geology/ petrology/ San Juan region/ Colorado
Plateau/ igneous-metamorphic/ Montrose County/
Ouray County/ San Miguel County/ Dolores County/
La Plata County/ Gunnison County/ Hinsdale County/
Archuleta County/ Mineral County/ Saguache County/
Conejos County/ Alamosa County/ San Juan County/
Montezuma County/ Rio Grande County/
- Larsen, E. S., and Phair, George, 1954
uranium/ thorium/ igneous-metamorphic/ Front
Range/ dikes/ stocks/ minerals/ porphyry/ San
Juan Mountains/ calc-alkalic rocks/ San Juan
County/ Ouray County/ Hinsdale County/ Cripple
Creek/ Teller County/ quartz-bostonite/ geochemistry/
- Larsen, E. S., Gottfried, David, and Molloy, Marjorie,
1958
San Juan Mountains/ ore deposits/ Ouray County/
volcanic rocks/ San Juan County/ Hinsdale County/
igneous-metamorphic/
- Maxwell, J. C., 1977
San Juan Mountains/ geology/ Archuleta County/
hydrogeochemistry/ stream sediments/ stream
waters/ ground waters/ Storm King Mountain/
Vallecito Creek/ Montrose County/ Gunnison County/
San Miguel County/ Dolores County/ Montezuma
County/ La Plata County/ San Juan County/ Ouray
County/ Hinsdale County/ Mineral County/
- Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/
Colorado Plateau/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ La Plata County/ Moffat County/ Garfield
County/ Delta County/ San Juan County/ Eagle
County/ Pitkin County/ Gunnison County/ Ouray
County/ Hinsdale County/ Archuleta County/ genesis/
ore deposits/ Morrison Formation/ Rio Blanco
County/
- Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San
Juan County/ Morrison Formation/ stratigraphy/
Colorado Plateau/ Moffat County/ Rio Blanco
County/ Garfield County/ Eagle County/ Mesa
County/ Delta County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ La
Plata County/ genesis/ ore deposits/ Pitkin

HINSDALE COUNTY

County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/

Olson, J. C., 1973

geology/ Rudolph Hill quadrangle/ map/ Gunnison County/ thorium/ ore deposits/ Hinsdale County/ Saguache County/ Igneous-metamorphic/

Olson, J. C., 1974

map/ geology/ Rudolph Hill quadrangle/ Gunnison County/ thorium/ ore deposits/ Saguache County/ Hinsdale County/ Igneous-metamorphic/

Olson, J. C., and Overstreet, W. C., 1964

thorium/ Igneous-metamorphic/ veins/ resources/ alkalic rocks/ bostonite/ Gunnison County/ Saguache County/ Hinsdale County/ ore deposits/

Pierson, C. T., 1953

San Juan Mountains/ San Juan County/ La Plata County/ Ouray County/ Dolores County/ Bonanza district/ Saguache County/ Mineral County/ Hinsdale County/ La Plata district/ Upper Uncompahgre district/ Colorado Plateau/ Igneous-metamorphic/

Pierson, C. T., Weeks, W. F., and Kleinhampl, F. J., 1958

San Juan Mountains/ reconnaissance/ mining districts/ radioactivity/ Igneous-metamorphic/ San Juan County/ Ouray County/ San Miguel County/ La Plata County/ Hinsdale County/ Mineral County/ Saguache County/

Sharp, R. R., Jr., Morris, W. A., and Aamodt, P. L., 1976

Alaska/ Colorado/ Montana/ New Mexico/ exploration/ research programs/ sample preparation/ sampling/ sediments/ uranium/ water/ Wyoming/ analyses/ surface water/ ground water/ stream sediments/ hydrogeochemistry/ South Park/ Park County/ Hinsdale County/ San Juan County/

Steven, T. A., Lipman, P. W., Fisher, F. S., and others, 1973

San Juan Mountains/ mineral resources/ uranium/ Lake City/ Hinsdale County/ Igneous-metamorphic/ Uncompahgre primitive area/

Steven, T. A., Schmitt, L. J. Jr., Sheridan, M. J., and Williams, F. E., 1969

minerals/ resources/ San Juan primitive area/ Iron/ Irving Formation/ Igneous-metamorphic/ La Plata County/ San Juan County/ Hinsdale County/ Mineral County/ Elk Park area/ metasediments/

Stokes, W. L., 1944

Morrison Formation/ Colorado Plateau/ sandstone/ stratigraphy/ correlation/ Garfield County/ Mesa County/ Delta County/ Gunnison County/ Montrose County/ Ouray County/ Dolores County/ Hinsdale County/ Archuleta County/ Montezuma County/ La Plata County/ ore deposits/ San Juan County/

U.S. Atomic Energy Commission, 1966

geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Hinsdale County/ reconnaissance/ ore deposits/ San Juan Mountains/ Igneous-metamorphic/

HUERFANO COUNTY

HUERFANO COUNTY

Anonymous, 1913

carnotite/ Long Park/ Montrose County/ Colorado Plateau/ Huerfano County/ sandstone/ San Juan region/

Bachman, G. O., and Read, C. B., 1952

New Mexico/ reconnaissance/ Huerfano County/ sandstone/ volcanics/ igneous-metamorphic/ shale/ Colorado/

Baltz, E. H., Jr., 1954

Colorado/ New Mexico/ ore deposits/ exploration/ Archuleta County/ Huerfano County/ radioactive deposits/ carbonaceous shale/ sandstone/ copper/ limestone/ Sangre de Cristo Formation/ Wanakah Formation/ tuff/ Wet Mountains/ Mesaverde Formation/

Baltz, E. H., Jr., 1955

Colorado/ New Mexico/ Huerfano Park/ Spanish Peaks/ ore deposits/ exploration/ Huerfano County/ sandstone/ volcanic/ Igneous-metamorphic/

Boyer, R. E., 1961

Badito Cone/ zirconium/ phonolite/ Huerfano County/ Dakota Sandstone/ Morrison Formation/ Stumbling Stud claims/ Wet Mountains/ Pueblo County/ sandstone/ fluorite/ thorium/ uranium/ cement/ rhyolite/ Igneous-metamorphic/

Brown, L. J., and Easton, W. W., 1955

ore deposits/ reconnaissance/ airborne/ Huerfano Embayment/ intrusives/ volcanics/ Las Animas Arch/ La Veta Pass area/ Huerfano County/ Las Animas County/ Otero County/ Costilla County/ Pueblo County/ Crowley County/ Kiowa County/ Bent County/ Prowers County/ Baca County/ sandstone/ shale/ claystone/ Igneous-metamorphic/

Brown, L. J., and Malan, R. C., 1954

ore deposits/ exploration/ Sangre de Cristo/ reconnaissance/ province/ Canyon City embayment/ City Slicker mine/ Igneous-metamorphic/ El Paso County/ Las Animas County/ La Veta Pass/ Alamosa County/ Costilla County/ sandstone/ Fremont County/ Huerfano County/ Pueblo County/ Rio Grande County/ Saguache County/ Teller County/ Dakota Sandstone/ Morrison Formation/ Cripple Creek - Victor district/

Burnside, S. S., and Wenrich-Verbeek, K. J., 1976

Colorado/ New Mexico/ surface water/ stream sediments/ Arizona/ analyses/ Douglas County/ exploration/ Huerfano County/ Summit County/ sampling techniques/ San Juan County/

Cross, C. W., 1915

Pueblo County/ Las Animas County/ Huerfano County/ petrology/ dike rocks/ Igneous-metamorphic/ Apishapa quadrangle/

Duncan, D. C., compiler, 1953

ore deposits/ black shale/ Weber Formation/ exploration/ shale/ reconnaissance/ Belden Formation/ Paradox Member/ Eagle County/ Garfield County/

Gunnison County/ Hermosa Formation/ San Juan County/ La Plata County/ Lake County/ Pony Express Limestone Member/ Ouray County/ Dakota Sandstone/ Archuleta County/ Pierre Shale/ Las Animas County/ Huerfano County/ Vermejo Formation/ limestone/ sandstone/ Front Range/ Colorado Plateau/

Emerson, J. F., 1943

vanadium/ uranium/ sandstone/ Huerfano County/ Costilla County/ Huerfano Park district/ Raton basin/

Finch, W. I., 1956

uranium/ terrestrial sedimentary rocks/ Maroon Formation/ sandstone/ Sangre de Cristo Formation/ Cucharas district/ Huerfano County/ Park County/ Garo deposit/ vanadium/ carnotite/ tyuyamunite/

Finch, W. I., 1956

uranium/ terrestrial sedimentary rocks/ Maroon Formation/ sandstone/ Sangre de Cristo Formation/ Cucharas district/ Huerfano County/ Park County/ Garo deposit/ vanadium/ carnotite/ tyuyamunite/

Finch, W. I., 1967

Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952

Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952

Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/

King, R. U., 1951

reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/

veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1952

Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1953

Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/

Malan, R. C., 1969

Intermontane basins/ North Park/ Tertiary/ Middle Park/ South Park/ Raton basin/ Tallahassee Creek district/ sandstone/ ore deposits/ Grand County/ Teller County/ Park County/ arkose/ Fremont County/ mudstone/ Huerfano County/ conglomerate/ genesis/ geology/ Gunnison County/ Saguache County/ exploration/ water sampling/ Wet Mountains/ High Park/ Cochetopa district/ Marshall Pass/ Thirtynine Mile field/

Malan, R. C., 1969

genesis/ ore deposits/ Tertiary/ Intermontane basins/ geology/ uranium/ minerals/ sediments/ stratigraphy/ sandstone/ Middle Park/ South Park/ Raton basin/ Thirtynine Mile volcanic field/ Tallahassee Creek district/ Jackson County/ Grand County/ Park County/ Fremont County/ Huerfano County/ Custer County/

McCarn, D. W., and Freeman, R. W., 1976

ground water/ surface water/ United States/ uranium/ chemical analyses/ Colorado/ Front Range/ Jefferson County/ Chaffee County/ Fremont County/ Gunnison County/ Huerfano County/ Saguache County/ Park County/ Colorado Plateau/

Moore, R. B., 1913

ore deposits/ carnotite/ Colorado/ Utah/ mining/ uranium/ radium/ vanadium/ North Carolina/ marketing/ San Miguel County/ Montrose County/ Mesa County/ Gilpin County/ pitchblende/ Huerfano County/ Colorado Plateau/ Front Range/ sandstone/

Scott, R. C., and Barker, F. B., 1962

data/ uranium/ radium/ ground water/ analyses/ Logan County/ Phillips County/ Prowers County/

HUERFANO COUNTY

Yuma County/ Jefferson County/ Garfield County/
Kit Carson County/ Pitkin County/ Mesa County/
Huerfano County/ Baca County/ Montezuma County/
Front Range/ Colorado Plateau/

Simon, M. R., 1956

ore deposits/ Huerfano County/ Raton basin/
Fremont County/ Custer County/ Las Animas County/
sandstone/ Costilla County/ uranium/ geology/
arkose/

U.S. Atomic Energy Commission, 1966

geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Huerfano County/ reconnaissance/
ore deposits/ sandstone/

Wenrich-Verbeek, K. J., 1976

surface waters/ stream sediments/ exploration/
analyses/ ore deposits/ San Juan County/ Summit
County/ Huerfano County/

JACKSON COUNTY

Carter, W. D., and Gualtieri, J. L., 1958

map/ tectonics/ Colorado/ Utah/ Moffat County/
Logan County/ geology/ Larimer County/ Jackson
County/ Boulder County/ Jefferson County/ Clear
Creek County/ Gilpin County/ Summit County/
Grand County/ Eagle County/ Routt County/ Garfield
County/ Rio Blanco County/ sandstone/ ore deposits/
igneous-metamorphic/

Finch, W. I., 1967

Colorado Plateau/ Front Range/ igneous-metamorphic/
geology/ Larimer County/ Jackson County/ Routt
County/ Moffat County/ Garfield County/ Grand
County/ Eagle County/ Boulder County/ Jefferson
County/ Park County/ Mesa County/ Montrose County/
El Paso County/ San Miguel County/ Bent County/
Park County/ Saguache County/ Pueblo County/
Dolores County/ Las Animas County/ Huerfano
County/ Costilla County/ Custer County/ San
Juan County/ La Plata County/ Montezuma County/

Kehn, T. M., 1955

bibliography/ geology/ shale/ uranium/ coal/
lignite/ Leyden Coal mine/ Jefferson County/
carnotite/ Moffat County/ gilsonite/ Jackson
County/ Front Range/ ore deposits/ Great Plains/

Kehn, T. M., 1957

ore deposits/ coal/ shale/ lignite/ Great Plains/
bibliography/ uranium/ geology/ Jefferson County/
carnotite/ Moffat County/ gilsonite/ Jackson
County/ Front Range/ Leyden coal mine/

Malan, R. C., 1956

uranium/ fluorite/ mineralization/ stratigraphy/
geology/ Jackson County/ igneous-metamorphic/
ore deposits/

Malan, R. C., 1957

uranium/ mineralization/ surface waters/ meteoric
waters/ geochemistry/ radiometric analysis/
chemical analysis/ carbonates/ carbon dioxide/
geology/ peat beds/ Spring claims/ organics/
Jackson County/ spring deposits/

JACKSON COUNTY

Malan, R. C., 1957

North Park/ Middle Park/ ore deposits/ Grand
County/ igneous-metamorphic/ Jackson County/
Routt County/ peat/ sandstone/ Pedad claims/
Northgate district/ Beaver Creek area/ Troublesome
Creek area/ Rabbit Ears Pass area/

Malan, R. C., 1969

genesis/ ore deposits/ Tertiary/ intermontane
basins/ geology/ uranium/ minerals/ sediments/
stratigraphy/ sandstone/ Middle Park/ South
Park/ Raton basin/ Thirtynine Mile volcanic
field/ Tallahassee Creek district/ Jackson County/
Grand County/ Park County/ Fremont County/ Huerfano
County/ Custer County/

Osterwald, F. W., 1956

Cordilleran foreland/ Clear Creek County/ Jefferson
County/ ore deposits/ Routt County/ Jackson
County/ El Paso County/ Park County/ Grand County/
Front Range/ igneous-metamorphic/ Larimer County/
Eagle County/ Summit County/ Fremont County/
Saguache County/ Teller County/ Chaffee County/
tectonics/ Gilpin County/ Pueblo County/ Custer
County/ Precambrian/ genesis/ structures/

Osterwald, F. W., and Dean, B. G., 1956

bibliography/ structural geology/ Gilpin County/
Larimer County/ Boulder County/ Jefferson County/
Clear Creek County/ igneous-metamorphic/ sandstone/
Front Range/ Grand County/ Jackson County/ Summit
County/ Eagle County/ Rio Blanco County/ Garfield
County/ Routt County/ Moffat County/ ore deposits/
tectonics/

Osterwald, F. W., and Dean, B. G., 1958

ore deposits/ tectonics/ structural geology/
Larimer County/ Boulder County/ Jefferson County/
Gilpin County/ Clear Creek County/ igneous-metamorphic/
sandstone/ Front Range/ Grand County/ Jackson
County/ Summit County/ Eagle County/ Rio Blanco
County/ Garfield County/ Routt County/ Moffat
County/

Pipiringos, G. N., Hall, W. J., Jr., and Izett,
G. A., 1969

Routt County/ Jackson County/ Chinle Formation/
Sundance Formation/ Park Range/ sandstone/ siltstone/
Triassic/ Jurassic/

Schlottmann, J. D., 1957

uranium/ ore deposits/ stratigraphy/ mineralization/
geology/ lithology/ Alaska Humes claims/ Grand
County/ Jackson County/ sandstone/ Dakota Sandstone/
carnotite/ Rabbit Ears Pass area/

U.S. Atomic Energy Commission, 1966

geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Jackson County/ reconnaissance/
ore deposits/ igneous-metamorphic/ spring deposits/
sandstone/

Vine, J. D., and Flege, R. F., Jr., 1953

ore deposits/ exploration/ carbonaceous rocks/
Colorado/ Utah/ Idaho/ Wyoming/ coal/ Moffat
County/ Garfield County/ Eagle County/ Mesa
County/ Colorado Plateau/ sandstone/ coal/ shale/
Jackson County/ Montrose County/

JACKSON COUNTY

JEFFERSON COUNTY

Vine, J. D., and Moore, G. W., 1952
Middle Park/ North Park/ Grand County/ Jackson County/ Moffat County/ Rio Blanco County/ Routt County/ coal/ carbonaceous rocks/ Wyoming/ occurrences/ Idaho/ Colorado/ Colorado Plateau/ ore deposits/ sandstone/

Winterhalder, E. C., 1953
veins/ reconnaissance/ North Park/ Jackson County/ uranium/ Sheep Mountain prospect/ Pedad prospect/ Igneous-metamorphic/ fluorite/ ore deposits/ Dakota Sandstone/ sandstone/ conglomerate/ chert/ breccia breccia zones/ geology/ Precambrian rocks/

JEFFERSON COUNTY

Adams, J. W., 1953
Jefferson County/ ore deposits/ distribution/ gneiss/ genesis/ wallrock alteration/ Golden Gate Canyon/ Ralston Creek/ Igneous-metamorphic/ Front Range/

Adams, J. W., 1953
Jefferson County/ ore deposits/ distribution/ uranium/ genesis/ wall rocks/ Golden Gate Canyon/ Ralston Buttes/ Schwartz mine (Schwartzwalder Mine)/ Igneous-metamorphic/ Front Range/

Adams, J. W., 1954
Jefferson County/ ore deposits/ distribution/ genesis/ wallrock alteration/ uranium/ paragenesis/ Golden Gate Canyon/ Ralston Creek area/ hornblende gneiss/ Igneous-metamorphic/ Idaho Springs Formation/ copper/ Union Pacific prospect/ pitchblende/ Schwartzwalder mine/ Nigger shaft/ North Star property/ Front Range/

Adams, J. W., and Sharp, W. N., 1970
thalenite/ White Cloud pegmatite/ South Platte district/ Jefferson County/ Igneous-metamorphic/ rare earths/ thorium/ Front Range/

Adams, J. W., and Sharp, W. N., 1972
thalenite/ allanite/ yttrium/ Jefferson County/ rare earths/ thorium/ pegmatite/ White Cloud pegmatite/ Igneous-metamorphic/ South Platte district/ Front Range/

Adams, J. W., and Stugard, Frederick, Jr., 1953
Jefferson County/ ore deposits/ evaluation/ uranium/ Igneous-metamorphic/ Golden Gate Canyon/ hornblende gneiss/ paragenesis/ Front Range/

Adams, J. W., and Stugard, Frederick, Jr., 1954
Front Range/ Golden Gate Canyon/ Jefferson County/ mineralogy/ petrology/ geochemistry/ breccia reefs/ wall-rock control/ minerals/ pitchblende/ Buckman property/ Golden Gate property/ Union Pacific prospect/ Laramide faults/ veins/ hornblende gneiss/ Igneous-metamorphic/

Adams, J. W., and Stugard, Frederick, Jr., 1956
veins/ Jefferson County/ wall-rock control/ pitchblende/ uranium/ Golden Gate Canyon/ Union Pacific prospect/ Igneous-metamorphic/ Front Range/ ore deposits/

Adams, J. W., and Stugard, Frederick, Jr., 1956
Jefferson County/ wall-rock control/ pitchblende/

uranium/ Golden Gate Canyon/ veins/ Union Pacific prospect/ Igneous-metamorphic/ ore deposits/ Front Range/

Adams, J. W., and Stugard, Frederick, Jr., 1956
Golden Gate Canyon/ ore deposits/ wall-rock alteration/ stratigraphic controls/ Jefferson County/ veins/ Igneous-metamorphic/ Front Range/ mineralogy/ petrology/ geochemistry/ breccia reefs/ genesis/ wall-rock influence/ Buckman property/ Union Pacific prospect/ hornblende gneiss/ Laramide faults/

Adams, J. W., Gude, A. J., 3d, and Beroni, E. P., 1953

Jefferson County/ Golden Gate Canyon/ Ralston Creek/ pitchblende/ torbernite/ Buckman property/ Hoffmeister prospect/ North Star mine/ Schwartz mine (Schwartzwalder mine)/ Union Pacific prospect/ Ladwig properties/ shear zone/ geology/ ore deposits/ Front Range/ Igneous-metamorphic/ Golden Gate property/ Nigger shaft/ fault breccia/

Adams, J. W., Gude, A. J., 3d, and Beroni, E. P., 1953

ore deposits/ Golden Gate Canyon area/ Ralston Creek area/ Jefferson County/ Igneous-metamorphic/ uranium/ occurrence/ Front Range/ genesis/ hornblende gneiss/ wall-rock alteration/ veins/ pitchblende/

Adler, H. H., 1964

uranium/ roll ore/ exploration/ sandstone/ ore deposits/ Jefferson County/ Pueblo County/ Gunnison County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ Moffat County/ Colorado Plateau/ Front Range/ Dolores County/

Antony, J., 1967

Front Range/ Jefferson County/ Tucker Gulch area/ map/ geology/ Igneous-metamorphic/

Ballie, W. N., 1962

pegmatites/ feldspar/ rare earths/ Boulder County/ Chaffee County/ Clear Creek County/ Douglas County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Park County/ Igneous-metamorphic/ Front Range/

Baker, K. E., 1953

uranium/ Ralston Creek mine/ Schwartzwalder mine/ Jefferson County/ Igneous-metamorphic/ Front Range/

Bell, K. G., 1960

uranium/ trace elements/ petroleum/ asphalts/ distribution/ occurrence/ Colorado Plateau/ Rocky Mountains/ United States/ Rio Blanco County/ Jefferson County/ Front Range/

Berthoud, E. L., 1875

Jefferson County/ Leyden coal mine/ occurrence/ Tertiary/ uranium/ silver/ iron/ dikes/ coal/ Colorado territory/

Bienlewski, C. L., Persse, F. H., and Brauch, E. F., 1971

Colorado Plateau/ Rifle district/ Front Range/

JEFFERSON COUNTY

JEFFERSON COUNTY

- Garfield County/ Clear Creek County/ Jefferson County/ Boulder County/ resources/ price/ cost analysis/ sandstone/ igneous-metamorphic/ Marshall Pass/
- Bird, A. G., 1956
Ralston Creek mine/ pitchblende/ ore deposits/ Schwartzwalder mine/ igneous-metamorphic/ Front Range/ Jefferson County/
- Bird, A. G., 1957
Golden Gate Canyon area/ Ralston Creek area/ ore deposits/ Jefferson County/ igneous-metamorphic/ mineralization/ Schwartzwalder mine/ uranium/ Front Range/ pitchblende/ Idaho Springs Formation/
- Bird, A. G., 1957
Jefferson County/ igneous-metamorphic/ Ralston Creek area/ Golden Gate Canyon area/ Front Range/ Schwartzwalder mine/ pitchblende/ ore deposits/
- Bird, A. G., 1957
pitchblende/ occurrences/ Golden Gate Canyon area/ Ralston Creek area/ Schwartzwalder mine/ Jefferson County/ Front Range/ igneous-metamorphic/ ore deposits/
- Bird, A. G., 1958
Schwartzwalder mine/ ore deposits/ petrology/ Jefferson County/ metamorphic/ igneous-metamorphic/ uranium/ Front Range/
- Bird, A. G., 1966
Jefferson County/ petrology/ Schwartzwalder mine/ metamorphic/ igneous-metamorphic/ uranium/ Front Range/ ore deposits/
- Bird, A. G., and Stafford, H. S., 1955
Front Range/ foothills/ ore deposits/ veins/ uranium/ Jefferson County/ Schwartzwalder mine/ igneous-metamorphic/
- Boberg, W. W., 1970
surface water/ streams/ transport/ precipitation/ South Platte River/ geochemistry/ shale/ Jefferson County/ Douglas County/ Denver County/ Arapahoe County/ uranium/ Adams County/ Weld County/ Morgan County/ Washington County/ Logan County/ Sedgwick County/
- Boberg, W. W., and Runnells, D. D., 1971
surface water/ rivers/ South Platte River/ geochemistry/ uranium/ analyses/ Jefferson County/ Douglas County/ Denver County/ Arapahoe County/ Adams County/ Weld County/ Morgan County/ Washington County/ Logan County/ Sedgwick County/ reconnaissance/
- Boos, C. M., and Boos, M. F., 1957
tectonics/ Front Range/ igneous-metamorphic/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ geology/ Clear Creek County/ Park County/ Douglas County/ Teller County/ El Paso County/ Fremont County/ Pueblo County/ granite/ schist/ gneiss/ pegmatite/
- Bozag, H. A., 1943
Precambrian geology/ Golden Gate Canyon/ Jefferson County/ igneous-metamorphic/ Front Range/
- Breger, I. A., and Deul, Maurice, 1952
geochemistry/ mineralogy/ lignites/ uranium/ Leyden mine/ South Dakota/ coal/ chemistry/ Jefferson County/ sandstone/ Texas/ extraction/ Front Range/ Colorado/ Laramie Formation/
- Brinkworth, G. L., 1974
geophysical investigations/ Front Range/ mineral belt/ igneous-metamorphic/ Jefferson County/ Boulder County/ Clear Creek County/ Gilpin County/ geophysics/
- Carter, W. D., and Gualtieri, J. L., 1958
map/ tectonics/ Colorado/ Utah/ Moffat County/ Logan County/ geology/ Larimer County/ Jackson County/ Boulder County/ Jefferson County/ Clear Creek County/ Gilpin County/ Summit County/ Grand County/ Eagle County/ Routt County/ Garfield County/ Rio Blanco County/ sandstone/ ore deposits/ igneous-metamorphic/
- Chapman, J. J., 1948
geology/ Clear Creek area/ Golden Gate Canyon area/ Jefferson County/ igneous-metamorphic/ Front Range/
- Decker, E. R., 1969
geophysics/ geothermal/ radioactive materials/ heat flow/ Colorado/ New Mexico/ Summit County/ Jefferson County/ Clear Creek County/ La Plata County/ igneous-metamorphic/ Roberts tunnel/
- Del Rio, S. M., compiler, 1960
minerals/ resources/ Colorado/ uranium/ Colorado Plateau/ San Miguel County/ Montrose County/ Mesa County/ Front Range/ Jefferson County/ Fremont County/ sandstone/ igneous-metamorphic/ Moffat County/
- Denson, M. E., Jr., 1956
ore deposits/ exploration/ geophysics/ geochemistry/ Colorado/ Front Range/ South Dakota/ Wyoming/ uranium/ thorium/ Jefferson County/ igneous-metamorphic/ geology/
- Denson, M. E., Jr., 1956
Colorado/ Front Range/ geophysics/ geochemistry/ South Dakota/ Wyoming/ exploration/ uranium/ thorium/ Jefferson County/ igneous-metamorphic/ geology/ ore deposits/
- Derzay, R. C., and Bird, A. G., 1976
economic geology/ ore deposits/ uranium/ Ralston Creek area/ Jefferson County/ igneous-metamorphic/ Front Range/
- Deul, Maurice, and Ansell, C. S., 1952
mineralogy/ petrology/ geochemistry/ trace elements/ ash/ coal/ uranium/ Colorado/ analyses/ Texas/ North Dakota/ South Dakota/ Jefferson County/
- Deul, Maurice, and Ansell, C. S., 1952
mineralogy/ petrology/ geochemistry/ trace elements/ ash/ coal/ Texas/ Colorado/ North Dakota/ South Dakota/ minor elements/ uranium/ analyses/ Jefferson County/
- Deul, Maurice, and Ansell, C. S., 1956
coal/ minor elements/ Jefferson County/ vanadium/

- uranium/ ash/ trace elements/ mineralogy/ petrology/ geochemistry/ Colorado/ Texas/ North Dakota/ South Dakota/ analyses/
- Downs, G. R., and Bird, A. G., 1965
Jefferson County/ Schwartzwalder mine/ ore deposits/ genesis/ production/ reserves/ pitchblende/ veins/ Igneous-metamorphic/ Front Range/
- Erickson, R. L., Gott, G. B., Myers, A. T., and others, 1953
uranium/ metals/ crude oil/ asphalt/ shale/ bituminous substances/ Moffat County/ Jefferson County/ Rio Blanco County/ sandstone/
- Erickson, R. L., Myers, A. T., and Horr, C. A., 1952
uranium/ metals/ crude oil/ asphalt/ shale/ bituminous substances/ Moffat County/ Jefferson County/ Rio Blanco County/ sandstone/
- Erickson, R. L., Myers, A. T., and Horr, C. A., 1954
uranium/ metals/ crude oil/ asphalt/ shale/ bituminous substances/ Moffat County/ Jefferson County/ Rio Blanco County/ sandstone/
- Everhart, D. L., 1954
Colorado Plateau/ sandstone/ Colorado/ New Mexico/ Utah/ Wyoming/ veins/ Igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Jefferson County/ Australia/ South Africa/ Ontario/
- Everhart, D. L., 1956
sandstone/ Colorado Plateau/ Front Range/ Copper King mine/ veins/ Larimer County/ Los Ochos mine/ Saguache County/ Caribou mine/ Boulder County/ Schwartzwalder mine/ Carroll mine/ Placerville district/ San Miguel County/ alteration/ pitchblende/ Igneous-metamorphic/ Jefferson County/ Carroll mine/ structural tension/
- Everhart, D. L., 1956
pitchblende/ Colorado Plateau/ Igneous-metamorphic/ granite/ Front Range/ Copper King mine/ Larimer County/ alteration/ Los Ochos mine/ Saguache County/ Caribou mine/ Carroll mine/ Boulder County/ San Miguel County/ ore deposits/ sandstone/ Placerville district/ Schwartzwalder mine/ Jefferson County/ structural tension/ United States/ Tertiary/ veins/ alteration/
- Ferris, C. S., and Bennett, N., 1977
geochemistry/ exploration/ Ladwig mine/ Jefferson County/ Front Range/ Igneous-metamorphic/ gneiss/ schist/ Schwartzwalder mine/ molybdenum/
- Finch, W. I., 1967
Colorado Plateau/ Front Range/ Igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/
- Fix, P. F., 1954
natural waters/ hydrogeochemical exploration/ streams/ stream sediments/ ore deposits/ ground water/ mine waters/ Sevier River/ Utah/ Ralston Creek/ Colorado/ Montana/ Schwartzwalder mine/ Front Range/ Colorado Plateau/ Jefferson County/
- Fliescher, Michael, and Harder, J. O., 1945
niobium/ tantalum/ minerals/ annotated bibliography/ pegmatites/ placers/ uranium/ mineralogy/ Leyden coal mine/ Jefferson County/ coal/ quartz-carnotite veins/ Indium/ sandstone/ veins/ Igneous-metamorphic/
- Fraser, G. D., 1948
Coal Creek Quartzite/ Igneous-metamorphic/ Jefferson County/ Boulder County/ Front Range/
- Gabelman, J. W., 1948
geology/ Golden Gate area/ Van Bibber Creek area/ Jefferson County/ Front Range/ Igneous-metamorphic/
- Gabelman, J. W., and Boyer, W. H., 1974
exploration/ status/ uranium/ technology/ history/ pitchblende/ radium/ vanadium/ Colorado Plateau/ Front Range/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/ Moffat County/ Jefferson County/ sandstone/ Igneous-metamorphic/ shale/
- Gable, D. J., 1968
geology/ crystalline rocks/ Morrison quadrangle/ Jefferson County/ Igneous-metamorphic/ Front Range/
- George, R. D., 1917
minerals/ rocks/ Colorado/ occurrences/ uses/ Colorado Plateau/ sandstone/ igneous-metamorphic/ uranium/ vanadium/ radium/ carnotite/ pitchblende/ Jefferson County/ Gilpin County/ Front Range/ Montrose County/ San Miguel County/ Dolores County/ Garfield County/ Rio Blanco County/ Routt County/ Boulder County/
- George, R. D., Curtis, H. A., Lester, O. C., and others, 1920
Colorado Plateau/ mineralized waters/ springs/ spring deposits/ Front Range/ Jefferson County/ Pitkin County/ Pueblo County/ Garfield County/ Park County/ El Paso County/ Ouray County/ Boulder County/ Gunnison County/ Delta County/ Chaffee County/
- Gilbert, R. E., 1972
Jefferson County/ Schwartzwalder mine/ Front Range/ geology/ map/ igneous-metamorphic/
- Goldstein, E. H., 1957
ore deposits/ uraninite/ Cretaceous/ Jefferson County/ Dakota Sandstone/ geology/ uranium/ igneous-metamorphic/ sandstone/ genesis/ Morrison (town of)/
- Gott, G. B., 1950
Leyden Ridge/ Jefferson County/ Leyden uranium prospect/ Old Leyden coal mine/ coal/ ore deposits/ geology/ genesis/ reserves/ sandstone/ Front Range/
- Gott, G. B., Wyant, D. G., and Beroni, E. P., 1952
Front Range/ ore deposits/ shale/ black shale/ lignite/ limestone/ organics/ sandstone/ coal/ Leyden coal mine/ Jefferson County/ uranium/

- Gottfried, David, 1956
Front Range/ ore deposits/ exploration/ Precambrian rocks/ Igneous complexes/ granite/ uranium/ Jefferson County/ Clear Creek County/ Gilpin County/ Pikes Peak batholith/ Log Cabin batholith/ Boulder Creek batholith/ Boulder County/ Igneous-metamorphic/
- Gow, T. T., 1914
basalt/ Table Mountain/ Igneous-metamorphic/ Jefferson County/ Conejos County/ Rio Grande County/ Gilmore/ Front Range/ radioactivity/
- Granger, H. C., and Beroni, E. P., 1950
Jefferson County/ Cook property/ Igneous-metamorphic/ reconnaissance/ Front Range/
- Grossman, E. L., 1957
Front Range/ ore deposits/ uranium/ Gilpin County/ Clear Creek County/ Jefferson County/ Schwartzwalder mine/ pitchblende/ Igneous-metamorphic/ Ladwig mine/ Leyden mine/ Boulder County/ coal/ sandstone/ Morrison Formation/ Park County/ Gem Dandy/
- Gude, A. J., 3d, and McKeown, F. A., 1952
Jefferson County/ ore deposits/ Front Range/ coal/ exploration/ drilling/ Old Leyden coal mine/ minerals/ carnotite/ Laramie Formation/ reserves/ sandstone/ shale/ veins/
- Gude, A. J., 3d, and McKeown, F. A., 1953
veins/ exploration/ Jefferson County/ Old Leyden coal mine/ sandstone/ coal/ shale/ drilling/ core/ reserves/ Front Range/
- Hall, C. R., 1976
alkalic/ igneous rocks/ igneous-metamorphic/ Gilpin County/ Front Range/ bibliography/ San Juan County/ Custer County/ Fremont County/ La Plata County/ Montezuma County/ Gunnison County/ Saguache County/ El Paso County/ Rio Grande County/ Jefferson County/ Larimer County/ Boulder County/ Colorado Plateau/ Clear Creek County/ Teller County/
- Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
pegmatites/ geology/ mineralogy/ Chaffee County/ Boulder County/ Clear Creek County/ Douglas County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Montrose County/ Park County/ Summit County/ monazite/ thorium/ production/ Front Range/ El Paso County/ Igneous-metamorphic/ Colorado Plateau/ Wyoming/ Utah/
- Harder, J. O., and Stead, F. W., 1945
Boulder County/ Gilpin County/ Gunnison County/ Mesa County/ Teller County/ ore deposits/ sandstone/ igneous-metamorphic/ reconnaissance/ Front Range/ Colorado Plateau/ Jefferson County/
- Hayse, J. V., 1971
uranium/ mineralogy/ petrology/ Schwartzwalder mine/ Jefferson County/ age estimation/ emission spectroscopy/ uraninite/ ore deposits/ Front Range/ geochemistry/ igneous-metamorphic/ paragenesis/ pitchblende/
- Hickling, N. L., Phair, G., Moore, R., and others, 1970
Boulder Creek batholith/ uranium/ thorium/ age patterns/ allanite/ mineralogy/ genesis/ paragenesis/ igneous-metamorphic/ Jefferson County/ Clear Creek County/ Gilpin County/ Boulder County/ Larimer County/ Summit County/ Grand County/ Front Range/ Silver Plume batholith/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/
- Kehn, T. M., 1955
bibliography/ geology/ shale/ uranium/ coal/ lignite/ Leyden Coal mine/ Jefferson County/ carnotite/ Moffat County/ gilsonite/ Jackson County/ Front Range/ ore deposits/ Great Plains/
- Kehn, T. M., 1957
ore deposits/ coal/ shale/ lignite/ Great Plains/ bibliography/ uranium/ geology/ Jefferson County/ carnotite/ Moffat County/ gilsonite/ Jackson County/ Front Range/ Leyden coal mine/
- Keller, W. D., 1953
clay minerals/ Morrison Formation/ kaolinite/ illite/ depositional environments/ Colorado Plateau/ sandstone/ type section/ geochemistry/ analyses/ Jefferson County/ Front Range/
- Kelly, F. N., 1962
thorium/ Wet Mountains/ Custer County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Park County/ mineralogy/ Powderhorn district/ rare earths/ resources/ igneous-metamorphic/ Colorado/ Wyoming/ New Mexico/ economics/ Front Range/ Gilpin County/
- King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/

- Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/
- King, R. U., 1954
ore deposits/ exploration/ veins/ Ralston Creek district/ Jefferson County/ Copperdale/ Lake George/ Park County/ geology/ Igneous-metamorphic/ Front Range/
- King, R. U., and Beroni, E. P., 1953
Igneous-metamorphic/ reconnaissance/ Jefferson County/ Park County/ El Paso County/ Clear Creek County/ prospects/ uranium/ thorium/ Front Range/ ore deposits/ geology/
- King, R. U., and Moore, F. B., 1951
pitchblende/ ore deposits/ Clear Creek County/ Colorado/ Boulder County/ Front Range/ sandstone/ Igneous-metamorphic/ sedimentary rocks/ Jefferson County/ geology/ Gilpin County/
- King, R. U., and Theobald, P. K., Jr., 1955
Canon City/ Idledale/ ore deposits/ exploration/ Jefferson County/ veins/ FMD mine/ Front Range/ geology/ Igneous-metamorphic/ Fremont County/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ Igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ Igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/
- King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Kiowa County/ Larimer County/ Moffat County/ Pitkin County/ Rio Blanco County/ Routt County/ ore guides/ pitchblende/ hydrocarbons/ metal-mining districts/ ore deposits/ limestone/ sandstone/ veins/ breccia pipes/ Eagle County/ hot spring deposits/ fluorite/ Igneous-metamorphic/
- King, R. U., Moore, F. B., and Hinrichs, E. N., 1952
veins/ Colorado/ uranium/ Central City district/ Front Range/ San Miguel County/ pitchblende/ ore deposits/ Larimer County/ Jefferson County/ Gilpin County/ Ralston Creek district/ Jamestown district/ Caribou district/ Lawson district/ Clear Creek County/ Igneous-metamorphic/
- Kober, C. L., and Procter-Gregg, H. D., 1977
uranium/ alteration zones/ LANDSAT MSS Imagery/ Jefferson County/ Boulder County/ Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/ Douglas County/ sandstone/ Front Range/ Igneous-metamorphic/
- Lahr, M., 1974
Front Range/ map/ Schwartzwalder mine/ Jefferson County/ Igneous-metamorphic/ ore deposits/ Ralston Buttes quadrangle/
- Langford, F. F., 1974
uranium/ Australia/ supergene/ genesis/ Front Range/ veins/ calcrite/ carnotite/ ore deposits/ Igneous-metamorphic/ sandstone/ Colorado Plateau/ Jefferson County/ Montrose County/ San Miguel County/
- Langford, F. F., 1977
genesis/ surficial origin/ pitchblende/ ore deposits/ uranium/ Igneous-metamorphic/ surface waters/ sandstone/ Colorado Plateau/ Front Range/ Jefferson County/ Montrose County/ San Miguel County/
- Leonard, B. F., 3d, 1952
Front Range/ ore deposits/ pitchblende/ hypogene zoning/ veins/ uranium/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ Igneous-metamorphic/
- Leonard, B. F., 3d, 1952
veins/ Front Range mineralogy/ petrology/ pitchblende/ geochemistry/ ore deposits/ uranium/ Central City district/ bostonite/ Gilpin County/ Clear Creek County/ Larimer County/ Boulder County/ Jefferson County/ hypogene zoning/ Igneous-metamorphic/
- LeRoy, L. W., 1969
Precambrian rocks/ stratigraphy/ Golden area/ Gilpin County/ Front Range/ Igneous-metamorphic/ Jefferson County/
- Lickus, R. J., and LeRoy, L. W., 1968
Precambrian rocks/ structure/ stratigraphy/ Front Range/ reconnaissance/ Golden area/ Jefferson County/ Igneous-metamorphic/
- Lovering, T. G., and Beroni, E. P., 1956
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive ilmonite/ Lucky Break Iron mine/ sandstone/ thorium/ uranium/ spring deposits/ Front Range/ conglomerate/ limestone/ tufa/ analyses/ Igneous-metamorphic/ ore deposits/ El Paso County/
- Lovering, T. G., and Beroni, E. P., 1959
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive ilmonite/ Lucky Break Iron mine/ thorium/ uranium/ spring deposits/ Front Range/ sandstone/ conglomerate/ limestone/ tufa/ El Paso County/ Igneous-metamorphic/ ore deposits/

- Lovering, T. S., 1942
Front Range/ mineral belt/ ore deposits/ Clear Creek County/ structural features/ Igneous-metamorphic/ Gilpin County/ Boulder County/ Jefferson County/
- Lovering, T. S., and Goddard, E. N., 1938
Laramide/ tectonics/ differentiation/ Clear Creek County/ correlation/ geochemistry/ petrology/ Boulder County/ Grand County/ Summit County/ Gilpin County/ Park County/ Larimer County/ Teller County/ Jefferson County/ Front Range/ Igneous-metamorphic/
- Mallory, N. S., and Bird, A. G., 1953
exploration/ geology/ Jefferson County/ Ralston Creek area/ Dawson arkose/ James Peak area/ Boulder County/ Adams County/ Larimer County/ Gilpin County/ Igneous-metamorphic/ Idaho Springs Formation/ sandstone/ Dakota Sandstone/ Morrison Formation/ Front Range/
- Maxwell, C. H., 1955
bedrock geology/ Front Range/ Igneous-metamorphic/ Jefferson County/
- McCann, D. W., and Freeman, R. W., 1976
ground water/ surface water/ United States/ uranium/ chemical analyses/ Colorado/ Front Range/ Jefferson County/ Chaffee County/ Fremont County/ Gunnison County/ Huerfano County/ Saguache County/ Park County/ Colorado Plateau/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ ore deposits/ migmatites/ sandstone/ shale/ Igneous-metamorphic/ Colorado/ Colorado Plateau/ San Juan County/ San Miguel County/ Jefferson County/ Montrose County/ Old Leyden mine/ coal/ Gilpin County/ Clear County/ uranium/ Front Range/ genesis/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ Colorado/ genesis/ uranium/ ore deposits/ pegmatites/ migmatites/ San Miguel County/ sandstone/ coal/ shale/ phosphorites/ Igneous-metamorphic/ Front Range/ Colorado Plateau/ San Juan County/ replacement/ Jefferson County/ Montrose County/ Old Leyden mine/ Mesa County/ Gilpin County/ Clear Creek County/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ Igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/
- McKeown, F. A., and Gude, A. J., 3d, 1951
minerals/ carnotite/ clay/ coal/ lignite/ sandstone/ Laramie Formation/ Front Range/ Jefferson County/ ore deposits/ Old Leyden mine/ reserves/ geology/ structure/
- Merwin, S. S., 1956
Front Range/ ore deposits/ uranium/ Jefferson County/ Gilpin County/ Clear Creek County/ Boulder County/ Schwitzwalder mine/ Caribou mine/ Wood mine/ Igneous-metamorphic/
- Merwin, S. S., 1956
Front Range/ ore deposits/ ore controls/ Jefferson County/ Boulder County/ Gilpin County/ Clear Creek County/ Igneous-metamorphic/
- Moench, R. H., Harrison, J. E., and Sims, P. K., 1954
Precambrian rocks/ structure/ Idaho Springs district/ Front Range/ geology/ Gilpin County/ Clear Creek County/ Jefferson County/ Igneous-metamorphic/
- Moya, E. A., 1969
structure/ stratigraphy/ analyses/ Precambrian rocks/ North Clear Creek area/ Jefferson County/ Gilpin County/ Igneous-metamorphic/ Front Range/
- Narten, P. F., Crawford, J. E., and Butler, A. P., Jr., 1951
Clear Creek County/ Garfield County/ Jefferson County/ Montrose County/ Rio Blanco County/ Dakota Sandstone/ Mesa County/ Fountain Formation/ Green River Formation/ Laramie Formation/ Hermosa Formation/ Paradox Member/ shales/ sandstone/ Front Range/ Colorado Plateau/
- Nishimori, R. K., Ragland, P. C., Rogers, J. J., and others, 1977
uranium/ ore deposits/ granite/ Igneous-metamorphic/ Wheeler Basin/ Grand County/ Front Range/ Park County/ Clear Creek County/ Gilpin County/ Boulder County/ Jefferson County/ bostonite dikes/ Central City district/
- Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ Igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/
- Osterwald, F. W., 1965
ore deposits/ genesis/ veins/ mining districts/ structural controls/ Moffat County/ pitchblende/ conglomerate/ Front Range/ Igneous-metamorphic/ sandstone/ Jefferson County/ Boulder County/ Montrose County/ Clear Creek County/ Gilpin County/ Saguache County/ Fremont County/
- Osterwald, F. W., and Dean, B. G., 1956
bibliography/ structural geology/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ Clear Creek County/ Igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/ ore deposits/ tectonics/
- Osterwald, F. W., and Dean, B. G., 1958
ore deposits/ tectonics/ structural geology/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ Igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson

- County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/
- Osterwald, F. W., and Dean, B. G., 1961
Cordilleran foreland/ ore deposits/ genesis/ structural controls/ tectonic patterns/ Front Range/ Denver basin/ uranium/ igneous-metamorphic/ Jefferson County/ Boulder County/ Clear Creek County/ Gilpin County/ Larimer County/
- Otton, J. K., and Ward, F. N., 1975
uranium/ trace elements/ stream sediments/ Denver basin/ Castle Rock/ Douglas County/ Jefferson County/ Arapahoe County/
- Page, L. R., 1950
Mount Antero region/ Crystal Mountain district/ San Juan Mountains/ Chaffee County/ Larimer County/ helvite/ pegmatites/ beryllium/ beryl/ Colorado Plateau/ igneous-metamorphic/ Devils Hole mine/ Fremont County/ Gunnison County/ Jefferson County/ San Juan County/ Front Range/ aquamarine/
- Page, L. R., 1950
beryllium/ beryl/ Colorado Plateau/ pegmatites/ Larimer County/ igneous-metamorphic/ San Juan County/ Devils Hole mine/ Fremont County/ Gunnison County/ Jefferson County/ Mount Antero/ Chaffee County/ aquamarine/ Front Range/ Crystal Mountain district/
- Page, L. R., Stocking, H. E., and Smith, H. B., compilers, 1956
Colorado Plateau/ Front Range/ Gunnison County/ limestone/ Montrose County/ Jefferson County/ arkose/ sandstone/ shale/ geology/ uranium/ thorium/ exploration/ igneous-metamorphic/ San Miguel County/ geochemistry/ mineralogy/ conglomerate/
- Phair, George, and Gottfried, David, 1964
Front Range/ ore province/ thorium/ uranium/ igneous-metamorphic/ Boulder County/ Clear Creek County/ Gilpin County/ Jefferson County/ Larimer County/
- Popenoe, Peter, 1965
arkose/ shale/ sandstone/ conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ geology/ aeroradioactivity survey/ conglomerate/ Front Range/
- Popenoe, Peter, 1965
Laramie Formation/ Dawson arkose/ Pierre Shale/ Castle Rock Conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ gamma-ray logs/ airborne radioactivity/ Front Range/ Fox Hills Sandstone/
- Ray, E. D., 1975
mining/ Jefferson County/ Schwartzwalder mine/ Ladwig mine/ igneous-metamorphic/ district 1/ Front Range/
- Rich, R. A., and Barabas, A., 1976
mineralogy/ paragenesis/ fluid inclusions/ genesis/ Schwartzwalder mine/ ore deposits/ Jefferson County/ Front Range/ igneous-metamorphic/
- Rich, R. A., Holland, H. D., and Peterson, U., 1975
veins/ uranium/ ore deposits/ mineralogy/ fluid inclusions/ paragenesis/ hydrothermal/ pitchblende/ ground water/ Front Range/ Jefferson County/ Clear Creek County/ Gilpin County/ Gunnison County/ Saguache County/ Marshall Pass district/ Schwartzwalder mine/ igneous-metamorphic/
- Riley, T. H., 1953
uranium/ stratigraphy/ copper/ Jefferson County/ mineralogy/ geochemistry/ geology/ mineralization/ minerals/ Ralston Creek area/ Golden Gate Canyon area/ Precambrian rocks/ pitchblende/ Idaho Springs Formation/ breccia reefs/ ore deposits/ Front Range/ Schwartzwalder mine/
- Rocky Mountain Association of Geologists, 1955
Front Range/ Jefferson County/ geology/ Deer Creek area/ Ralston Creek area/ igneous-metamorphic/
- Rocky Mountain Energy Corporation, 1972
map/ geology/ Front Range/ Jefferson County/ igneous-metamorphic/
- Saum, N. M., and Link, J. M., 1969
uranium/ ore deposits/ exploration/ history/ Front Range/ Schwartzwalder mine/ Jefferson County/ igneous-metamorphic/ geochemistry/ genesis/ hydrothermal deposits/ sandstone/ Morrison Formation/ Uravan district/ Montrose County/ San Miguel County/ Mesa County/ New Mexico/ Utah/ Wyoming/ diatremes/ lignites/ phosphates/ remote sensing/ Colorado Plateau/
- Schlottmann, J. D., 1961
uranium/ ore deposits/ exploration/ mineralogy/ Foothills mine/ Idledale district/ Jefferson County/ veins/ igneous-metamorphic/ paragenesis/ Wright lease/ quartz monzonite breccia/ Front Range/
- Schlottmann, J. D., 1961
geology/ Schwartzwalder mine/ ore deposits/ Jefferson County/ igneous-metamorphic/ Front Range/
- Scott, B. C., 1957
uranium/ ore deposits/ geology/ asphaltite/ sandstone/ faults/ thermal waters/ ground water/ mineralization/ Dakota hogback/ structure/ Morrison area/ Jefferson County/ Front Range/ Dakota Sandstone/
- Scott, R. C., and Barker, F. B., 1962
data/ uranium/ radium/ ground water/ analyses/ Logan County/ Phillips County/ Prowers County/ Yuma County/ Jefferson County/ Garfield County/ Kit Carson County/ Pitkin County/ Mesa County/ Huerfano County/ Baca County/ Montezuma County/ Front Range/ Colorado Plateau/
- Sheridan, D. M., 1953
Jefferson County/ veins/ pitchblende/ Front

JEFFERSON COUNTY

JEFFERSON COUNTY

- Range/ uranium/ Igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/ Ralston Buttes district/ Ascension mine/
- Sheridan, D. M., 1955
Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ Igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/ Ralston Buttes district/ Ascension mine/
- Sheridan, D. M., 1956
Jefferson County/ veins/ pitchblende/ Ascension mine/ Front Range/ uranium/ Igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ faults/ copper/ Ralston Buttes district/
- Sheridan, D. M., 1956
Jefferson County/ pitchblende/ Ralston Buttes district/ Front Range/ uranium/ Igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ faults/ copper/ paragenesis/ structure/ Ascension mine/
- Sheridan, D. M., and Maxwell, C. H., 1953
Ralston Buttes district/ ore deposits/ exploration/ Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ Igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ascension mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/
- Sheridan, D. M., and Maxwell, C. H., 1954
Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ Igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/ Ascension mine/
- Sheridan, D. M., and Maxwell, C. H., 1954
Ralston Buttes district/ ore deposits/ exploration/ veins/ Jefferson County/ pitchblende/ Front Range/ uranium/ Igneous-metamorphic/ Schwartzwalder mine/ Ladwig lease/ Mena mine/ Ascension mine/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/
- Sheridan, D. M., and Maxwell, C. H., 1954
Front Range/ Igneous-metamorphic/ Ralston Buttes district/ Jefferson County/ pitchblende/ Schwartzwalder mine/ Golden Gate Canyon area/ exploration/
- Sheridan, D. M., Maxwell, C. H., Albee, A. L., and others, 1958
Jefferson County/ veins/ pitchblende/ bedrock geology/ Front Range/ uranium/ Igneous-metamorphic/ Schwartzwalder mine/ Ladwig lease/ Mena mine/ Ascension mine/ Golden Gate Canyon area/ mineralogy/ paragenesis/ structure/ copper/ faults/ Ralston Buttes quadrangle/ Ralston Buttes district/ Ralston Creek area/
- Sheridan, D. M., Maxwell, C. H., Albee, A. L., and others, 1967
Ralston Buttes district/ ore deposits/ genesis/ geology/ maps/ Jefferson County/ Schwartzwalder mine/ Mena mine/ Ascension mine/ Ladwig lease/ structure/ Ralston Creek area/ mineralogy/ paragenesis/ copper/ faults/ uranium/ economic geology/ production/ Front Range/ veins/ breccia/ pitchblende/ gneiss/ pegmatite/ Igneous-metamorphic/ Golden Gate Canyon area/
- Sheridan, D. M., Maxwell, C. H., Albee, A. L., and others, n.d.
Jefferson County/ Juanita Arch quadrangle/ veins/ pitchblende/ Ralston Buttes district/ Front Range/ uranium/ Igneous-metamorphic/ Schwartzwalder mine/ Ascension mine/ Ladwig lease/ Mena mine/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/
- Sims, P. K., 1956
Front Range/ ore deposits/ uranium/ Larimer County/ Boulder County/ Gilpin County/ Clear Creek County/ Jefferson County/ Fremont County/ Igneous-metamorphic/
- Sims, P. K., and Drake, A. A., Jr., 1953
Front Range/ Central City district/ Gilpin County/ Clear Creek County/ Igneous-metamorphic/ Jefferson County/ geology/ ore deposits/
- Sims, P. K., Young, E. J., and Sharp, W. N., 1961
coffinite/ uranium/ veins/ Front Range/ Boulder County/ Larimer County/ Jefferson County/ Clear Creek County/ Igneous-metamorphic/ ore deposits/
- Slaughter, A. L., and Clabaugh, S. E., 1945
Jefferson County/ trace elements/ Igneous-metamorphic/ coal/ carnotite/ Front Range/
- Soule, J. H., 1960
Jefferson County/ ore deposits/ resources/ production/ mining/ methods/ economics/ Schwartzwalder mine/ uranium/ Igneous-metamorphic/ Front Range/ development/ Ralston Creek district/ geology/ history/
- Staatz, M. H., Adams, J. W., and Wahlberg, J. S., 1976
thorite/ Seerie pegmatite/ Igneous-metamorphic/ fluorite/ mineralogy/ geochemistry/ uraninite/ Jefferson County/ Front Range/ thorium/ pegmatites/
- Stahl, R. L., 1974
Schwartzwalder mine/ Jefferson County/ Front Range/ Igneous-metamorphic/ surface resistivity/ faults/ fault detection/ fault delineation/ structure/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1955
Uravan district/ Jefferson County/ Larimer County/ Mesa County/ Montrose County/ San Miguel County/ coffinite/ Copper King mine/ La Sal No. 2 mine/ Matchless mine/ Old Leyden coal mine/ Peanut mine/ Robinson property/ pyrobitumins/ Weatherly property/ Wild Steer mine/ veins/ sandstone/ Cutler Formation/ Dolores Formation/ mineralogy/ Laramie Formation/ Morrison Formation/ Salt Wash Member/ Igneous-metamorphic/ Colorado Plateau/ Front Range/

JEFFERSON COUNTY

- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1956
Front Range/ coffinite/ uranium/ silicates/
Colorado Plateau/ Copper King mine/ Larimer
County/ Arrowhead mine/ Mesa County/ Jefferson
County/ Montrose County/ San Miguel County/
geochemistry/ x-ray analyses/ mineralogy/ sandstone/
Igneous-metamorphic/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/
Colorado Plateau/ Larimer County/ Arrowhead
mine/ Mesa County/ Jefferson County/ Montrose
County/ x-ray analyses/ San Miguel County/ sandstone/
Copper King mine/ geochemistry/ igneous-metamorphic/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/
Copper King mine/ Larimer County/ Arrowhead
mine/ Mesa County/ Jefferson County/ x-ray analyses/
Montrose County/ San Miguel County/ geochemistry/
Colorado Plateau/ sandstone/ igneous-metamorphic/
- Taylor, R. B., 1975
geology/ map/ Black Hawk quadrangle/ Gilpin
County/ Jefferson County/ Clear Creek County/
Front Range/ igneous-metamorphic/
- Theobald, P. K., and Gullinger, R. R., 1955
veins/ FMD mine/ Jefferson County/ shear zones/
copper/ radioactivity/ igneous-metamorphic/
geology/ Front Range/
- Tourtelot, H. A., 1955
Boulder County/ Cheyenne County/ Crowley County/
Jefferson County/ Kiowa County/ Larimer County/
Pueblo County/ mineralogy/ petrology/ geochemistry/
black shale/ alteration/ White River group/
uranium/ radioactivity/ Cretaceous shales/ Great
Plains/ El Paso County/
- Tourtelot, H. A., 1956
marine black shales/ Boulder County/ Crowley
County/ El Paso County/ Jefferson County/ Kiowa
County/ Larimer County/ Pueblo County/ petrology/
geochemistry/ black shale/ alteration/ White
River group/ uranium/ radioactivity/ Cretaceous
shales/ Great Plains/ Cheyenne County/ mineralogy/
- Trautwein, C. M., 1975
Precambrian rocks/ stratigraphy/ structure/
metamorphic petrology/ Eldorado Springs quadrangle/
Ralston Buttes quadrangle/ Jefferson County/
Boulder County/ Front Range/ igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Jefferson County/ reconnaissance/
ore deposits/ Front Range/ sandstone/ sandstone/
coal/ igneous-metamorphic/
- U.S. Geological Survey, 1950
shales/ radioactivity/ carbonaceous shales/
Jefferson County/ Rio Blanco County/ oil shale/
Front Range/ Colorado Plateau/ bituminous shales/
- U.S. Geological Survey, 1953
geologic mapping/ Colorado Plateau/ Front Range/
carbonaceous rocks/ geochemistry/ reconnaissance/
black shales/ sandstone/ igneous-metamorphic/

JEFFERSON COUNTY

- geology/ ore deposits/ Gilpin County/ Clear
Creek County/ Jefferson County/ Montrose County/
Mesa County/ San Miguel County/ Gunnison County/
- U.S. Geological Survey, 1953
Colorado Plateau/ Front Range/ sandstone/ coal/
springs/ igneous-metamorphic/ shale/ Gilpin
County/ Clear Creek County/ Jefferson County/
Boulder County/ Custer County/ thorium/ Gunnison
County/ La Plata County/ San Juan County/ Ouray
County/
- U.S. Geological Survey, 1954
Clear Creek County/ Gilpin County/ ore deposits/
reserves/ Colorado Plateau/ exploration/ sandstone/
Mesa County/ Montrose County/ San Miguel County/
Garfield County/ Moffat County/ Dolores County/
Rio Blanco County/ Front Range/ igneous-metamorphic/
Jefferson County/ pitchblende/ hydrogeochemical
exploration/ stream sediments/ ground water/
mine waters/
- U.S. Geological Survey, 1954
Front Range/ Colorado Plateau/ stratigraphy/
botanical prospecting/ mineralogy/ Ralston Buttes
district/ black shale/ reconnaissance/ analyses/
Jefferson County/ sandstone/ igneous-metamorphic/
- U.S. Geological Survey, 1955
Beaver Mesa/ Disappointment Valley/ Front Range/
Jo Dandy area/ La Sal Creek area/ Monogram Mesa/
exploration/ drilling/ Ralston Buttes district/
Uravan district/ Montrose County/ San Miguel
County/ Mesa County/ Jefferson County/ Colorado
Plateau/ sandstone/ igneous-metamorphic/
- U.S. Geological Survey, 1955
Front Range/ Golden Gate Canyon area/ Uravan
district/ exploration/ drilling/ Colorado Plateau/
Jefferson County/ San Miguel County/ Montrose
County/ Mesa County/ Dolores County/ sandstone/
igneous-metamorphic/ Ralston Buttes district/
- U.S. Geological Survey, 1955
Colorado Plateau/ Front Range/ sandstone/ geologic
mapping/ veins/ carbonaceous rocks/ geochemistry/
reconnaissance/ analyses/ igneous-metamorphic/
Mesa County/ Montrose County/ Dolores County/
San Miguel County/ Montezuma County/ Fremont
County/ Jefferson County/
- U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ veins/ geologic
mapping/ mineralogy/ petrology/ geophysics/
carbonaceous rocks/ analyses/ sandstone/ San
Miguel County/ Dolores County/ Montrose County/
Montezuma County/ Jefferson County/ Mesa County/
igneous-metamorphic/
- U.S. Geological Survey, 1956
Colorado Plateau/ mapping/ geology/ geophysics/
mineralogy/ vanadium/ carbonaceous rocks/ petrology/
San Miguel County/ sandstone/ igneous-metamorphic/
Dolores County/ Montrose County/ Montezuma County/
Jefferson County/ Front Range/ Mesa County/
Fremont County/
- U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ geology/ geophysics/

- mineralogy/ research/ sandstone/ San Miguel County/ Igneous-metamorphic/ Dolores County/ Montrose County/ Mesa County/ Montezuma County/ Jefferson County/ Fremont County/
- Van Horn, Richard, 1976
geology/ Golden quadrangle/ Jefferson County/ Igneous-metamorphic/ Front Range/
- Vine, J. D., 1956
uranium/ coal/ Old Leyden coal mine/ Jefferson County/ Cretaceous/ Laramie Formation/ shale/ Front Range/
- Vine, J. D., 1956
uranium/ coal/ Old Leyden coal mine/ Jefferson County/ Cretaceous/ Laramie Formation/ shale/ Front Range/
- Vine, J. D., 1962
geology/ uranium/ coal/ carbonaceous rocks/ Front Range/ Jefferson County/
- Walker, G. W., 1956
ore deposits/ host rocks/ alteration/ veins/ sandstone/ igneous-metamorphic/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ dolomite/ Pitkin County/ Larimer County/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/
- Walker, G. W., 1957
Marysvale/ leaching/ uranium/ ore deposits/ supergene alteration/ veins/ Marshall Pass/ Colorado/ Utah/ Saguache County/ Nigger shaft/ North Star mine/ Jefferson County/ Gilpin County/ Front Range/ sandstone/ igneous-metamorphic/ zoning/ Madonna mine/ Chaffee County/
- Walker, G. W., 1963
alteration/ veins/ igneous-metamorphic/ sandstone/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ Cochetopa district/ ore deposits/ Placerville district/ San Miguel County/ Larimer County/ Central City district/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/
- Walker, G. W., 1963
Marysvale/ leaching/ uranium/ ore deposits/ supergene alteration/ veins/ Marshall Pass/ Colorado/ Utah/ Saguache County/ Nigger Shaft/ North Star mine/ Jefferson County/ Gilpin County/ Front Range/ sandstone/ igneous-metamorphic/ zoning/ Madonna mine/ Chaffee County/
- Walker, G. W., 1963
age determination/ ore deposits/ veins/ Tertiary/ Cretaceous/ Front Range/ Wood mine/ Iron mine/ Gilpin County/ German mine/ Copper King mine/ Larimer County/ igneous-metamorphic/ Schwartzwalder mine/ Jefferson County/ Los Ochos mine/ Saguache County/ Isotopes/
- Walker, G. W., and Adams, J. W., 1957
Boulder County/ Larimer County/ Clear Creek County/ Central City district/ Gilpin County/ Caribou mine/ Front Range/ Jefferson County/ Placerville district/ San Miguel County/ Colorado Plateau/ ore deposits/ Marshall Pass/ Saguache County/ Copper King mine/ sandstone/ mineralogy/ veins/ textures/ structures/ paragenesis/ Los Ochos mine/ Schwartzwalder mine/ Igneous-metamorphic/
- Walker, G. W., and Adams, J. W., 1963
Boulder County/ Larimer County/ Placerville district/ Central City district/ Gilpin County/ Clear Creek County/ Front Range/ Jefferson County/ Schwartzwalder mine/ San Miguel County/ Colorado Plateau/ Copper King mine/ Saguache County/ ore deposits/ Caribou mine/ Los Ochos mine/ sandstone/ Colorado/ mineralogy/ igneous-metamorphic/ textures/ structures/ paragenesis/
- Walker, G. W., and Osterwald, F. W., 1956
ore deposits/ veins/ fluorite/ Front Range/ Gilpin County/ coal/ Jefferson County/ Placerville district/ San Miguel County/ Clear Creek County/ sandstone/ igneous-metamorphic/ Colorado Plateau/ Cochetopa district/ Saguache County/ Powderhorn district/ Custer County/ Chaffee County/
- Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ geology/ Front Range/ Gilpin County/ Jefferson County/ sandstone/ Boulder County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/ Saguache County/ Custer County/ Chaffee County/ Clear Creek County/ Jamestown district/ Cochetopa district/ Powderhorn district/ Placerville district/
- Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ genesis/ Placerville district/ transportation/ deposition/ depositional environments/ Clear Creek County/ Gilpin County/ Saguache County/ Jefferson County/ Cochetopa district/ Front Range/ San Miguel County/ Leyden coal mine/ Larimer County/ Boulder County/ sandstone/ igneous-metamorphic/
- Wells, J. D., 1967
geology/ Eldorado Springs quadrangle/ Boulder County/ Jefferson County/ igneous-metamorphic/ Front Range/
- Wells, J. D., Sheridan, P. M., and Albee, A. L., 1961
metamorphism/ structure/ geologic history/ Coal Creek area/ Front Range/ igneous-metamorphic/ Jefferson County/ Clear Creek County/
- Wells, J. D., Sheridan, P. M., and Albee, A. L., 1964
Precambrian/ quartzite/ schist/ Coal Creek/ Front Range/ igneous-metamorphic/ Jefferson County/ Clear Creek County/ Idaho Springs Formation/
- Wilson, J. H., 1923
Denver area/ ore deposits/ carnotite/ sandstone/ Jefferson County/ Leyden coal mine/ Front Range/ Laramie Formation/
- Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/ ore deposits/ Jefferson County/ San Miguel County/ Saguache County/ Park County/ Boulder County/ Montrose County/ Moffat County/ sandstone/ Front Range/ coal/ igneous-metamorphic/

JEFFERSON COUNTY

KIT CARSON COUNTY

Wood, H. B., 1956

Colorado Plateau/ genesis/ host rocks/ uranium/ sandstone/ production/ geology/ Boulder County/ Jefferson County/ Saguache County/ Park County/ Montrose County/ San Miguel County/ Moffat County/ coal/ Igneous-metamorphic/ Front Range/

Young, E. J., 1977

geology/ maps/ radiometric maps/ mineralogic maps/ underground workings/ Schwartzwalder mine/ Igneous-metamorphic/ Front Range/ uranium/ Jefferson County/

Young, E. J., and Lehr, M., 1975

Schwartzwalder mine/ Jefferson County/ Front Range/ Igneous-metamorphic/ uranium/ ore deposits/

KIOWA COUNTY

Brown, L. J., and Easton, W. W., 1955

ore deposits/ reconnaissance/ airborne/ Huerfano Embayment/ Intrusives/ volcanics/ Las Animas Arch/ La Veta Pass area/ Huerfano County/ Las Animas County/ Otero County/ Costilla County/ Pueblo County/ Crowley County/ Kiowa County/ Bent County/ Prowers County/ Baca County/ sandstone/ shale/ claystone/ Igneous-metamorphic/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1952

Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ Igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1953

Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ Igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/

King, R. U., Moore, F. B., and Leonard, B. F., 1952

Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Kiowa County/ Larimer County/ Moffat County/ Pitkin County/ Rio Blanco County/ Routt County/ ore guides/ pitchblende/ hydrocarbons/ metal-mining districts/ ore deposits/ limestone/ sandstone/ veins/ breccia pipes/ Eagle County/ hot spring deposits/ fluorite/ Igneous-metamorphic/

Landis, E. R., 1954

Colorado/ Kansas/ exploration/ black shale/ Cretaceous/ Cheyenne County/ Kiowa County/ Crowley County/ Las Animas County/ map/ Pierre Shale/

Landis, E. R., 1955

Cheyenne County/ Crowley County/ Kiowa County/ Las Animas County/ Pueblo County/ genesis/ Pierre Shale/ Niobrara Formation/ shale/ Sharon Spring Member/ black shales/ ore deposits/ radioactivity/ uranium/ Yuma County/ stratigraphy/ uraniferous/

Landis, E. R., 1956

ground water/ surface water/ Kansas/ Colorado/ Oklahoma/ shale/ tuff/ sandstone/ Smoky Hill River valley/ Rule Creek basin/ Baca County/ siltstone/ uranium/ claystone/ Bent County/ Las Animas County/ Kiowa County/ Cheyenne County/ Crowley County/ Lincoln County/ springs/ wells/ Muddy Creek/ geochemistry/

Landis, E. R., 1957

Colorado/ Kansas/ New Mexico/ Oklahoma/ exploration/ geochemistry/ ground water/ surface water/ tuff/ shale/ sandstone/ wells/ springs/ Cheyenne County/ Bent County/ Las Animas County/ Kiowa County/ Crowley County/ Lincoln County/ uranium/ Baca County/

Landis, E. R., 1959

Colorado/ Kansas/ ore deposits/ Cretaceous/ Pierre Shale/ Sharon Springs Member/ radioactivity/ Cheyenne County/ Crowley County/ Kiowa County/ Yuma County/ Las Animas County/ Pueblo County/ shale/ black shale/

Landis, E. R., 1960

ground water/ surface water/ Great Plains/ analyses/ Baca County/ Bent County/ Cheyenne County/ Crowley County/ Kiowa County/ Lincoln County/ Prowers County/ sandstone/ Las Animas County/ geochemistry/

Scott, R. C., and Barker, F. B., 1961

ground water/ radium/ La Plata County/ Cheyenne County/ Kiowa County/ Lincoln County/ Crowley County/ Otero County/ Bent County/ Prowers County/ Las Animas County/ Baca County/ Montezuma County/ Archuleta County/ Colorado Plateau/

Tourtelot, H. A., 1955

Boulder County/ Cheyenne County/ Crowley County/ Jefferson County/ Kiowa County/ Larimer County/ Pueblo County/ mineralogy/ petrology/ geochemistry/ black shale/ alteration/ White River group/ uranium/ radioactivity/ Cretaceous shales/ Great Plains/ El Paso County/

Tourtelot, H. A., 1956

marine black shales/ Boulder County/ Crowley County/ El Paso County/ Jefferson County/ Kiowa County/ Larimer County/ Pueblo County/ petrology/ geochemistry/ black shale/ alteration/ White River group/ uranium/ radioactivity/ Cretaceous shales/ Great Plains/ Cheyenne County/ mineralogy/

KIT CARSON COUNTY

Scott, R. C., and Barker, F. B., 1962

data/ uranium/ radium/ ground water/ analyses/ Logan County/ Phillips County/ Prowers County/ Yuma County/ Jefferson County/ Garfield County/ Kit Carson County/ Pitkin County/ Mesa County/ Huerfano County/ Baca County/ Montezuma County/ Front Range/ Colorado Plateau/

LAKE COUNTY

- Butler, A. P., Jr., 1952
Front Range/ thorium/ Colorado Plateau/ Morrison Formation/ igneous-metamorphic/ Chinle Formation/ Shinarump Member/ geology/ ore deposits/ pegmatites/ veins/ sandstone/ placers/ carnotite/ fresh waters/ gases/ Gilpin County/ Clear Creek County/ Custer County/ Lake County/ San Miguel County/ Gunnison County/
- Case, J. E., 1967
anomalies/ gravity surveys/ aeromagnetic surveys/ igneous-metamorphic/ ore guides/ geophysics/ Park County/ Lake County/ Park Range/ sandstone/ Colorado mineral belt/
- Coats, R. R., 1956
felsic volcanic rocks/ igneous-metamorphic/ uranium/ trace elements/ Cenozoic/ genesis/ Gunnison County/ Pitkin County/ Lake County/ Park County/ Chaffee County/ Ouray County/ Saguache County/ Hinsdale County/
- Coats, R. R., 1956
uranium/ trace elements/ felsic volcanic rocks/ Cenozoic/ genesis/ igneous-metamorphic/ Gunnison County/ Pitkin County/ Lake County/ Park County/ Chaffee County/ Ouray County/ Saguache County/ Hinsdale County/
- Duncan, D. C., compiler, 1953
ore deposits/ black shale/ Weber Formation/ exploration/ shale/ reconnaissance/ Belden Formation/ Paradox Member/ Eagle County/ Garfield County/ Gunnison County/ Hermosa Formation/ San Juan County/ La Plata County/ Lake County/ Pony Express Limestone Member/ Ouray County/ Dakota Sandstone/ Archuleta County/ Pierre Shale/ Las Animas County/ Huerfano County/ Vermejo Formation/ limestone/ sandstone/ Front Range/ Colorado Plateau/
- Hurley, P. M., and Fairbairn, H. W., 1957
uranium/ thorium/ zircon/ analyses/ Front Range/ sphene/ apatite/ epidote/ monazite/ granite/ minerals/ pegmatites/ mineralogy/ Climax/ Colorado/ Massachusetts/ Nova Scotia/ Canada/ Germany/ El Paso County/ Eagle County/ Lake County/ Summit County/ igneous-metamorphic/
- King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/
- Leonard, B. F., 3d, 1953
pitchblende/ ore deposits/ zoning/ Lake County/ Front Range/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ Pitkin County/ Teller County/ San Juan County/ Coeur d'Alene/ Idaho/
- Phair, George, 1953
Front Range/ Central City district/ ore deposits/ geochemistry/ petrology/ mineralogy/ bostonite/ pitchblende/ Wood mine/ Kirk mine/ igneous-metamorphic/ Quartz Hill area/ Copper King mine/ Larimer County/ Jamestown district/ Boulder County/ Chalk Mountain rhyolite/ Climax/ beta-uranophane/ uraninite/ Lake County/ Eagle County/ Summit County/
- Pierson, C. T., and Singewald, Q. D., 1953
Sugar Loaf district/ St. Kevin district/ Lake County/ igneous-metamorphic/ geology/ veins/ minerals/ autunite/ florencite/ metatorbernite/ torbernite/ Josie May mine/ Torquoise Chief mine/ granite/ turquoise/ Wilkesbarre adit/ mineralogy/ leaching/ Precambrian rocks/ Tertiary/ schist/
- Pierson, C. T., and Singewald, Q. D., 1954
St. Kevin district/ ore deposits/ mineralization/ ore minerals/ maps/ Lake County/ veins/ uranium/ igneous-metamorphic/ granite/ Sugar Loaf district/ Tertiary/ Josie May mine/ Precambrian rocks/ Torquoise Chief mine/ schist/
- Pierson, C. T., Singewald, Q. D., and Dings, M. G., 1953
Colorado mineral belt/ ore deposits/ exploration/ St. Kevin district/ Summit County/ Chaffee County/ Gunnison County/ Glacier Mountain/ Alma district/ Lake County/ igneous-metamorphic/ Park County/
- Singewald, Q. D., 1955
Sugarloaf district/ St. Kevin district/ Lake County/ geology/ ore deposits/ production/ petrography/ economic geology/ veins/ torbernite/ granite/ igneous-metamorphic/
- Singewald, Q. D., Wilmarth, V. R., Pierson, C. T., and others, n.d.
Lake County/ Chalk Mountain rhyolite/ radioactive inclusions/ radioactivity/ igneous-metamorphic/

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Lake County/ reconnaissance/
igneous-metamorphic/ ore deposits/

Van Alstine, R. E., 1968
structural geology/ Tertiary trough/ Arkansas
Valley/ San Luis Valley/ Rio Grande depression/
Fremont County/ Chaffee County/ Lake County/
Saguache County/

Zogg, William, 1976
Lake County/ geology/ Colorado Gulch area/ Sawatch
Range/ Turquoise Lake area/ St. Kevin district/
igneous-metamorphic/

LA PLATA

Adler, H. H., 1963
genesis/ sandstone/ ore deposits/ Jefferson
County/ Pueblo County/ Gunnison County/ Moffat
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ Colorado Plateau/ Front Range/
Rio Blanco County/

Adler, H. H., 1964
uranium/ roll ore/ exploration/ sandstone/ ore
deposits/ Jefferson County/ Pueblo County/ Gunnison
County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
San Miguel County/ Montezuma County/ La Plata
County/ Archuleta County/ Moffat County/ Colorado
Plateau/ Front Range/ Dolores County/

Bain, G. W., 1957
Colorado Plateau/ ore deposits/ organic ores/
genesis/ Colorado/ general/ Mesa County/ Delta
County/ sandstone/ Montrose County/ San Miguel
County/ Dolores County/ Archuleta County/ Garfield
County/ La Plata County/

Baker, A. A., Dane, C. H., and Reeside, J. B.,
Jr., 1947
Colorado/ Arizona/ New Mexico/ Utah/ Jurassic
formations/ correlation/ Morrison Formation/
sandstone/ Montezuma County/ La Plata County/
Archuleta County/ Colorado Plateau/

Baltz, E. H., Jr., 1953
Colorado/ New Mexico/ ore deposits/ exploration/
occurrence/ carbonaceous rocks/ Paradox Formation/
San Miguel County/ shale/ sandstone/ siltstone/
coal/ Archuleta County/ La Plata County/ Montezuma
County/ tuff/ igneous-metamorphic/ Colorado
Plateau/ Bald Eagle prospect/

Baltz, E. H., Jr., 1955
Colorado/ New Mexico/ ore deposits/ exploration/
carbonaceous rocks/ sandstone/ Mesa County/
Delta County/ Montrose County/ Gunnison County/
Uray County/ San Miguel County/ Hinsdale County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ coal/ shale/ reconnaissance/
Colorado Plateau/

Bush, A. L., and Bryner, Leonid, 1953
carnotite/ roscoelite/ stratigraphy/ Entrada

Sandstone/ minerals/ Pony Express Limestone
Member/ Wanakah Formation/ limestone/ sandstone/
Colorado Plateau/ uranium/ vanadium/ San Juan
Mountains/ San Miguel County/ ore deposits/
San Juan County/ Dolores County/ La Plata County/
Lightner Creek district/ Placerville district/
resources/

Bush, A. L., Marsh, O. T., and Taylor, R. B., 1957
San Juan Mountains/ structure/ Placerville district/
San Miguel County/ igneous-metamorphic/ uranium/
vanadium/ selenium/ ore deposits/ Colorado Plateau/
San Juan County/ La Plata County/ Dolores County/
sandstone/ veins/

Cadigan, R. A., 1967
petrology/ Morrison Formation/ Colorado Plateau/
sandstone/ Gunnison County/ La Plata County/
Archuleta County/ San Miguel County/ Mesa County/
Delta County/ Eagle County/ Montrose County/
Montezuma County/ mineralogy/ Rio Blanco County/
Salt Wash Member/

Cadigan, R. A., 1971
geochemical distribution/ Colorado Plateau/
red beds/ vanadium/ sandstone/ La Plata County/
Montezuma County/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/ Delta
County/ Rio Blanco County/ geochemistry/ Garfield
County/ Moenkopi Formation/

Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado
Plateau/ paleontology/ sandstone/ Triassic strata/
Eagle County/ La Plata County/ Archuleta County/
Garfield County/ Mesa County/ Moffat County/
Montezuma County/ Pitkin County/ Montrose County/
Rio Blanco County/ Routt County/ San Miguel
County/ San Juan County/ Summit County/ Park
County/ Delta County/ Dolores County/ mineralogy/
conglomerate/ Gunnison County/ Ouray County/

Cannon, H. L., 1960
Colorado Plateau/ ore deposits/ botanical prospecting/
exploration/ indicator plants/ sandstone/ Rio
Blanco County/ Garfield County/ Mesa County/
Delta County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
geobotany/

Cater, F. W., Jr., 1955
geology/ Dolores County/ salt anticlines/ Montrose
County/ San Miguel County/ sandstone/ Utah/
Paradox Basin/ Colorado Plateau/ carnotite/
San Juan Basin/ Archuleta County/ La Plata County/

Chew, R. T., 3d, 1955
Colorado Plateau/ Rifle mine/ Urayan district/
map/ Uranium Peak/ sandstone/ production/ uranium/
vanadium/ Morrison Formation/ La Plata County/
ore deposits/ Entrada Sandstone/ Rio Blanco
County/ Mesa County/ Garfield County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ Gateway district/

Chew, R. T., 3d, 1955
sandstone/ Mesa County/ Utah/ stream sediments/
exploration/ radioactivity/ Delta County/ Montrose
County/ gravels/ San Miguel County/ Dolores

- County/ Ouray County/ San Juan County/ Montezuma County/ La Plata County/ Colorado Plateau/
- Chew, R. T., 3d, 1956
Mesa County/ Delta County/ Montrose County/ sandstone/ Dolores County/ Ouray County/ San Juan County/ gravels/ Montezuma County/ La Plata County/ Colorado Plateau/ exploration/ stream sediments/ radioactivity/ San Miguel County/
- Chew, R. T., 3d, 1956
Rifle mine/ Uravan district/ Uranium Peak/ vanadium/ production/ Colorado Plateau/ uranium/ sandstone/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Entrada Sandstone/ ore deposits/ Garfield County/ Morrison Formation/
- Coleman, R. G., Leo, G. W., and Stewart, D. B., 1957
Colorado Plateau/ ore deposits/ genesis/ geologic thermometry/ radioactive minerals/ sphalerite/ pyrite/ sulfides/ Good Hope mine/ Lytner (Lightner) Creek/ Wyoming/ sandstone/ Colorado/ Utah/ La Plata County/ Dolores County/ geothermometry/
- Craig, L. C., and Holmes, C. N., 1951
Morrison Formation/ Colorado Plateau/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Mesa County/ stratigraphy/ Glen Canyon group/ San Rafael group/
- Craig, L. C., and Holmes, C. N., 1951
Colorado/ Utah/ Jurassic/ stratigraphy/ Morrison Formation/ Glen Canyon group/ San Rafael group/ sandstone/ San Juan basin/ Montezuma County/ La Plata County/ Colorado Plateau/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951
Colorado Plateau/ Morrison Formation/ Mesa County/ stratigraphy/ Glen Canyon group/ Montezuma County/ Delta County/ San Rafael group/ Dolores County/ Gunnison County/ Montrose County/ sandstone/ Moffat County/ Ouray County/ San Juan County/ San Miguel County/ La Plata County/ Rio Blanco County/ Garfield County/ Archuleta County/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1955
stratigraphy/ Morrison Formation/ Colorado Plateau/ sandstone/ Recapture Member/ Mesa County/ Ouray County/ Delta County/ Gunnison County/ Montrose County/ San Juan County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Salt Wash Member/
- Cross, C. W., and Larsen, E. S., 1915
stratigraphy/ La Plata Sandstone/ unconformity/ Precambrian/ San Juan Mountains/ Montrose County/ Gunnison County/ igneous-metamorphic/ sandstone/ Colorado Plateau/ geology/
- Decker, E. R., 1969
geophysics/ geothermal/ radioactive materials/ heat flow/ Colorado/ New Mexico/ Summit County/ Jefferson County/ Clear Creek County/ La Plata County/ igneous-metamorphic/ Roberts tunnel/
- Duncan, D. C., compiler, 1953
ore deposits/ black shale/ Weber Formation/ exploration/ shale/ reconnaissance/ Belden Formation/ Paradox Member/ Eagle County/ Garfield County/ Gunnison County/ Hermosa Formation/ San Juan County/ La Plata County/ Lake County/ Pony Express Limestone Member/ Ouray County/ Dakota Sandstone/ Archuleta County/ Pierre Shale/ Las Animas County/ Huerfano County/ Vermejo Formation/ limestone/ sandstone/ Front Range/ Colorado Plateau/
- Eckel, E. B., 1949
geology/ ore deposits/ La Plata district/ economic geology/ production/ Montezuma County/ La Plata County/ igneous-metamorphic/ sandstone/
- Ekren, E. B., and Houser, F. N., 1959
stratigraphy/ Cretaceous/ Jurassic/ sandstone/ conglomerate/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/ San Juan basin/
- Elston, D. P., and Landis, E. R., 1960
sandstone/ unconformities/ Paradox Valley/ Gypsum Valley/ salt anticlines/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Dolores County/ Hermosa Formation/ stratigraphy/
- Fassett, J. E., and Hinds, J. S., 1971
geology/ fuel/ resources/ Fruitland Formation/ San Juan basin/ Montezuma County/ La Plata County/ Archuleta County/ Colorado/ uranium/ sandstone/ New Mexico/ shale/ Colorado Plateau/ Kirtland Shale/
- Finch, W. I., 1955
Colorado Plateau/ ore deposits/ uranium/ sandstone/ copper/ conglomerate/ ore-bearing formation/ limestone/ vanadium/ Rio Blanco County/ Garfield County/ Mesa County/ geology/ Delta County/ San Miguel County/ Dolores County/ Rifle mine/ Montezuma County/ La Plata County/ Greysill mine/ Placerville district/ Uravan district/ Gateway district/ map/ geology/
- Finch, W. I., 1956
Colorado Plateau/ ore deposits/ La Plata County/ production/ Triassic/ Chino Formation/ shale/ sandstone/ conglomerate/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Garfield County/ Rio Blanco County/ geology/
- Finch, W. I., 1959
Colorado Plateau/ ore deposits/ production/ Triassic/ Chino Formation/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ sandstone/ conglomerate/ shale/ Garfield County/ Rio Blanco County/ geology/
- Finch, W. I., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/

- Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/
- Fischer, R. P., 1950
Colorado Plateau/ ore deposits/ sandstone/ uranium/ Morrison Formation/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ ore guides/ Garfield County/ San Miguel County/
- Fischer, R. P., 1955
Durango district/ Placerville district/ Rico district/ uranium/ vanadium/ chromium/ Delta County/ Garfield County/ La Plata County/ Ouray County/ Rio Blanco County/ San Juan County/ San Miguel County/ minerals/ mariposite/ sandstone/ Entrada Sandstone/ regional relations/ ore deposits/ Colorado Plateau/ Mesa County/ Moffat County/ Montezuma County/ Montrose County/ Rifle area/ Dolores County/
- Fischer, R. P., 1956
ore deposits/ Colorado Plateau/ uranium/ vanadium/ localization/ Entrada Sandstone/ sandstone/ Rifle district/ Garfield County/ genesis/ San Miguel County/ La Plata County/ Placerville district/ Rico district/ Dolores County/
- Fischer, R. P., 1956
vanadium/ uranium/ ore deposits/ Colorado Plateau/ sandstone/ Garfield County/ San Miguel County/ La Plata County/ Rifle district/ Placerville district/ Rico district/ Durango district/ genesis/ localization/ Dolores County/ Entrada Sandstone/
- Fischer, R. P., 1968
geology/ structure/ genesis/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ Chino Formation/ Morrison Formation/ Montezuma County/ La Plata County/ San Juan County/ Garfield County/ Rio Blanco County/ Moffat County/ Entrada Sandstone/ production/ stratigraphy/ Colorado Plateau/ ore deposits/
- Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ clay mineralogy/ uranium/ vanadium/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Ganrels, R. M., and Larsen, E. S., 3d, compilers, 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ sandstone/ ground water/ clay/ mudstone/ organics/ Peanut mine/ J. J. mine/ Montrose County/ Rifle mine/ Garfield mine/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Archuleta County/
- Gill, J. R., 1953
Colorado/ Montana/ Wyoming/ ore deposits/ carbonaceous rocks/ coal/ Park County/ Gunnison County/ Delta County/ Las Animas County/ El Paso County/ Teller County/ La Plata County/ Montezuma County/ Denver Basin/ Larimer County/ shale/ Crested Butte/ Laramie Formation/ Colorado Plateau/ Front Range/
- Girdley, W. A., Flook, J. E., and Harris, R. E., 1975
spectroscopy/ ore deposits/ uranium/ vanadium/ lithology/ mineralogy/ sandstone/ subsurface stratigraphy/ Morrison Formation/ Sage Plain area/ Colorado Plateau/ Utah/ Colorado/ Dolores County/ Montezuma County/ La Plata County/ San Miguel County/
- Hall, C. R., 1976
alkalic/ igneous rocks/ igneous-metamorphic/ Gilpin County/ Front Range/ bibliography/ San Juan County/ Custer County/ Fremont County/ La Plata County/ Montezuma County/ Gunnison County/ Saguache County/ El Paso County/ Rio Grande County/ Jefferson County/ Larimer County/ Boulder County/ Colorado Plateau/ Clear Creek County/ Teller County/
- Haynes, D. D., Vogel, J. D., and Wyant, D. G., compilers, 1972
Colorado/ Utah/ geology/ structure/ ore deposits/ uranium/ Cortez quadrangle/ map/ host formations/ sandstone/ San Miguel County/ Dolores County/ La Plata County/ Colorado Plateau/ stratigraphy/ Montezuma County/
- Hess, F. L., 1914
genesis/ carnotite/ Colorado/ uranium/ vanadium/ Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/
- Hess, F. L., 1925
carnotite/ vanoxite/ vanadium/ mineralogy/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Colorado Plateau/ ore deposits/ Delta County/
- Holmes, W. H., 1878
Dolores County/ San Miguel County/ La Plata County/ San Miguel Mountains/ geology/ Colorado Plateau/ igneous-metamorphic/ sandstone/ Sierra Abajo Mountains/
- Hoover, W. B., 1950
Glen Canyon Formation/ San Raphael Formation/ correlation/ sandstone/ La Plata County/ Jurassic Formations/ stratigraphy/ Utah/ Colorado/ Arizona/ New Mexico/ San Juan basin/ Archuleta County/ Montezuma County/ sandstone/ Colorado Plateau/ Morrison Formation/
- Houston, R. S., and Murphy, J. F., 1970
organic materials/ La Plata County/ Durango area/ thorium/ titanium/ Cretaceous/ Dakota Sandstone/ barium/ bitumens/ gold/ rare earths/ sandstone/ transition elements/ uranium/ petrography/ chemistry/ composition/ mineralogy/
- Hunt, C. B., 1956
Cenozoic/ geology/ Colorado Plateau/ physiography/ stratigraphy/ Moffat County/ sandstone/ Delta

- County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1955
Colorado Plateau/ ore deposits/ absolute age/ host rocks/ sandstone/ formational environments/ Entrada Sandstone/ Kayenta Formation/ Garfield County/ Moffat County/ Rio Blanco County/ San Miguel County/ Mesa County/ Montrose County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ regional transmissivity/ Delta County/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Montrose County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/
- Jobin, D. A., 1962
Colorado Plateau/ ore deposits/ Morrison Formation/ transmissivity/ sandstone/ San Miguel County/ ground water/ conglomerate/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ Igneous-metamorphic/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ Igneous-metamorphic/
- Kelth, S. B., 1945
ore deposits/ uranium/ geography/ mining/ exploration/ maps/ tonnage/ grade/ Lightner Creek district/
- San Juan basin/ Colorado Plateau/ production/ sandstone/ La Plata County/
- Keller, W. D., 1962
clay minerals/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ mineralogy/ Mesa County/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/
- Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/
- Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/ Archuleta County/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Moffat County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ regional structure/
- Kelley, V. C., 1959
structures/ fracture systems/ Colorado Plateau/ faults/ fractures/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Montezuma County/ Moffat County/ San Juan County/ Ouray County/ Delta County/ Gunnison County/ Garfield County/ La Plata County/ Rio Blanco County/
- Kerr, P. F., 1958
uranium/ ore deposits/ genesis/ alteration/ mineralogy/ Colorado Plateau/ Archuleta County/ conglomerate/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/
- Kerr, P. F., 1958
Colorado Plateau/ ore deposits/ genesis/ sandstone/ stratigraphy/ uranium/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ hydrothermal emplacement/ Dolores County/

- Larsen, E. S., and Cross, C. W., 1956
geology/ petrology/ San Juan region/ Colorado Plateau/ Igneous-metamorphic/ Montrose County/ Ouray County/ San Miguel County/ Dolores County/ La Plata County/ Gunnison County/ Hinsdale County/ Archuleta County/ Mineral County/ Saguache County/ Conejos County/ Alamosa County/ San Juan County/ Montezuma County/ Rio Grande County/
- Malan, R. C., 1968
Colorado/ ore deposits/ genesis/ La Plata County/ San Juan County/ New Mexico/ metallogenesis/ San Miguel County/ structures/ Colorado Plateau/ San Juan-San Miguel-La Plata region/ veins/ igneous-metamorphic/
- Maxwell, J. C., 1977
San Juan Mountains/ geology/ Archuleta County/ hydrogeochemistry/ stream sediments/ stream waters/ ground waters/ Storm King Mountain/ Vallecito Creek/ Montrose County/ Gunnison County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ San Juan County/ Ouray County/ Hinsdale County/ Mineral County/
- McMillan, W. D., 1960
minerals/ resources/ Colorado/ New Mexico/ sandstone/ La Plata County/ Archuleta County/ Colorado Plateau/ San Juan Irrigation project/ Chama Irrigation project/
- Miesch, A. T., 1963
Colorado Plateau/ ore deposits/ elements/ geology/ Morrison Formation/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/ Dolores County/
- Mullens, T. E., and Freeman, V. L., 1952
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Colorado/ uranium/ vanadium/ Mesa County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Utah/ Arizona/ New Mexico/ San Miguel County/ Morrison Formation/
- Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/
- Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/
- Newman, W. L., 1962
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ sandstone/ mudstone/ limestone/ Uravan district/ Moffat County/ Rio Blanco County/ Ouray County/ Dolores County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/
- Pierson, C. T., 1953
San Juan Mountains/ San Juan County/ La Plata County/ Ouray County/ Dolores County/ Bonanza district/ Saguache County/ Mineral County/ Hinsdale County/ La Plata district/ Upper Uncompahgre district/ Colorado Plateau/ igneous-metamorphic/
- Pierson, C. T., Weeks, W. F., and Kleinhampl, F. J., 1956
San Juan Mountains/ Dolores County/ La Plata County/ pitchblende/ reconnaissance/ radioactivity/ mining districts/ fractures/ andesite/ San Miguel County/ hydrocarbons/ calcareous tufa/ hot springs/ ilmonite/ alteration/ diorite/ veins/ fault breccia/ shear zone materials/ San Juan tuff/ Uncompahgre Formation/ igneous-metamorphic/ spring deposits/ Colorado Plateau/
- Pierson, C. T., Weeks, W. F., and Kleinhampl, F. J., 1958
San Juan Mountains/ reconnaissance/ mining districts/ radioactivity/ igneous-metamorphic/ San Juan County/ Ouray County/ San Miguel County/ La Plata County/ Hinsdale County/ Mineral County/ Saguache County/
- Poole, F. G., and Williams, G. A., 1956
sediments/ Colorado Plateau/ ore guides/ uranium/ vanadium/ exploration/ sandstone/ conglomerate/ Morrison Formation/ transportation direction/ Chinle Formation/ Montrose County/ Entrada Sandstone/ Mesa County/ Delta County/ Triassic/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/
- Poole, F. G., and Williams, G. A., 1956
ore guides/ exploration/ uranium/ vanadium/ sandstone/ conglomerate/ transportation direction/ Morrison Formation/ Chinle Formation/ Entrada Sandstone/ sediments/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Triassic/ Colorado Plateau/ San Miguel County/
- Reinhardt, E. V., 1952
Colorado Plateau/ igneous-metamorphic/ sandstone/ uranium/ vanadium/ Tertiary intrusives/ La Plata County/ San Miguel County/ ore deposits/
- Schultz, L. G., 1963
clay minerals/ Moenkopi Formation/ Chinle Formation/ x-ray diffraction/ Ouray County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Colorado Plateau/ sandstone/ La Plata County/
- Scott, R. C., and Barker, F. B., 1961
ground water/ radium/ La Plata County/ Cheyenne County/ Kiowa County/ Lincoln County/ Crowley County/ Utero County/ Bent County/ Prowers County/ Las Animas County/ Baca County/ Montezuma County/ Archuleta County/ Colorado Plateau/

- Sears, R. S., Marjanleht, D. K., and Blomquist, J. T., 1974
 Colorado/ computers/ data processing/ exploration/ geology/ iron/ maps/ New Mexico/ petroleum/ potassium/ radioactivity/ rocks/ stratigraphy/ thorium/ uranium/ ore deposits/ minerals/ well logging/ Morrison Formation/ San Juan basin/ Archuleta County/ La Plata County/ sandstone/ Colorado Plateau/
- Shearer, S. D., Jr., and Sill, C. W., 1969
 atmospheric radiation/ contamination/ enrichment/ environment/ meteorology/ mining/ populations/ radiation doses/ residues/ safety/ sampling/ uranium/ zones/ radon-222/ seasons/ Colorado Plateau/ diurnal variation/ hazards/ radiation hazards/ Utah/ mill tailings/ sandstone/ Mesa County/ La Plata County/
- Shoemaker, E. M., 1954
 Utah/ Colorado/ New Mexico/ Arizona/ Colorado Plateau/ structural features/ Uncompahgre uplift/ tectonics/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ Delta County/ diatremes/ La Plata County/ sandstone/ geology/ guidebook/ Mesa County/ igneous-metamorphic/
- Shoemaker, E. M., 1956
 structural features/ Colorado Plateau/ ore deposits/ veins/ Moffat County/ Rio Blanco County/ La Plata County/ uranium/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ San Juan County/ Ouray County/ sandstone/ Montezuma County/ Dolores County/ Archuleta County/
- Shoemaker, E. M., and Luedke, R. G., 1952
 Colorado Plateau/ map/ uranium/ ore deposits/ sandstone/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Ouray County/ Montezuma County/ La Plata County/ Garfield County/
- Shoemaker, E. M., and Newman, W. L., 1953
 Montezuma County/ La Plata County/ laccolith/ stratigraphy/ Colorado Plateau/ igneous-metamorphic/ Ute Mountains/
- Steven, T. A., Schmitt, L. J. Jr., Sheridan, M. J., and Williams, F. E., 1969
 minerals/ resources/ San Juan primitive area/ iron/ Irving Formation/ igneous-metamorphic/ La Plata County/ San Juan County/ Hinsdale County/ Mineral County/ Elk Park area/ metasediments/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1953
 Colorado Plateau/ age determination/ sandstone/ uranium/ San Juan County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/
- Stokes, W. L., 1944
 Morrison Formation/ Colorado Plateau/ sandstone/ stratigraphy/ correlation/ Garfield County/ Mesa County/ Delta County/ Gunnison County/ Montrose County/ Ouray County/ Dolores County/ Hinsdale County/ Archuleta County/ Montezuma County/ La Plata County/ ore deposits/ San Juan County/
- Thaden, R. E., and Kirk, A. R., 1975
 sandstone/ district studies/ uranium/ resources/ La Plata County/ Archuleta County/ San Juan basin/ stratigraphy/ Montezuma County/ Colorado Plateau/
- U.S. Atomic Energy Commission, 1966
 geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ La Plata County/ reconnaissance/ ore deposits/ sandstone/ igneous-metamorphic/
- U.S. Department of Energy, 1977
 engineering assessment/ inactive uranium mill tailings/ Durango site/ La Plata County/
- U.S. Geological Survey, 1953
 sandstone/ Colorado Plateau/ Front Range/ veins/ igneous-metamorphic/ thorium/ Powderhorn district/ natural waters/ Morrison Formation/ Mesa County/ San Miguel County/ Dolores County/ Gilpin County/ San Juan County/ La Plata County/ Ouray County/ geology/ Gunnison County/ Montrose County/ San Juan Mountains/ Clear Creek County/ ore deposits/
- U.S. Geological Survey, 1953
 Colorado Plateau/ Front Range/ sandstone/ coal/ springs/ igneous-metamorphic/ shale/ Gilpin County/ Clear Creek County/ Jefferson County/ Boulder County/ Custer County/ thorium/ Gunnison County/ La Plata County/ San Juan County/ Ouray County/
- Weeks, A. D., Coleman, R. G., and Thompson, M. E., 1959
 Colorado Plateau/ ore deposits/ mineralogy/ oxidation/ vanadium/ sandstone/ uranium/ Moffat County/ Dolores County/ Garfield County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/
- Wright, R. J., 1955
 Colorado Plateau/ ore deposits/ ore controls/ lithology/ sandstone/ genesis/ Moffat County/ Dolores County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/ Archuleta County/

LARIMER COUNTY

- Adams, J. A. S., 1954
 volcanic rocks/ uranium/ thorium/ analyses/ Larimer County/ igneous-metamorphic/ Grand County/ Rocky Mountain National Park/ Silverton/ San Juan County/
- Anonymous, 1951
 Larimer County/ Copper King mine/ pitchblende/ igneous-metamorphic/ ore deposits/ Front Range/
- Baillie, W. N., 1962
 pegmatites/ feldspar/ rare earths/ Boulder County/ Chaffee County/ Clear Creek County/ Douglas County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Park County/ igneous-metamorphic/ Front Range/

- Banks, P. O., and Silver, L. T., 1964
Front Range/ ore deposits/ isotopes/ age determination/
uranium/ igneous-metamorphic/ Gilpin County/
Larimer County/ pitchblende/ bostonite/ Central
City district/
- Boos, C. M., and Boos, M. F., 1957
tectonics/ Front Range/ igneous-metamorphic/
Gilpin County/ Larimer County/ Boulder County/
Jefferson County/ geology/ Clear Creek County/
Park County/ Douglas County/ Teller County/
El Paso County/ Fremont County/ Pueblo County/
granite/ schist/ gneiss/ pegmatite/
- Carter, W. D., and Gualtieri, J. L., 1958
map/ tectonics/ Colorado/ Utah/ Moffat County/
Logan County/ geology/ Larimer County/ Jackson
County/ Boulder County/ Jefferson County/ Clear
Creek County/ Gilpin County/ Summit County/
Grand County/ Eagle County/ Routt County/ Garfield
County/ Rio Blanco County/ sandstone/ ore deposits/
igneous-metamorphic/
- Derzay, R. C., and Baker, K. E., 1953
Copper King mine/ ore deposits/ exploration/
Larimer County/ igneous-metamorphic/ veins/
pitchblende/ Precambrian rocks/ granite/ schist/
pegmatite/ copper/ zinc/ uranium/ Front Range/
- Everhart, D. L., 1956
sandstone/ Colorado Plateau/ Front Range/ Copper
King mine/ veins/ Larimer County/ Los Ochos
mine/ Saguache County/ Caribou mine/ Boulder
County/ Schwartzwalder mine/ Carroll mine/ Placerville
district/ San Miguel County/ alteration/ pitchblende/
igneous-metamorphic/ Jefferson County/ Carroll
mine/ structural tension/
- Everhart, D. L., 1956
pitchblende/ Colorado Plateau/ igneous-metamorphic/
granite/ Front Range/ Copper King mine/ Larimer
County/ alteration/ Los Ochos mine/ Saguache
County/ Caribou mine/ Carroll mine/ Boulder
County/ San Miguel County/ ore deposits/ sandstone/
Placerville district/ Schwartzwalder mine/ Jefferson
County/ structural tension/ United States/ Tertiary/
veins/ alteration/
- Finch, W. I., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/
geology/ Larimer County/ Jackson County/ Routt
County/ Moffat County/ Garfield County/ Grand
County/ Eagle County/ Boulder County/ Jefferson
County/ Park County/ Mesa County/ Montrose County/
El Paso County/ San Miguel County/ Bent County/
Park County/ Saguache County/ Pueblo County/
Dolores County/ Las Animas County/ Huerfano
County/ Costilla County/ Custer County/ San
Juan County/ La Plata County/ Montezuma County/
- Gill, J. R., 1953
Colorado/ Montana/ Wyoming/ ore deposits/ carbonaceous
rocks/ coal/ Park County/ Gunnison County/ Delta
County/ Las Animas County/ El Paso County/ Teller
County/ La Plata County/ Montezuma County/ Denver
Basin/ Larimer County/ shale/ Crested Butte/
Laramie Formation/ Colorado Plateau/ Front Range/
- Granger, H. C., and King, R. U., 1950
Larimer County/ Copper King mine/ Copper King
shaft/ Black Hawk claim no. 1/ pitchblende/
analyses/ igneous-metamorphic/ data/ Front Range/
uranium/
- Granger, H. C., and King, R. U., 1951
Larimer County/ pitchblende/ Copper King mine/
Black Hawk no. 1 claim/ igneous-metamorphic/
pitchblende/ geology/ analyses/ Front Range/
- Grossman, E. L., and Smith, B. C., 1956
lithology/ uranium/ ore deposits/ sandstone/
exploration/ Front Range/ Dakota hogback/ Dakota
Sandstone/ Cretaceous/ Boulder County/ Larimer
County/ asphaltite/ Rose Mary No. 1 claim/ Wauketa
lease/ Horsetooth Reservoir site/ Carter Lake/
Bonnell lease/ airborne radiometrics/
- Gruner, J. W., and Smith, D. K., Jr., 1955
slitstone/ sandstone/ Colorado Plateau/ uranium/
coffinite/ Jurassic/ Larimer County/ Black King
mine/ Mesa County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ mineralogy/
Morrison Formation/ Bull Canyon district/ Calamity
Mesa/ Paradox Valley/ Salt Wash Member/ Front
Range/
- Gulliotte, G. B., 1944
reconnaissance/ uranium/ ore deposits/ Front
Range/ igneous-metamorphic/ Park County/ Boulder
County/ Jamestown district/ Larimer County/
Masonville mines/ Chaffee County/ Trout Creek
permatites/ Clear Creek County/ carnotite/
- Hall, C. R., 1976
alkalic/ igneous rocks/ igneous-metamorphic/
Gilpin County/ Front Range/ bibliography/ San
Juan County/ Custer County/ Fremont County/
La Plata County/ Montezuma County/ Gunnison
County/ Saguache County/ El Paso County/ Rio
Grande County/ Jefferson County/ Larimer County/
Boulder County/ Colorado Plateau/ Clear Creek
County/ Teller County/
- Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
pegmatites/ geology/ mineralogy/ Chaffee County/
Boulder County/ Clear Creek County/ Douglas
County/ Fremont County/ Gunnison County/ Jefferson
County/ Larimer County/ Montrose County/ Park
County/ Summit County/ monazite/ thorium/ production/
Front Range/ El Paso County/ igneous-metamorphic/
Colorado Plateau/ Wyoming/ Utah/
- Hickling, N. L., Phair, G., Moore, R., and others,
1970
Boulder Creek batholith/ uranium/ thorium/ age
patterns/ allanite/ mineralogy/ genesis/ paragenesis/
igneous-metamorphic/ Jefferson County/ Clear
Creek County/ Gilpin County/ Boulder County/
Larimer County/ Summit County/ Grand County/
Front Range/ Silver Plume batholith/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and
others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/
Archuleta County/ Routt County/ Eagle County/
Pitkin County/ Gunnison County/ San Juan County/

Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ Igneous-metamorphic/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952

Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ Igneous-metamorphic/

King, R. U., 1951

reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ Igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1952

Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ Igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1953

Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ Igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/

King, R. U., Moore, F. B., and Leonard, B. F., 1952

Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Kiowa County/ Larimer County/ Moffat County/ Pitkin County/ Rio Blanco County/ Routt County/ ore guides/ pitchblende/ hydrocarbons/ metal-mining districts/ ore deposits/ limestone/ sandstone/ veins/ breccia pipes/ Eagle County/ hot spring deposits/ fluorite/ Igneous-metamorphic/

King, R. U., Moore, F. B., and Hinrichs, E. N., 1952
veins/ Colorado/ uranium/ Central City district/ Front Range/ San Miguel County/ pitchblende/ ore deposits/ Larimer County/ Jefferson County/ Gilpin County/ Ralston Creek district/ Jamestown district/ Caribou district/ Lawson district/ Clear Creek County/ Igneous-metamorphic/

Leonard, B. F., 3d, 1952

Front Range/ ore deposits/ pitchblende/ hypogene zoning/ veins/ uranium/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ Igneous-metamorphic/

Leonard, B. F., 3d, 1952

veins/ Front Range mineralogy/ petrology/ pitchblende/ geochemistry/ ore deposits/ uranium/ Central City district/ bostonite/ Gilpin County/ Clear Creek County/ Larimer County/ Boulder County/ Jefferson County/ hypogene zoning/ Igneous-metamorphic/

Lovering, T. S., and Goddard, E. N., 1938

Laramide/ tectonics/ differentiation/ Clear Creek County/ correlation/ geochemistry/ petrology/ Boulder County/ Grand County/ Summit County/ Gilpin County/ Park County/ Larimer County/ Teller County/ Jefferson County/ Front Range/ Igneous-metamorphic/

Mallory, N. S., and Bird, A. G., 1953

exploration/ geology/ Jefferson County/ Ralston Creek area/ Dawson arkose/ James Peak area/ Boulder County/ Adams County/ Larimer County/ Gilpin County/ Igneous-metamorphic/ Idaho Springs Formation/ sandstone/ Dakota Sandstone/ Morrison Formation/ Front Range/

McKelvey, V. E., Page, L. R., Fischer, R. P., 1951

geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ Igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/

Olson, J. C., and Adams, J. W., 1962

thorium/ rare earths/ United States/ Colorado/ Igneous-metamorphic/ Gunnison County/ Fremont County/ Custer County/ Larimer County/ Gilpin County/ Montezuma County/ Moffat County/ El Paso County/

Osterwald, F. W., 1956

Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ Igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/

Osterwald, F. W., 1956

veins/ structural geology/ Precambrian rocks/ Teller County/ structural controls/ ore deposits/ Cordilleran foreland/ Igneous-metamorphic/ Gilpin County/ Front Range/ tectonics/ El Paso County/ Larimer County/ Clear Creek County/

- Osterwald, F. W., and Dean, B. G., 1956
bibliography/ structural geology/ Gilpin County/
Larimer County/ Boulder County/ Jefferson County/
Clear Creek County/ Igneous-metamorphic/ sandstone/
Front Range/ Grand County/ Jackson County/ Summit
County/ Eagle County/ Rio Blanco County/ Garfield
County/ Routt County/ Moffat County/ ore deposits/
tectonics/
- Osterwald, F. W., and Dean, B. G., 1958
ore deposits/ tectonics/ structural geology/
Larimer County/ Boulder County/ Jefferson County/
Gilpin County/ Clear Creek County/ Igneous-metamorphic/
sandstone/ Front Range/ Grand County/ Jackson
County/ Summit County/ Eagle County/ Rio Blanco
County/ Garfield County/ Routt County/ Moffat
County/
- Osterwald, F. W., and Dean, B. G., 1961
Cordilleran foreland/ ore deposits/ genesis/
structural controls/ tectonic patterns/ Front
Range/ Denver basin/ uranium/ Igneous-metamorphic/
Jefferson County/ Boulder County/ Clear Creek
County/ Gilpin County/ Larimer County/
- Page, L. R., 1950
Mount Antero region/ Crystal Mountain district/
San Juan Mountains/ Chaffee County/ Larimer
County/ helvite/ pegmatites/ beryllium/ beryl/
Colorado Plateau/ Igneous-metamorphic/ Devils
Hole mine/ Fremont County/ Gunnison County/
Jefferson County/ San Juan County/ Front Range/
aquamarine/
- Page, L. R., 1950
beryllium/ beryl/ Colorado Plateau/ pegmatites/
Larimer County/ Igneous-metamorphic/ San Juan
County/ Devils Hole mine/ Fremont County/ Gunnison
County/ Jefferson County/ Mount Antero/ Chaffee
County/ aquamarine/ Front Range/ Crystal Mountain
district/
- Page, L. R., 1950
pegmatite/ geochemistry/ Igneous-metamorphic/
uranium/ mineralogy/ Gunnison County/ Larimer
County/ Chaffee County/ Fremont County/ Front
Range/
- Phair, George, 1952
Front Range/ Central City district/ ore deposits/
Clear Creek County/ Gilpin County/ analyses/
quartz monzonite/ Igneous-metamorphic/ Wood
mine/ Kirk Mine/ Quartz Hill area/ pitchblende/
Copper King mine/ Larimer County/ paragenesis/
- Phair, George, 1953
Front Range/ Central City district/ ore deposits/
geochemistry/ petrology/ mineralogy/ bostonite/
pitchblende/ Wood mine/ Kirk mine/ Igneous-metamorphic/
Quartz Hill area/ Copper King mine/ Larimer
County/ Jamestown district/ Boulder County/
Chalk Mountain rhyolite/ Cilmex/ beta-uranophane/
uraninite/ Lake County/ Eagle County/ Summit
County/
- Phair, George, 1953
mineralogy/ geochemistry/ Copper King mine/
Larimer County/ pitchblende/ uraninite/ coffinite/
Front Range/ ore deposits/ Igneous-metamorphic/
- Phair, George, and Antweiler, J. C., 1954
Larimer County/ Copper King mine/ ore deposits/
geochemistry/ mineralogy/ uraninite/ coffinite/
pitchblende/ Front Range/ Central City district/
Gilpin County/ Igneous-metamorphic/ absolute
age/ Clear Creek County/
- Phair, George, and Gottfried, David, 1964
Front Range/ ore province/ thorium/ uranium/
Igneous-metamorphic/ Boulder County/ Clear Creek
County/ Gilpin County/ Jefferson County/ Larimer
County/
- Phair, George, and Sims, P. K., 1954
Larimer County/ Copper King mine/ ore deposits/
paragenesis/ mineralization/ age dating/ uranium/
Igneous-metamorphic/ Front Range/
- Popenoe, Peter, 1965
arkose/ shale/ sandstone/ conglomerate/ Denver
basin/ Larimer County/ Boulder County/ Jefferson
County/ Douglas County/ Elbert County/ Arapahoe
County/ Denver County/ Adams County/ Weld County/
Morgan County/ geology/ aeroradioactivity survey/
conglomerate/ Front Range/
- Popenoe, Peter, 1965
Laramie Formation/ Dawson arkose/ Pierre Shale/
Castle Rock Conglomerate/ Denver basin/ Larimer
County/ County/ Boulder County/ Jefferson County/
Douglas County/ Elbert County/ Arapahoe County/
Denver County/ Adams County/ Weld County/ Morgan
County/ gamma-ray logs/ airborne radioactivity/
Front Range/ Fox Hills Sandstone/
- Rabitt, J. C., 1952
Colorado Plateau/ carnotite project/ Gilpin
County/ Larimer County/ sandstone/ Igneous-metamorphic/
Front Range/
- Sims, P. K., 1956
Front Range/ ore deposits/ uranium/ Larimer
County/ Boulder County/ Gilpin County/ Clear
Creek County/ Jefferson County/ Fremont County/
Igneous-metamorphic/
- Sims, P. K., and Phair, George, 1952
age determination/ Front Range/ Larimer County/
mineralogy/ petrology/ geochemistry/ mines/
minerals/ pitchblende/ Copper King mine/ fault
breccia/ shear zones/ veins/ stratigraphy/ Precambrian
rocks/ veins/ geology/ Prairie Divide area/
Igneous-metamorphic/
- Sims, P. K., and Phair, George, 1953
pitchblende/ ore deposits/ Copper King mine/
Larimer County/ uranium/ Igneous-metamorphic/
Front Range/
- Sims, P. K., and Sheridan, D. M., 1964
geology/ ore deposits/ Front Range/ genesis/
mineralogy/ analyses/ emission spectroscopy/
uranium/ veins/ Igneous-metamorphic/ Clear Creek
County/ Gilpin County/ Boulder County/ Larimer
County/
- Sims, P. K., and Toulmin, Priestley, 3d, 1961
temperature of formation/ Precambrian rocks/

- Copper King mine/ Front Range/ Larimer County/ igneous-metamorphic/ uranium/ granite/ ore deposits/ uranium/ thorium/ Colorado/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/
- Sims, P. K., Phair, George, and Moench, R. H., 1955
age determination/ Front Range/ Larimer County/ mineralogy/ petrology/ geochemistry/ pitchblende/ ore deposits/ wall rock/ geology/ Copper King mine/ minerals/ coffinite/ uraninite/ Precambrian rocks/ base metals/ stratigraphy/ precious metals/ metamorphic rocks/ veins/ genesis/ igneous-metamorphic/
- Sims, P. K., Phair, George, and Moench, R. H., 1958
Larimer County/ Copper King mine/ ore deposits/ petrology/ geology/ Front Range/ igneous-metamorphic/
- Sims, P. K., Young, E. J., and Sharp, W. N., 1961
coffinite/ uranium/ veins/ Front Range/ Boulder County/ Larimer County/ Jefferson County/ Clear Creek County/ igneous-metamorphic/ ore deposits/
- Stern, T. W., and Stieff, L. R., 1953
Colorado Plateau/ Larimer County/ Mesa County/ minerals/ coffinite/ Copper King mine/ La Sal No. 2 mine/ sandstone/ Front Range/ igneous-metamorphic/
- Stern, T. W., Stieff, L. R., and Sherwood, A. M., 1955
coffinite/ uranium/ ore deposits/ Colorado Plateau/ sandstone/ Larimer County/ Copper King mine/ mineralogy/ chemistry/ Front Range/ veins/ Montrose County/ igneous-metamorphic/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1955
Uravan district/ Jefferson County/ Larimer County/ Mesa County/ Montrose County/ San Miguel County/ coffinite/ Copper King mine/ La Sal No. 2 mine/ Matchless mine/ Old Leyden coal mine/ Peanut mine/ Robinson property/ pyrobitumens/ Weatherly property/ Wild Steer mine/ veins/ sandstone/ Cutler Formation/ Dolores Formation/ mineralogy/ Laramie Formation/ Morrison Formation/ Salt Wash Member/ igneous-metamorphic/ Colorado Plateau/ Front Range/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1956
Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Copper King mine/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ San Miguel County/ geochemistry/ x-ray analyses/ mineralogy/ sandstone/ igneous-metamorphic/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ x-ray analyses/ San Miguel County/ sandstone/ Copper King mine/ geochemistry/ igneous-metamorphic/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/ Copper King mine/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ x-ray analyses/ Montrose County/ San Miguel County/ geochemistry/ Colorado Plateau/ sandstone/ igneous-metamorphic/
- Thurston, W. R., 1950
beryllium/ pegmatites/ Larimer County/ Big Boulder prospect/ igneous-metamorphic/ exploration/ Front Range/ beryl/
- Thurston, W. R., 1950
beryllium/ pegmatites/ Larimer County/ Hyatt mica mine/ pegmatite/ beryl/ igneous-metamorphic/ exploration/ Front Range/ Hyatt pegmatite/
- Thurston, W. R., 1950
beryllium/ pegmatites/ Larimer County/ Buckhorn mica mine/ drilling/ sections/ igneous-metamorphic/ Front Range/ exploration/
- Thurston, W. R., 1952
igneous-metamorphic/ Buckhorn mica mine/ schist/ Hyatt area/ Front Range/ beryllium/ pegmatites/ Crystal Mountain district/ mineralogy/ petrology/ geochemistry/ minerals/ autunite/ gummite/ uraninite/ Big Boulder prospect/ Hyatt Mica pegmatite/ reserves/ resources/ uranium/ thorium/ beryl/ Larimer County/ metatorbernite/
- Thurston, W. R., 1955
Front Range/ Larimer County/ igneous-metamorphic/ schist/ granite/ diorite/ pegmatites/ Crystal Mountain district/ uraninite/ structure/ alteration/ Hyatt pegmatite/ Big Boulder prospect/ Buckhorn mica mine/ Idaho Springs Formation/
- Tourtelot, H. A., 1955
Boulder County/ Cheyenne County/ Crowley County/ Jefferson County/ Kiowa County/ Larimer County/ Pueblo County/ mineralogy/ petrology/ geochemistry/ black shale/ alteration/ White River group/ uranium/ radioactivity/ Cretaceous shales/ Great Plains/ El Paso County/
- Tourtelot, H. A., 1956
marine black shales/ Boulder County/ Crowley County/ El Paso County/ Jefferson County/ Kiowa County/ Larimer County/ Pueblo County/ petrology/ geochemistry/ black shale/ alteration/ White River group/ uranium/ radioactivity/ Cretaceous shales/ Great Plains/ Cheyenne County/ mineralogy/
- Tripp, R. M., 1944
radon/ Fort Collins anticline/ Weld County/ Front Range/ Larimer County/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Larimer County/ reconnaissance/ ore deposits/ Front Range/ igneous-metamorphic/
- Walker, G. W., 1956
ore deposits/ host rocks/ alteration/ veins/ sandstone/ igneous-metamorphic/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ dolomite/ Pitkin County/ Larimer County/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/
- Walker, G. W., 1963
alteration/ veins/ igneous-metamorphic/ sandstone/ limestone/ Boulder County/ Park County/ Front

LARIMER COUNTY

Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ Cochetopa district/ ore deposits/ Placerville district/ San Miguel County/ Larimer County/ Central City district/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/

Walker, G. W., 1963

age determination/ ore deposits/ veins/ Tertiary/ Cretaceous/ Front Range/ Wood mine/ Iron mine/ Gilpin County/ German mine/ Copper King mine/ Larimer County/ Igneous-metamorphic/ Schwartzwalder mine/ Jefferson County/ Los Ochos mine/ Saguache County/ Isotopes/

Walker, G. W., and Adams, J. W., 1957

Boulder County/ Larimer County/ Clear Creek County/ Central City district/ Gilpin County/ Caribou mine/ Front Range/ Jefferson County/ Placerville district/ San Miguel County/ Colorado Plateau/ ore deposits/ Marshall Pass/ Saguache County/ Copper King mine/ sandstone/ mineralogy/ veins/ textures/ structures/ paragenesis/ Los Ochos mine/ Schwartzwalder mine/ Igneous-metamorphic/

Walker, G. W., and Adams, J. W., 1963

Boulder County/ Larimer County/ Placerville district/ Central City district/ Gilpin County/ Clear Creek County/ Front Range/ Jefferson County/ Schwartzwalder mine/ San Miguel County/ Colorado Plateau/ Copper King mine/ Saguache County/ ore deposits/ Caribou mine/ Los Ochos mine/ sandstone/ Colorado/ mineralogy/ Igneous-metamorphic/ textures/ structures/ paragenesis/

Walker, G. W., and Osterwald, F. W., 1963

ore deposits/ veins/ genesis/ Placerville district/ transportation/ deposition/ depositional environments/ Clear Creek County/ Gilpin County/ Saguache County/ Jefferson County/ Cochetopa district/ Front Range/ San Miguel County/ Leyden coal mine/ Larimer County/ Boulder County/ sandstone/ Igneous-metamorphic/

Waring, C. L., and Ansell, G. S., 1952

Larimer County/ Hyatt mica-beryl/ pegmatites/ spectrographic analyses/ pegmatite samples/ Front Range/ Igneous-metamorphic/ chemical analyses/

Wyant, D. G., 1949

Larimer County/ Treasure Hill area/ schist/ granite/ Igneous-metamorphic/ reconnaissance/ Front Range/ Precambrian rocks/

Wyant, D. G., 1949

Larimer County/ Spaulding-Woodhams prospects/ scheelite/ Igneous-metamorphic/ Front Range/

Wyant, D. G., Fischer, W. A., O'Sullivan, R. B., and others, 1951

Larimer County/ Igneous-metamorphic/ Treasure Hill area/ Front Range/

LAS ANIMAS COUNTY

Brown, L. J., and Easton, W. W., 1955

ore deposits/ reconnaissance/ airborne/ Huerfano Embayment/ Intrusives/ volcanics/ Las Animas

LAS ANIMAS COUNTY

Arch/ La Veta Pass area/ Huerfano County/ Las Animas County/ Otero County/ Costilla County/ Pueblo County/ Crowley County/ Kiowa County/ Bent County/ Prowers County/ Baca County/ sandstone/ shale/ claystone/ Igneous-metamorphic/

Brown, L. J., and Malan, R. C., 1954

ore deposits/ exploration/ Sangre de Cristo/ reconnaissance/ province/ Canyon City embayment/ City Slicker mine/ Igneous-metamorphic/ El Paso County/ Las Animas County/ La Veta Pass/ Alamosa County/ Costilla County/ sandstone/ Fremont County/ Huerfano County/ County/ Pueblo County/ Rio Grande County/ Saguache County/ Teller County/ Dakota Sandstone/ Morrison Formation/ Cripple Creek-Victor district/

Cross, C. W., 1915

Pueblo County/ Las Animas County/ Huerfano County/ petrology/ dike rocks/ Igneous-metamorphic/ Apishapa quadrangle/

Duncan, D. C., compiler, 1953

ore deposits/ black shale/ Weber Formation/ exploration/ shale/ reconnaissance/ Belden Formation/ Paradox Member/ Eagle County/ Garfield County/ Gunnison County/ Hermosa Formation/ San Juan County/ La Plata County/ Lake County/ Pony Express Limestone Member/ Ouray County/ Dakota Sandstone/ Archuleta County/ Pierre Shale/ Las Animas County/ Huerfano County/ Vermejo Formation/ limestone/ sandstone/ Front Range/ Colorado Plateau/

Edwards, C. L., Reiter, M. A., and Shearer, C., 1975

heat flow/ radioactivity/ crustal/ New Mexico/ Colorado/ volcanism/ Igneous-metamorphic/ Las Animas County/

Finch, W. I., 1967

Colorado Plateau/ Front Range/ Igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Finch, W. I., Wright, J. C., and Sullivan, M. W., 1975

bibliography/ Colorado/ geology/ geophysical surveys/ ground water/ Kansas/ New Mexico/ Oklahoma/ stratigraphy/ Texas/ uranium/ ore deposits/ sandstone/ Baca County/ Las Animas County/

Gill, J. R., 1953

Colorado/ Montana/ Wyoming/ ore deposits/ carbonaceous rocks/ coal/ Park County/ Gunnison County/ Delta County/ Las Animas County/ El Paso County/ Teller County/ La Plata County/ Montezuma County/ Denver Basin/ Larimer County/ shale/ Crested Butte/ Laramie Formation/ Colorado Plateau/ Front Range/

Landis, E. R., 1954

Colorado/ Kansas/ exploration/ black shale/ Cretaceous/ Cheyenne County/ Kiowa County/ Crowley County/ Las Animas County/ map/ Pierre Shale/

LAS ANIMAS COUNTY

- Landis, E. R., 1955
 Cheyenne County/ Crowley County/ Kiowa County/
 Las Animas County/ Pueblo County/ genesis/ Pierre
 Shale/ Niobrara Formation/ shale/ Sharon Spring
 Member/ black shales/ ore deposits/ radioactivity/
 uranium/ Yuma County/ stratigraphy/ uraniumiferous/
- Landis, E. R., 1956
 ground water/ surface water/ Kansas/ Colorado/
 Oklahoma/ shale/ tuff/ sandstone/ Smoky Hill
 River valley/ Rule Creek basin/ Baca County/
 siltstone/ uranium/ claystone/ Bent County/
 Las Animas County/ Kiowa County/ Cheyenne County/
 Crowley County/ Lincoln County/ springs/ wells/
 Muddy Creek/ geochemistry/
- Landis, E. R., 1957
 Colorado/ Kansas/ New Mexico/ Oklahoma/ exploration/
 geochemistry/ ground water/ surface water/ tuff/
 shale/ sandstone/ wells/ springs/ Cheyenne County/
 Bent County/ Las Animas County/ Kiowa County/
 Crowley County/ Lincoln County/ uranium/ Baca
 County/
- Landis, E. R., 1959
 Colorado/ Kansas/ ore deposits/ Cretaceous/
 Pierre Shale/ Sharon Springs Member/ radioactivity/
 Cheyenne County/ Crowley County/ Kiowa County/
 Yuma County/ Las Animas County/ Pueblo County/
 shale/ black shale/
- Landis, E. R., 1960
 ground water/ surface water/ Great Plains/ analyses/
 Baca County/ Bent County/ Cheyenne County/ Crowley
 County/ Kiowa County/ Lincoln County/ Prowers
 County/ sandstone/ Las Animas County/ geochemistry/
- Lipman, P. W., Bunker, C. M., and Bush, C. A., 1973
 basalt/ spectroscopy/ Cenozoic rocks/ potassium/
 thorium/ uranium/ Rio Grande depression/ New
 Mexico/ geochemistry/ ore composition/ Baca
 County/ Las Animas County/ igneous-metamorphic/
 Conejos County/ Costilla County/ Rio Grande
 County/ Alamosa County/
- Pierce, A. P., Mytton, J. W., and Gott, G. B., 1956
 Colorado/ Texas/ Kansas/ Arkansas/ New Mexico/
 Arizona/ Utah/ crude oil/ asphaltite/ petroleum/
 helium/ natural gas/ Las Animas County/ Montezuma
 County/ Adams County/ radon/ uranium/ thorium/
 radium/ sandstone/
- Pierce, A. P., Mytton, J. W., and Gott, G. B., 1956
 Colorado/ Texas/ Kansas/ Arkansas/ New Mexico/
 Arizona/ Utah/ crude oil/ asphaltite/ petroleum/
 helium/ natural gas/ Las Animas County/ Montezuma
 County/ Adams County/ radon/ uranium/ thorium/
 radium/ sandstone/
- Scott, R. C., and Barker, F. B., 1961
 ground water/ radium/ La Plata County/ Cheyenne
 County/ Kiowa County/ Lincoln County/ Crowley
 County/ Otero County/ Bent County/ Prowers County/
 Las Animas County/ Baca County/ Montezuma County/
 Archuleta County/ Colorado Plateau/
- Simon, M. R., 1956
 ore deposits/ Huerfano County/ Raton basin/
 Fremont County/ Custer County/ Las Animas County/

LOGAN COUNTY

- sandstone/ Costilla County/ uranium/ geology/
 arkose/
- U.S. Atomic Energy Commission, 1966
 geology/ uranium/ geophysical prospecting/ economic
 geology/ mining engineering/ petrology/ minerals/
 radioactivity/ Las Animas County/ reconnaissance/
 ore deposits/ sandstone/
- LINCOLN COUNTY
- Landis, E. R., 1956
 ground water/ surface water/ Kansas/ Colorado/
 Oklahoma/ shale/ tuff/ sandstone/ Smoky Hill
 River valley/ Rule Creek basin/ Baca County/
 siltstone/ uranium/ claystone/ Bent County/
 Las Animas County/ Kiowa County/ Cheyenne County/
 Crowley County/ Lincoln County/ springs/ wells/
 Muddy Creek/ geochemistry/
- Landis, E. R., 1957
 Colorado/ Kansas/ New Mexico/ Oklahoma/ exploration/
 geochemistry/ ground water/ surface water/ tuff/
 shale/ sandstone/ wells/ springs/ Cheyenne County/
 Bent County/ Las Animas County/ Kiowa County/
 Crowley County/ Lincoln County/ uranium/ Baca
 County/
- Landis, E. R., 1960
 ground water/ surface water/ Great Plains/ analyses/
 Baca County/ Bent County/ Cheyenne County/ Crowley
 County/ Kiowa County/ Lincoln County/ Prowers
 County/ sandstone/ Las Animas County/ geochemistry/
- Scott, R. C., and Barker, F. B., 1961
 ground water/ radium/ La Plata County/ Cheyenne
 County/ Kiowa County/ Lincoln County/ Crowley
 County/ Otero County/ Bent County/ Prowers County/
 Las Animas County/ Baca County/ Montezuma County/
 Archuleta County/ Colorado Plateau/
- LOGAN COUNTY
- Boberg, W. W., 1970
 surface water/ streams/ transport/ precipitation/
 South Platte River/ geochemistry/ shale/ Jefferson
 County/ Douglas County/ Denver County/ Arapahoe
 County/ uranium/ Adams County/ Weld County/
 Morgan County/ Washington County/ Logan County/
 Sedgwick County/
- Boberg, W. W., and Runnells, D. D., 1971
 surface water/ rivers/ South Platte River/ geochemistry/
 uranium/ analyses/ Jefferson County/ Douglas
 County/ Denver County/ Arapahoe County/ Adams
 County/ Weld County/ Morgan County/ Washington
 County/ Logan County/ Sedgwick County/ reconnaissance/
- Brown, L. J., 1955
 ore deposits/ uranium/ geology/ exploration/
 lithology/ Julesburg basin/ reconnaissance/
 Logan County/ sandstone/
- Carter, W. D., and Gualtieri, J. L., 1958
 map/ tectonics/ Colorado/ Utah/ Moffat County/
 Logan County/ geology/ Larimer County/ Jackson
 County/ Boulder County/ Jefferson County/ Clear

LOGAN COUNTY

Creek County/ Gilpin County/ Summit County/
Grand County/ Eagle County/ Routt County/ Garfield
County/ Rio Blanco County/ sandstone/ ore deposits/
igneous-metamorphic/

Denson, N. M., and others, 1959

uranium/ coal/ United States/ Denver basin/
Weld County/ Logan County/ Adams County/ Arapahoe
County/ organics/ sandstone/

Maxwell, J. C., 1977

elements/ analyses/ hydrogeochemistry/ stream
waters/ stream sediments/ Sterling area/ Fort
Morgan area/ South Platte drainage/ data/ Morgan
County/ Logan County/ Washington County/ sandstone/
ground water/

Scott, R. C., and Barker, F. B., 1962

data/ uranium/ radium/ ground water/ analyses/
Logan County/ Phillips County/ Prowers County/
Yuma County/ Jefferson County/ Garfield County/
Kit Carson County/ Pitkin County/ Mesa County/
Huerfano County/ Baca County/ Montezuma County/
Front Range/ Colorado Plateau/

MESA COUNTY

Adler, H. H., 1963

genesis/ sandstone/ ore deposits/ Jefferson
County/ Pueblo County/ Gunnison County/ Moffat
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ Colorado Plateau/ Front Range/
Rio Blanco County/

Adler, H. H., 1964

uranium/ roll ore/ exploration/ sandstone/ ore
deposits/ Jefferson County/ Pueblo County/ Gunnison
County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
San Miguel County/ Montezuma County/ La Plata
County/ Archuleta County/ Moffat County/ Colorado
Plateau/ Front Range/ Dolores County/

Anonymous, 1950

Grand Junction/ Mesa County/ ore processing/
Colorado Plateau/

Anonymous, 1950

Colorado Plateau/ refining/ San Miguel County/
Mesa County/ sandstone/

Anonymous, 1951

Colorado Plateau/ San Miguel County/ Montrose
County/ Mesa County/ vanadium/ sandstone/

Anonymous, 1952

Colorado Plateau/ Uravan belt/ sandstone/ mill/
exploration/ Mesa County/ San Miguel County/
Dolores County/

Archbold, N. L., 1955

lithology/ vanadium/ uranium/ ore deposits/
Morrison Formation/ Salt Wash Member/ Colorado
Plateau/ sandstone/ analyses/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ calcium
carbonate/

MESA COUNTY

Archbold, N. L., 1956

uranium/ vanadium/ Colorado Plateau/ Salt Wash
Member/ Morrison Formation/ sandstone/ Mesa
County/ Montrose County/ Dolores County/ Montezuma
County/ ore deposits/ lithology/ San Miguel
County/

Archbold, N. L., 1958

carbonate cement/ lithology/ vanadium/uranium/
sandstone/ Morrison Formation/ Colorado Plateau/
Salt Wash Member/ Slick Rock district/ Uravan/
geochemistry/ ore deposits/ weathering/ alteration/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ Cougar mine/ Golden Cycle mine/
Virgin mine/ Upper Group/

Archbold, N. L., 1959

carbonate cement/ lithology/ vanadium/ uranium/
sandstone/ Morrison Formation/ Colorado Plateau/
Salt Wash Member/ Slick Rock district/ Uravan/
geochemistry/ ore deposits/ weathering/ alteration/
Mesa County/ Montrose County/ Dolores County/
Cougar mine/ Golden Cycle mine/ Virgin mine/
Upper group/

Bain, G. W., 1953

Colorado Plateau/ ore deposits/ sediments/ sandstone/
stratigraphy/ Dakota Group/ Morrison Formation/
structure/ topography/ geologic history/ Mesa
County/ Montrose County/ San Miguel County/
geology/ Montezuma County/ reconnaissance/ Colorado
Plateau/ Dolores County/

Bain, G. W., 1953

Colorado Plateau/ ore deposits/ observations/
sedimentation/ Shinarump Member/ carnotite/
Morrison Formation/ tectonic structure/ sandstone/
fluvial sediments/ simulation/ precipitation/
Mesa County/ Montrose County/ San Miguel County/
Montezuma County/ conglomerate/ Chinle Formation/
Dolores County/ experimental studies/ Salt Wash
Member/

Bain, G. W., 1957

Colorado Plateau/ ore deposits/ organic ores/
genesis/ Colorado/ general/ Mesa County/ Delta
County/ sandstone/ Montrose County/ San Miguel
County/ Dolores County/ Archuleta County/ Garfield
County/ La Plata County/

Bain, G. W., Eastman, H. P., Ruckmick, J. C., and
others, 1953

Colorado Plateau/ ore deposits/ experimental
studies/ sandstone/ fluvial sediments/ field
observations/ heavy minerals/ Shinarump Member/
Morrison Formation/ Dakota Sandstone/ geology/
sedimentation/ ground water/ stratigraphy/ Mesa
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ Chinle Formation/

Baltz, E. H., Jr., 1955

Colorado/ New Mexico/ ore deposits/ exploration/
carbonaceous rocks/ sandstone/ Mesa County/
Delta County/ Montrose County/ Gunnison County/
Ouray County/ San Miguel County/ Hinsdale County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ coal/ shale/ reconnaissance/
Colorado Plateau/

- Bates, R. C., 1959
Colorado Plateau/ ore deposits/ resources/ exploration/
statistical analysis/ uranium/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ Morrison Formation/
sandstone/
- Bell, K. G., and Rogers, A. S., 1950
Mesa County/ Calamity Mesa area/ gamma-ray logging/
Maverick claims/ Morrison Formation/ sandstone/
drilling/ stratigraphic correlation/ leaching/
ore deposits/ reserves/ geophysics/ "Barnaby"
logs/ Schlumberger logs/ carnotite/ Colorado
Plateau/ Calamity claims/
- Bethke, P. M., 1953
uranyl salts/ Colorado Plateau/ simulation/
precipitation/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ sandstone/ ground water/ Morrison Formation/
Salt Wash Member/ uraninite/ carnotite/
- Black, R. A., 1954
geophysics/ mining districts/ logging/ Monogram
Mesa/ Arizona/ Utah/ Peanut Group/ Bull Canyon/
Morrison Formation/ sandstone/ Mesa County/
Colorado/ Colorado Plateau/ ore deposits/
- Blackman, D. H., 1950
Colorado Plateau/ ore guides/ sandstone/ uranium/
ore deposits/ Mesa County/ minerals/ carnotite/
Calamity claims/
- Blackman, D. H., 1951
Calamity Mesa/ exploration/ drilling/ Calamity
claims/ sandstone/ Morrison Formation/ Colorado
Plateau/ ore guides/ uranium/ Mesa County/ geology/
vanadium/ ore deposits/ carnotite/ carbonaceous
materials/
- Boardman, R. L., 1957
Uravan district/ ore deposits/ Colorado Plateau/
uranium/ vanadium/ Montrose County/ Mesa County/
stratigraphy/ structure/ sandstone/ Morrison
Formation/ Salt Wash Member/ Brushy Basin Member/
exploration/ drilling/
- Botinelly, Theodore, and Weeks, A. D., 1957
sandstone/ uranium/ vanadium/ Colorado Plateau/
Mesa County/ Montrose County/ minerals/ Dolores
County/ San Miguel County/ ore deposits/ mineralogic
classification/
- Botinelly, Theodore, and Weeks, A. D., 1957
Colorado Plateau/ mineralogic classification/
uranium/ vanadium/ composition/ oxidation/ mineralogy/
sandstone/ ore deposits/ Mesa County/ Montrose
County/ San Miguel County/
- Botinelly, Theodore, Weeks, A. D., and Johnson,
D. H., 1953
Colorado Plateau/ South Dakota/ Wyoming/ mineralogy/
petrology/ ore deposits/ vanadium/ Uravan/ Montrose
County/ sandstone/ Long Park/ La Salle Creek/
Mesa County/ Utah/ Arizona/ uranium/
- Bradley, W. H., 1950
uranium/ Colorado Plateau/ sandstone/ occurrences/
San Miguel County/ Montrose County/ Mesa County/
ore deposits/
- Brasher, G. K., 1951
Colorado Plateau/ ore deposits/ reserves/ sandstone/
Mesa County/ uranium/ vanadium/ Morrison Formation/
Outlaw Mesa/
- Brasher, G. K., 1952
Mesa County/ Outlaw Mesa area/ exploration/
drilling/ carnotite/ Colorado Plateau/
- Brasher, G. K., 1952
Colorado Plateau/ ore deposits/ geology/ Mesa
County/ exploration/ drilling/ minerals/ carnotite/
production/ Outlaw Mesa/ uranium/ vanadium/
reserves/ resources/ sandstone/ Morrison Formation/
Salt Wash Member/
- Brasher, G. K., and Jobin, D. A., 1951
reserves/ resources/ Colorado Plateau/ sandstone/
Outlaw Mesa/ Morrison Formation/ ore deposits/
drilling/ exploration/ uranium/ vanadium/ Salt
Wash Member/ Mesa County/
- Brasher, G. K., and Jobin, D. A., 1951
Colorado Plateau/ Mesa County/ reserves/ resources/
Outlaw Mesa/ sandstone/ ore deposits/ Salt Wash
Member/ uranium/ vanadium/ Morrison Formation/
- Brasher, G. K., and Jobin, D. A., 1951
Outlaw Mesa area/ Mesa County/ reserves/ resources/
Mineral Channel claims/ Colorado Plateau/ ore
deposits/ sandstone/ uranium/ vanadium/ Salt
Wash Member/ Morrison Formation/
- Brooks, R. A., and Campbell, J. A., 1976
elements/ variation/ analyses/ diagenesis/ ore
deposits/ tabular uranium deposits/ La Sal mines/
Utah/ Rajah 49 mine/ Uravan district/ Morrison
Formation/ Salt Wash Member/ Colorado Plateau/
Mesa County/ sandstone/
- Brooks, R. A., and Campbell, J. A., 1976
elements/ variation/ analyses/ diagenesis/ sandstone/
tabular uranium deposit/ La Sal mine/ Utah/
Rajah 49 mine/ ore deposits/ Morrison Formation/
Colorado Plateau/ Uravan district/ Salt Wash
Member/ Mesa County/
- Bruyn, Kathleen, 1955
Colorado Plateau/ ore deposits/ sandstone/ Dolores
County/ history/ San Miguel County/ Montrose
County/ Mesa County/
- Burwell, Blair, 1920
ore deposits/ resources/ mining/ carnotite/
Mesa County/ Dolores County/ San Miguel County/
Montrose County/ uranium/ vanadium/ Colorado
Plateau/ sandstone/
- Bush, A. L., and Stager, H. K., 1954
minerals/ carnotite/ Calamity claims/ Calamity
mines/ uranium/ Charles T. claims/ Club Mesa
claims/ Legin mines/ sandstone/ Morrison Formation/
vanadium/ Mesa County/ Colorado Plateau/ reserves/
Uravan district/ Montrose County/ San Miguel
County/ ore deposits/
- Bush, A. L., and Stager, H. K., 1955
Mesa County/ Montrose County/ San Miguel County/

- Uravan district/ reserves/ uranium/ vanadium/ carnotite/ sandstone/ Colorado Plateau/ Morrison Formation/
- Bush, A. L., and Stager, H. K., 1956
Mesa County/ Montrose County/ San Miguel County/ Uravan district/ reserves/ uranium/ vanadium/ carnotite/ sandstone/ Colorado Plateau/ Morrison Formation/
- Butler, A. P., Jr., Killeen, P. L., Page, G. B., and Rubey, W. W., 1947
ore deposits/ resources/ reconnaissance/ Front Range/ reserves/ Colorado Plateau/ carnotite/ uranium/ vanadium/ igneous-metamorphic/ uraninite/ Iron Hill/ Gunnison County/ Glipin County/ Clear Creek County/ radioactive springs/ thorium/ mineralogy/ San Miguel County/ Montrose County/ Mesa County/ sandstone/ genesis/
- Byerly, P. E., and Joesting, H. R., 1959
Lisbon Valley area/ Colorado/ Colorado Plateau/ geophysical investigations/ uranium/ Mesa County/ San Miguel County/ Dolores County/ gravity/ aeromagnetism/ sandstone/ geophysics/ Montrose County/
- Cadigan, R. A., 1955
Dolores County/ Garfield County/ Mesa County/ sandstone/ Montrose County/ Rio Blanco County/ San Miguel County/ Entrada Sandstone/ Morrison Formation/ stratigraphy/ Todilto Limestone/ Chinle Formation/ limestone/ host rocks/ conglomerate/ Colorado Plateau/ Triassic/ Jurassic/
- Cadigan, R. A., 1959
Colorado Plateau/ ore deposits/ sandstone/ host rock/ Garfield County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Morrison Formation/ Entrada Sandstone/
- Cadigan, R. A., 1967
petrology/ Morrison Formation/ Colorado Plateau/ sandstone/ Gunnison County/ La Plata County/ Archuleta County/ San Miguel County/ Mesa County/ Delta County/ Eagle County/ Montrose County/ Montezuma County/ mineralogy/ Rio Blanco County/ Salt Wash Member/
- Cadigan, R. A., 1971
petrology/ Moenkopi Formation/ Colorado Plateau/ mineralogy/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ stratigraphy/
- Cadigan, R. A., 1971
geochemical distribution/ Colorado Plateau/ red beds/ vanadium/ sandstone/ La Plata County/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Rio Blanco County/ geochemistry/ Garfield County/ Moenkopi Formation/
- Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/
- Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/
- Cannon, H. L., 1951
Colorado Plateau/ botanical studies/ uranium/ geobotany/ vanadium/ indicator plants/ Colorado/ Utah/ Salt Wash Member/ sandstone/ *Astragalus*/ geology/ analyses/ ore deposits/ Mesa County/ Montrose County/ Morrison Formation/ San Miguel County/ Dolores County/
- Cannon, H. L., 1952
Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/ vegetation/ uranium/ vanadium/ sandstone/ botanical studies/ Dolores County/ Colorado/ indicator plants/ Utah/ Morrison Formation/ *Astragalus*/ Salt Wash Member/ geology/ analyses/ ore deposits/ geobotany/
- Cannon, H. L., 1957
plant descriptions/ Colorado Plateau/ sandstone/ exploration/ uranium/ *Astragalus*/ vanadium/ Utah/ ore deposits/ New Mexico/ Arizona/ Colorado/ Wyoming/ San Miguel County/ Montrose County/ Mesa County/ geobotany/ Dolores County/ botanical studies/ indicator plants/
- Cannon, H. L., 1960
Colorado Plateau/ ore deposits/ botanical prospecting/ exploration/ indicator plants/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ geobotany/
- Carter, W. D., 1956
disconformity/ stratigraphy/ Cretaceous/ Colorado Plateau/ Dakota Sandstone/ Burro Canyon Member/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/ sandstone/
- Carter, W. D., 1957
disconformity/ stratigraphy/ Cretaceous/ Colorado/ Utah/ Colorado Plateau/ Dakota Sandstone/ Burro Canyon Member/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ sandstone/
- Case, J. E., and Joesting, H. R., 1972
geophysical investigations/ Colorado Plateau/ stratigraphy/ gravity surveys/ aeromagnetic surveys/ exploration/ Montezuma County/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ geophysics/ geology/
- Case, J. E., Joesting, H. R., and Byerly, P. E., 1963
geophysical investigations/ La Sal Mountains/ geophysics/ Colorado Plateau/ geology/ aeromagnetic surveys/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ igneous-metamorphic/
- Cashion, W. B., 1973
geology/ structure/ map/ Grand Junction quadrangle/ Colorado/ Utah/ Colorado Plateau/ Mesa County/ sandstone/ Rio Blanco County/ Garfield County/

- Cater, F. W., Jr., 1953
Mesa County/ Calamity Mesa quadrangle/ geology/ map/ ore guides/ exploration/ minerals/ carnotite/ ore deposits/ Morrison Formation/ Salt Wash member/ sandstone/ Maverick mines/ Arrowhead mines/ Calamity mines/ G-1 mine/ Ronnie mine/ Blue Creek mines/ mines/ Colorado Plateau/ Uravan district/
- Cater, F. W., Jr., 1953
Uravan district/ Mesa County/ Gateway quadrangle/ geology/ carnotite/ Colorado Plateau/ Brushy Basin member/ Morrison Formation/ Salt Wash Member/ sandstone/ shale/ Mammoth mine/ Vanaking No. 1 mine/ minerals/ map/ ore guides/ exploration/ ore deposits/
- Cater, F. W., Jr., 1953
Uravan district/ Mesa County/ Pine Mountain quadrangle/ ore guides/ exploration/ minerals/ carnotite/ geology/ Sunflower claim/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ ore deposits/ maps/
- Cater, F. W., Jr., 1953
carnotite/ Colorado/ stratigraphy/ structure/ mapping/ Colorado Plateau/ geology/ San Miguel County/ Mesa County/ Montrose County/
- Cater, F. W., Jr., 1953
Colorado/ carnotite/ Mesa County/ Montrose County/ sandstone/ ore deposits/ Morrison Formation/ salt anticlines/ Salt Wash Member/ stratigraphy/ structure/ Colorado Plateau/ geology/ exploration/ mapping/ San Miguel County/
- Cater, F. W., Jr., 1955
Mesa County/ Gateway district/ sandstone/ Colorado Plateau/ carnotite/ Morrison Formation/ Salt Wash Member/ shale/ Mammoth mine/ Vanaking No. 1 mine/ ore deposits/ Gateway quadrangle/ geology/ map/ carnotite/ Brushy Basin Member/
- Cater, F. W., Jr., 1955
Pine Mountain quadrangle/ sandstone/ Mesa County/ carnotite/ Uravan district/ Colorado Plateau/ Morrison Formation/ sandstone/ Sunflower claim/ geology/ map/ ore deposits/ Salt Wash Member/
- Cater, F. W., Jr., 1955
Mesa County/ carnotite/ Morrison Formation/ sandstone/ Maverick mines/ Arrowhead mines/ ore deposits/ Calamity mines/ G-1 mine/ Ronnie mine/ Blue Creek mines/ Calamity Mesa quadrangle/ Colorado Plateau/ geology/ map/ mines/ Salt Wash Member/
- Cater, F. W., Jr., 1955
Calamity Mesa quadrangle/ Colorado Plateau/ Mesa County/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Maverick mines/ Arrowhead mines/ Calamity mines/ G-1 mine/ Ronnie mine/ Blue Creek mines/ mines/ geology/ ore deposits/ map/
- Cater, F. W., Jr., 1955
Colorado Plateau/ Colorado/ mapping/ maps published/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ sandstone/ carnotite/ ore deposits/
- Cater, F. W., Jr., 1955
Colorado Plateau/ Mesa County/ Pine Mountain quadrangle/ quadrangle/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Sunflower claim/ geology/ map/ Uravan district/ ore deposits/
- Cater, F. W., Jr., 1967
salt anticlines/ Paradox Basin/ Utah/ Colorado/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ structure/ Colorado Plateau/ geology/
- Cater, F. W., Jr., 1970
salt anticlines/ geology/ Colorado/ Mesa County/ San Miguel County/ Colorado Plateau/ stratigraphy/ structure/ sandstone/ Montrose County/
- Cater, F. W., Jr., and Elston, D. P., 1961
salt anticlines/ tectonics/ Colorado/ Mesa County/ San Miguel County/ Colorado Plateau/ structural development/ geology/ Utah/ sandstone/ Montrose County/
- Cater, F. W., Jr., and Elston, D. P., 1963
salt anticlines/ tectonics/ Colorado/ Mesa County/ Montrose County/ San Miguel County/ geology/ structural development/ Utah/ sandstone/ Colorado Plateau/
- Cater, F. W., Jr., Craig, L. C., and Phoenix, D. A., 1950
sandstone/ Morrison Formation/ Salt Wash Member/ geology/ Colorado Plateau/ ground water studies/ carnotite/ stratigraphy/ structure/ ore deposits/ Colorado/ New Mexico/ Utah/ Arizona/ San Miguel County/ Montrose County/ Mesa County/ Garfield County/ Rio Blanco County/
- Chenoweth, W. L., 1977
Colorado Plateau/ sandstone/ Garfield County/ San Miguel County/ Mesa County/ Dolores County/ Montezuma County/ Montrose County/
- Chew, R. T., 3d, 1955
Colorado Plateau/ Rifle mine/ Uravan district/ map/ Uranium Peak/ sandstone/ production/ uranium/ vanadium/ Morrison Formation/ La Plata County/ ore deposits/ Entrada Sandstone/ Rio Blanco County/ Mesa County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Gateway district/
- Chew, R. T., 3d, 1955
sandstone/ Mesa County/ Utah/ stream sediments/ exploration/ radioactivity/ Delta County/ Montrose County/ gravels/ San Miguel County/ Dolores County/ Ouray County/ San Juan County/ Montezuma County/ La Plata County/ Colorado Plateau/
- Chew, R. T., 3d, 1956
Mesa County/ Delta County/ Montrose County/ sandstone/ Dolores County/ Ouray County/ San Juan County/ gravels/ Montezuma County/ La Plata County/ Colorado Plateau/ exploration/ stream sediments/ radioactivity/ San Miguel County/
- Chew, R. T., 3d, 1956
Rifle mine/ Uravan district/ Uranium Peak/ vanadium/

- production/ Colorado Plateau/ uranium/ sandstone/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Entrada Sandstone/ ore deposits/ Garfield County/ Morrison Formation/
- Coffin, R. C., 1921
resources/ structure/ composition/ sandstone/ carnotite/ radium/ uranium/ vanadium/ Colorado Plateau/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ ore deposits/
- Coffin, R. C., 1921
carnotite/ Colorado Plateau/ radium/ uranium/ Mesa County/ vanadium/ sandstone/ ore deposits/ San Miguel County/ Dolores County/ Montrose County/
- Columbia University, 1971
plants/ uranium/ Colorado Plateau/ ore deposits/ sandstone/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/
- Comstock, S. S., 1951
radioactivity/ exploration/ drilling/ Arizona/ Utah/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ gamma-ray logging/ Colorado Plateau/
- Cooper, Margaret, 1951
bibliography/ uranium/ thorium/ carbonaceous deposits/ Colorado/ Colorado Plateau/ Mesa County/ sandstone/ San Miguel County/ Dolores County/ Montezuma County/ ore deposits/ Montrose County/
- Cooper, Margaret, 1951
bibliography/ uranium/ thorium/ carbonaceous deposits/ Colorado/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ Dolores County/ organics/ sandstone/
- Craig, L. C., 1958
stratigraphy/ Colorado Plateau/ Mesa County/ Colorado/ New Mexico/ sandstone/ Triassic/ Mesozoic/
- Craig, L. C., and Holmes, C. N., 1951
Morrison Formation/ Colorado Plateau/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Mesa County/ stratigraphy/ Glen Canyon group/ San Rafael group/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951
Colorado Plateau/ Morrison Formation/ Mesa County/ stratigraphy/ Glen Canyon group/ Montezuma County/ Delta County/ San Rafael group/ Dolores County/ Gunnison County/ Montrose County/ sandstone/ Moffat County/ Ouray County/ San Juan County/ San Miguel County/ La Plata County/ Rio Blanco County/ Garfield County/ Archuleta County/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1955
stratigraphy/ Morrison Formation/ Colorado Plateau/ sandstone/ Recapture Member/ Mesa County/ Ouray County/ Delta County/ Gunnison County/ Montrose County/ San Juan County/ San Miguel County/ Dolores County/ Salt Wash Member/
- Craig, L. C., Holmes, C. N., Freeman, V. L., and others, 1977
Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ member/ sandstone/ shale/ Colorado Plateau/ facies/ maps/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/
- Curran, T. F., 1913
Colorado Plateau/ ore deposits/ carnotite/ history/ Gilpin County/ Wood mine/ Montrose County/ sandstone/ pitchblende/ San Miguel County/ Mesa County/ Dolores County/ Routt County/ Paradox Valley/ Rio Blanco County/ Utah/ Australia/ Front Range/ Igneous-metamorphic/
- Curran, T. F., 1913
ore deposits/ carnotite/ San Miguel County/ history/ Gilpin County/ Wood mine/ Montrose County/ Colorado Plateau/ sandstone/ pitchblende/ Mesa County/ Dolores County/ Routt County/ Rio Blanco County/ Paradox Valley/ Utah/ Australia/ Front Range/ Igneous-metamorphic/
- Dare, W. L., 1959
Salt Wash Member/ ore deposits/ production/ methods/ economics/ costs/ Jurassic formations/ Morrison Formation/ Mesa County/ Montrose County/ sandstone/ mining/ Colorado Plateau/
- Dare, W. L., 1959
Montrose County/ Mesa County/ Mineral Joe mine/ G-1 mine/ sandstone/ mining methods/ mining costs/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/
- Dare, W. L., Lindblom, R. A., and Soule, J. H., 1961
Mesa County/ Montrose County/ San Miguel County/ sandstone/ mining methods/ mining costs/ mine maps/ Colorado Plateau/ Veta Mad mine/
- Davis, W. E., 1951
Colorado Plateau/ Mesa County/ Montrose County/ carnotite/ exploration/ electrical resistivity/ sandstone/ geophysics/ ore deposits/
- Davis, W. E., 1953
Colorado Plateau/ geophysics/ exploration/ Salt Wash Member/ sandstone/ Gramlich mine/ Spud Patch area/ La Sal Creek area/ San Miguel County/ Mesa County/ Montrose County/ Colorado/ Utah/ Arizona/ Morrison Formation/
- Davis, W. E., 1953
Colorado Plateau/ geophysics/ exploration/ carnotite/ sandstone/ Morrison Formation/ Salt Wash Member/ drilling/ Mesa County/ San Miguel County/ Montrose County/
- Davis, W. E., Swartz, J. H., and Shuler, R. M., 1949
Calamity Mesa area/ Outlaw Mesa area/ Sage Flat area/ Mesa County/ geophysical investigations/ Calamity claims/ carnotite/ sandstone/ ore deposits/ geology/ Morrison Formation/ Salt Wash Member/ geophysics/ Colorado Plateau/

- Davis, W. T., 1956
Colorado Plateau/ ore deposits/ uranium/ vanadium/
drilling/ sandstone/ exploration/ Tenderfoot
Mesa/ Mesa County/
- Del Rio, S. M., compiler, 1960
minerals/ resources/ Colorado/ uranium/ Colorado
Plateau/ San Miguel County/ Montrose County/
Mesa County/ Front Range/ Jefferson County/
Fremont County/ sandstone/ igneous-metamorphic/
Moffat County/
- Dwornik, E. J., and Ross, M., 1955
Colorado Plateau/ uranium minerals/ bog iron
deposit/ Summit County/ sandstone/ photomicrographs/
electron microscope/ Montrose County/ Jo Dandy
mine/ Mesa County/ Matchless mine/ Colorado/
Utah/ South Dakota/ sandstone/ mineralogy/
- Dwornik, E. J., and Ross, M., 1955
Colorado Plateau/ minerals/ uranium/ electron
microscope/ photomicrographs/ Montrose County/
Mesa County/ Matchless mine/ Colorado/ Utah/
bog iron deposit/ Summit County/ sandstone/
Jo Dandy mine/ South Dakota/
- Eastman, H. P., 1953
detritus/ river channels/ sphericity/ simulation/
transportation/ Shinarump Member/ sandstone/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ Colorado Plateau/
- Ebbley, Norman, 1950
Colorado Plateau/ mines/ uranium/ Colorado/
Utah/ vanadium/ production problems/ Uravan
district/ Gateway district/ Rio Blanco County/
Mesa County/ Montrose County/ San Miguel County/
sandstone/ Garfield County/ Rifle mine/ Morrison
Formation/ Entrada Sandstone/ Dolores County/
- Elcher, L. J., 1955
Mesa County/ Colorado/ Utah/ Gateway district/
Morrison Formation/ Salt Wash Member/ sandstone/
conglomerate/ uranium/ vanadium/ Colorado Plateau/
ore deposits/ Beaver Mesa area/ Brushy Basin
Member/
- Elcher, L. J., 1955
Mesa County/ Colorado/ Utah/ Gateway district/
Morrison Formation/ Salt Wash Member/ sandstone/
conglomerate/ uranium/ vanadium/ Colorado Plateau/
ore deposits/ Beaver Mesa area/ Brushy Basin
Member/
- Elcher, L. J., 1956
Mesa County/ Colorado/ Utah/ Gateway district/
Ajax mine/ uranium/ vanadium/ Morrison Formation/
Salt Wash Member/ Brushy Basin Member/ sandstone/
conglomerate/ La Sal mines/ Pack Rat No. 1 mine/
Lost Indian No. 2 mine/ Lumsden mines/ Colorado
Plateau/ ore deposits/ Beaver Mesa area/
- Elcher, L. J., and Bivens, N. W., 1955
Cedar Point mines/ Lumsden #1 and 2 mines/ Pack
Rat mine/ Rae Marie mines/ Colorado Plateau/
reserves/ exploration/ sandstone/ ore deposits/
uranium/ vanadium/ Salt Wash Member/ Beaver
Mesa area/ Mesa County/ Colorado/ Utah/ Morrison
Formation/
- Elcher, L. J., and Miller, G. A., 1956
Mesa County/ Colorado/ Utah/ Gateway district/
uranium/ vanadium/ Morrison Formation/ Brushy
Basin Member/ sandstone/ conglomerate/ Lumsden
mines/ Colorado Plateau/ ore deposits/ Beaver
Mesa area/ Salt Wash Member/
- Elcher, L. J., and Myers, A. R., 1954
Colorado Plateau/ exploration/ sandstone/ ore
deposits/ uranium/ vanadium/ Morrison Formation/
Salt Wash Member/ Beaver Mesa area/ Mesa County/
Colorado/ Utah/ Gateway district/
- Elcher, L. J., and Myers, A. R., 1970
maps/ drilling/ exploration/ Beaver Mesa area/
Mesa County/ Colorado/ Utah/ sandstone/ Colorado
Plateau/ Gateway district/ ore deposits/
- Elcher, L. J., Hedlund, D. C., and Miller, G. A.,
1957
Beaver Mesa area/ Mesa County/ Colorado/ Utah/
Morrison Formation/ Salt Wash Member/ Brushy
Basin Member/ sandstone/ conglomerate/ Ajax
mine/ La Sal mines/ Pack Rat No. 1 mine/ Lumsden
mines/ map/ geology/ Colorado Plateau/ ore deposits/
Gateway district/
- Elcher, L. J., Hedlund, Donald C., and Miller,
G. A., 1956
Mesa County/ Colorado/ Utah/ Gateway district/
Salt Wash Member/ Brushy Basin Member/ sandstone/
conglomerate/ Ajax mine/ La Sal mines/ Pack
Rat No. 1 mine/ Lost Indian No. 1 mine/ Lumsden
mines/ uranium/ vanadium/ geology/ map/ sections/
Colorado Plateau/ ore deposits/ Morrison Formation/
- Elston, D. P., and Landis, E. R., 1960
sandstone/ unconformities/ Paradox Valley/ Gypsum
Valley/ salt anticlines/ Colorado Plateau/ stratigraphy/
Mesa County/ Montrose County/ San Miguel County/
Montezuma County/ La Plata County/ Dolores County/
Hermosa Formation/
- Everhart, D. L., 1951
geology/ veins/ ore deposits/ minerals/ sandstone/
igneous-metamorphic/ mudstone/ Colorado Plateau/
phosphates/ pitchblende/ pegmatite/ carnotite/
Morrison Formation/ Entrada Sandstone/ Shinarump
Member/ Mesa County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ asphalt/
limestone/ black shale/ Belgian Congo/ Canadian
Shield/
- Everhart, D. L., 1954
Colorado Plateau/ sandstone/ Colorado/ New Mexico/
Utah/ Wyoming/ veins/ igneous-metamorphic/ San
Miguel County/ Montrose County/ Mesa County/
Jefferson County/ Australia/ South Africa/ Ontario/
- Farnum, Dwight, 1919
Colorado/ Utah/ Gateway district/ ore deposits/
resources/ carnotite/ uranium/ vanadium/ Mesa
County/ sandstone/ Morrison Formation/ Colorado
Plateau/
- Finch, W. I., 1951
Mesa County/ carnotite/ uranium production/
sandstone/ Blue Mesa area/ reserves/ resources/

- drilling/ core/ Colorado Plateau/ exploration/
ore deposits/
- Finch, W. I., 1951
Mesa County/ Blue Mesa area/ Moon Mesa area/
exploration/ drilling/ core/ carnotite/ uranium/
production/ sandstone/ Colorado Plateau/ drill
data/ ore deposits/
- Finch, W. I., 1952
Colorado Plateau/ ore deposits/ geology/ ore
guides/ exploration/ drilling/ minerals/ carnotite/
uranium/ production/ Blue Mesa area/ vanadium/
reserves/ resources/ sandstone/ Morrison Formation/
Salt Wash Member/ Mesa County/
- Finch, W. I., 1955
Colorado Plateau/ ore deposits/ uranium/ sandstone/
copper/ conglomerate/ ore-bearing formation/
limestone/ vanadium/ Rio Blanco County/ Garfield
County/ Mesa County/ geology/ Delta County/
San Miguel County/ Dolores County/ Rifle mine/
Montezuma County/ La Plata County/ Greysill
mine/ Placerville district/ Uravan district/
Gateway district/ map/ geology/
- Finch, W. I., 1956
Colorado Plateau/ ore deposits/ La Plata County/
production/ Triassic/ Chinle Formation/ shale/
sandstone/ conglomerate/ fossil wood/ minerals/
structures/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ Garfield County/ Rio Blanco County/
geology/
- Finch, W. I., 1959
Colorado Plateau/ ore deposits/ production/
Triassic/ Chinle Formation/ fossil wood/ minerals/
structures/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ La Plata County/ sandstone/ conglomerate/
shale/ Garfield County/ Rio Blanco County/ geology/
- Finch, W. I., 1967
Colorado Plateau/ Front Range/ Igneous-metamorphic/
geology/ Larimer County/ Jackson County/ Routt
County/ Moffat County/ Garfield County/ Grand
County/ Eagle County/ Boulder County/ Jefferson
County/ Park County/ Mesa County/ Montrose County/
El Paso County/ San Miguel County/ Bent County/
Park County/ Saguache County/ Pueblo County/
Bent County/ Dolores County/ Las Animas County/
Huerfano County/ Costilla County/ Custer County/
San Juan County/ La Plata County/ Montezuma
County/
- Fischer, R. P., 1937
copper/ vanadium/ silver/ uranium/ sedimentary
deposits/ Colorado Plateau/ sandstone/ Mesa
County/ Montrose County/ Montezuma County/ Dolores
County/ San Miguel County/
- Fischer, R. P., 1942
vanadium/ production/ sandstone/ Morrison Formation/
Entrada Shinarump Member/ conglomerate/ ore
deposits/ Dolores County/ San Miguel County/
Montrose County/ Colorado/ Utah/ Garfield County/
Colorado Plateau/ Entrada Sandstone/ Mesa County/
- Fischer, R. P., 1943
Colorado/ Utah/ vanadium/ ore deposits/ uranium/
radium/ Morrison Formation/ Entrada Sandstone/
Shinarump Member/ sandstone/ conglomerate/ Mesa
County/ Montrose County/ San Miguel County/
Garfield County/ Dolores County/ Colorado Plateau/
- Fischer, R. P., 1947
Colorado Plateau/ exploration/ drilling/ sandstone/
carnotite/ recommendations/ Garfield County/
San Miguel County/ Montrose County/ Mesa County/
- Fischer, R. P., 1949
Colorado Plateau/ uranium/ vanadium/ ore deposits/
genesis/ structure/ ground water/ sandstone/
Mesa County/ Montrose County/ Dolores County/
San Miguel County/
- Fischer, R. P., 1950
Colorado Plateau/ ore deposits/ sandstone/ uranium/
Morrison Formation/ Rio Blanco County/ Garfield
County/ Mesa County/ Delta County/ Montrose
County/ Dolores County/ Montezuma County/ La
Plata County/ Archuleta County/ ore guides/
Garfield County/ San Miguel County/
- Fischer, R. P., 1950
Morrison Formation/ Colorado Plateau/ Mesa County/
Dolores County/ Montrose County/ San Miguel
County/ Garfield County/ Rio Blanco County/
sandstone/ ore rolls/ carnotite/ geology/ ore
deposits/ mineralogy/ alteration/ Club mine/
uranium/ radium/ vanadium/ Entrada Sandstone/
genesis/
- Fischer, R. P., 1950
uranium/ vanadium/ potential/ Colorado Plateau/
sandstone/ ore deposits/ reserves/ analyses/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/
- Fischer, R. P., 1951
Colorado Plateau/ Uravan district/ exploration/
drilling/ sandstone/ ore deposits/ Morrison
Formation/ Montrose County/ Mesa County/ Dolores
County/ San Miguel County/
- Fischer, R. P., 1952
reserves/ resources/ Charles T. claims/ uranium/
Club Mesa area/ Maverick claims/ Radium claims/
Upper group/ Georgetown claims/ vanadium/ Colorado
Plateau/ carnotite/ Morrison Formation/ sandstone/
Dolores County/ San Miguel County/ Mesa County/
Montrose County/
- Fischer, R. P., 1955
Colorado Plateau/ hot springs/ uranium/ vanadium/
geochemistry/ igneous-metamorphic/ sedimentary
rocks/ veins/ sandstone/ ore deposits/ San Miguel
County/ Mesa County/ Montrose County/ Dolores
County/ Garfield County/
- Fischer, R. P., 1955
vanadium/ uranium/ geochemistry/ Colorado Plateau/
Igneous-metamorphic/ sedimentary rocks/ veins/
sandstone/ ore deposits/ San Miguel County/
Mesa County/ Montrose County/ Dolores County/
Garfield County/ hot springs/

- Fischer, R. P., 1955
veins/ igneous-metamorphic/ sedimentary rocks/
sandstone/ vanadium/ uranium/ ore deposits/
Colorado Plateau/ geochemistry/ San Miguel County/
Mesa County/ Montrose County/ Dolores County/
Garfield County/ hot springs/
- Fischer, R. P., 1955
Durango district/ Placerville district/ Rico
district/ uranium/ vanadium/ chromium/ Delta
County/ Garfield County/ La Plata County/ Ouray
County/ Rio Blanco County/ San Juan County/
San Miguel County/ minerals/ mariposite/ sandstone/
Entrada Sandstone/ regional relations/ ore deposits/
Colorado Plateau/ Mesa County/ Moffat County/
Montezuma County/ Montrose County/ Rifle area/
Dolores County/
- Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/
genesis/ mineralogy/ Morrison Formation/ Entrada
Sandstone/ sandstone/ Mesa County/ copper/ Montrose
County/ San Miguel County/ Dolores County/ San
Juan County/ Uravan district/
- Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/
genesis/ mineralogy/ Morrison Formation/ Entrada
Sandstone/ sandstone/ Mesa County/ copper/ Montrose
County/ San Miguel County/ Dolores County/ San
Juan County/ Uravan district/
- Fischer, R. P., 1968
Colorado Plateau/ geology/ structure/ ore deposits/
genesis/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/ Dolores County/ Chinle
Formation/ Morrison Formation/ Montezuma County/
La Plata County/ San Juan County/ Garfield County/
Rio Blanco County/ Moffat County/ Entrada Sandstone/
production/ stratigraphy/
- Fischer, R. P., 1970
Colorado/ Wyoming/ Colorado Plateau/ genesis/
supergene processes/ ore deposits/ sandstone/
configuration/ distribution/ uranium/ Arizona/
mineralogy/ New Mexico/ Utah/ Mesa County/ Montrose
County/ Montezuma County/ Dolores County/ San
Miguel County/ Rio Blanco County/
- Fischer, R. P., 1973
ore guides/ uranium districts/ mineral belts/
exploration/ future/ ore deposits/ Colorado
Plateau/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/
- Fischer, R. P., 1974
exploration/ ore guides/ uranium/ ore deposits/
Colorado Plateau/ Uravan district/ genesis/
sandstone/ Mesa County/ Montrose County/ San
Miguel County/ Dolores County/
- Fischer, R. P., and Blackman, D. H., 1949
Colorado Plateau/ ore guides/ genesis/ Morrison
Formation/ carnotite/ sandstone/ Mesa County/
Montrose County/ Dolores County/ San Miguel
County/ ore deposits/ Calamity group/ geology/
structure/
- Fischer, R. P., and Blackman, D. H., 1949
Colorado Plateau/ geobotany/ sandstone/ carnotite/
Calamity group/ ore deposits/ geology/ mineralogy/
genesis/ ore guides/ stratigraphy/ ground water/
Morrison Formation/ Mesa County/ Lower group/
San Miguel County/ vanadium/ Club mine/ Montrose
County/ Yellow Cat group/ geochemistry/
- Fischer, R. P., and Hilpert, L. S., 1951
Calamity Mesa/ Club Mesa/ Long Park/ Outlaw
Mesa/ Mesa County/ Montrose County/ San Miguel
County/ ore guides/ production/ Dolores County/
Uravan mineral belt/ sandstone/ ore deposits/
Morrison Formation/ Colorado Plateau/ carnotite/
exploration/ geology/ vanadium/ uranium/ Uravan
district/
- Fischer, R. P., and Hilpert, L. S., 1951
Calamity Mesa/ Club Mesa/ Long Park/ Outlaw
Mesa/ Mesa County/ Montrose County/ San Miguel
County/ ore guides/ production/ Dolores County/
Uravan mineral belt/ sandstone/ Morrison Formation/
Colorado Plateau/ ore deposits/ carnotite/ exploration/
geology/ vanadium/ uranium/ Uravan district/
- Fischer, R. P., and Hilpert, L. S., 1952
Uravan mineral belt/ ore deposits/ carnotite/
Mesa County/ Montrose County/ Outlaw Mesa/ Calamity
Mesa/ Club Mesa/ Long Park/ exploration/ geology/
sandstone/ Colorado Plateau/ Morrison Formation/
uranium/ Uravan district/ Dolores County/ San
Miguel County/ ore guides/ production/ vanadium/
- Fischer, R. P., Hilpert, L. S., Schumacher, J.
I., and others, 1951
Investigations/ carnotite/ ore deposits/ sandstone/
Colorado Plateau/ Morrison Formation/ Chinle
Formation/ Entrada Sandstone/ San Miguel County/
Mesa County/ Dolores County/ Garfield County/
- Fix, P. F., 1954
San Miguel River/ Montrose County/ ground water/
nonsaline waters/ analyses/ Big Springs Gulch/
Orvis Hot spring/ streams/ geochemistry/ Mesa
County/ San Miguel County/ Ouray County/ Hinsdale
County/ Gunnison County/ springs/ Cougar mine
spring/ Maverick Mesa spring/ Cimarron Creek/
Blue Creek/ Colorado Plateau/ Calamity Mesa
spring/
- Fleck, Herman, and Haldane, W. G., 1909
carnotite/ uranium/ vanadium/ radioactivity/
Dolores County/ Montrose County/ Mesa County/
San Miguel County/ sandstone/ Colorado Plateau/
- Fleck, Herman, and Haldane, W. G., 1909
carnotite/ uranium/ vanadium/ radioactivity/
Dolores County/ Montrose County/ Mesa County/
San Miguel County/ sandstone/ Colorado Plateau/
- Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/
geochemistry/ clay mineralogy/ uranium/ vanadium/
sandstone/ Moffat County/ Rio Blanco County/
Garfield County/ Mesa County/ Delta County/
San Miguel County/ Montrose County/ Dolores
County/ Montezuma County/ La Plata County/ Archuleta
County/

- Gabelman, J. W., 1956
uranium/ ore deposits/ limestone/ Colorado Plateau/
Gypsum Valley area/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/ Wanakah
Formation/
- Gabelman, J. W., 1956
uranium/ ore deposits/ limestone/ Colorado Plateau/
Gypsum Valley area/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/ Wanakah
Formation/
- Gabelman, J. W., and Boyer, W. H., 1974
exploration/ status/ uranium/ technology/ history/
pitchblende/ radium/ vanadium/ Colorado Plateau/
Front Range/ Montrose County/ Mesa County/ San
Miguel County/ Dolores County/ Moffat County/
Jefferson County/ sandstone/ igneous-metamorphic/
shale/
- Garrels, R. M., 1953
Colorado Plateau/ ore deposits/ carnotite/ genesis/
weathering/ transport/ deposition/ Paradox Valley/
Uravan district/ Montrose County/ sandstone/
San Miguel County/ Mesa County/ geology/
- Garrels, R. M., and Larsen, E. S., 3d, compilers,
1959
Colorado Plateau/ ore deposits/ mineralogy/
geochemistry/ sandstone/ ground water/ clay/
mudstone/ organics/ Peanut mine/ J. J. mine/
Montrose County/ Rifle mine/ Garfield mine/
Moffat County/ Rio Blanco County/ Mesa County/
Delta County/ San Miguel County/ Dolores County/
La Plata County/ Montezuma County/ Archuleta
County/
- Garrels, R. M., and Pommer, A. M., 1956
Colorado Plateau/ oxidation/ reduction/ ore
deposits/ organics/ uraninite/ pyrite/ sandstone/
geochemistry/ San Miguel County/ Garfield County/
Montrose County/ Mesa County/
- Garrels, R. M., and Pommer, A. M., 1959
oxidation/ reduction/ ores/ minerals/ geochemistry/
ore deposits/ mineralogy/ Colorado Plateau/
sandstone/ San Miguel County/ Mesa County/ Montrose
County/ Garfield County/
- Garrels, R. M., and Richter, D. H., 1955
thermodynamics/ uranium oxides/ oxidation states/
Colorado Plateau/ ore deposits/ San Miguel County/
genesis/ sandstone/ Montrose County/ Garfield
County/ Mesa County/
- Gilbert, C. C., 1954
resources/ sandstone/ Uravan district/ Morrison
Formation/ Mesa County/ Montrose County/ Gateway
district/ Gypsum Valley district/ Slick Rock
district/ Colorado Plateau/ Salt Wash Member/
Dolores County/ San Miguel County/ Paradox district/
- Goldenstein, S. J., 1957
economic map/ Mount Waas quadrangle/ Utah/ Colorado/
Mesa County/ sandstone/ ore deposits/ resources/
Colorado Plateau/
- Gruner, J. W., 1951
Shinarump Member/ Morrison Formation/ Colorado
Plateau/ conglomerate/ sandstone/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ Utah/ pitchblende/
genesis/ Chinle Formation/ ore deposits/
- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ genesis/ mineralization/
shale/ sandstone/ siltstone/ clays/ Morrison
Formation/ Colorado/ Utah/ Arizona/ New Mexico/
Moenkopi Formation/ Shinarump Member/ conglomerate/
Mesa County/ Montrose County/ San Miguel County/
asphaltite/ uraninite/ copper/ Chinle Formation/
- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ syngenetic processes/
hydrothermal processes/ ground water/ genesis/
Shinarump Member/ conglomerate/ Morrison Formation/
sandstone/ conglomerate/ mudstone/ limestone/
Todilto Limestone/ Mesa County/ Montrose County/
Dolores County/ San Miguel County/ Montezuma
County/ Chinle Formation/
- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ intrusives/
extrusives/ ore sources/ sandstone/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ ground water/ igneous-metamorphic/
- Gruner, J. W., 1954
Colorado Plateau/ ore deposits/ genesis/ mineralogy/
Utah/ Colorado/ sandstone/ siltstone/ conglomerate/
limestone/ uranium/ vanadium/ New Mexico/ geology/
San Miguel County/ Montrose County/ Mesa County/
- Gruner, J. W., 1954
Colorado Plateau/ genesis/ ore deposits/ organic
materials/ sandstone/ uranium/ carbon/ San Miguel
County/ Montrose County/ Mesa County/
- Gruner, J. W., 1956
uranium concentration/ sediments/ geochemistry/
Colorado Plateau/ sandstone/ Mesa County/ genesis/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ multiple migration-accretion/
- Gruner, J. W., 1956
Colorado Plateau/ ore deposits/ mineral assemblages/
Utah/ Colorado/ uranium/ sandstone/ continental-type
deposits/ Morrison Formation/ San Miguel County/
Montrose County/ Mesa County/
- Gruner, J. W., 1956
uranium concentration/ sediments/ geochemistry/
sandstone/ genesis/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ multiple migration-accretion/ Colorado
Plateau/
- Gruner, J. W., and Knox, J. A., 1957
Colorado/ Arizona/ Montana/ New Mexico/ South
Dakota/ minerals/ uranium/ ore deposits/ mines/
San Miguel County/ Colorado Plateau/ Fremont
County/ Gunnison County/ Saguache County/ volcanics/
conglomerate/ Morrison Formation/ sandstone/
siltstone/ igneous-metamorphic/ Montrose County/
Mesa County/ Moffat County/ Browns Park Formation/

- Gruner, J. W., and Smith, D. K., Jr., 1954
South Dakota/ Wyoming/ ore deposits/ uranium/
Colorado Plateau/ sandstone/ siltstone/ shale/
coffinite/ uraninite/ organics/ Hopi Buttes/
diatremes/ Arizona/ Colorado/ New Mexico/ Utah/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/
- Gruner, J. W., and Smith, D. K., Jr., 1955
Wyoming/ South Dakota/ North Dakota/ Colorado/
sandstone/ Browns Park Formation/ Colorado Plateau/
Morrison Formation/ Chinle Formation/ Mesa County/
San Miguel County/ peat/ lignite/ Moffat County/
Montrose County/
- Gruner, J. W., and Smith, D. K., Jr., 1955
siltstone/ sandstone/ Colorado Plateau/ uranium/
coffinite/ Jurassic/ Larimer County/ Black King
mine/ Mesa County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ mineralogy/
Morrison Formation/ Bull Canyon district/ Calamity
Mesa/ Paradox Valley/ Salt Wash Member/ Front
Range/
- Gruner, J. W., Gardiner, L., and Smith, D. K.,
Jr., 1953
ore deposits/ black shale/ genesis/ carbonaceous
materials/ asphaltic materials/ Colorado Plateau/
Colorado/ Utah/ hydrocarbons/ asphaltite/ thucholite/
sandstone/ uranium/ vanadium/ Calamity Mesa/
Mesa County/ Montrose County/
- Gruner, J. W., Rosenzweig, A., and Smith, D. K.,
Jr., 1954
Colorado Plateau/ ore deposits/ mineralogy/
uraninite/ coffinite/ vanadium/ uranium/ Colorado/
Utah/ New Mexico/ Todilto Limestone/ limestone/
Morrison Formation/ sandstone/ Entrada Sandstone/
Dolores County/ San Miguel County/ Greysill
mine/ Mesa County/ Montrose County/ San Juan
County/
- Gulliotte, G. B., 1944
minerals/ hydrocarbons/ Uinta basin/ Colorado/
Utah/ Garfield County/ Rio Blanco County/ uranium/
Colorado Plateau/ reconnaissance/ ore deposits/
sandstone/ Mesa County/ gilsonite/ shale/ Green
River Formation/ oil shale/ native asphalts/
- Gulliotte, G. B., 1947
drilling/ mineralization/ Mesa County/ sandstone/
radioactivity/ ore deposits/ well logging/ gamma-ray
logs/ Calamity district/ Uncompahgre uplift
area/ Colorado Plateau/
- Gustafson, J. K., 1949
Colorado Plateau/ uranium/ history/ production/
Colorado/ Utah/ exploration/ sandstone/ San
Miguel County/ Montrose County/ Mesa County/
- Gustafson, J. K., 1949
uranium/ resources/ veins/ Gilpin County/ Front
Range/ Boulder County/ igneous-metamorphic/
pitchblende/ vanadium/ Morrison Formation/ sandstone/
Montrose County/ Mesa County/ San Miguel County/
Colorado Plateau/
- Hackman, R. J., 1958
Mesa County/ Montrose County/ Delta County/
photogeologic map/ sandstone/ Colorado Plateau/
Escalante Forks quadrangle/
- Hackman, R. J., 1959
Grand County/ photogeologic map/ Coach Creek
NE quadrangle/ sandstone/ Colorado Plateau/
- Hackman, R. J., 1959
Grand County/ photogeologic map/ Coach Creek
SE quadrangle/ sandstone/ Colorado Plateau/
- Hager, Dorsey, 1955
Colorado Plateau/ ore deposits/ exploration/
channels/ sandstone/ uranium/ ore concentration/
San Miguel County/ Montrose County/ Mesa County/
- Hague, R. S., Goldstein, S. J., and Blakey, E., 1958
sandstone/ uranium/ vanadium/ Uravan mineral
belt/ ore deposits/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/ Colorado
Plateau/
- Hampton, O. W., 1955
Colorado Plateau/ ore deposits/ resources/ exploration/
production/ costs/ sandstone/ uranium/ methods/
mining/ San Miguel County/ Montrose County/
Mesa County/
- Harder, J. O., and Stead, F. W., 1945
Boulder County/ Gilpin County/ Gunnison County/
Mesa County/ Teller County/ ore deposits/ sandstone/
igneous-metamorphic/ reconnaissance/ Front Range/
Colorado Plateau/ Jefferson County/
- Hawkes, H. E., 1949
Colorado Plateau/ botany/ geobotany/ Garfield
ore zones/ carnotite/ ore deposits/ Charles
T. mine/ geology/ sandstone/ Utah/ selenium/
Rifle mine/ Lower group mines/ Garfield mine/
Mesa County/ Montrose County/ San Miguel County/
Arizona/
- Hedge, C. E., Peterman, Z. E., Case, J. E., and
others, 1968
Precambrian rocks/ geochronology/ Uncompahgre
Plateau/ Mesa County/ igneous-metamorphic/ Utah/
Colorado Plateau/
- Henderson, E. P., and Hess, F. L., 1933
corvusite/ vanadium/ San Miguel County/ Mesa
County/ Gateway district/ Gypsum Valley district/
Colorado/ Colorado Plateau/ sandstone/ rilandite/
Utah/ carnotite/
- Hess, F. L., 1914
genesis/ carnotite/ Colorado/ uranium/ vanadium/
Rio Blanco County/ Eagle County/ geology/ San
Miguel County/ Montrose County/ Moffat County/
Routt County/ Garfield County/ Mesa County/
Delta County/ Dolores County/ Montezuma County/
La Plata County/ Archuleta County/ Utah/ Colorado
Plateau/ sandstone/ ore deposits/
- Hess, F. L., 1922
Colorado Plateau/ ore deposits/ resources/ radium/
uranium/ vanadium/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ sandstone/

- Hess, F. L., 1925
carnotite/ vanoxite/ vanadium/ mineralogy/ sandstone/
Rio Blanco County/ Garfield County/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ La Plata County/ Colorado
Plateau/ ore deposits/ Delta County/
- Hess, F. L., 1925
Colorado/ Colorado Plateau/ uranium/ vanadium/
sandstone/ radium/ San Miguel County/ Montrose
County/ Mesa County/ ore deposits/ resources/
- Hess, F. L., 1927
Colorado/ Colorado Plateau/ uranium/ vanadium/
radium/ sandstone/ ore deposits/ resources/
San Miguel County/ Montrose County/ Mesa County/
- Hess, F. L., 1929
Colorado/ Colorado Plateau/ uranium/ vanadium/
radium/ sandstone/ ore deposits/ resources/
San Miguel County/ Montrose County/ Mesa County/
- Hess, F. L., 1932
Colorado/ Colorado Plateau/ vanadium/ sandstone/
ore deposits/ San Miguel County/ Montrose County/
Mesa County/
- Hess, F. L., 1933
bituminous substances/ uranium/ vanadium/ radium/
gold/ silver/ molybdenum/ sediments/ Colorado
Plateau/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/
- High, T. D., 1970
uranium/ vanadium/ mines/ sandstone/ reports/
Dolores County/ Gunnison County/ Little Indian
property/ Mesa County/ Montrose County/ San
Miguel County/ igneous-metamorphic/ Colorado
Plateau/
- High, T. D., 1971
uranium/ vanadium/ mines/ sandstone/ Dolores
County/ Montrose County/ Saguache County/ Pitch
mine/ igneous-metamorphic/ San Miguel County/
Colorado Plateau/ Mesa County/
- High, T. D., 1972
uranium/ vanadium/ mines/ reports/ sandstone/
Montrose County/ San Miguel County/ Mesa County/
Saguache County/ igneous-metamorphic/ Pitch
mine/ Colorado Plateau/ Dolores County/
- High, T. D., 1973
Dolores County/ uranium/ vanadium/ sandstone/
mines/ reports/ Mesa County/ Montrose County/
San Miguel County/ Colorado Plateau/
- High, T. D., 1974
uranium/ vanadium/ Dolores County/ Mesa County/
reports/ Montrose County/ San Miguel County/
sandstone/ mines/ Colorado Plateau/
- High, T. D., 1975
uranium/ vanadium/ mapping/ geological studies/
drilling/ Dolores County/ Mesa County/ sandstone/
Colorado Plateau/ Montrose County/ San Miguel
County/ Rico-Argentine district/
- Hillebrand, W. F., and Ransome, F. L., 1905
San Miguel County/ Montrose County/ Mesa County/
carnotite/ mineralogy/ vanadium/ sandstone/
Placerville district/ analyses/ Roc Creek area/
La Sal Creek area/ ore deposits/ Colorado Plateau/
- Hillebrand, W. F., Merwin, H. E., and Wright, F.
E., 1914
San Miguel County/ Montrose County/ Mesa County/
carnotite/ mineralogy/ vanadium/ sandstone/
Placerville district/ analyses/ Roc Creek area/
La Sal Creek area/ ore deposits/ hewettite/
metahewettite/ pascolite/ Colorado Plateau/ hydrous
calcium vanadates/
- Hillebrand, W. F., Wright, F. E., and Merwin, H.
E., 1913
calcium vanadates/ vanadium/ Peru/ Colorado/
Utah/ Montrose County/ San Miguel County/ sandstone/
Colorado Plateau/ minerals/ Mesa County/
- Hilpert, L. S., 1953
Colorado Plateau/ sandstone/ exploration/ Mesa
County/ Montrose County/ San Miguel County/
Dolores County/ ore deposits/ drilling/ Morrison
Formation/ Uravan district/ Yellow Cat mine/
Monogram Mesa/ Gateway district/
- Hilpert, L. S., and Boardman, R. L., 1953
Colorado Plateau/ sandstone/ Colorado/ Utah/
Mesa County/ San Miguel County/ Dolores County/
drilling/ exploration/ ore deposits/ Morrison
Formation/ Salt Wash Member/ Uravan district/
Gateway district/ Gypsum Valley district/ Montrose
County/
- Hilpert, L. S., and Fischer, R. P., 1949
Mesa County/ uranium/ vanadium/ minerals/ carnotite/
drilling/ exploration/ ore deposits/ Outlaw
Mesa/ sandstone/ Gateway district/ Colorado
Plateau/ analyses/
- Holmes, C. N., 1949
geology/ carnotite/ ore deposits/ Colorado Plateau/
sandstone/ San Miguel County/ Montrose County/
Mesa County/
- Holmes, C. N., 1950
sandstone/ Uncompahgre uplift/ tectonics/ sedimentary
rocks/ Mesozoic/ Chinle Formation/ Pitkin County/
Gunnison County/ Montrose County/ Mesa County/
Delta County/ Dolores County/ Dolores Formation/
Montezuma County/ Entrada Sandstone/ stratigraphy/
Morrison Formation/ Colorado Plateau/
- Holmes, R. U., and Harrer, C. M., 1952
Mesa County/ Montrose County/ copper/ sandstone/
Colorado Copper Company/ Colorado Plateau/
- Huleatt, W. P., Hazen, S. W., Jr., and Traver,
W. M., Jr., 1946
exploration/ vanadium/ Colorado/ Utah/ Colorado
Plateau/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/ Dolores County/
- Hunt, C. B., 1956
Cenozoic/ geology/ Colorado Plateau/ physiography/
stratigraphy/ Moffat County/ sandstone/ Delta
County/ Rio Blanco County/ Garfield County/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/

- Hunt, C. B., 1958
structural geology/ igneous geology/ La Sal Mountains/ Utah/ stratigraphy/ genesis/ economic geology/ Mesa County/ Montrose County/ Colorado/ igneous-metamorphic/ Colorado Plateau/
- Hurley, D. B., and Crew, M. E., 1953
drilling/ Colorado Plateau/ sandstone/ San Miguel County/ drilling trends/ ore deposits/ reserves/ Montrose County/ Mesa County/
- Isachsen, Y. W., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/ Holiday Mesa/ Happy Jack mine/ Calyx mines/ Delta mine/ Cameron district/ copper/ vanadium/ sandstone/ geology/ ore deposits/ Montrose County/ San Miguel County/ Dolores County/ Big Indian Wash - Lisbon Valley district/ Mesa County/ stratigraphy/ structure/
- Isachsen, Y. W., and Evensen, C. G., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/ Holiday Mesa/ Happy Jack mine/ Calyx mines/ Delta mine/ Cameron district/ copper/ vanadium/ Big Indian Wash-Lisbon Valley district/ sandstone/ geology/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ stratigraphy/ structure/
- Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1954
uranium/ ore deposits/ exploration/ drilling/ Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/
- Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1955
Colorado Plateau/ ore deposits/ absolute age/ host rocks/ sandstone/ formational environments/ Entrada Sandstone/ Kayenta Formation/ Garfield County/ Moffat County/ Rio Blanco County/ San Miguel County/ Mesa County/ Montrose County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Ives, R. L., 1936
sandstone/ radium/ mining/ ore deposits/ San Miguel County/ Colorado Plateau/ history/ Utah/ carnotite/ Montrose County/ Dolores County/ Mesa County/ Montezuma County/ uranium/ McElmo Formation/
- Jensen, M. L., 1957
Colorado Plateau/ ore deposits/ mineralization/ sulfides/ uranium/ sandstone/ sulfur isotopes/ sulfur ratios/ genesis/ San Miguel County/ Montrose County/ Mesa County/
- Jensen, M. L., 1971
carbon/ oxygen/ sulfur/ isotopes/ genesis/ sandstone/ uranium/ ore deposits/ Colorado Plateau/ Wyoming/ San Miguel County/ Montrose County/ Garfield County/ Mesa County/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ regional transmissivity/ Delta County/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Montrose County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/
- Jobin, D. A., 1962
Colorado Plateau/ ore deposits/ Morrison Formation/ transmissivity/ sandstone/ San Miguel County/ ground water/ conglomerate/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Joesting, H. R., and Byerly, P. E., 1953
Gateway district/ Sleeping Ute Mountain/ Uravan district/ geophysics/ Colorado Plateau/ San Miguel County/ Montrose County/ Mesa County/ Montezuma County/ Dolores County/ sandstone/ Slick Rock district/ vanadium/ uranium/ Egnar district/ ore deposits/
- Joesting, H. R., and Byerly, P. E., 1956
Disappointment Valley/ Gypsum Valley/ Nucla district/ Paradox district/ Uncompahgre Plateau/ Mesa County/ San Miguel County/ Uravan district/ ore deposits/ salt anticlines/ Disappointment syncline/ geophysics/ sandstone/ Colorado Plateau/ geology/ Dolores County/ Montrose County/
- Joesting, H. R., and Byerly, P. E., 1956
aeromagnetism/ gravity profiles/ sandstone/ Colorado Plateau/ Colorado/ Utah/ Mesa County/ Montrose County/ Dolores County/ Uravan district/ geology/ ore deposits/ geophysics/ San Miguel County/
- Joesting, H. R., and Byerly, P. E., 1958
Disappointment Valley/ Disappointment syncline/ Nucla district/ Paradox district/ Uncompahgre Plateau/ Mesa County/ Montrose County/ San Miguel County/ geophysics/ salt anticlines/ map/ ore deposits/ sandstone/ Gypsum Valley district/ Uravan district/ geology/ Dolores County/ Colorado Plateau/
- Joesting, H. R., and Case, J. E., 1960
salt anticlines/ structures/ Paradox basin/ Colorado/ Utah/ ore deposits/ sandstone/ Hermosa Formation/ Paradox Member/ Montrose County/ Mesa County/ San Miguel County/ structural geology/ Colorado Plateau/
- Joesting, H. R., and Case, J. E., 1962
geophysics/ Salt Valley area/ Cisco area/ Utah/ Colorado/ sandstone/ Mesa County/ Colorado Plateau/
- Joesting, H. R., Case, J. E., and Plouff, D. F., 1966
Moab area/ Needles area/ Utah/ sandstone/ Mesa

- County/ Montrose County/ geophysics/ stratigraphy/ geology/ magnetic survey/ gravity survey/ structural geology/ San Miguel County/ Dolores County/ Colorado Plateau/
- Kahn, J. S., Groff, D. W., and Griffiths, J. C., 1953
lithology/ cores/ Colorado Plateau/ Morrison Formation/ petrography/ Salt Wash Member/ sediments/ sandstone/ structure/ Mesa County/ Montrose County/ San Miguel County/ shale/ siltstone/ Bull Canyon district/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bastonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/
- Keller, G. V., 1959
electrical properties/ sandstone/ Morrison Formation/ geophysics/ resistivity/ porosity/ Dolores County/ Mesa County/ Montrose County/ San Miguel County/ Uravan district/ exploration/ Colorado Plateau/
- Keller, G. V., and Licastro, P. H., 1959
dielectric constant/ electrical resistivity/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Miguel County/ Dolores County/ cores/ Colorado Plateau/ Morrison Formation/
- Keller, W. D., 1953
Colorado Plateau/ ore deposits/ mudstone/ clay mineralogy/ uranium/ vanadium/ Morrison Formation/ San Miguel County/ Chino Formation/ Montrose County/ Mesa County/ Dolores County/ sandstone/ clay minerals/
- Keller, W. D., 1962
clay minerals/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ mineralogy/ Mesa County/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/
- Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ Archuleta County/ Ouray County/ Gunnison County/ Montrose County/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Moffat County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ regional structure/
- Kelley, V. C., 1959
structures/ fracture systems/ Colorado Plateau/ faults/ fractures/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Montezuma County/ Moffat County/ San Juan County/ Ouray County/ Delta County/ Gunnison County/ Garfield County/ La Plata County/ Rio Blanco County/
- Kelley, V. C., 1959
jointing/ Colorado Plateau/ sandstone/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/
- Kelley, V. C., and Clinton, N. J., 1960
Colorado Plateau/ sandstone/ fractures/ tectonics/ genesis/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/
- Kellogg, J. P., 1952
Colorado Plateau/ ore deposits/ exploration/ drilling/ Utah/ Colorado/ Arizona/ New Mexico/ uranium/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Salt Wash Member/ Tenderfoot Mesa/
- Kellogg, J. P., 1954
drilling/ statistics/ Colorado Plateau/ Mesa County/ San Miguel County/ Montezuma County/ Dolores County/ sandstone/ exploration/

- Kellogg, J. P., 1955
cost review/ exploration/ Colorado Plateau/
drilling/ statistics/ Mesa County/ drilling
rates/ Utah/ sandstone/ Montrose County/
- Kerr, G. D., Abdullah, S. A., Auxler, J. A., and
others, 1974
air/ alpha sources/ ore deposits/ building materials/
Colorado/ concretes/ daughter products/ radiation
monitoring/ radioactivity/ radon/ uranium/ Mesa
County/ sandstone/ Colorado Plateau/
- Kerr, P. F., 1958
uranium/ ore deposits/ genesis/ alteration/
mineralogy/ Colorado Plateau/ Archuleta County/
conglomerate/ sandstone/ Moffat County/ Rio
Blanco County/ Garfield County/ Mesa County/
Delta County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
- Kerr, P. F., 1958
Colorado Plateau/ ore deposits/ genesis/ sandstone/
stratigraphy/ uranium/ Moffat County/ Rio Blanco
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Montezuma County/ La Plata County/ Archuleta
County/ hydrothermal emplacement/ Dolores County/
- Kirkemo, Harold, 1954
Colorado Plateau/ sandstone/ exploration/ drilling/
Mesa County/ Montrose County/ San Miguel County/
Uravan district/ ore deposits/ Morrison Formation/
Colorado/ Utah/ Arizona/ Long Park district/
Dolores County/ Yellow Cat mine/ Slick Rock
district/
- Kirkemo, Harold, 1954
ore deposits/ Morrison Formation/ Salt Wash
Member/ Colorado Plateau/ exploration/ sandstone/
Monogram Mesa/ Uravan district/ Jo Dandy area/
Mesa County/ Montrose County/ San Miguel County/
Garfield County/ Entrada Sandstone/ Moffat County/
Browns Park Formation/ Slick Rock district/
Long Park district/
- Kirkpatrick, R. K., 1944
uranium/ exploration/ mineralization/ lithology/
Clamity Mesa area/ Uncompahgre uplift area/
sandstone/ stratigraphy/ Mesa County/ ore deposits/
geology/ Colorado Plateau/
- Kilne, M. A., Jr., 1954
Gateway district/ Colorado Plateau/ uranium/
vanadium/ Mesa County/ Morrison Formation/ carnotite/
stratigraphy/ structure/ ore deposits/ sandstone/
economics/ development/ marketing/
- Kober, C. L., and Procter-Gregg, H. D., 1977
uranium/ alteration zones/ LANDSAT MSS imagery/
Jefferson County/ Boulder County/ Mesa County/
Montrose County/ San Miguel County/ Colorado
Plateau/ Douglas County/ sandstone/ Front Range/
igneous-metamorphic/
- Koerberlin, F. R., 1938
copper/ vanadium/ uranium/ silver/ Colorado/
Utah/ genesis/ ore deposits/ discussion/ Montrose
County/ Colorado Plateau/ Mesa County/ Montezuma
County/ San Miguel County/ Dolores County/ sandstone/
- Lindgren, Waldemar, 1933
copper/ lead/ vanadium/ uranium/ sandstone/
shale/ carnotite/ roscoelite/ Colorado Plateau/
Dolores County/ San Miguel County/ Mesa County/
Montrose County/ Entrada Sandstone/ La Plata
Sandstone/ McElmo Formation/ genesis/ Gilpin
County/ igneous-metamorphic/ ore deposits/ Front
Range/
- Lowell, J. D., 1953
Colorado Plateau/ uranium/ exploration/ cross
stratification/ Morrison Formation/ sandstone/
Arizona/ New Mexico/ mud-pellets/ conglomerate/
Salt Wash Member/ Calamity Mesa/ Mesa County/
Colorado/ Utah/ ore deposits/ Chuska Mountains/
- Maise, C. R., 1953
Colorado Plateau/ ore deposits/ genesis/ ground
water/ mineralization/ sandstone/ Jurassic/
syncline/ aquifers/ experimental simulation/
Morrison Formation/ Salt Wash Member/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/
- McDougald, W. D., 1954
stratigraphy/ radioactivity/ radiation detectors/
geology/ radiation monitoring/ Paleocene/ Ohio
conglomerate/ Eocene/ DeBeque area/ Mesa County/
Garfield County/ Colorado Plateau/ sandstone/
- McKay, E. J., 1951
Colorado Plateau/ ore deposits/ Mesa County/
Montrose County/ Uravan district/ Gateway district/
ore guides/ exploration/ sandstone/ Morrison
Formation/ Salt Wash Member/ carnotite/
- McKay, E. J., 1953
Carpenter Ridge/ Carpenter Flats/ Martin Mesa/
Uravan district/ Montrose County/ Red Canyon
quadrangle/ carnotite/ Dolores mines/ Raven
mine/ Shamrock mine/ sandstone/ Morrison Formation/
Salt Wash Member/ stratigraphy/ Brushy Basin
Member/ Mesa County/ Colorado Plateau/ ore deposits/
geology/
- McKay, E. J., 1953
Blue Mesa/ Uravan district/ Mesa County/ Montrose
County/ sandstone/ Morrison Formation/ Salt
Wash Member/ Utah/ stratigraphy/ Colorado Plateau/
carnotite/ Gateway district/ ore deposits/ exploration/
geology/ genesis/ localization/ ore guides/
- McKay, E. J., 1953
Uravan district/ Montrose County/ ore guides/
carnotite/ Star No. 1 claim/ Wright mines/ theories
of origin/ sandstone/ Morrison Formation/ Salt
Wash Member/ stratigraphy/ Brushy Basin Member/
Burro Canyon Formation/ geology/ Colorado Plateau/
ore deposits/ Wingate Sandstone/ Mesa County/
Atkinson Creek quadrangle/
- McKay, E. J., 1954
Montrose County/ Mesa County/ Colorado Plateau/
Morrison Formation/ Salt Wash Member/ sandstone/
Dolores mines/ Shamrock mines/ Raven claim/
Martin Mesa/ Carpenter Flats/ carnotite/ geology/
ore deposits/ Red Canyon quadrangle/
- McKay, E. J., 1955
Montrose County/ Mesa County/ Colorado Plateau/

Morrison Formation/ Salt Wash Member/ sandstone/
Dolores mines/ Shamrock mines/ Raven claim/
Martin Mesa/ Carpenter Flats/ carnotite/ geology/
ore deposits/ Red Canyon quadrangle/

McKay, E. J., 1955

Montrose County/ Mesa County/ Atkinson Creek
quadrangle/ Colorado Plateau/ Morrison Formation/
Salt Wash Member/ sandstone/ Wright mines/ Star
No. 1 claim/ geology/ ore deposits/

McKay, E. J., 1955

Colorado/ Utah/ Gateway district/ ore deposits/
exploration/ Jurassic/ Morrison Formation/ Uravan
district/ Salt Wash Member/ sandstone/ Mesa
County/ Montrose County/ Colorado Plateau/ geology/

McKay, E. J., and Jobin, D. A., 1954

Montrose County/ Mesa County/ Atkinson Creek
quadrangle/ Colorado Plateau/ Morrison Formation/
Salt Wash Member/ sandstone/ Wright mines/ Star
No. 1 claim/ geology/ ore deposits/

McKelvey, V. E., 1953

Colorado Plateau/ Dolores County/ Mesa County/
exploration/ veins/ sandstone/ Igneous-metamorphic/
pegmatites/ geobotany/ Front Range/ Gilpin County/
Clear Creek County/ coal/ Montrose County/ San
Miguel County/ ore deposits/ phosphates/ shale/
placers/

McKelvey, V. E., 1953

Dolores County/ Mesa County/ exploration/
veins/ sandstone/ igneous-metamorphic/ Front
Range/ pegmatites/ geobotany/ Gilpin County/
Clear Creek County/ coal/ Montrose County/ San
Miguel County/ ore deposits/ Colorado Plateau/
phosphates/ shale/ placers/

McKelvey, V. E., 1954

Dolores County/ Mesa County/ exploration/ carnotite/
veins/ sandstone/ igneous-metamorphic/ pegmatites/
geobotany/ Front Range/ Gilpin County/ Clear
Creek County/ coal/ Montrose County/ San Miguel
County/ ore deposits/ veins/ Colorado Plateau/
phosphates/ shale/ placers/

McKelvey, V. E., 1955

ore deposits/ exploration/ veins/ bituminous
substances/ coal/ sandstone/ phosphates/ United
States/ Dolores County/ Mesa County/ Gilpin
County/ igneous-metamorphic/ Clear Creek County/
Montrose County/ San Miguel County/ Front Range/
Colorado Plateau/

McKelvey, V. E., Everhart, D. L., and Garrels,
R. M., 1955

genesis/ uranium/ ore deposits/ veins/ bituminous
substances/ sandstone/ limestone/ coal/ shale/
pitchblende/ geochemistry/ age/ Front Range/
Colorado Plateau/ Gilpin County/ Clear Creek
County/ Montrose County/ San Miguel County/
Mesa County/ igneous-metamorphic/

McKelvey, V. E., Everhart, D. L., and Garrels,
R. M., 1955

veins/ bituminous substances/ genesis/ uranium/
ore deposits/ igneous-metamorphic/ sandstone/
limestone/ coal/ shale/ pitchblende/ geochemistry/
age/ Front Range/ Colorado Plateau/ Gilpin County/

Clear Creek County/ San Miguel County/ Montrose
County/ Mesa County/

McKelvey, V. E., Everhart, D. L., and Garrels,
R. M., 1956

veins/ bituminous substances/ ore deposits/
migmatites/ sandstone/ shale/ igneous-metamorphic/
Colorado/ Colorado Plateau/ San Juan County/
San Miguel County/ Jefferson County/ Montrose
County/ Old Leyden mine/ coal/ Gilpin County/
Clear County/ uranium/ Front Range/ genesis/
Mesa County/

McKelvey, V. E., Everhart, D. L., and Garrels,
R. M., 1956

veins/ bituminous substances/ Colorado/ genesis/
uranium/ ore deposits/ pegmatites/ migmatites/
San Miguel County/ sandstone/ coal/ shale/ phosphorites/
igneous-metamorphic/ Front Range/ Colorado Plateau/
San Juan County/ replacement/ Jefferson County/
Montrose County/ Old Leyden mine/ Mesa County/
Gilpin County/ Clear Creek County/

McKelvey, V. E., Page, L. R., Fischer, R. P., 1951

geochemistry/ mineralogy/ geophysics/ geobotany/
veins/ pitchblende/ thorium/ uranium/ resources/
exploration/ igneous-metamorphic/ Front Range/
Gilpin County/ Clear Creek County/ pegmatites/
sandstone/ limestone/ Colorado Plateau/ Custer
County/ Gunnison County/ Boulder County/ Larimer
County/ Jefferson County/ coal/ San Miguel County/
Montrose County/ Mesa County/ Moffat County/

Melin, R. E., 1955

bibliography/ annotated/ geology/ sandstone/
uranium/ ore deposits/ United States/ Colorado
Plateau/ Morrison Formation/ Shinarump Member/
Chinle Formation/ Colorado/ Utah/ Montrose County/
Mesa County/ San Miguel County/ Missouri/ New
Mexico/ Wyoming/

Melin, R. E., 1957

bibliography/ annotated/ sandstone/ uranium/
United States/ ore deposits/ Colorado Plateau/
geology/ Morrison Formation/ Colorado/ Utah/
Missouri/ New Mexico/ Wyoming/ Montrose County/
Mesa County/ San Miguel County/

Merritt, P. L., 1950

uranium/ Colorado Plateau/ Front Range/ exploration/
Morrison Formation/ phosphates/ shale/ sandstone/
igneous-metamorphic/ Mesa County/ Montrose County/
San Miguel County/ Montezuma County/ Dolores
County/ Gilpin County/ Clear Creek County/ Garfield
County/ Boulder County/

Merritt, P. L., 1950

uranium/ exploration/ Colorado Plateau/ sandstone/
Morrison Formation/ Entrada Sandstone/ Mesa
County/ San Miguel County/ Dolores County/ Montezuma
County/ Front Range/ Boulder County/ Gilpin
County/ Caribou district/ igneous-metamorphic/
Montrose County/ Clear Creek County/

Merritt, P. L., 1950

uranium/ Colorado Plateau/ Morrison Formation/
Entrada Sandstone/ sandstone/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ Front Range/ Boulder County/ Gilpin

MESA COUNTY

MESA COUNTY

- County/ Clear Creek County/ Caribou district/
igneous-metamorphic/
- Metal Mining Fund Board, 1961
vanadium/ mineralogy/ geochemistry/ Colorado
Plateau/ sandstone/ uranium/ Rifle Creek district/
roscoelite/ San Miguel County/ Montrose County/
Mesa County/ Garfield County/ Placerville district/
- Metzger, O. H., 1945
exploration/ ore deposits/ geology/ mineralization/
mining/ production/ stratigraphy/ topography/
mapping/ uranium/ vanadium/ Calamity district/
Uncompahgre uplift/ sandstone/ Mesa County/
Calamity Mesa/ Flattop Mesa/ mines/ Colorado
Plateau/
- Metzger, O. H., 1946
minerals/ Colorado/ Utah/ ore deposits/ mineralization/
geography/ stratigraphy/ mining/ data/ Beaver
Creek Mesa district/ Green River Desert area/
Plateau/ sandstone/ uranium/ vanadium/ Mesa
County/ Montrose County/
- Miesch, A. T., 1958
Colorado Plateau/ ore deposits/ exploration/
chemical composition/ size determination/ Jurassic/
sandstone/ ore guides/ uranium/ statistics/
San Miguel County/ Montrose County/ Mesa County/
Dolores County/ Morrison Formation/
- Miesch, A. T., 1958
Colorado Plateau/ ore deposits/ exploration/
size determination/ sandstone/ Jurassic/ Morrison
Formation/ ore guides/ uranium/ statistics/
San Miguel County/ Montrose County/ Mesa County/
chemical composition/ Dolores County/
- Miesch, A. T., 1963
Colorado Plateau/ ore deposits/ elements/ geology/
Morrison Formation/ Chinle Formation/ Moffat
County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
San Miguel County/ Montezuma County/ La Plata
County/ Archuleta County/ sandstone/ Dolores
County/
- Miesch, A. T., Shoemaker, E. M., and Newman, W.
L., 1958
elements/ Colorado Plateau/ sandstone/ Chinle
Formation/ analyses/ uranium/ vanadium/ Morrison
Formation/ Uravan district/ statistics/ San
Miguel County/ Dolores County/ Montrose County/
Mesa County/
- Miesch, A. T., Shoemaker, E. M., Newman, W. L.,
and others, 1959
chemical composition/ ore guides/ ore deposits/
Morrison Formation/ Salt Wash Member/ Colorado
Plateau/ sandstone/ analyses/ statistics/ Mesa
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ geology/
- Miesch, A. T., Shoemaker, E. M., Newman, W. L.,
and others, 1960
Colorado Plateau/ ore deposits/ sandstone/ ore
guides/ deposit size/ Jurassic/ Mesa County/
Delta County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ uranium/ chemical
composition/ Morrison Formation/
- Minerals Map Company, 1956
Colorado Plateau/ ore deposits/ maps/ sandstone/
Montrose County/ Dolores County/ Mesa County/
Delta County/ Garfield County/ Moffat County/
San Miguel County/
- Moore, R. B., 1913
ore deposits/ carnotite/ Colorado/ Utah/ mining/
uranium/ radium/ vanadium/ North Carolina/ marketing/
San Miguel County/ Montrose County/ Mesa County/
Giplyn County/ pitchblende/ Huerfano County/
Colorado Plateau/ Front Range/ sandstone/
- Morgan, J. M., Jr., 1959
environment/ stream study/ uranium/ Colorado
River/ Gunnison River/ Colorado Plateau/ liquid
wastes/ surface water/ stream sediments/ Mesa
County/ Garfield County/
- Morgan, J. M., Jr., 1959
environment/ stream study/ uranium/ Colorado
River/ Gunnison River/ Colorado Plateau/ liquid
wastes/ surface water/ stream sediments/ Mesa
County/ Garfield County/
- Motica, J. E., 1968
Uravan district/ genesis/ solutions/ Morrison
Formation/ precipitation/ sandstone/ lenses/
Jurassic/ Salt Wash Member/ Mesa County/ Montrose
County/ San Miguel County/ geology/ uranium/
vanadium/ ore deposits/ Colorado Plateau/
- Mullens, T. E., and Freeman, V. L., 1952
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/
Colorado Plateau/ Colorado/ uranium/ vanadium/
Mesa County/ Montrose County/ Dolores County/
Montezuma County/ La Plata County/ Utah/ Arizona/
New Mexico/ San Miguel County/ Morrison Formation/
- Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/
Colorado Plateau/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ La Plata County/ Moffat County/ Garfield
County/ Delta County/ San Juan County/ Eagle
County/ Pitkin County/ Gunnison County/ Ouray
County/ Hinsdale County/ Archuleta County/ genesis/
ore deposits/ Morrison Formation/ Rio Blanco
County/
- Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San
Juan County/ Morrison Formation/ stratigraphy/
Colorado Plateau/ Moffat County/ Rio Blanco
County/ Garfield County/ Eagle County/ Mesa
County/ Delta County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ La
Plata County/ genesis/ ore deposits/ Pitkin
County/ Gunnison County/ Ouray County/ Hinsdale
County/ Archuleta County/
- Murray, D. K., and Haun, J. D., 1974
age estimation/ geology/ geomorphology/ mineral
resources/ natural gas/ petroleum/ Piceance
Creek basin/ sediments/ stratigraphy/ uranium/
Utah/ Rio Blanco County/ Garfield County/ Mesa
County/ Moffat County/ Colorado Plateau/ sandstone/

- Narten, P. F., Crawford, J. E., and Butler, A. P., Jr., 1951
Clear Creek County/ Garfield County/ Jefferson County/ Montrose County/ Rio Blanco County/ Dakota Sandstone/ Mesa County/ Fountain Formation/ Green River Formation/ Laramie Formation/ Hermosa Formation/ Paradox Member/ shales/ sandstone/ Front Range/ Colorado Plateau/
- Nelson, Haley, Patterson and Quirk, Inc., 1971
buildings/ economics/ uranium ores/ environmental studies/ health and safety/ Mesa County/ Colorado Plateau/ mill tailings/
- Newman, W. L., 1959
Colorado Plateau/ ore deposits/ sandstone/ resources/ indicators/ ore guides/ chemical composition/ exploration/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/
- Newman, W. L., 1962
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ sandstone/ mudstone/ limestone/ Uravan district/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/
- Noble, E. A., 1959
Colorado Plateau/ uranium belts/ genesis/ ore deposits/ Uravan district/ Lisbon Valley district/ San Juan basin/ Colorado/ New Mexico/ Utah/ Mesa County/ San Miguel County/ Montrose County/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ Montezuma County/
- Noble, E. A., 1960
Colorado Plateau/ ore deposits/ uranium belts/ genesis/ Uravan district/ Lisbon Valley district/ San Juan basin/ Colorado/ New Mexico/ Utah/ Mesa County/ San Miguel County/ Montrose County/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ Chinle Formation/ Montezuma County/
- Notestein, F. B., 1918
ore deposits/ geochemistry/ genesis/ experimental studies/ uranium/ vanadium/ Colorado Plateau/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/
- Palst, D. A., 1970
vanadium/ alloys/ compounds/ San Miguel County/ metallurgy/ history/ ore deposits/ geology/ sandstone/ Colorado Plateau/ Montrose County/ Mesa County/ Garfield County/ Uravan district/ Placerville district/ Rifle district/ carnotite/ roscoelite/
- Phillips, A. H., 1904
radium/ carnotite/ Montrose County/ San Miguel County/ Mesa County/ Colorado/ Utah/ uranium/ vanadium/ chemistry/ concentration/ sandstone/ Colorado Plateau/
- Phoenix, D. A., 1949
Colorado Plateau/ ground water/ ore deposits/ genesis/ Calamity Mesa/ Outlaw Mesa/ Mesa County/
- paleo-ground water/ sandstone/
- Phoenix, D. A., 1950
Colorado Plateau/ ground water/ Calamity Mesa/ Mesa County/ sandstone/
- Phoenix, D. A., 1951
Mesa County/ Calamity Mesa area/ gamma-ray logging/ ground water/ minerals/ pitchblende/ sandstone/ Morrison Formation/ Salt Wash Member/ correlation/ permeability logs/ uranium/ Colorado Plateau/ ore deposits/
- Phoenix, D. A., 1951
ground water/ Colorado Plateau/ analyses/ Colorado/ Utah/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Colorado Plateau/ Morrison Formation/
- Phoenix, D. A., 1952
Atkinson Mesa/ Calamity Mesa/ Slick Rock district/ Montrose County/ San Miguel County/ ground water/ carnotite/ sandstone/ Morrison Formation/ stratigraphy/ Brushy Basin Member/ Recapture Member/ Westwater Canyon Member/ Colorado Plateau/ Mesa County/ Salt Wash Member/
- Phoenix, D. A., 1955
Mesa County/ Montrose County/ San Miguel County/ ground water/ analyses/ Utah/ uranium/ vanadium/ ore deposits/ Colorado Plateau/ Morrison Formation/ sandstone/
- Phoenix, D. A., 1956
carnotite/ permeability/ Morrison Formation/ Mesa County/ uranium/ vanadium/ sandstone/ ore deposits/ Colorado Plateau/ ground water/
- Phoenix, D. A., 1956
carnotite/ permeability/ Morrison Formation/ Mesa County/ uranium/ vanadium/ sandstone/ ore deposits/ Colorado Plateau/ ground water/
- Phoenix, D. A., 1958
Colorado/ Utah/ ore deposits/ sandstone/ conglomerate/ Jurassic/ Morrison Formation/ Colorado Plateau/ uranium/ Brushy Basin Member/ stratigraphy/ Mesa County/ Montrose County/ San Miguel County/
- Phoenix, D. A., 1959
Colorado Plateau/ Colorado/ Morrison Formation/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ ground water/ analyses/ chemistry/ Utah/
- Phoenix, David A., 1955
Mesa County/ Montrose County/ San Miguel County/ theories of origin of sandstone-type uranium deposits/ uranium deposits/ host rock: sandstone/ Morrison Formation/ stratigraphy of Morrison Formation/ ground water studies/
- Pommer, A. M., 1956
oxidation potential/ Colorado Plateau/ uranium/ vanadium/ sandstone/ Salt Wash Member/ Morrison Formation/ Utah/ Arizona/ Colorado/ New Mexico/ Montrose County/ Mesa County/ Dolores County/ Montezuma County/ Jo Dandy area/ ore deposits/ genesis/ Woody material/ San Miguel County/

- Poole, F. G., and Williams, G. A., 1956
ore guides/ exploration/ uranium/ vanadium/
sandstone/ conglomerate/ transportation direction/
Morrison Formation/ Chinle Formation/ Entrada
Sandstone/ sediments/ Mesa County/ Delta County/
Montrose County/ Dolores County/ Montezuma County/
La Plata County/ Triassic/ Colorado Plateau/
San Miguel County/
- Poole, F. G., and Williams, G. A., 1956
Colorado Plateau/ ore guides/ transportation
direction/ Morrison Formation/ ChMesa County/
sediments/uel County/ Entrada Sandstone/ Montrose
County/ Montezuma Dolores County/ Montezuma
County/ La Plata County/ Triassic/ exploration/
uranium/ vanadium/ sandstone/ conglomerate/
County/ Triassic/
- Ransome, F. L., and Hillebrand, W. F., 1905
ore deposits/ carnotite/ accessory minerals/
sandstone/ Placerville district/ San Miguel
County/ Roc Creek area/ Montrose County/ Mesa
County/ uranium/ vanadium/ genesis/ analyses/
Colorado Plateau/ veins/
- Reinhardt, E. V., 1952
Colorado Plateau/ ore deposits/ ore guides/
uranium/ vanadium/ copper/ hydrocarbons/ limestone/
sandstone/ Morrison Formation/ Salt Wash Member/
Entrada Sandstone/ Shinarump Member/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/
- Reinhardt, E. V., 1963
Colorado Plateau/ Uravan district/ structure/
ore deposits/ genesis/ sandstone/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/
- Riley, L. B., 1953
Mesa County/ Colorado Plateau/ sandstone/ clay/
mineralogy/
- Riley, L. B., and Shoemaker, E. M., 1952
Colorado Plateau/ ore deposits/ elements/ Mesa
County/ Montrose County/ San Miguel County/
spectrographic analyses/ sandstone/
- Ruckmick, J. C., 1953
heavy minerals/ simulation/ ore deposits/ placers/
gravels/ sandstone/ Mesa County/ Montrose County/
Dolores County/ Montezuma County/ samarskite/
Shinarump Member/ conglomerate/ Colorado Plateau/
fluvial deposits/ San Miguel County/
- Sample, R. D., and Albee, H. F., 1951
Mesa County/ claim map/ Calamity Mesa quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1951
Mesa County/ claim map/ Pine Mountain quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1953
Mesa County/ claim map/ Juanita Arch quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1953
Mesa County/ claim map/ Gateway quadrangle/
sandstone/ Colorado Plateau/
- Saum, N. M., and Link, J. M., 1969
uranium/ ore deposits/ exploration/ history/
Front Range/ Schwartzwalder mine/ Jefferson
County/ igneous-metamorphic/ geochemistry/ genesis/
hydrothermal deposits/ sandstone/ Morrison Formation/
Uravan district/ Montrose County/ San Miguel
County/ Mesa County/ New Mexico/ Utah/ Wyoming/
diatremes/ lignites/ phosphates/ remote sensing/
Colorado Plateau/
- Schultz, L. G., 1963
clay minerals/ Moenkopi Formation/ Chinle Formation/
x-ray diffraction/ Ouray County/ Rio Blanco
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ Colorado Plateau/
sandstone/ La Plata County/
- Scott, R. C., and Barker, F. B., 1962
data/ uranium/ radium/ ground water/ analyses/
Logan County/ Phillips County/ Prowers County/
Yuma County/ Jefferson County/ Garfield County/
Kit Carson County/ Pitkin County/ Mesa County/
Huerfano County/ Baca County/ Montezuma County/
Front Range/ Colorado Plateau/
- Shawe, D. R., 1962
Colorado Plateau/ ore localization/ Uravan district/
sedimentation/uranium/ vanadium/ Morrison Formation/
sandstone/ carbonaceous materials/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ ore deposits/
- Shawe, D. R., and Granger, H. C., 1965
uranium ore/ rolls/ Rifle district/ Uravan district/
Colorado Plateau/ sandstone/ Entrada Sandstone/
Garfield County/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Morrison
Formation/
- Shearer, S. D., Jr., and Sill, C. W., 1969
atmospheric radiation/ contamination/ enrichment/
environment/ meteorology/ mining/ populations/
radiation doses/ residues/ safety/ sampling/
uranium/ zones/ radon-222/ seasons/ Colorado
Plateau/ diurnal variation/ hazards/ radiation
hazards/ Utah/ mill tailings/ sandstone/ Mesa
County/ La Plata County/
- Shoemaker, E. M., 1951
structure/ Sinbad Valley anticline/ Fisher Valley
anticline/ salt anticlines/ Mesa County/ Montrose
County/ sandstone/ Utah/ Colorado Plateau/
- Shoemaker, E. M., 1952
Mesa County/ Montrose County/ Sinbad Valley
anticline/ Fisher Valley anticline/ salt anticlines/
sandstone/ Utah/ Colorado Plateau/
- Shoemaker, E. M., 1954
Utah/ Colorado/ New Mexico/ Arizona/ Colorado
Plateau/ structural features/ Uncompahgre uplift/
tectonics/ San Miguel County/ Montrose County/
Dolores County/ Montezuma County/ Delta County/
diatremes/ La Plata County/ sandstone/ igneous-metamorphic/
geology/ guidebook/ Mesa County/

- Shoemaker, E. M., 1954
Uravan district/ Mesa County/ Juanita Arch quadrangle/ geology/ ore guides/ minerals/ carnotite/ mines/ Maverick mines/ sandstone/ Morrison Formation/ Salt Wash Member/ stratigraphy/ Brushy Basin Member/ conglomerate/ copper/ silver/ ore deposits/ mineralogy/ Colorado Plateau/
- Shoemaker, E. M., 1955
Mesa County/ Juanita Arch quadrangle/ stratigraphy/ Colorado Plateau/ carnotite/ structure/ Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ sandstone/ conglomerate/ Maverick mines/ Depression mines/ Uravan district/ geology/ map/
- Shoemaker, E. M., 1955
Mesa County/ Juanita Arch quadrangle/ stratigraphy/ structure/ Colorado Plateau/ carnotite/ Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ sandstone/ conglomerate/ Maverick mines/ Depression mines/ Uravan district/ geology/ map/
- Shoemaker, E. M., 1956
structural features/ Colorado Plateau/ ore deposits/ veins/ Moffat County/ Rio Blanco County/ La Plata County/ uranium/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ San Juan County/ Ouray County/ sandstone/ Montezuma County/ Dolores County/ Archuleta County/ County/ San Juan County/
- Shoemaker, E. M., and Luedke, R. G., 1952
Colorado Plateau/ map/ uranium/ ore deposits/ sandstone/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Ouray County/ Montezuma County/ La Plata County/ Garfield County/
- Shoemaker, E. M., and Newman, W. L., 1957
Moenkopi Formation/ salt anticlines/ sandstone/ Montrose County/ San Miguel County/ Dolores County/ geology/ Colorado Plateau/ Utah/ Mesa County/
- Smith, C. T., 1946
geology/ geologic ore deposits/ Montrose County/ vanadium/ stratigraphy/ exploration/ uranium/ mineralization/ Uravan district/ stratigraphy/ San Miguel Plateau/ San Miguel County/ sandstone/ Mesa County/ Colorado Plateau/
- Smith, C. T., 1955
Colorado Plateau/ ore deposits/ uranium/ San Miguel County/ Montrose County/ Mesa County/ sandstone/ geology/
- Spitz, H. B., Cohen, N., and Wrenn, M. E., 1975
air samplers/ human health/ building materials/ daughter products/ environment/ lead/ radiation monitoring/ radon/ uranium ores/ Mesa County/ Grand Junction/ Colorado Plateau/
- Stager, H. K., 1949
Mesa County/ carnotite/ uranium/ production/ ore deposits/ Calamity Mesa/ reserves/ resources/ sandstone/ government leases/ Colorado Plateau/
- Stager, H. K., 1950
uranium/ vanadium/ Mesa County/ exploration/ drilling/ Calamity claims/ Colorado Plateau/ Outlaw Mesa/ sandstone/ ore deposits/ geology/ carnotite/ Morrison Formation/ Salt Wash Member/ Uravan district/ reserves/
- Stager, H. K., 1950
Colorado Plateau/ carnotite/ Calamity Mesa/ ore deposits/ Mesa County/ exploration/ drilling/ ore guides/ Maverick group area/ Sunflower claim/ production/ uranium/ vanadium/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/
- Stager, H. K., 1951
ore guides/ vanadium/ Mesa County/ exploration/ drilling/ Calamity group/ geology/ minerals/ carnotite/ ore deposits/ Colorado Plateau/ uranium/ production/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/
- Stager, H. K., 1952
Colorado Plateau/ drilling/ sandstone/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ reserves/ La Sal Creek district/ Paradox Valley district/
- Stager, H. K., 1970
maps/ exploration/ drilling/ sandstone/ Calamity Mesa/ Mesa County/ Colorado Plateau/
- Stephens, H. G., 1950
Long Park area/ minerals/ carnotite/ geology/ ore deposits/ Uravan district/ Mesa County/ Montrose County/ exploration/ drilling/ reserves/ resources/ sandstone/ Salt Wash Member/ Colorado Plateau/ uranium/ vanadium/ Morrison Formation/
- Stern, T. W., and Stieff, L. R., 1953
Colorado Plateau/ Larimer County/ Mesa County/ minerals/ coffinite/ Copper King mine/ La Sal No. 2 mine/ sandstone/ Front Range/ Igneous-metamorphic/
- Stern, T. W., and Stieff, L. R., 1956
age determination/ Colorado Plateau/ Mesa County/ uranium/ Montrose County/ San Miguel County/ Bob Tall mine/ Jo Dandy mines/ Radium No. 6 mine/ Calamity mines/ radiocolloids/ radium/ genesis/ Club mines/ sandstone/ ore deposits/
- Stern, T. W., Stieff, L. R., Girdard, M. N., and Meyrowitz, Robert, 1954
age determinations/ Colorado Plateau/ Calamity Mesa/ Paradox district/ sandstone/ Mesa County/ Montrose County/ Jo Dandy mines/ May Day mine/ Parco mine/ Small Spot mine/ Yellow Cat mines/ mineralogy/ metatyuyamunite/
- Stern, T. W., Stieff, L. R., Girdard, M. N., and Meyrowitz, Robert, 1956
Colorado Plateau/ Mesa County/ metatyuyamunite/ uranium/ vanadium/ x-ray analyses/ geochemistry/ sandstone/ mineralogy/
- Stern, T. W., Stieff, L. R., Evans, H. T., Jr., and Sherwood, A. M., 1957
doloresite/ vanadium oxides/ Colorado Plateau/ Montrose County/ Mesa County/ sandstone/ La Sal mine/ Morrison Formation/ Corvusite mine/ Matchless mine/ Black Mama mine/ Arrowhead mine/

- Lumsden mine/ Golden Cycle mine/ J.J. mine/ Peanut mine/ x-ray analyses/ geochemistry/ mineralogy/
- Stern, T. W., Stieff, L. R., Evans, H. T., Jr., and Sherwood, A. M., 1957
doloresite/ vanadium oxides/ Colorado Plateau/ Montrose County/ Mesa County/ sandstone/ La Sal mine/ Morrison Formation/ Corvusite mine/ Matchless mine/ Arrowhead mine/ Lumsden mine/ Golden Cycle mine/ J.J. mine/ Peanut mine/ X-ray analyses/ geochemistry/ mineralogy/ Black Mama mine/
- Stewart, J. H., 1953
exploration/ Colorado Plateau/ Moon Mesa area/ Mesa County/ Montrose County/ ore deposits/ sandstone/ Morrison Formation/ geology/ reserves/ carnotite/ Salt Wash Member/ drilling/ uranium/ vanadium/ Horse Mesa area/
- Stewart, J. H., 1953
Colorado Plateau/ geology/ ore deposits/ ore guides/ drilling/ Mesa County/ Montrose County/ Moon Mesa area/ Horse Mesa area/ production/ uranium/ vanadium/ resources/ reserves/ minerals/ carnotite/ Black Jumbo claims/ sandstone/ Morrison Formation/ Salt Wash Member/
- Stewart, J. H., Mullens, T. E., and Williams, G. A., 1954
Dolores County/ Mesa County/ Montrose County/ Isopach maps/ Colorado Plateau/ sandstone/ Morrison Formation/ stratigraphy/ Cutler Formation/ Hoskinsinli tongue/ Moenkopi formation/ Utah/ Arizona/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1953
age dating/ uranium/ ore deposits/ Colorado Plateau/ sandstone/ lead-uranium ratios/ Mesa County/ Montrose County/ San Miguel County/ San Juan County/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1953
Colorado Plateau/ age determination/ sandstone/ uranium/ San Juan County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1955
Uravan district/ Jefferson County/ Larimer County/ Mesa County/ Montrose County/ San Miguel County/ coffinite/ Copper King mine/ La Sal No. 2 mine/ Matchless mine/ Old Leyden coal mine/ Peanut mine/ Robinson property/ pyroblitumins/ Weatherly property/ Wild Steer mine/ veins/ sandstone/ Cutler Formation/ Dolores Formation/ mineralogy/ Laramie Formation/ Morrison Formation/ Salt Wash Member/ igneous-metamorphic/ Colorado Plateau/ Front Range/
- Stieff, L. R., Stern, T. W., and Sherwood, A. M., 1955
coffinite/ Mesa County/ La Sal No. 2 mine/ mineralogy/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1956
Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Copper King mine/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ x-ray analyses/ San Miguel County/ sandstone/ Copper King mine/ geochemistry/ igneous-metamorphic/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ x-ray analyses/ San Miguel County/ sandstone/ Copper King mine/ geochemistry/ igneous-metamorphic/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/ Copper King mine/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ x-ray analyses/ Montrose County/ San Miguel County/ geochemistry/ Colorado Plateau/ sandstone/ igneous-metamorphic/
- Stokes, W. L., 1944
Morrison Formation/ Colorado Plateau/ sandstone/ stratigraphy/ correlation/ Garfield County/ Mesa County/ Delta County/ Gunnison County/ Montrose County/ Ouray County/ Dolores County/ Hinsdale County/ Archuleta County/ Montezuma County/ La Plata County/ ore deposits/ San Juan County/
- Stokes, W. L., 1952
Colorado Plateau/ fossils/ stratigraphy/ Mesa County/ correlation/ San Miguel County/ sandstone/
- Stokes, W. L., 1958
Colorado Plateau/ sandstone/ continental sediments/ Montrose County/ sandstone/ lead-uranium ratios/ Mesa County/ San Miguel County/ San Juan County/
- Stokes, W. L., and Fischer, R. P., 1945
vanadium/ sandstone/ Mesa County/ Gateway district/ Colorado Plateau/ ore deposits/
- Stokes, W. L., Russell, R. T., Fischer, R. P., and Butler, A. P., Jr., 1945
Mesa County/ Colorado/ Utah/ Gateway district/ uranium/ ore deposits/ vanadium/ Calamity Group claims/ sandstone/ Tenderfoot Mesa/ carnotite/ production/ Salt Wash Member/ Morrison Formation/ Colorado Plateau/ geology/ map/
- Strobell, J. D., Jr., 1953
Colorado Plateau/ ore distribution/ sandstone/ Gateway district/ ore deposits/ Mesa County/
- Strobell, J. D., Jr., Sample, R. D., Stephens, H. G., and Gilbert, C. C., 1954
Mesa County/ Montrose County/ sandstone/ Colorado Plateau/ statistical measures/ average deposit size/ uranium/ ore deposits/ Morrison Formation/ Salt Wash Member/ Gateway district/ Uravan district/
- Tavelli, J. A., 1951
Colorado Plateau/ sandstone/ airborne radiometrics/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ New Mexico/ Arizona/ Utah/ exploration/ instrumentation/ Mesa County/

- Thompson, M. E., Roach, C. H., and Meyrowitz, R., 1957
 sherwoodite/ vanadium/ sandstone/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Matchless mine/ Peanut mine/ Fall Creek mine/ Morrison Formation/ Entrada Sandstone/ geochemistry/ x-ray analyses/ mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R., 1958
 sherwoodite/ vanadium/ sandstone/ Colorado Plateau/ San Miguel County/ Mesa County/ Montrose County/ Matchless mine/ Peanut mine/ Fall Creek mine/ Morrison Formation/ Entrada Sandstone/ geochemistry/ x-ray analyses/ mineralogy/
- Trace, R. D., 1950
 Morrison Formation/ Outlaw Mesa area/ Mesa County/ reserves/ resources/ Colorado Plateau/ sandstone/ ore deposits/ uranium/ vanadium/
- U.S. Atomic Energy Commission, 1966
 uranium concentrates/ sampling/ samplers/ Grand Junction/ Mesa County/ sandstone/ Colorado Plateau/
- U.S. Atomic Energy Commission, 1966
 geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Mesa County/ reconnaissance/ ore deposits/ sandstone/ Colorado Plateau/
- U.S. Atomic Energy Commission, 1972
 Uravan district/ Colorado Plateau/ road logs/ maps/ stratigraphy/ historical notes/ sandstone/ Mesa County/ San Miguel County/ Montrose County/
- U.S. Department of Energy, 1977
 engineering assessment/ inactive uranium mill tailings/ Grand Junction site/ Mesa County/ Colorado Plateau/ sandstone/
- U.S. Geological Survey, 1953
 geology/ San Miguel County/ Uravan district/ sandstone/ Colorado Plateau/ Powderhorn district/ igneous-metamorphic/ exploration/ Slick Rock district/ Gypsum Valley district/ Morrison Formation/ Gateway district/ Mesa County/ Montrose County/ Dolores County/ Spud Patch area/ Legln group/ Monogram Mesa/ Club Mesa/ carnotite/ ore deposits/ Gunnison County/
- U.S. Geological Survey, 1953
 sandstone/ Colorado Plateau/ Front Range/ veins/ igneous-metamorphic/ thorium/ Powderhorn district/ natural waters/ Morrison Formation/ Mesa County/ San Miguel County/ Dolores County/ Gilpin County/ San Juan County/ La Plata County/ Ouray County/ geology/ Gunnison County/ Montrose County/ San Juan Mountains/ Clear Creek County/ ore deposits/
- U.S. Geological Survey, 1953
 geologic mapping/ Colorado Plateau/ Front Range/ carbonaceous rocks/ geochemistry/ reconnaissance/ black shales/ sandstone/ igneous-metamorphic/ geology/ ore deposits/ Gilpin County/ Clear Creek County/ Jefferson County/ Montrose County/ Mesa County/ San Miguel County/ Gunnison County/
- U.S. Geological Survey, 1954
 Clear Creek County/ Gilpin County/ ore deposits/ reserves/ Colorado Plateau/ exploration/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Moffat County/ Dolores County/ Rio Blanco County/ Front Range/ igneous-metamorphic/ Jefferson County/ pitchblende/ hydrogeochemical exploration/ stream sediments/ ground water/ mine waters/
- U.S. Geological Survey, 1954
 Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ Morrison Formation/ geology/ Chinle Formation/ Shinarump Member/ reserves/ San Juan Mountains/ snow/ surface water/ ground water/ Ouray County/ San Juan County/ conglomerate/ igneous-metamorphic/ Front Range/
- U.S. Geological Survey, 1954
 Colorado Plateau/ Montrose County/ Mesa County/ Dolores County/ Montezuma County/ drilling/ logging/ data/ analyses/ sandstone/ maps/ Morrison Formation/ San Miguel County/
- U.S. Geological Survey, 1955
 Beaver Mesa/ Disappointment Valley/ Front Range/ Jo Dandy area/ La Sal Creek area/ Monogram Mesa/ exploration/ drilling/ Ralston Buttes district/ Uravan district/ Montrose County/ San Miguel County/ Mesa County/ Jefferson County/ Colorado Plateau/ sandstone/ igneous-metamorphic/
- U.S. Geological Survey, 1955
 Front Range/ Golden Gate Canyon area/ Uravan district/ exploration/ drilling/ Colorado Plateau/ Jefferson County/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ sandstone/ igneous-metamorphic/ Ralston Buttes district/
- U.S. Geological Survey, 1955
 Colorado Plateau/ Front Range/ sandstone/ geologic mapping/ veins/ carbonaceous rocks/ geochemistry/ reconnaissance/ analyses/ igneous-metamorphic/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ Montezuma County/ Fremont County/ Jefferson County/
- U.S. Geological Survey, 1956
 Colorado Plateau/ Front Range/ veins/ geologic mapping/ mineralogy/ petrology/ geophysics/ carbonaceous rocks/ analyses/ sandstone/ San Miguel County/ Dolores County/ Montrose County/ Montezuma County/ Jefferson County/ Mesa County/ igneous-metamorphic/
- U.S. Geological Survey, 1956
 Colorado Plateau/ mapping/ geology/ geophysics/ mineralogy/ vanadium/ carbonaceous rocks/ petrology/ San Miguel County/ sandstone/ igneous-metamorphic/ Dolores County/ Montrose County/ Montezuma County/ Jefferson County/ Front Range/ Mesa County/ Fremont County/
- U.S. Geological Survey, 1956
 Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ sandstone/ San Miguel County/ igneous-metamorphic/ Dolores County/ Montrose County/ Mesa County/ Montezuma County/ Jefferson County/ Fremont County/

- U.S. Geological Survey, 1957
drilling/ Colorado Plateau/ sandstone/ reserves/
sections/ geology/ exploration/ ore deposits/
Mesa County/ Dolores County/ San Miguel County/
Montrose County/
- U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geophysics/
geochemistry/ geophysics/ thorium/ ore deposits/
sandstone/ igneous-metamorphic/ San Miguel County/
Montrose County/ Mesa County/ Gilpin County/
Clear Creek County/
- U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geophysics/
mineralogy/ research/ San Miguel County/ Montrose
County/ sandstone/ igneous-metamorphic/ Mesa
County/ Clear Creek County/ Gilpin County/ ore
deposits/
- U.S. Geological Survey, 1958
Colorado Plateau/ geophysics/ geochemistry/
Gilpin County/ research/ Front Range/ thorium/
reconnaissance/ Mesa County/ sandstone/ Clear
Creek County/ Montrose County/ San Miguel County/
Igneous-metamorphic/
- U.S. Geological Survey, 1958
Colorado Plateau/ mapping/ geophysics/ Clear
Creek County/ geochemistry/ Maybell-Lay area/
Front Range/ Gilpin County/ research/ thorium/
Moffat County/ sandstone/ Mesa County/ San Miguel
County/ Montrose County/ Igneous-metamorphic/
- U.S. Geological Survey, 1959
Colorado Plateau/ geologic mapping/ geophysics/
sandstone/ ore deposits/ San Miguel County/
Montrose County/ Mesa County/ Moffat County/
- U.S. Geological Survey, 1959
Colorado Plateau/ Lisbon Valley district/ mapping/
research/ thorium/ sandstone/ geophysics/ ore
deposits/ Mesa County/ Montrose County/ San
Miguel County/ Dolores County/
- U.S. Geological Survey, 1970
maps/ drilling/ exploration/ sandstone/ Outlaw
Mesa area/ Gateway district/ Mesa County/ Colorado
Plateau/
- U.S. Geological Survey, 1971
map/ aeromagnetism/ Colorado Plateau/ sandstone/
Utah/ Colorado/ Arizona/ San Miguel County/
Montrose County/ Mesa County/
- Utah Geological Society, 1954
Colorado/ Utah/ ore deposits/ geology/ uranium/
sandstone/ New Mexico/ Arizona/ minerals/ Colorado
Plateau/ Thompson district/ Lisbon Valley district/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ Big Indian district/
- Vine, J. D., and Fliege, R. F., Jr., 1953
ore deposits/ exploration/ carbonaceous rocks/
Colorado/ Utah/ Idaho/ Wyoming/ coal/ Moffat
County/ Garfield County/ Eagle County/ Mesa
County/ Colorado Plateau/ sandstone/ coal/ shale/
Jackson County/ Montrose County/
- Weeks, A. D., 1951
ore deposits/ Jurassic/ Morrison Formation/
clay studies/ Calamity Mesa/ Mesa County/ Montrose
County/ mineralogy/ petrology/ geochemistry/
clay (red and gray)/ sandstone/ Colorado Plateau/
Bitter Creek district/
- Weeks, A. D., 1952
Colorado Plateau/ alteration/ sandstone/ oxidation/
paragenesis/ ore deposits/ pitchblende/ roscoelite/
mineralogy/ Uravan district/ Chinle Formation/
Shinarump Member/ Morrison Formation/ uraninite/
Mesa County/ Dolores County/ Montrose County/
San Miguel County/
- Weeks, A. D., 1953
mineralogy/ petrology/ geochemistry/ Cretaceous/
claystone/ siltstone/ Colorado Plateau/ clay
studies/ Utah/ Jurassic/ Dolores Group/ Dry
Creek anticline/ sandstone/ Mesa County/ Montrose
County/ Unaweep/ Escalante Forks/
- Weeks, A. D., 1956
Uravan district/ ore deposits/ mineralogy/ sandstone/
Plateau/ Dolores County/ San Miguel County/
Montrose County/ Mesa County/
- Weeks, A. D., and Thompson, M. E., 1954
Colorado Plateau/ ore deposits/ uranium/ vanadium/
minerals/ mineralogy/ identification/ x-ray
data/ Mesa County/ analyses/ Montrose County/
San Miguel County/ Dolores County/ sandstone/
- Weeks, A. D., and Truesdell, A. H., 1957
Uravan district/ sandstone/ Colorado Plateau/
mineralogy/ Dolores County/ San Miguel County/
Montrose County/ Mesa County/ ore deposits/
- Weeks, A. D., Cisney, E. A., and Sherwood, A. M.,
1953
montroselite/ Montrose County/ Bitter Creek mine/
Jo Dandy mine/ Matchless mine/ Mesa County/
Colorado Plateau/ vanadium/ mineral properties/
geochemistry/ x-ray analyses/ sandstone/
- Weeks, A. D., Cisney, E. A., and Sherwood, A. M.,
1953
montroselite/ Montrose County/ Jo Dandy mine/
Matchless mine/ Mesa County/ Bitter Creek mine/
Colorado Plateau/ vanadium/ mineral properties/
sandstone/ geochemistry/ x-ray analyses/
- Weeks, A. D., Coleman, R. G., and Thompson, M.
E., 1959
Colorado Plateau/ ore deposits/ mineralogy/
oxidation/ vanadium/ sandstone/ uranium/ Moffat
County/ Dolores County/ Garfield County/ Rio
Blanco County/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Montezuma County/
La Plata County/ Archuleta County/
- Weir, D. B., 1951
Colorado Plateau/ sandstone/ carnotite/ ore
guides/ exploration/ ore deposits/ Morrison
Formation/ Mesa County/ Montrose County/ San
Miguel County/ Dolores County/ geology/
- Weir, D. B., 1952
Colorado Plateau/ ore guides/ exploration/ carnotite/
ore deposits/ Morrison Formation/ sandstone/
Mesa County/ Montrose County/ San Miguel County/

MESA COUNTY

MOFFAT COUNTY

Dolores County/ geology/

Williams, P. L., 1964

Colorado/ Utah/ Moab quadrangle/ ore deposits/ uranium/ maps/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Ouray County/ geology/ structure/ sandstone/

Wood, H. B., and Lekas, M. A., 1958

uranium/ sandstone/ ore deposits/ Colorado Plateau/ Uravan district/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/

Wood, H. B., and Lekas, M. A., 1958

Uravan district/ ore deposits/ sandstone/ uranium/ Colorado Plateau/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/

Wright, J. C., Shawe, D. R., and Lohman, S. W., 1962

Jurassic/ Entrada Sandstone/ Utah/ Colorado/ sandstone/ Colorado Plateau/ Montrose County/ Mesa County/ San Miguel County/

Wright, R. J., 1955

Colorado Plateau/ ore deposits/ ore controls/ lithology/ sandstone/ genesis/ Moffat County/ Dolores County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/ Archuleta County/

MINERAL COUNTY

Anonymous, 1950

Pagosa Springs/ Mineral County/ Blanco Basin/ West Fork/ Igneous-metamorphic/

Anonymous, 1950

Archuleta County/ Oil Creek Canyon/ Mineral County/ Igneous-metamorphic/ ore deposits/

Larsen, E. S., and Cross, C. W., 1956

geology/ petrology/ San Juan region/ Colorado Plateau/ Igneous-metamorphic/ Montrose County/ Ouray County/ San Miguel County/ Dolores County/ La Plata County/ Gunnison County/ Hinsdale County/ Archuleta County/ Mineral County/ Saguache County/ Conejos County/ Alamosa County/ San Juan County/ Montezuma County/ Rio Grande County/

Maxwell, J. C., 1977

San Juan Mountains/ geology/ Archuleta County/ hydrogeochemistry/ stream sediments/ stream waters/ ground waters/ Storm King Mountain/ Vallecito Creek/ Montrose County/ Gunnison County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ San Juan County/ Ouray County/ Hinsdale County/ Mineral County/

Pierson, C. T., 1953

San Juan Mountains/ San Juan County/ La Plata County/ Ouray County/ Dolores County/ Bonanza district/ Saguache County/ Mineral County/ Hinsdale County/ La Plata district/ Upper Uncompahgre district/ Colorado Plateau/ Igneous-metamorphic/

Pierson, C. T., Weeks, W. F., and Kleinhampl, F. J., 1958

San Juan Mountains/ reconnaissance/ mining districts/

radioactivity/ Igneous-metamorphic/ San Juan County/ Ouray County/ San Miguel County/ La Plata County/ Hinsdale County/ Mineral County/ Saguache County/

Steven, T. A., Schlitt, L. J. Jr., Sheridan, M. J., and Williams, F. E., 1969

minerals/ resources/ San Juan primitive area/ Iron/ Irving Formation/ Igneous-metamorphic/ La Plata County/ San Juan County/ Hinsdale County/ Mineral County/ Elk Park area/ metasediments/

U.S. Atomic Energy Commission, 1966

geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Mineral County/ reconnaissance/ ore deposits/ San Juan Mountains/ Igneous-metamorphic/

MOFFAT COUNTY

Adler, H. H., 1963

genesis/ sandstone/ ore deposits/ Jefferson County/ Pueblo County/ Gunnison County/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/ Front Range/ Rio Blanco County/

Adler, H. H., 1964

uranium/ roll ore/ exploration/ sandstone/ ore deposits/ Jefferson County/ Pueblo County/ Gunnison County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ Moffat County/ Colorado Plateau/ Front Range/ Dolores County/

Anonymous, 1913

carnotite/ pitchblende/ radium/ Gilpin County/ Quartz Hill/ Meeker/ Skull Creek/ Utah/ Colorado/ Moffat County/ Paradox Valley/ Colorado Plateau/ uranium/ sandstone/ igneous-metamorphic/ Rio Blanco County/ Front Range/ San Miguel County/

Bain, G. W., 1956

uranium/ Phosphoria Formation/ Moffat County/ Colorado/ distribution/ analyses/ shale/ reconnaissance/ Colorado Plateau/

Bass, N. W., Eby, J. B., and Campbell, M. R., 1955

Routt County/ Moffat County/ Mount Harris/ Pilot Knob/ Elkhead Creek/ Dayton Peak/ coal/ gas/ oil/ geology/ mineral fuels/

Bergin, M. J., 1955

Colorado/ Wyoming/ Maybell-Lay area/ ore deposits/ sandstone/ Washakie Basin/ Moffat County/ Gertrude claims/ Margle claims/ conglomerate/ uranium/ Browns Park Formation/

Bergin, M. J., 1956

Maybell-Lay area/ ore deposits/ Moffat County/ veins/ sandstone/ Margle claims/ Gertrude claims/ Wasatch Formation/ uranium/ Browns Park Formation/

- Bergin, M. J., 1957
Maybell-Lay area/ ore deposits/ Moffat County/ veins/ sandstone/ stratigraphy/ structure/ uranium/ Gertrude mine/ Margie mine/ minerals/ Sugarloaf mine/ conglomerate/ Wasatch Formation/ coal/ sources/ Browns Park Formation/
- Bergin, M. J., and Chisholm, W. A., 1956
Maybell-Lay area/ ore deposits/ Moffat County/ veins/ Browns Park Formation/ sandstone/ stratigraphy/ Gertrude mine/ Margie mine/ minerals/ structure/ uranium/ Sugarloaf mine/ conglomerate/ Wasatch Formation/ coal/ sources/ petrographic studies/ springs/ water/ wells/ streams/ ground water/ hot springs/
- Beroni, E. P., and McKeown, F. A., 1952
reconnaissance/ marine black shales/ geology/ sandstone/ Entrada Sandstone/ Curtis Formation/ igneous-metamorphic/ Skull Creek district/ Bozo claims/ Fair-U claim/ Lucky Strike claims/ Grand County/ Moffat County/ Routt County/ coal/ copper/ uranium/ limestone/ phosphates/ carnotite/ uraninite/ spring deposits/ migmatite/ granite/ Colorado/ Wyoming/ Utah/
- Black, R. A., 1956
Colorado/ Utah/ Wyoming/ ore deposits/ exploration/ uranium/ geophysics/ Maybell district/ Browns Park Formation/ sandstone/ Moffat County/ geology/
- Bradley, W. H., 1945
Colorado/ Wyoming/ Moffat County/ sections/ sandstone/ Green River Formation/ Wasatch Formation/ stratigraphy/ structure/ oil/ gas/ Washakie basin/ Colorado Plateau/ Browns Park Formation/
- Cadigan, R. A., 1971
petrology/ Moenkopi Formation/ Colorado Plateau/ mineralogy/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ stratigraphy/
- Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/
- Cadigan, R. A., 1972
geochemistry/ anomalies/ alteration/ Moenkopi Formation/ Skull Creek area/ Moffat County/ shale/ sandstone/ Colorado Plateau/
- Carlthers, L. W., and Clinton, N. J., 1956
Colorado Plateau/ ore deposits/ sedimentary rocks/ sandstone/ terrestrial rocks/ marine rocks/ Moffat County/ Skull Creek district/ Montezuma County/ uranium/ Curtis Formation/ shoreline sandstone/
- Carr, W. J., 1948
Rangely area/ Skull Creek district/ Moffat County/ Morrison Formation/ sandstone/ Colorado Plateau/ uranium/ ore deposits/
- Carter, W. D., and Gualtieri, J. L., 1958
map/ tectonics/ Colorado/ Utah/ Moffat County/ Logan County/ geology/ Larimer County/ Jackson County/ Boulder County/ Jefferson County/ Clear Creek County/ Gilpin County/ Summit County/ Grand County/ Eagle County/ Routt County/ Garfield County/ Rio Blanco County/ sandstone/ ore deposits/ igneous-metamorphic/
- Chew, R. T., 3d, and Fischer, R. P., 1954
ore deposits/ Rifle district/ Rio Blanco County/ Colorado/ Moffat County/ Maybell-Lay district/ Coal Creek area/ Skull Creek district/ Browns Park Formation/ Garfield County/ Meeker district/ Utah/ Entrada Sandstone/ sandstone/ Colorado Plateau/
- Childers, M. O., 1974
uranium/ ore deposits/ Cretaceous/ Tertiary/ sandstone/ Wyoming/ Colorado/ mudstone/ Laramie Formation/ arkose/ Lance Formation/ Fox Hill Formation/ Fort Union Formation/ Wind River Formation/ Wasatch Formation/ Moffat County/ Battle Springs Formation/ Weld County/ stratigraphy/ Cheyenne Basin/ Sand Wash Basin/
- Clinton, N. J., and Carlthers, L. W., 1956
Colorado Plateau/ sandstone/ marginal marine rocks/ uranium/ Curtis Formation/ genesis/ geology/ Moffat County/ ore deposits/ Montezuma County/ terrestrial rocks/ Skull Creek district/ Shoreline Sandstone/
- Craig, L. C., and Holmes, C. N., 1951
Morrison Formation/ Colorado Plateau/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Mesa County/ stratigraphy/ Glen Canyon group/ San Rafael group/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951
Colorado Plateau/ Morrison Formation/ Mesa County/ stratigraphy/ Glen Canyon group/ Montezuma County/ Delta County/ San Rafael group/ Dolores County/ Gunnison County/ Montrose County/ sandstone/ Moffat County/ Ouray County/ San Juan County/ San Miguel County/ La Plata County/ Rio Blanco County/ Garfield County/ Archuleta County/
- Davidson, D. F., 1963
ore deposits/ oxidized/ sandstone/ composition/ selenium/ geochemistry/ Baggs area/ uranium/ Moffat County/ Colorado Plateau/
- Del Rio, S. M., compiler, 1960
minerals/ resources/ Colorado/ uranium/ Colorado Plateau/ San Miguel County/ Montrose County/ Mesa County/ Front Range/ Jefferson County/ Fremont County/ sandstone/ igneous-metamorphic/ Moffat County/
- Erickson, R. L., Gott, G. B., Myers, A. T., and others, 1953
uranium/ metals/ crude oil/ asphalt/ shale/

- bituminous substances/ Moffat County/ Jefferson County/ Rio Blanco County/ sandstone/
- Erickson, R. L., Myers, A. T., and Horr, C. A., 1952
uranium/ metals/ crude oil/ asphalt/ shale/ bituminous substances/ Moffat County/ Jefferson County/ Rio Blanco County/ sandstone/
- Erickson, R. L., Myers, A. T., and Horr, C. A., 1954
uranium/ metals/ crude oil/ asphalt/ shale/ bituminous substances/ Moffat County/ Jefferson County/ Rio Blanco County/ sandstone/
- Finch, W. I., 1967
Colorado Plateau/ Front Range/ Igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Bent County/ Dolores County Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/
- Fischer, R. P., 1955
Durango district/ Placerville district/ Rico district/ uranium/ vanadium/ chromium/ Delta County/ Garfield County/ La Plata County/ Ouray County/ Rio Blanco County/ San Juan County/ San Miguel County/ minerals/ mariposite/ sandstone/ Entrada Sandstone/ regional relations/ ore deposits/ Colorado Plateau/ Mesa County/ Moffat County/ Montezuma County/ Montrose County/ Rifle area/ Dolores County/
- Fischer, R. P., 1968
Colorado Plateau/ geology/ structure/ ore deposits/ genesis/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ Chinle Formation/ Morrison Formation/ Montezuma County/ La Plata County/ San Juan County/ Garfield County/ Rio Blanco County/ Moffat County/ Entrada Sandstone/ production/ stratigraphy/
- Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ clay mineralogy/ uranium/ vanadium/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Gabelman, J. W., and Boyer, W. H., 1974
exploration/ status/ uranium/ technology/ history/ pitchblende/ radium/ vanadium/ Colorado Plateau/ Front Range/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/ Moffat County/ Jefferson County/ sandstone/ igneous-metamorphic/ shale/
- Gaerels, R. M., and Larsen, E. S., 3d, compilers, 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ sandstone/ ground water/ clay/ mudstone/ organics/ Peanut mine/ J. J. mine/ Montrose County/ Rifle mine/ Garfield mine/
- Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Archuleta County/
- Gruner, J. W., and Knox, J. A., 1957
Colorado/ Arizona/ Montana/ New Mexico/ South Dakota/ minerals/ uranium/ ore deposits/ mines/ San Miguel County/ Colorado Plateau/ Fremont County/ Gunnison County/ Saguache County/ volcanics/ conglomerate/ Morrison Formation/ sandstone/ siltstone/ Igneous-metamorphic/ Montrose County/ Mesa County/ Moffat County/ Browns Park Formation/
- Gruner, J. W., and Smith, D. K., Jr., 1955
Colorado/ Wyoming/ ore deposits/ mineralogy/ Moffat County/ Miocene/ Browns Park Formation/ sandstone/ Maybell district/ Weber Sandstone/
- Gruner, J. W., and Smith, D. K., Jr., 1955
Wyoming/ South Dakota/ North Dakota/ Colorado/ sandstone/ Browns Park Formation/ Colorado Plateau/ Morrison Formation/ Chinle Formation/ Mesa County/ San Miguel County/ peat/ lignite/ Moffat County/ Montrose County/
- Gruner, J. W., Smith, D. K., Jr., and Knox, J. A., 1956
uranium/ ore deposits/ Colorado/ Wyoming/ South Dakota/ North Dakota/ minerals/ claims/ Moffat County/ sandstone/ Browns Park Formation/ Montana/ Utah/ Colorado Plateau/
- Grutt, E. W., Jr., 1956
Colorado/ Wyoming/ ore deposits/ clastics/ Tertiary/ uranium/ Washakie basin/ Moffat County/ sandstone/ economic geology/
- Grutt, E. W., Jr., 1956
Colorado/ Wyoming/ sediments/ Tertiary/ clastics/ uranium/ ore deposits/ Washakie basin/ Moffat County/ sandstone/ economic geology/
- Grutt, E. W., Jr., and Whalen, J. F., 1955
Colorado/ Wyoming/ ore deposits/ uranium/ Moffat County/ Browns Park Formation/ sandstone/ Maybell-Lay area/ geology/
- Hancock, E. T., 1915
Moffat County/ Yampa River/ structural geology/ tectonics/ stratigraphy/ sandstone/ geologic history/ Green River/
- Hess, F. L., 1914
genesis/ carnotite/ Colorado/ uranium/ vanadium/ Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/
- Hunt, C. B., 1956
Cenozoic/ geology/ Colorado Plateau/ physiography/ stratigraphy/ Moffat County/ sandstone/ Delta County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

MOFFAT COUNTY

MOFFAT COUNTY

- Hyden, H. J., 1956
uranium/ crude oil/ petroleum/ Moffat County/
conglomerate/ Triassic/ Jurassic/ Entrada Sandstone/
Morrison Formation/ Archuleta County/ Cretaceous/
Dakota Sandstone/ Mancos Shale/ Morgan County/
Rio Blanco County/ sandstone/ trace elements/
Shinarump Member/ Fremont County/
- Isachsen, Y. W., 1955
Skull Creek district/ Uranium Peak district/
ore deposits/ Garfield County/ sandstone/ Rio
Blanco County/ Moffat County/ guidebook/ Colorado
Plateau/
- Isachsen, Y. W., Mitcham, T. W., and Wright, R.
J., 1955
Colorado Plateau/ ore deposits/ absolute age/
host rocks/ sandstone/ formational environments/
Entrada Sandstone/ Kayenta Formation/ Garfield
County/ Moffat County/ Rio Blanco County/ San
Miguel County/ Mesa County/ Montrose County/
Delta County/ Dolores County/ Montezuma County/
La Plata County/ Archuleta County/
- Izett, G. A., Denson, N. M., and Obradovich, J.
D., 1970
Browns Park Formation/ sandstone/ Moffat County/
volcanic rocks/ igneous-metamorphic/ K-Ar age
dating/ stratigraphy/ Colorado Plateau/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/
uranium/ sediments/ sandstone/ ground water/
La Plata County/ Archuleta County/ Moffat County/
Rio Blanco County/ Garfield County/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ regional transmissivity/ Delta County/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/
regional transmissivity/ uranium/ sediments/
sandstone/ ground water/ La Plata County/ Archuleta
County/ Moffat County/ Rio Blanco County/ Montrose
County/ Garfield County/ Mesa County/ Delta
County/ San Miguel County/ Dolores County/ Montezuma
County/
- Jobin, D. A., 1962
Colorado Plateau/ ore deposits/ Morrison Formation/
transmissivity/ sandstone/ San Miguel County/
ground water/ conglomerate/ Chinle Formation/
Moffat County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/
- Johnson, R. W., Jr., 1955
Moffat County/ airborne surveys/ radioactivity/
maps/ sandstone/ Sunny Peak SW quadrangle/ Browns
Park Formation/ Miocene/ Sunny Peak SE quadrangle/
- Johnson, R. W., Jr., 1955
Moffat County/ airborne surveys/ radioactivity/
map/ sandstone/ Sunny Peak NW quadrangle/ Browns
Park Formation/ Miocene/ Sunny Peak NE quadrangle/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and
others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/
Archuleta County/ Routt County/ Eagle County/
Pitkin County/ Gunnison County/ San Juan County/
Fremont County/ Huerfano County/ Ouray County/
Colorado Plateau/ ore deposits/ Moffat County/
Garfield County/ Mesa County/ Delta County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ La Plata County/ Larimer
County/ Boulder County/ Jefferson County/ Park
County/ Rio Blanco County/ igneous-metamorphic/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and
others, 1952
Front Range/ Jamestown district/ pitchblende/
bostonite/ Colorado Plateau/ sandstone/ coal/
shale/ Moffat County/ Garfield County/ La Plata
County/ Pitkin County/ Gunnison County/ San
Juan County/ Boulder County/ Jefferson County/
Park County/ Delta County/ Fremont County/ Rio
Blanco County/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ Archuleta County/ Routt County/ Huerfano
County/ Ouray County/ Larimer County/ Eagle
County/ igneous-metamorphic/
- Kehn, T. M., 1955
bibliography/ geology/ shale/ uranium/ coal/
lignite/ Leyden Coal mine/ Jefferson County/
carnotite/ Moffat County/ glisonite/ Jackson
County/ Front Range/ ore deposits/ Great Plains/
- Kehn, T. M., 1957
ore deposits/ coal/ shale/ lignite/ Great Plains/
bibliography/ uranium/ geology/ Jefferson County/
carnotite/ Moffat County/ glisonite/ Jackson
County/ Front Range/ Leyden coal mine/
- Keller, W. D., 1962
clay minerals/ Morrison Formation/ Colorado
Plateau/ Salt Wash Member/ mineralogy/ Mesa
County/ Moffat County/ Rio Blanco County/ Garfield
County/ Delta County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ La
Plata County/ Archuleta County/ sandstone/
- Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/
tectonics/ structural elements/ Archuleta County/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Delta County/ Ouray County/ Gunnison County/
Garfield County/ Rio Blanco County/ Moffat County/
- Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/
tectonics/ structural elements/ Mesa County/
San Miguel County/ Dolores County/ Montezuma
County/ La Plata County/ Delta County/ Garfield
County/ Rio Blanco County/ Moffat County/ Archuleta
County/ Ouray County/ Gunnison County/ Montrose
County/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa
County/ structural controls/ uranium/ tectonic
history/ Colorado/ sandstone/ Montezuma County/
San Miguel County/ Dolores County/ Montrose
County/ Moffat County/ San Juan County/ Ouray
County/ Gunnison County/ La Plata County/ Garfield
County/ Rio Blanco County/ Delta County/ regional
structure/

- Kelley, V. C., 1959
structures/ fracture systems/ Colorado Plateau/ faults/ fractures/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Montezuma County/ Moffat County/ San Juan County/ Ouray County/ Delta County/ Gunnison County/ Garfield County/ La Plata County/ Rio Blanco County/
- Kelley, V. C., 1959
Jointing/ Colorado Plateau/ sandstone/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/
- Kelley, V. C., and Clinton, N. J., 1960
Colorado Plateau/ sandstone/ fractures/ tectonics/ genesis/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/
- Kerr, P. F., 1958
uranium/ ore deposits/ genesis/ alteration/ mineralogy/ Colorado Plateau/ Archuleta County/ conglomerate/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/
- Kerr, P. F., 1958
Colorado Plateau/ ore deposits/ genesis/ sandstone/ stratigraphy/ uranium/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ hydrothermal emplacement/ Dolores County/
- King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/
- limestone/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/
- King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Kiowa County/ Larimer County/ Moffat County/ Pitkin County/ Rio Blanco County/ Routt County/ ore guides/ pitchblende/ hydrocarbons/ metal-mining districts/ ore deposits/ limestone/ sandstone/ veins/ breccia pipes/ Eagle County/ hot spring deposits/ fluorite/ igneous-metamorphic/
- Kirkemo, Harold, 1954
ore deposits/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ exploration/ sandstone/ Monogram Mesa/ Uravan district/ Jo Dandy area/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Entrada Sandstone/ Moffat County/ Browns Park Formation/ Slick Rock district/ Long Park district/
- McDougald, W. D., 1955
Skull Creek district/ ore deposits/ exploration/ sandstone/ Moffat County/ drilling/ Colorado Plateau/
- McKay, E. J., and Bergin, M. J., 1974
Moffat County/ Maybell quadrangle/ Browns Park Formation/ sandstone/ Marge mine/ geology/ Colorado Plateau/ ore deposits/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/
- Miesch, A. T., 1963
Colorado Plateau/ ore deposits/ elements/ geology/ Morrison Formation/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/ Dolores County/
- Minerals Map Company, 1956
Colorado Plateau/ ore deposits/ maps/ sandstone/ Montrose County/ Dolores County/ Mesa County/ Delta County/ Garfield County/ Moffat County/ San Miguel County/
- Moxham, R. M., 1958
radioactivity/ airborne surveys/ exploration/ equipment/ phosphates/ placers/ heavy minerals/ Texas/ Florida/ Wyoming/ New Mexico/ Colorado/ Moffat County/ sandstone/ Colorado Plateau/ geology/ Maybell-Lay district/

- Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/
- Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/
- Murray, D. K., and Haun, J. D., 1974
age estimation/ geology/ geomorphology/ mineral resources/ natural gas/ petroleum/ Piceance Creek basin/ sediments/ stratigraphy/ uranium/ Utah/ Rio Blanco County/ Garfield County/ Mesa County/ Moffat County/ Colorado Plateau/ sandstone/
- Newman, W. L., 1962
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ sandstone/ mudstone/ limestone/ Uravan district/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/
- Noble, E. A., and Annes, E. C., Jr., 1957
Uinta basin/ ore deposits/ exploration/ Chinle Formation/ Curtis Formation/ Morrison Formation/ Mesaverde Group/ Green River Formation/ Uinta Formation/ Moffat County/ Rio Blanco County/ sandstone/ mudstone/ siltstone/ limestone/ shale/ Skull Creek district/ conglomerate/ Weber Sandstone/ Colorado Plateau/
- Olson, J. C., and Adams, J. W., 1962
thorium/ rare earths/ United States/ Colorado/ igneous-metamorphic/ Gunnison County/ Fremont County/ Custer County/ Larimer County/ Gilpin County/ Montezuma County/ Moffat County/ El Paso County/
- Ormond, Allen, 1957
uranium/ Wyoming/ geology/ genesis/ petroleum/ sandstone/ minerals/ Moffat County/ Browns Park Formation/ ore deposits/ Colorado Plateau/
- Osterwald, F. W., 1965
ore deposits/ genesis/ veins/ mining districts/ structural controls/ Moffat County/ pitchblende/ conglomerate/ Front Range/ igneous-metamorphic/ sandstone/ Jefferson County/ Boulder County/ Montrose County/ Clear Creek County/ Gilpin County/ Saguache County/ Fremont County/
- Osterwald, F. W., and Dean, B. G., 1956
bibliography/ structural geology/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/ ore deposits/ tectonics/
- Osterwald, F. W., and Dean, B. G., 1958
ore deposits/ tectonics/ structural geology/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/
- Prichard, G. E., 1955
Colorado/ Wyoming/ Washakie basin/ Baggs area/ ore deposits/ Miocene/ Browns Park Formation/ Moffat County/ sandstone/ conglomerate/
- Prichard, G. E., 1956
Colorado/ Wyoming/ Baggs area/ ore deposits/ Miocene/ Browns Park Formation/ sandstone/ petrology/ analyses/ Moffat County/ geochemistry/
- Sears, J. D., 1924
Moffat County/ Browns Park Formation/ Bishop Conglomerate/ sandstone/ geology/ Green River/ Yampa River/ conglomerate/ genesis/ surface water/
- Shoemaker, E. M., 1956
structural features/ Colorado Plateau/ ore deposits/ veins/ Moffat County/ Rio Blanco County/ La Plata County/ uranium/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ San Juan County/ Ouray County/ sandstone/ Montezuma County/ Dolores County/ Archuleta County/
- Shoemaker, E. M., and Luedke, R. G., 1952
Colorado Plateau/ map/ uranium/ ore deposits/ sandstone/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Ouray County/ Montezuma County/ La Plata County/ Garfield County/
- Swanson, V. E., 1960
oil yield/ uranium/ black shale/ Green River Formation/ Moffat County/ Rio Blanco County/ shale/ Colorado Plateau/
- Theobald, P. K., Jr., 1971
geology/ map/ Craig quadrangle/ sandstone/ Moffat County/ Colorado Plateau/
- Theobald, P. K., Jr., and Chew, R. T., 3d, 1955
Maybell-Lay area/ Moffat County/ limestone/ sandstone/ stratigraphy/ Browns Park Formation/ geology/ ore deposits/ Colorado/ Wyoming/ Utah/ Miller Hill/ Baggs/ Colorado Plateau/
- U.S. Atomic Energy Commission, 1966
airborne reconnaissance/ Arkansas/ Colorado/ Montana/ Texas/ Utah/ Colorado Plateau/ Montezuma County/ Moffat County/ San Miguel County/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic

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geology/ mining engineering/ petrology/ minerals/
radioactivity/ Moffat County/ reconnaissance/
ore deposits/ sandstone/ Colorado Plateau/ Browns
Park Formation/

U.S. Department of Energy, 1977
engineering assessment/ inactive uranium mill
tailings/ Maybell site/ Moffat County/ sandstone/
Colorado Plateau/

U.S. Geological Survey, 1958
Colorado Plateau/ mapping/ geophysics/ Clear
Creek County/ geochemistry/ Maybell-Lay area/
Front Range/ Gilpin County/ research/ thorium/
Moffat County/ sandstone/ Mesa County/ San Miguel
County/ Montrose County/ Igneous-metamorphic/

U.S. Geological Survey, 1959
Colorado Plateau/ geologic mapping/ geophysics/
sandstone/ ore deposits/ San Miguel County/
Montrose County/ Mesa County/ Moffat County/

Vine, J. D., and Fliege, R. F., Jr., 1953
ore deposits/ exploration/ carbonaceous rocks/
Colorado/ Utah/ Idaho/ Wyoming/ coal/ Moffat
County/ Garfield County/ Eagle County/ Mesa
County/ Colorado Plateau/ sandstone/ coal/ shale/
Jackson County/ Montrose County/

Vine, J. D., and Moore, G. W., 1952
Middle Park/ North Park/ Grand County/ Jackson
County/ Moffat County/ Rio Blanco County/ Routt
County/ coal/ carbonaceous rocks/ Wyoming/ occurrences/
Idaho/ Colorado/ Colorado Plateau/ ore deposits/
sandstone/

Vine, J. E., 1956
geology/ uranium/ Tertiary basins/ Wyoming/
North Dakota/ South Dakota/ Colorado/ Moffat
County/ Colorado Plateau/ Washakie basin/ sandstone/
Great Plains/ genesis/

Weeks, A. D., Coleman, R. G., and Thompson, M.
E., 1959
Colorado Plateau/ ore deposits/ mineralogy/
oxidation/ vanadium/ sandstone/ uranium/ Moffat
County/ Dolores County/ Garfield County/ Rio
Blanco County/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Montezuma County/
La Plata County/ Archuleta County/

Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/
ore deposits/ Jefferson County/ San Miguel County/
Saguache County/ Park County/ Boulder County/
Montrose County/ Moffat County/ sandstone/ Front
Range/ coal/ Igneous-metamorphic/

Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/
sandstone/ production/ geology/ Boulder County/
Jefferson County/ Saguache County/ Park County/
Montrose County/ San Miguel County/ Moffat County/
coal/ Igneous-metamorphic/ Front Range/

Wood, H. B., and Grundy, W. D., 1956
exploration guides/ exploration techniques/
Shinarump Formation/ channels/ Colorado Plateau/
uranium/ Moffat County/ Rio Blanco County/ Garfield

MONTEZUMA COUNTY

County/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ sandstone/

Wright, R. J., 1955
Colorado Plateau/ ore deposits/ ore controls/
lithology/ sandstone/ genesis/ Moffat County/
Dolores County/ Rio Blanco County/ Garfield
County/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ La Plata County/
Archuleta County/

MONTEZUMA COUNTY

Adler, H. H., 1963
genesis/ sandstone/ ore deposits/ Jefferson
County/ Pueblo County/ Gunnison County/ Moffat
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ Colorado Plateau/ Front Range/
Rio Blanco County/

Adler, H. H., 1964
uranium/ roll ore/ exploration/ sandstone/ ore
deposits/ Jefferson County/ Pueblo County/ Gunnison
County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
San Miguel County/ Montezuma County/ La Plata
County/ Archuleta County/ Moffat County/ Colorado
Plateau/ Front Range/ Dolores County/

Anonymous, 1950
McElmo Canyon/ sandstone/ Montezuma County/
Colorado Plateau/ ore deposits/

Archbold, N. L., 1956
uranium/ vanadium/ Colorado Plateau/ Salt Wash
Member/ Morrison Formation/ sandstone/ Mesa
County/ Montrose County/ Dolores County/ Montezuma
County/ ore deposits/ lithology/ San Miguel
County/

Bain, G. W., 1953
Colorado Plateau/ ore deposits/ sediments/ sandstone/
stratigraphy/ Dakota Group/ Morrison Formation/
structure/ topography/ geologic history/ Mesa
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ geology/ reconnaissance/
Colorado Plateau/

Bain, G. W., 1953
Colorado Plateau/ ore deposits/ observations/
sedimentation/ Shinarump Member/ carnotite/
Morrison Formation/ tectonic structure/ sandstone/
fluvial sediments/ simulation/ precipitation/
Mesa County/ Montrose County/ San Miguel County/
Montezuma County/ conglomerate/ Chinle Formation/
Dolores County/ experimental studies/ Salt Wash
Member/

Bain, G. W., Eastman, H. P., Ruckmick, J. C., and
others, 1953
Colorado Plateau/ ore deposits/ experimental
studies/ sandstone/ fluvial sediments/ field
observations/ heavy minerals/ Shinarump Member/
Morrison Formation/ Dakota Sandstone/ geology/
sedimentation/ ground water/ stratigraphy/ Mesa

MONTEZUMA COUNTY

- County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Chinle Formation/
- Baker, A. A., Dane, C. H., and Reeside, J. B., Jr., 1947
Colorado/ Arizona/ New Mexico/ Utah/ Jurassic formations/ correlation/ Morrison Formation/ sandstone/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/
- Baltz, E. H., Jr., 1953
Colorado/ New Mexico/ ore deposits/ exploration/ occurrence/ carbonaceous rocks/ Paradox Formation/ San Miguel County/ shale/ sandstone/ siltstone/ coal/ Archuleta County/ La Plata County/ Montezuma County/ tuff/ igneous-metamorphic/ Colorado Plateau/ Bald Eagle prospect/
- Baltz, E. H., Jr., 1955
Colorado/ New Mexico/ ore deposits/ exploration/ carbonaceous rocks/ sandstone/ Mesa County/ Delta County/ Montrose County/ Gunnison County/ Ouray County/ San Miguel County/ Hinsdale County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ coal/ shale/ reconnaissance/ Colorado Plateau/
- Baltz, E. H., Jr., 1957
stratigraphy/ structure/ salt/ salt anticlines/ Colorado/ Utah/ Hermosa Formation/ Colorado Plateau/ evaporites/ general/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ sandstone/ Paradox Basin/
- Bates, R. C., 1959
Colorado Plateau/ ore deposits/ resources/ exploration/ statistical analysis/ uranium/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Morrison Formation/ sandstone/
- Bethke, P. M., 1953
uranium salts/ Colorado Plateau/ simulation/ precipitation/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ ground water/ Morrison Formation/ Salt Wash Member/ uraninite/ carnotite/
- Cadigan, R. A., 1967
petrology/ Morrison Formation/ Colorado Plateau/ sandstone/ Gunnison County/ La Plata County/ Archuleta County/ San Miguel County/ Mesa County/ Delta County/ Eagle County/ Montrose County/ Montezuma County/ mineralogy/ Rio Blanco County/ Salt Wash Member/
- Cadigan, R. A., 1971
petrology/ Moenkopi Formation/ Colorado Plateau/ mineralogy/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ stratigraphy/
- Cadigan, R. A., 1971
geochemical distribution/ Colorado Plateau/ red beds/ vanadium/ sandstone/ La Plata County/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Rio Blanco County/ geochemistry/ Garfield County/ Moenkopi Formation/

MONTEZUMA COUNTY

- Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Tertiary strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/
- Cannon, H. L., 1960
Colorado Plateau/ ore deposits/ botanical prospecting/ exploration/ indicator plants/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ geobotany/
- Carithers, L. W., and Clinton, N. J., 1956
Colorado Plateau/ ore deposits/ sedimentary rocks/ sandstone/ terrestrial rocks/ marine rocks/ Moffat County/ Skull Creek district/ Montezuma County/ uranium/ Curtis Formation/ shoreline sandstone/
- Case, J. E., and Joesting, H. R., 1972
geophysical investigations/ Colorado Plateau/ stratigraphy/ gravity surveys/ aeromagnetic surveys/ exploration/ Montezuma County/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ geophysics/ geology/
- Case, J. E., Joesting, H. R., and Byerly, P. E., 1963
geophysical investigations/ La Sal Mountains/ geophysics/ Colorado Plateau/ geology/ aeromagnetic surveys/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ igneous-metamorphic/ sandstone/
- Chenoweth, W. L., 1957
Montezuma County/ San Juan basin/ New Mexico/ Colorado/ heavy minerals/ titanium/ sandstone/ radioactivity/ ore deposits/ paleo-placers/
- Chenoweth, W. L., 1977
Colorado Plateau/ sandstone/ Garfield County/ San Miguel County/ Mesa County/ Dolores County/ Montezuma County/ Montrose County/
- Chenoweth, W. L., and Stehle, F. T., 1957
New Mexico/ Colorado/ ore deposits/ uranium/ stratigraphy/ aerial prospecting/ reconnaissance/ igneous-metamorphic/ topography/ natural radioactivity/ San Juan basin/ sandstone/ Montezuma County/
- Chew, R. T., 3d, 1955
Colorado Plateau/ Rifle mine/ Uravan district/ map/ Uranium Peak/ sandstone/ production/ uranium/ vanadium/ Morrison Formation/ La Plata County/ ore deposits/ Entrada Sandstone/ Rio Blanco County/ Mesa County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Gateway district/
- Chew, R. T., 3d, 1955
sandstone/ Mesa County/ Utah/ stream sediments/ exploration/ radioactivity/ Delta County/ Montrose County/ gravels/ San Miguel County/ Dolores

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MONTEZUMA COUNTY

- County/ Ouray County/ San Juan County/ Montezuma County/ La Plata County/ Colorado Plateau/
- Chew, R. T., 3d, 1956
Mesa County/ Delta County/ Montrose County/ sandstone/ Dolores County/ Ouray County/ San Juan County/ gravels/ Montezuma County/ La Plata County/ Colorado Plateau/ exploration/ stream sediments/ radioactivity/ San Miguel County/
- Chew, R. T., 3d, 1956
Rifle mine/ Uravan district/ Uranium Peak/ vanadium/ production/ Colorado Plateau/ uranium/ sandstone/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Entrada Sandstone/ ore deposits/ Garfield County/ Morrison Formation/
- Clinton, N. J., and Carlthers, L. W., 1956
Colorado Plateau/ sandstone/ marginal marine rocks/ uranium/ Curtis Formation/ genesis/ geology/ Moffat County/ ore deposits/ Montezuma County/ terrestrial rocks/ Skull Creek district/ Shoreline Sandstone/
- Comstock, S. S., 1951
radioactivity/ exploration/ drilling/ Arizona/ Utah/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ gamma-ray logging/ Colorado Plateau/
- Cooper, Margaret, 1951
bibliography/ uranium/ thorium/ carbonaceous deposits/ Colorado/ Colorado Plateau/ Mesa County/ sandstone/ San Miguel County/ Dolores County/ Montezuma County/ ore deposits/ Montrose County/
- Cooper, Margaret, 1951
bibliography/ uranium/ thorium/ carbonaceous deposits/ Colorado/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ Dolores County/ organics/ sandstone/
- Craig, L. C., and Holmes, C. N., 1951
Morrison Formation/ Colorado Plateau/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Mesa County/ stratigraphy/ Glen Canyon group/ San Rafael group/
- Craig, L. C., and Holmes, C. N., 1951
Colorado/ Utah/ Jurassic/ stratigraphy/ Morrison Formation/ Glen Canyon group/ San Rafael group/ sandstone/ San Juan basin/ Montezuma County/ La Plata County/ Colorado Plateau/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951
Colorado Plateau/ Morrison Formation/ Mesa County/ stratigraphy/ Glen Canyon group/ Montezuma County/ Delta County/ San Rafael group/ Dolores County/ Gunnison County/ Montrose County/ sandstone/ Moffat County/ Ouray County/ San Juan County/ San Miguel County/ La Plata County/ Rio Blanco County/ Garfield County/ Archuleta County/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1955
stratigraphy/ Morrison Formation/ Colorado Plateau/ sandstone/ Recapture Member/ Mesa County/ Ouray County/ Delta County/ Gunnison County/ Montrose County/ San Juan County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Salt Wash Member/
- Eastman, H. P., 1953
detritus/ river channels/ sphericity/ simulation/ transportation/ Shinarump Member/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Colorado Plateau/
- Eckel, E. B., 1949
geology/ ore deposits/ La Plata district/ economic geology/ production/ Montezuma County/ La Plata County/ igneous-metamorphic/ sandstone/
- Ekren, E. B., 1955
Ute Mountains/ ore deposits/ Montezuma County/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1956
Ute Mountains/ ore deposits/ Montezuma County/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1956
Ute Mountains/ ore deposits/ Montezuma County/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1957
Ute Mountains/ Montezuma County/ sandstone/ Salt Wash Member/ Entrada Sandstone/ igneous-metamorphic/ uranium/ vanadium/ Sentinel Peak NW quadrangle/ geology/ map/ ore deposits/ Morrison Formation/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1957
Ute Mountains/ ore deposits/ Montezuma County/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1957
Ute Mountains/ ore deposits/ Montezuma County/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1958
Ute Mountains/ ore deposits/ porphyry/ petrology/ sandstone/ volcanics/ igneous-metamorphic/ uranium/ vanadium/ stratigraphy/ conglomerate/ Entrada Sandstone/ Colorado Plateau/ Montezuma County/
- Ekren, E. B., and Houser, F. N., 1958
Ute Mountains/ Montezuma County/ stratigraphy/ structure/ ore deposits/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/ geology/ Paradox basin/
- Ekren, E. B., and Houser, F. N., 1959
Morrison Formation/ Salt Wash Member/ Montezuma County/ Ute Mountains/ sandstone/ Colorado Plateau/ uranium/ vanadium/ Sentinel Peak NE quadrangle/ map/ geology/

MONTEZUMA COUNTY

MONTEZUMA COUNTY

- Ekren, E. B., and Houser, F. N., 1959
 Ute Mountains/ Montezuma County/ sandstone/
 Morrison Formation/ Salt Wash Member/ Entrada
 Sandstone/ Colorado Plateau/ Igneous-metamorphic/
 uranium/ vanadium/ Sentinel Peak NW quadrangle/
 map/ geology/
- Ekren, E. B., and Houser, F. N., 1959
 Junction Creek Sandstone/ Morrison Formation/
 Entrada Sandstone/ Montezuma County/ Ute Mountains/
 sandstone/ Colorado Plateau/ uranium/ vanadium/
 Moqui SE quadrangle/ map/ geology/ Salt Wash
 Member/
- Ekren, E. B., and Houser, F. N., 1959
 Morrison Formation/ Salt Wash Member/ Montezuma
 County/ Ute Mountains/ sandstone/ Colorado Plateau/
 uranium/ vanadium/ Cortez SW quadrangle/ map/
 geology/
- Ekren, E. B., and Houser, F. N., 1959
 stratigraphy/ Cretaceous/ Jurassic/ sandstone/
 conglomerate/ Montezuma County/ La Plata County/
 Archuleta County/ Colorado Plateau/ San Juan
 basin/
- Ekren, E. B., and Houser, F. N., 1965
 geology/ petrology/ Ute Mountains/ Montezuma
 County/ sandstone/ Colorado Plateau/ Morrison
 Formation/ uranium/ vanadium/ economic geology/
 Salt Wash Member/ Entrada Sandstone/ Igneous-metamorphic/
 ore deposits/
- Elston, D. P., and Landis, E. R., 1960
 sandstone/ unconformities/ Paradox Valley/ Gypsum
 Valley/ salt anticlines/ Colorado Plateau/ stratigraphy/
 Mesa County/ Montrose County/ San Miguel County/
 Montezuma County/ La Plata County/ Dolores County/
 Hermosa Formation/
- Everhart, D. L., 1951
 geology/ veins/ ore deposits/ minerals/ sandstone/
 igneous-metamorphic/ mudstone/ Colorado Plateau/
 phosphates/ pitchblende/ pegmatite/ carnotite/
 Morrison Formation/ Entrada Sandstone/ Shinarump
 Member/ Mesa County/ Montrose County/ San Miguel
 County/ Dolores County/ Montezuma County/ asphalt/
 limestone/ black shale/ Belgian Congo/ Canadian
 Shield/
- Fassett, J. E., and Hinds, J. S., 1971
 geology/ fuel/ resources/ Fruitland Formation/
 San Juan basin/ Montezuma County/ La Plata County/
 Archuleta County/ Colorado/ uranium/ sandstone/
 New Mexico/ shale/ Colorado Plateau/ Kirtland
 Shale/
- Finch, W. I., 1955
 Colorado Plateau/ ore deposits/ uranium/ sandstone/
 copper/ conglomerate/ ore-bearing formation/
 limestone/ vanadium/ Rio Blanco County/ Garfield
 County/ Mesa County/ geology/ Delta County/
 San Miguel County/ Dolores County/ Rifle mine/
 Montezuma County/ La Plata County/ Grays Hill
 mine/ Placerville district/ Uravan district/
 Gateway district/ map/ geology/
- Finch, W. I., 1956
 Colorado Plateau/ ore deposits/ La Plata County/
 production/ Triassic/ Chinle Formation/ shale/
 sandstone/ conglomerate/ fossil wood/ minerals/
 structures/ Mesa County/ Delta County/ Montrose
 County/ San Miguel County/ Dolores County/ Montezuma
 County/ La Plata County/ sandstone/ conglomerate/
 shale/ Garfield County/ Rio Blanco County/ geology/
- Finch, W. I., 1959
 Colorado Plateau/ ore deposits/ production/
 Triassic/ Chinle Formation/ fossil wood/ minerals/
 structures/ Mesa County/ Delta County/ Montrose
 County/ San Miguel County/ Dolores County/ Montezuma
 County/ La Plata County/ sandstone/ conglomerate/
 shale/ Garfield County/ Rio Blanco County/ geology/
- Finch, W. I., 1967
 Colorado Plateau/ Front Range/ Igneous-metamorphic/
 geology/ Larimer County/ Jackson County/ Routt
 County/ Moffat County/ Garfield County/ Grand
 County/ Eagle County/ Boulder County/ Jefferson
 County/ Park County/ Mesa County/ Montrose County/
 El Paso County/ San Miguel County/ Bent County/
 Park County/ Saguache County/ Pueblo County/
 Dolores County/ Las Animas County/ Huerfano
 County/ Costilla County/ Custer County/ San
 Juan County/ La Plata County/ Montezuma County/
- Fischer, R. P., 1937
 copper/ vanadium/ silver/ uranium/ sedimentary
 deposits/ Colorado Plateau/ sandstone/ Mesa
 County/ Montrose County/ Montezuma County/ Dolores
 County/ San Miguel County/
- Fischer, R. P., 1950
 Colorado Plateau/ ore deposits/ sandstone/ uranium/
 Morrison Formation/ Rio Blanco County/ Garfield
 County/ Mesa County/ Delta County/ Montrose
 County/ Dolores County/ Montezuma County/ La
 Plata County/ Archuleta County/ ore guides/
 Garfield County/ San Miguel County/
- Fischer, R. P., 1955
 Durango district/ Placerville district/ Rico
 district/ uranium/ vanadium/ chromium/ Delta
 County/ Garfield County/ La Plata County/ Ouray
 County/ Rio Blanco County/ San Juan County/
 San Miguel County/ minerals/ mariposite/ sandstone/
 Entrada Sandstone/ regional relations/ ore deposits/
 Colorado Plateau/ Mesa County/ Moffat County/
 Montezuma County/ Montrose County/ Rifle area/
 Dolores County/
- Fischer, R. P., 1968
 Colorado Plateau/ geology/ structure/ ore deposits/
 genesis/ sandstone/ San Miguel County/ Montrose
 County/ Mesa County/ Dolores County/ Chinle
 Formation/ Morrison Formation/ Montezuma County/
 La Plata County/ San Juan County/ Garfield County/
 Rio Blanco County/ Moffat County/ Entrada Sandstone/
 production/ stratigraphy/
- Fischer, R. P., 1970
 Colorado/ Wyoming/ Colorado Plateau/ genesis/
 supergene processes/ ore deposits/ sandstone/
 configuration/ distribution/ uranium/ Arizona/
 mineralogy/ New Mexico/ Utah/ Mesa County/ Montrose
 County/ Montezuma County/ Dolores County/ San
 Miguel County/ Rio Blanco County/

Foster, M. D., 1959

Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ clay mineralogy/ uranium/ vanadium/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/

Garrels, R. M., and Larsen, E. S., 3d, compilers, 1959

Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ sandstone/ ground water/ clay/ mudstone/ organics/ Peanut mine/ J. J. mine/ Montrose County/ Rifle mine/ Garfield mine/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Archuleta County/

Gill, J. R., 1953

Colorado/ Montana/ Wyoming/ ore deposits/ carbonaceous rocks/ coal/ Park County/ Gunnison County/ Delta County/ Las Animas County/ El Paso County/ Teller County/ La Plata County/ Montezuma County/ Denver Basin/ Larimer County/ shale/ Crested Butte/ Laramie Formation/ Colorado Plateau/ Front Range/

Girdley, W. A., Flook, J. E., and Harris, R. E., 1975

spectroscopy/ ore deposits/ uranium/ vanadium/ lithology/ mineralogy/ sandstone/ subsurface stratigraphy/ Morrison Formation/ Sage Plain area/ Colorado Plateau/ Utah/ Colorado/ Dolores County/ Montezuma County/ La Plata County/ San Miguel County/

Gruner, J. W., 1951

Shinarump Member/ Morrison Formation/ Colorado Plateau/ conglomerate/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Utah/ pitchblende/ genesis/ Chinle Formation/ ore deposits/

Gruner, J. W., 1953

Colorado Plateau/ ore deposits/ syngenetic processes/ hydrothermal processes/ ground water/ genesis/ Shinarump Member/ conglomerate/ Morrison Formation/ sandstone/ conglomerate/ mudstone/ limestone/ Todilto Limestone/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ Montezuma County/ Chinle Formation/

Gruner, J. W., 1953

Colorado Plateau/ ore deposits/ intrusives/ ore sources/ sandstone/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/ extrusives/ Montezuma County/ ground water/ igneous-metamorphic/

Gruner, J. W., 1956

uranium concentration/ sediments/ geochemistry/ Colorado Plateau/ sandstone/ Mesa County/ genesis/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ multiple migration-accretion/

Gruner, J. W., 1956

uranium concentration/ sediments/ geochemistry/ sandstone/ genesis/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ multiple migration-accretion/ Colorado Plateau/

Gruner, J. W., and Smith, D. K., Jr., 1955

siltstone/ sandstone/ Colorado Plateau/ uranium/ coffinite/ Jurassic/ Larimer County/ Black King mine/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ mineralogy/ Morrison Formation/ Bull Canyon district/ Calamity Mesa/ Paradox Valley/ Salt Wash Member/ Front Range/

Hackman, R. J., 1952

Montezuma County/ photogeologic map/ Aneth-1 quadrangle/ Colorado/ Utah/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ carnotite/ Colorado Plateau/

Hackman, R. J., 1952

Montezuma County/ photogeologic map/ Verdure-16 quadrangle/ Colorado/ Utah/ sandstone/ carnotite/ Colorado Plateau/

Hackman, R. J., 1952

Dolores County/ Montezuma County/ photogeologic map/ Verdure-9 quadrangle/ Colorado/ Utah/ sandstone/ Colorado Plateau/ carnotite/

Hackman, R. J., 1955

Colorado/ Utah/ sandstone/ Morrison Formation/ Salt Wash Member/ Montezuma County/ photogeologic map/ Aneth-8 quadrangle/ Colorado Plateau/ carnotite/

Hackman, R. J., 1955

Montezuma County/ photogeologic map/ Aneth-1 quadrangle/ Colorado/ Utah/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ Colorado Plateau/ carnotite/

Hackman, R. J., 1959

Dolores County/ Montezuma County/ photogeologic map/ Yellow Jacket quadrangle/ sandstone/ Colorado Plateau/

Hall, C. R., 1976

alkalic/ igneous rocks/ igneous-metamorphic/ Gilpin County/ Front Range/ bibliography/ San Juan County/ Custer County/ Fremont County/ La Plata County/ Montezuma County/ Gunnison County/ Saguache County/ El Paso County/ Rio Grande County/ Jefferson County/ Larimer County/ Boulder County/ Colorado Plateau/ Clear Creek County/ Teller County/

Haynes, D. D., Vogel, J. D., and Wyant, D. G., compilers, 1972

Colorado/ Utah/ geology/ structure/ ore deposits/ uranium/ Cortez quadrangle/ map/ host formations/ sandstone/ San Miguel County/ Dolores County/ La Plata County/ Colorado Plateau/ stratigraphy/ Montezuma County/

Henkes, W. C., Irwin, J. H., and Pratt, W. P., 1976

minerals/ resources/ ore deposits/ Colorado/ New Mexico/ Montezuma County/ sandstone/ Colorado Plateau/ Ute Mountain Indian Reservation/

Hess, F. L., 1914

genesis/ carnotite/ Colorado/ uranium/ vanadium/ Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/

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MONTENZUMA COUNTY

- Delta County/ Dolores County/ Montezuma County/
La Plata County/ Archuleta County/ Utah/ Colorado
Plateau/ sandstone/ ore deposits/
- Hess, F. L., 1922
Colorado Plateau/ ore deposits/ resources/ radium/
uranium/ vanadium/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ sandstone/
- Hess, F. L., 1925
carnotite/ vanoxite/ vanadium/ mineralogy/ sandstone/
Rio Blanco County/ Garfield County/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ La Plata County/ Colorado
Plateau/ ore deposits/ Delta County/
- Holmes, C. N., 1950
sandstone/ Uncompahgre uplift/ tectonics/ sedimentary
rocks/ Mesozoic/ Chinle Formation/ Pitkin County/
Gunnison County/ Montrose County/ Mesa County/
Delta County/ Dolores County/ Dolores Formation/
Montezuma County/ Entrada Sandstone/ stratigraphy/
Morrison Formation/ Colorado Plateau/
- Hoover, W. B., 1950
Glan Canyon Formation/ San Raphael Formation/
correlation/ sandstone/ La Plata County/ Jurassic
Formations/ stratigraphy/ Utah/ Colorado/ Arizona/
New Mexico/ San Juan basin/ Archuleta County/
Montezuma County/ sandstone/ Colorado Plateau/
Morrison Formation/
- Houser, F. N., and Ekren, E. B., 1959
Montezuma County/ Colorado Plateau/ Moqui SW
quadrangle/ Ute Mountains/ Morrison Formation/
sandstone/ uranium/ vanadium/ map/ geology/
Salt Wash Member/
- Houser, F. N., and Ekren, E. B., 1959
Ute Mountains/ Montezuma County/ Dolores County/
sandstone/ Cretaceous strata/ Colorado Plateau/
Dakota Sandstone/
- Houston, R. S., and Murphy, J. F., 1977
Colorado Plateau/ Montezuma County/ San Juan
basin/ sandstone/ Cretaceous/ black sandstones/
stratigraphy/ structure/ mineralogy/ placer
deposits/ heavy minerals/ monazite/ zircon/
ilmenite/ depositional environment/
- Hunt, C. B., 1956
Cenozoic/ geology/ Colorado Plateau/ physiography/
stratigraphy/ Moffat County/ sandstone/ Delta
County/ Rio Blanco County/ Garfield County/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/
- Isachsen, Y. W., and Evensen, C. G., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/
Holiday Mesa/ Happy Jack mine/ Calyx mines/
Delta mine/ Cameron district/ copper/ vanadium/
Big Indian Wash-Lisbon Valley district/ sandstone/
geology/ ore deposits/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ stratigraphy/ structure/
- Isachsen, Y. W., Mitcham, T. W., and Wright, R.
J., 1954
uranium/ ore deposits/ exploration/ drilling/
Colorado Plateau/ sandstone/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/
- Isachsen, Y. W., Mitcham, T. W., and Wright, R.
J., 1955
Colorado Plateau/ ore deposits/ absolute age/
host rocks/ sandstone/ formational environments/
Entrada Sandstone/ Kayenta Formation/ Garfield
County/ Moffat County/ Rio Blanco County/ San
Miguel County/ Mesa County/ Montrose County/
Delta County/ Dolores County/ Montezuma County/
La Plata County/ Archuleta County/
- Ives, R. L., 1936
sandstone/ radium/ mining/ ore deposits/ San
Miguel County/ Colorado Plateau/ history/ Utah/
carnotite/ Montrose County/ Dolores County/
Mesa County/ Montezuma County/ uranium/ McElmo
Formation/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/
regional transmissivity/ uranium/ sediments/
sandstone/ ground water/ La Plata County/ Archuleta
County/ Moffat County/ Rio Blanco County/ Montrose
County/ Garfield County/ Mesa County/ Delta
County/ San Miguel County/ Dolores County/ Montezuma
County/
- Jobin, D. A., 1962
Colorado Plateau/ ore deposits/ Morrison Formation/
transmissivity/ sandstone/ San Miguel County/
ground water/ conglomerate/ Chinle Formation/
Moffat County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/
- Joesting, H. R., and Byerly, P. E., 1953
Gateway district/ Sleeping Ute Mountain/ Uravan
district/ geophysics/ Colorado Plateau/ San
Miguel County/ Montrose County/ Mesa County/
Montezuma County/ Dolores County/ sandstone/
Slick Rock district/ vanadium/ uranium/ Egnar
district/ ore deposits/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and
others, 1952
Front Range/ pitchblende/ sandstone/ igneous-metamorphic/
coal/ shale/ Archuleta County/ Routt County/
Eagle County/ Pitkin County/ Gunnison County/
San Juan County/ Fremont County/ Huerfano County/
Ouray County/ Colorado Plateau/ ore deposits/
Moffat County/ Garfield County/ Mesa County/
Delta County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Larimer County/ Boulder County/ Jefferson County/
Park County/ Rio Blanco County/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and
others, 1952
Front Range/ Jamestown district/ pitchblende/
bastonite/ Colorado Plateau/ sandstone/ igneous-metamorphic/
coal/ shale/ Moffat County/ Garfield County/
La Plata County/ Pitkin County/ Gunnison County/

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San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/

Keller, W. D., 1962

clay minerals/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ mineralogy/ Mesa County/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/

Kelley, V. C., 1955

sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/

Kelley, V. C., 1955

sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ Archuleta County/ Ouray County/ Gunnison County/ Montrose County/

Kelley, V. C., 1956

Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/

Kelley, V. C., 1956

Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Moffat County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ regional structure/

Kelley, V. C., 1959

structures/ fracture systems/ Colorado Plateau/ faults/ fractures/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Montezuma County/ Moffat County/ San Juan County/ Ouray County/ Delta County/ Gunnison County/ Garfield County/ La Plata County/ Rio Blanco County/

Kelley, V. C., 1959

jointing/ Colorado Plateau/ sandstone/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/

Kelley, V. C., and Clinton, N. J., 1960

Colorado Plateau/ sandstone/ fractures/ tectonics/ genesis/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/

Kellogg, J. P., 1952

Colorado Plateau/ ore deposits/ exploration/ drilling/ Utah/ Colorado/ Arizona/ New Mexico/ uranium/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Salt Wash Member/ Tenderfoot Mesa/

Kellogg, J. P., 1954

drilling/ statistics/ Colorado Plateau/ Mesa County/ San Miguel County/ Montezuma County/ Dolores County/ sandstone/ exploration/

Kerr, P. F., 1958

uranium/ ore deposits/ genesis/ alteration/ mineralogy/ Colorado Plateau/ Archuleta County/ conglomerate/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/

Kerr, P. F., 1958

Colorado Plateau/ ore deposits/ genesis/ sandstone/ stratigraphy/ uranium/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ hydrothermal emplacement/ Dolores County/

Koerberlin, F. R., 1938

copper/ vanadium/ uranium/ silver/ Colorado/ Utah/ genesis/ ore deposits/ discussion/ Montrose County/ Colorado Plateau/ Mesa County/ Montezuma County/ San Miguel County/ Dolores County/ sandstone/

Langan, L. V., and Ash, H. O., 1955

Colorado Plateau/ ore deposits/ uranium/ field trip/ New Mexico/ Utah/ Colorado/ stratigraphy/ Morrison Formation/ sandstone/ Entrada Sandstone/ Dolores County/ Montezuma County/ Montrose County/ San Miguel County/

Larsen, E. S., and Cross, C. W., 1956

geology/ petrology/ San Juan region/ Colorado Plateau/ igneous-metamorphic/ Montrose County/ Ouray County/ San Miguel County/ Dolores County/ La Plata County/ Gunnison County/ Hinsdale County/ Archuleta County/ Mineral County/ Saguache County/ Conejos County/ Alamosa County/ San Juan County/ Montezuma County/ Rio Grande County/

Leaming, G. F., 1971

economic development/ Arizona/ economic analysis/ New Mexico/ Utah/ Colorado/ economic conditions/ minerals/ mining/ fuels/ industries/ iron/ uranium/ silver/ copper/ titanium/ coal/ natural gas/ oil shale/ sandstone/ ore deposits/ Colorado Plateau/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/

MONTEZUMA COUNTY

MONTEZUMA COUNTY

- Lindberg, M., Weeks, A. D., Thompson, M. E., and others, 1962
hendersonite/ vanadium/ Colorado Plateau/ vanadates/ Paradox Valley/ Montrose County/ Morrison Formation/ sandstone/ San Miguel County/ Dolores County/ Montezuma County/ crystallography/ geochemistry/
- Maise, C. R., 1953
Colorado Plateau/ ore deposits/ genesis/ ground water/ mineralization/ sandstone/ Jurassic/ syncline/ aquifers/ experimental simulation/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/
- Maxwell, J. C., 1977
San Juan Mountains/ geology/ Archuleta County/ hydrogeochemistry/ stream sediments/ stream waters/ ground waters/ Storm King Mountain/ Vallecito Creek/ Montrose County/ Gunnison County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ San Juan County/ Ouray County/ Hinsdale County/ Mineral County/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Front Range/ exploration/ Morrison Formation/ phosphates/ shale/ sandstone/ Igneous-metamorphic/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ Dolores County/ Gilpin County/ Clear Creek County/ Garfield County/ Boulder County/
- Merritt, P. L., 1950
uranium/ exploration/ Colorado Plateau/ sandstone/ Morrison Formation/ Entrada Sandstone/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Caribou district/ Igneous-metamorphic/ Montrose County/ Clear Creek County/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Clear Creek County/ Caribou district/ Igneous-metamorphic/
- Metzger, O. H., 1944
Colorado/ vanadium/ ore deposits/ stratigraphy/ mineralization/ topography/ geology/ sandstone/ uranium/ McElmo district/ San Juan basin/ Colorado Plateau/ Montezuma County/
- Miesch, A. T., 1963
Colorado Plateau/ ore deposits/ elements/ geology/ Morrison Formation/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/ Dolores County/
- Miesch, A. T., Shoemaker, E. M., Newman, W. L., and others, 1959
chemical composition/ ore guides/ ore deposits/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ sandstone/ analyses/ statistics/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ geology/
- Miesch, A. T., Shoemaker, E. M., Newman, W. L., and others, 1960
Colorado Plateau/ ore deposits/ sandstone/ ore guides/ deposit size/ Jurassic/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ uranium/ chemical composition/ Morrison Formation/
- Mullens, T. E., and Freeman, V. L., 1952
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Colorado/ uranium/ vanadium/ Mesa County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Utah/ Arizona/ New Mexico/ San Miguel County/ Morrison Formation/
- Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/
- Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/
- Newman, W. L., 1962
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ sandstone/ mudstone/ limestone/ Uravan district/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/
- Noble, E. A., 1959
Colorado Plateau/ uranium belts/ genesis/ ore deposits/ Uravan district/ Lisbon Valley district/ San Juan basin/ Colorado/ New Mexico/ Utah/ Mesa County/ San Miguel County/ Montrose County/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ Montezuma County/
- Noble, E. A., 1960
Colorado Plateau/ ore deposits/ uranium belts/ genesis/ Uravan district/ Lisbon Valley district/ San Juan basin/ Colorado/ New Mexico/ Utah/ Mesa County/ San Miguel County/ Montrose County/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ Chinle Formation/ Montezuma County/
- Notesteln, F. B., 1918
ore deposits/ geochemistry/ genesis/ experimental studies/ uranium/ vanadium/ Colorado Plateau/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/

MONTEZUMA COUNTY

MONTEZUMA COUNTY

- Olson, J. C., and Adams, J. W., 1962
thorium/ rare earths/ United States/ Colorado/
igneous-metamorphic/ Gunnison County/ Fremont
County/ Custer County/ Larimer County/ Gilpin
County/ Montezuma County/ Moffat County/ El
Paso County/
- Pierce, A. P., Mytton, J. W., and Gott, G. B., 1956
Colorado/ Texas/ Kansas/ Arkansas/ New Mexico/
Arizona/ Utah/ crude oil/ asphaltite/ petroleum/
helium/ natural gas/ Las Animas County/ Montezuma
County/ Adams County/ radon/ uranium/ thorium/
radium/ sandstone/
- Pierce, A. P., Mytton, J. W., and Gott, G. B., 1956
Colorado/ Texas/ Kansas/ Arkansas/ New Mexico/
Arizona/ Utah/ crude oil/ asphaltite/ petroleum/
helium/ natural gas/ Las Animas County/ Montezuma
County/ Adams County/ radon/ uranium/ thorium/
radium/ sandstone/
- Pommer, A. M., 1956
oxidation potential/ Colorado Plateau/ uranium/
vanadium/ sandstone/ Salt Wash Member/ Morrison
Formation/ Utah/ Arizona/ Colorado/ New Mexico/
Montrose County/ Mesa County/ Dolores County/
Montezuma County/ Jo Dandy area/ ore deposits/
genesis/ Woody material/ San Miguel County/
- Poola, F. G., and Williams, G. A., 1956
sediments/ Colorado Plateau/ ore guides/ uranium/
vanadium/ exploration/ sandstone/ conglomerate/
Morrison Formation/ transportation direction/
Chinle Formation/ Montrose County/ Entrada Sandstone/
Mesa County/ Delta County/ Triassic/ San Miguel
County/ Dolores County/ Montezuma County/ La
Plata County/
- Poola, F. G., and Williams, G. A., 1956
ore guides/ exploration/ uranium/ vanadium/
sandstone/ conglomerate/ transportation direction/
Morrison Formation/ Chinle Formation/ Entrada
Sandstone/ sediments/ Mesa County/ Delta County/
Montrose County/ Dolores County/ Montezuma County/
La Plata County/ Triassic/ Colorado Plateau/
San Miguel County/
- Reinhardt, E. V., 1952
Colorado Plateau/ ore deposits/ ore guides/
uranium/ vanadium/ copper/ hydrocarbons/ limestone/
sandstone/ Morrison Formation/ Salt Wash Member/
Entrada Sandstone/ Shinarump Member/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/
- Ruckmick, J. C., 1953
heavy minerals/ simulation/ ore deposits/ placers/
gravels/ sandstone/ Mesa County/ Montrose County/
Dolores County/ Montezuma County/ samarskite/
Shinarump Member/ conglomerate/ Colorado Plateau/
fluvial deposits/ San Miguel County/
- Schultz, L. G., 1963
clay minerals/ Menkopi Formation/ Chinle Formation/
x-ray diffraction/ Ouray County/ Rio Blanco
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ Colorado Plateau/
sandstone/ La Plata County/
- Scott, R. C., and Barker, F. B., 1961
ground water/ radium/ La Plata County/ Cheyenne
County/ Kiowa County/ Lincoln County/ Crowley
County/ Otero County/ Bent County/ Prowers County/
Las Animas County/ Baca County/ Montezuma County/
Archuleta County/ Colorado Plateau/
- Scott, R. C., and Barker, F. B., 1962
data/ uranium/ radium/ ground water/ analyses/
Logan County/ Phillips County/ Prowers County/
Yuma County/ Jefferson County/ Garfield County/
Kit Carson County/ Pitkin County/ Mesa County/
Huerfano County/ Baca County/ Montezuma County/
Front Range/ Colorado Plateau/
- Shoemaker, E. M., 1954
Utah/ Colorado/ New Mexico/ Arizona/ Colorado
Plateau/ structural features/ Uncompahgre uplift/
tectonics/ San Miguel County/ Montrose County/
Dolores County/ Montezuma County/ Delta County/
diatremes/ La Plata County/ sandstone/ igneous-metamorphic/
geology/ guidebook/ Mesa County/
- Shoemaker, E. M., 1956
structural features/ Colorado Plateau/ ore deposits/
veins/ Moffat County/ Rio Blanco County/ La
Plata County/ uranium/ Garfield County/ Mesa
County/ Delta County/ Montrose County/ San Miguel
County/ San Juan County/ Ouray County/ sandstone/
Montezuma County/ Dolores County/ Archuleta
County/
- Shoemaker, E. M., and Luedke, R. G., 1952
Colorado Plateau/ map/ uranium/ ore deposits/
sandstone/ Moffat County/ Rio Blanco County/
Mesa County/ Delta County/ Montrose County/
San Miguel County/ Dolores County/ Ouray County/
Montezuma County/ La Plata County/ Garfield
County/
- Shoemaker, E. M., and Newman, W. L., 1953
Montezuma County/ La Plata County/ Ute Mountains/
isolith/ stratigraphy/ Colorado Plateau/ igneous-metamorphic/
- Stokes, W. L., 1944
Morrison Formation/ Colorado Plateau/ sandstone/
stratigraphy/ correlation/ Garfield County/
Mesa County/ Delta County/ Gunnison County/
Montrose County/ Ouray County/ Dolores County/
Hinsdale County/ Archuleta County/ Montezuma
County/ La Plata County/ ore deposits/ San Juan
County/
- Tavelli, J. A., 1951
Colorado Plateau/ sandstone/ airborne radiometrics/
San Miguel County/ Montrose County/ Dolores
County/ Montezuma County/ New Mexico/ Arizona/
Utah/ exploration/ instrumentation/ Mesa County/
- Thaden, R. E., and Kirk, A. R., 1975
sandstone/ district studies/ uranium/ resources/
La Plata County/ Archuleta County/ San Juan
basin/ stratigraphy/ Montezuma County/ Colorado
Plateau/
- Tom, C. W., 1966
Verdure quadrangle/ Utah/ San Miguel County/
Dolores County/ Montezuma County/ Colorado Plateau/
sandstone/ ore deposits/ economic map/ resources/

MONTEZUMA COUNTY

- U.S. Atomic Energy Commission, 1966
airborne reconnaissance/ Arkansas/ Colorado/
Montana/ Texas/ Utah/ Colorado Plateau/ Montezuma
County/ Moffat County/ San Miguel County/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Montezuma County/ reconnaissance/
ore deposits/ Colorado Plateau/ sandstone/
- U.S. Geological Survey, 1954
Colorado Plateau/ Montrose County/ Mesa County/
Dolores County/ Montezuma County/ drilling/
logging/ data/ analyses/ sandstone/ maps/ Morrison
Formation/ San Miguel County/
- U.S. Geological Survey, 1955
Colorado Plateau/ Front Range/ sandstone/ geologic
mapping/ veins/ carbonaceous rocks/ geochemistry/
reconnaissance/ analyses/ igneous-metamorphic/
Mesa County/ Montrose County/ Dolores County/
San Miguel County/ Montezuma County/ Fremont
County/ Jefferson County/
- U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ veins/ geologic
mapping/ mineralogy/ petrology/ geophysics/
carbonaceous rocks/ analyses/ sandstone/ igneous-metamorphic/
San Miguel County/ Dolores County/ Montrose
County/ Montezuma County/ Jefferson County/
Mesa County/
- U.S. Geological Survey, 1956
Colorado Plateau/ mapping/ geology/ geophysics/
mineralogy/ vanadium/ carbonaceous rocks/ petrology/
San Miguel County/ sandstone/ igneous-metamorphic/
Dolores County/ Montrose County/ Montezuma County/
Jefferson County/ Front Range/ Mesa County/
Fremont County/
- U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ geology/ geophysics/
mineralogy/ research/ sandstone/ San Miguel
County/ igneous-metamorphic/ Dolores County/
Montrose County/ Mesa County/ Montezuma County/
Jefferson County/ Fremont County/
- Umbach, P. H., 1952
exploration/ Colorado Plateau/ sandstone/ uranium/
Montezuma County/ San Miguel County/ Dolores
County/ Montrose County/
- Weeks, A. D., Coleman, R. G., and Thompson, M.
E., 1959
Colorado Plateau/ ore deposits/ mineralogy/
oxidation/ vanadium/ sandstone/ uranium/ Moffat
County/ Dolores County/ Garfield County/ Rio
Blanco County/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Montezuma County/
La Plata County/ Archuleta County/
- Wood, H. B., and Grundy, W. D., 1956
exploration guides/ exploration techniques/
Shinarump Formation/ channels/ Colorado Plateau/
uranium/ Moffat County/ Rio Blanco County/ Garfield
County/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ sandstone/

MONTROSE COUNTY

MONTROSE COUNTY

- Aberdeen, E. J., White, W. F., Sherwood, A. M.,
and others, 1952
Cimarron Creek/ San Juan Mountains/ Montrose
County/ ground water studies/ nonsaline waters/
water analyses/ ion exchange/
- Adler, H. H., 1963
genesis/ sandstone/ ore deposits/ Jefferson
County/ Pueblo County/ Gunnison County/ Moffat
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ Colorado Plateau/ Front Range/
Rio Blanco County/
- Adler, H. H., 1964
uranium/ roll ore/ exploration/ sandstone/ ore
deposits/ Jefferson County/ Pueblo County/ Gunnison
County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
San Miguel County/ Montezuma County/ La Plata
County/ Archuleta County/ Moffat County/ Colorado
Plateau/ Front Range/ Dolores County/
- Alvord, D. C., 1953
Colorado Plateau/ reserves/ ore deposits/ sandstone/
Montrose County/ Morrison Formation/ uranium/
vanadium/ San Miguel Bench/
- Alvord, D. C., 1953
Colorado Plateau/ reserves/ ore deposits/ sandstone/
San Miguel Bench/ Montrose County/ uranium/
vanadium/ Morrison Formation/
- Alvord, D. C., 1953
Spring Creek Mesa/ Colorado Plateau/ reserves/
exploration/ sandstone/ ore deposits/ uranium/
vanadium/ Montrose County/ Morrison Formation/
Salt Wash Member/ San Miguel Bench/
- Alvord, D. C., 1955
Montrose County/ San Miguel Bench/ exploration
guides/ minerals/ carnotite/ sandstone/ Salt
Wash Member/ Morrison Formation/ Colorado Plateau/
ore deposits/ ore guides/ geology/ uranium/
vanadium/ drilling/ reserves/ resources/
- Anonymous, 1913
carnotite/ Long Park/ Montrose County/ Colorado
Plateau/ Huerfano County/ sandstone/ San Juan
region/
- Anonymous, 1951
Colorado Plateau/ San Miguel County/ Montrose
County/ Mesa County/ vanadium/ sandstone/
- Archbold, N. L., 1955
lithology/ vanadium/ uranium/ ore deposits/
Morrison Formation/ Salt Wash Member/ Colorado
Plateau/ sandstone/ analyses/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ calcium
carbonate/

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Archbold, N. L., 1956

uranium/ vanadium/ Colorado Plateau/ Salt Wash Member/ Morrison Formation/ sandstone/ Mesa County/ Montrose County/ Dolores County/ Montezuma County/ ore deposits/ lithology/ San Miguel County/

Archbold, N. L., 1958

carbonate cement/ lithology/ vanadium/uranium/ sandstone/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ Slick Rock district/ Uravan/ geochemistry/ ore deposits/ weathering/ alteration/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Cougar mine/ Golden Cycle mine/ Virgin mine/ Upper Group/

Archbold, N. L., 1959

carbonate cement/ lithology/ vanadium/ uranium/ sandstone/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ Slick Rock district/ Uravan/ geochemistry/ ore deposits/ weathering/ alteration/ Mesa County/ Montrose County/ Dolores County/ Cougar mine/ Golden Cycle mine/ Virgin mine/ Upper group/

Bain, G. W., 1953

Colorado Plateau/ ore deposits/ sediments/ sandstone/ stratigraphy/ Dakota Group/ Morrison Formation/ structure/ topography/ geologic history/ Mesa County/ Montrose County/ San Miguel County/ geology/ Montezuma County/ reconnaissance/ Colorado Plateau/ Dolores County/

Bain, G. W., 1953

Colorado Plateau/ ore deposits/ observations/ sedimentation/ Shinarump Member/ carnotite/ Morrison Formation/ tectonic structure/ sandstone/ fluvial sediments/ simulation/ precipitation/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ conglomerate/ Chinle Formation/ Dolores County/ experimental studies/ Salt Wash Member/

Bain, G. W., 1957

Colorado Plateau/ ore deposits/ organic ores/ genesis/ Colorado/ general/ Mesa County/ Delta County/ sandstone/ Montrose County/ San Miguel County/ Dolores County/ Archuleta County/ Garfield County/ La Plata County/

Bain, G. W., Eastman, H. P., Ruckmick, J. C., and others, 1953

Colorado Plateau/ ore deposits/ experimental studies/ sandstone/ fluvial sediments/ field observations/ heavy minerals/ Shinarump Member/ Morrison Formation/ Dakota Sandstone/ geology/ sedimentation/ ground water/ stratigraphy/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Chinle Formation/

Baltz, E. H., Jr., 1955

Colorado/ New Mexico/ ore deposits/ exploration/ carbonaceous rocks/ sandstone/ Mesa County/ Delta County/ Montrose County/ Gunnison County/ Ouray County/ San Miguel County/ Hinsdale County/

Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ coal/ shale/ reconnaissance/ Colorado Plateau/

Baltz, E. H., Jr., 1957

stratigraphy/ structure/ salt/ salt anticlines/ Colorado/ Utah/ Hermosa Formation/ Colorado Plateau/ evaporites/ general/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ sandstone/ Paradox Basin/

Bates, R. C., 1959

Colorado Plateau/ ore deposits/ resources/ exploration/ statistical analysis/ uranium/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Morrison Formation/ sandstone/

Bethke, P. M., 1953

uranium salts/ Colorado Plateau/ simulation/ precipitation/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ ground water/ Morrison Formation/ Salt Wash Member/ uraninite/ carnotite/

Bieber, P. P., 1954

Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Long Park/ Montrose County/

Bieber, P. P., and Bowers, H. E., 1954

Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Long Park area/ Montrose County/

Black, R. A., 1953

Colorado Plateau/ geophysics/ mining districts/ logging/ Spud Patch area/ San Miguel County/ sandstone/ Long Park area/ Montrose County/ Morrison Formation/ ore deposits/

Black, R. A., 1953

Colorado Plateau/ reserves/ geophysics/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Gramlich group/ Paradox district/ Montrose County/

Black, R. A., 1954

Colorado Plateau/ geophysics/ mining districts/ Long Park area/ Montrose County/ electrical logging/ ore deposits/ sandstone/

Boardman, R. L., 1954

Guadalcanal mine/ Colorado Plateau/ reserves/ exploration/ ore deposits/ sandstone/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Long Park area/ Montrose County/

Boardman, R. L., 1954

King Solomon #5 claim/ U.S. Vanadium Co. property/ reserves/ Golden Cycle mine/ Colorado Plateau/

- exploration/ sandstone/ ore deposits/ uranium/ Morrison Formation/ vanadium/ Salt Wash Member/ Atkinson Mesa/ Dolores Bench/ Montrose County/
- Boardman, R. L., 1955
Uravan district/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ exploration/ drilling/ Montrose County/ uranium/ vanadium/ Colorado Plateau/ ore deposits/
- Boardman, R. L., 1955
Uravan district/ ore deposits/ sedimentary structures/ Montrose County/ sandstone/ Morrison Formation/ Salt Wash Member/ appraisal/ drilling/ Long Park/ uranium/ vanadium/ Colorado Plateau/ Uravan project/
- Boardman, R. L., 1955
Long Park/ Third Park/ Second Park Bench/ Uravan district/ Montrose County/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Boardman, R. L., 1956
Uravan district/ Montrose County/ sandstone/ Club Mesa/ Long Park/ drilling/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ uranium/ vanadium/
- Boardman, R. L., 1957
Uravan district/ ore deposits/ Colorado Plateau/ uranium/ vanadium/ Montrose County/ Mesa County/ stratigraphy/ structure/ sandstone/ Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ exploration/ drilling/
- Boardman, R. L., Bowers, H. E., Litsey, L. R., and others, 1955
Colorado Plateau/ drilling/ Third Park/ Second Park Bench/ exploration/ uranium/ vanadium/ ore deposits/ Long Park/ Uravan district/ Montrose County/ sandstone/ geology/ stratigraphy/ Morrison Formation/ Salt Wash Member/ structure/ mineralogy/ ore guides/ reserves/ uraninite/ coffinite/ carnotite/
- Boardman, R. L., Ekren, E. B., and Bowers, H. E., 1956
sedimentary features/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ ore deposits/ Uravan district/ Montrose County/ Colorado Plateau/ geology/ Jurassic/
- Boardman, R. L., Litsey, L. R., and Bowers, H. E., 1957
Montrose County/ Club Mesa area/ Uravan district/ vanadium/ exploration/ sandstone/ Morrison Formation/ La Salle mine/ Salt Wash Member/ Club group mines/ Tramp No. 2 mine/ uranium/ Bunker mines/ ore deposits/ Colorado Plateau/
- Boardman, R. L., Litsey, L. R., and Bowers, H. E., 1958
Montrose County/ Club Mesa area/ Uravan district/ uranium/ vanadium/ exploration/ Morrison Formation/ La Salle mine/ Salt Wash Member/ sandstone/ Club group mines/ Tramp No. 2 mine/ Bunker mines/ ore deposits/ Colorado Plateau/
- Botinelly, Theodore, 1955
Peanut mine/ J. J. mine/ Jo Dandy group/ uranium/ vanadium/ geology/ mineralogy/ Montrose County/ sandstone/ carnotite/ Colorado Plateau/ Bull Canyon district/ ore deposits/ Morrison Formation/ Salt Wash Member/
- Botinelly, Theodore, 1955
J. J. mine/ Jo Dandy group/ Bull Canyon district/ geology/ mineralogy/ Montrose County/ sandstone/ carnotite/ uranium/ vanadium/ ore deposits/ Rifle mine/ Garfield County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/
- Botinelly, Theodore, 1956
Colorado Plateau/ ore deposits/ Jurassic/ Salt Wash Member/ Morrison Formation/ sandstone/ Montrose County/ geology/ mineralogy/ carnotite/ uranium/ uraninite/ vanadium/
- Botinelly, Theodore, and Weeks, A. D., 1954
Jo Dandy area/ Montrose County/ sandstone/ mineralogic/ clays/ Peanut mine/ Colorado Plateau/
- Botinelly, Theodore, and Weeks, A. D., 1954
mineralogy/ ore deposits/ minerals/ Colorado Plateau/ sandstone/ Montrose County/ Jo Dandy area/ Rifle mine/ Garfield County/ clay minerals/
- Botinelly, Theodore, and Weeks, A. D., 1957
sandstone/ uranium/ vanadium/ Colorado Plateau/ Mesa County/ Montrose County/ minerals/ Dolores County/ San Miguel County/ ore deposits/ mineralogic classification/
- Botinelly, Theodore, and Weeks, A. D., 1957
Colorado Plateau/ mineralogic classification/ uranium/ vanadium/ composition/ oxidation/ mineralogy/ sandstone/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/
- Botinelly, Theodore, Weeks, A. D., and Johnson, D. H., 1953
Colorado Plateau/ South Dakota/ Wyoming/ mineralogy/ petrology/ ore deposits/ vanadium/ Uravan/ Montrose County/ sandstone/ Long Park/ La Salle Creek/ Mesa County/ Utah/ Arizona/ uranium/
- Bowers, H. E., 1954
Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ Morrison Formation/ Salt Wash Member/ Long Park area/ vanadium/ Montrose County/
- Bowers, H. E., 1955
Montrose County/ Long Park area/ exploration/ drilling/ uranium/ reserves/ resources/ sandstone/ vanadium/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/
- Bowers, H. E., 1955
Guadalcanal claims/ Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Long Park area/ Montrose County/
- Bradley, W. H., 1950
uranium/ Colorado Plateau/ sandstone/ occurrences/

- San Miguel County/ Montrose County/ Mesa County/
ore deposits/
- Brasher, G. K., and Douglas, R. F., 1952
Colorado Plateau/ Gramlich group/ Paradox district/
drilling/ exploration/ sandstone/ ore deposits/
reserves/ Montrose County/ Morrison Formation/
Salt Wash Member/ uranium/ vanadium/
- Breger, I. A., and Chandler, J. C., 1959
humic substances/ coal/ geochemistry/ geothermometry/
Colorado Plateau/ sediments/ sandstone/ analyses/
Colorado/ coalified logs/ Morrison Formation/
Montrose County/
- Breger, I. A., and Chandler, J. C., 1960
geochemistry/ humic substances/ coal/ coalified
logs/ Colorado/ Colorado Plateau/ Montrose County/
Morrison Formation/ analyses/ geothermometry/
sandstone/
- Breger, I. A., and Moore, R. T., 1955
El Paso County/ Montrose County/ Virgin mine/
coal/ uraninite/ uranyl ion/ geochemistry/ reduction/
Colorado Plateau/ Front Range/ sandstone/ carbonaceous
substances/
- Brew, D. A., 1953
drilling/ exploration/ Colorado Plateau/ ore
deposits/ American Eagle group/ Gypsum Valley
district/ Montrose County/ sandstone/ Morrison
Formation/ reserves/ Salt Wash Member/ Mary
Jane claims/ uranium/ vanadium/
- Brew, D. A., 1953
Colorado Plateau/ reserves/ ore deposits/ sandstone/
Atkinson Mesa/ Montrose County/ Morrison Formation/
uranium/ vanadium/
- Brew, D. A., 1953
U.S. Vanadium Co. property/ Colorado Plateau/
sandstone/ ore deposits/ reserves/ Atkinson
Mesa area/ Montrose County/ exploration/ uranium/
vanadium/ Morrison Formation/ Salt Wash Member/
- Brew, D. A., 1954
exploration/ ore deposits/ Colorado Plateau/
ore guides/ Montrose County/ Atkinson Mesa area/
minerals/ carnotite/ coffinite/ corvusite/ montrosite/
sandstone/ vanadium/ Morrison Formation/ Salt
Wash Member/ drilling/ uranium/
- Bruyn, Kathleen, 1955
Colorado Plateau/ ore deposits/ sandstone/ Dolores
County/ history/ San Miguel County/ Montrose
County/ Mesa County/
- Bryner, Leonid, 1950
Colorado Plateau/ geology/ ore deposits/ uranium/
vanadium/ Club Mesa area/ minerals/ carnotite/
Uravan district/ Montrose County/ exploration/
drilling/ reserves/ resources/ sandstone/ Morrison
Formation/ Salt Wash Member/
- Bryner, Leonid, 1952
uranium/ vanadium/ geology/ stratigraphy/ ore
deposits/ Club Mesa/ Montrose County/ exploration/
drilling/ Colorado Plateau/ carnotite/ Buckshot
claim/ Club mines/ Shamrock mines/ Tramp mines/
- Morrison Formation/ production/ reserves/ resources/
sandstone/ Salt Wash Member/
- Bryner, Leonid, 1971
Club Mesa area/ drilling/ Montrose County/ map/
Colorado Plateau/ sandstone/ exploration/ reserves/
- Bryner, Leonid, and Cramer, M. A., 1951
Colorado Plateau/ ore deposits/ sandstone/ reserves/
Montrose County/ Club Mesa area/ uranium/ vanadium/
Morrison Formation/ Salt Wash Member/
- Bryner, Leonid, and Cramer, M. A., 1952
Club Mesa area/ Montrose County/ Tramp mine/
uranium/ Colorado Plateau/ ore deposits/ reserves/
sandstone/ vanadium/ Morrison Formation/ Salt
Wash Member/
- Bryner, Leonid, and Cramer, M. A., 1952
Colorado Plateau/ ore deposits/ reserves/ sandstone/
Club Mesa area/ Montrose County/ uranium/ vanadium/
Morrison Formation/ Salt Wash Member/
- Bryner, Leonid, and Douglas, R. F., 1952
Colorado Plateau/ Club Mesa area/ Montrose County/
ore deposits/ exploration/ sandstone/ geology/
reserves/ carnotite/ Morrison Formation/ Salt
Wash Member/ vanadium/ uranium/ Uravan district/
- Bryner, Leonid, and Withington, C. F., 1951
drilling/ exploration/ Club Mesa area/ Montrose
County/ sandstone/ ore deposits/ Colorado Plateau/
reserves/ Uravan district/ carnotite/ Morrison
Formation/ Salt Wash Member/
- Bunker, C. M., and Hamontre, H. C., 1955
Jo Dandy area/ Montrose County/ sandstone/ well
logs/ drill data/ gamma-ray logs/ caliper log/
Colorado Plateau/ drilling/ geophysics/
- Bunker, C. M., and Hamontre, H. C., 1959
caliper log/ gamma-ray log/ Colorado Plateau/
drill data/ Jo Dandy area/ Montrose County/
drilling/ well logs/ geophysics/ sandstone/
- Burwell, Blair, 1920
ore deposits/ resources/ mining/ carnotite/
Mesa County/ Dolores County/ San Miguel County/
Montrose County/ uranium/ vanadium/ Colorado
Plateau/ sandstone/
- Bush, A. L., and Stager, H. K., 1954
minerals/ carnotite/ Calamity claims/ Calamity
mines/ uranium/ Charles T. claims/ Club Mesa
claims/ Legln mines/ sandstone/ Morrison Formation/
vanadium/ Mesa County/ Colorado Plateau/ reserves/
Uravan district/ Montrose County/ San Miguel
County/ ore deposits/
- Bush, A. L., and Stager, H. K., 1955
Mesa County/ Montrose County/ San Miguel County/
Uravan district/ reserves/ uranium/ vanadium/
carnotite/ sandstone/ Colorado Plateau/ Morrison
Formation/
- Bush, A. L., and Stager, H. K., 1956
Mesa County/ Montrose County/ San Miguel County/
Uravan district/ reserves/ uranium/ vanadium/
carnotite/ sandstone/ Colorado Plateau/ Morrison
Formation/

MONTROSE COUNTY

MONTROSE COUNTY

- Butler, A. P., Jr., Killeen, P. L., Page, G. B., and Rubey, W. W., 1947
ore deposits/ resources/ reconnaissance/ Front Range/ reserves/ Colorado Plateau/ carnotite/ uranium/ vanadium/ igneous-metamorphic/ uraninite/ Iron Hill/ Gunnison County/ Gilpin County/ Clear Creek County/ radioactive springs/ thorium/ mineralogy/ San Miguel County/ Montrose County/ Mesa County/ sandstone/ genesis/
- Byerly, P. E., and Joesting, H. R., 1958
geophysical investigations/ Lisbon Valley area/ Utah/ Colorado/ Paradox Basin/ stratigraphy/ salt anticlines/ Montrose County/ geophysics/ Colorado Plateau/ sandstone/
- Byerly, P. E., and Joesting, H. R., 1959
Lisbon Valley area/ Colorado/ Colorado Plateau/ geophysical investigations/ uranium/ Mesa County/ San Miguel County/ Dolores County/ gravity/ aeromagnetism/ sandstone/ geophysics/ Montrose County/
- Cadigan, R. A., 1955
Dolores County/ Garfield County/ Mesa County/ sandstone/ Montrose County/ Rio Blanco County/ San Miguel County/ Entrada Sandstone/ Morrison Formation/ stratigraphy/ Todilto Limestone/ Chinle Formation/ limestone/ host rocks/ conglomerate/ Colorado Plateau/ Triassic/ Jurassic/
- Cadigan, R. A., 1956
lithology/ Colorado Plateau/ petrology/ sediments/ Morrison Formation/ sandstone/ Montrose County/ ore deposits/ San Miguel County/ geochemistry/
- Cadigan, R. A., 1959
Colorado Plateau/ ore deposits/ sandstone/ host rock/ Garfield County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Morrison Formation/ Entrada Sandstone/
- Cadigan, R. A., 1967
petrology/ Morrison Formation/ Colorado Plateau/ sandstone/ Gunnison County/ La Plata County/ Archuleta County/ San Miguel County/ Mesa County/ Delta County/ Eagle County/ Montrose County/ Montezuma County/ mineralogy/ Rio Blanco County/ Salt Wash Member/
- Cadigan, R. A., 1971
petrology/ Moenkopi Formation/ Colorado Plateau/ mineralogy/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ stratigraphy/
- Cadigan, R. A., 1971
geochemical distribution/ Colorado Plateau/ red beds/ vanadium/ sandstone/ La Plata County/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Rio Blanco County/ geochemistry/ Garfield County/ Moenkopi Formation/
- Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/
- Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/
- Cannon, H. L., 1951
Colorado Plateau/ botanical studies/ uranium/ geobotany/ vanadium/ indicator plants/ Colorado/ Utah/ Salt Wash Member/ sandstone/ Astragalus/ geology/ analyses/ ore deposits/ Mesa County/ Montrose County/ Morrison Formation/ San Miguel County/ Dolores County/
- Cannon, H. L., 1952
Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/ vegetation/ uranium/ vanadium/ sandstone/ botanical studies/ Dolores County/ Colorado/ indicator plants/ Utah/ Morrison Formation/ Astragalus/ Salt Wash Member/ geology/ analyses/ ore deposits/ geobotany/
- Cannon, H. L., 1957
plant descriptions/ Colorado Plateau/ sandstone/ exploration/ uranium/ Astragalus/ vanadium/ Utah/ ore deposits/ New Mexico/ Arizona/ Colorado/ Wyoming/ San Miguel County/ Montrose County/ Mesa County/ geobotany/ Dolores County/ botanical studies/ indicator plants/
- Cannon, H. L., 1960
Colorado Plateau/ ore deposits/ botanical prospecting/ exploration/ indicator plants/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ geobotany/
- Carter, W. D., 1953
Colorado Plateau/ reserves/ drilling/ exploration/ vanadium/ sandstone/ ore deposits/ uranium/ Morrison Formation/ Salt Wash Member/ Long Park area/ Montrose County/ La Sal Creek area/ Paradox district/ Colorado/ Utah/ geology/
- Carter, W. D., 1955
La Sal Creek area/ Paradox district/ Montrose County/ Colorado/ Utah/ Colorado Plateau/ sandstone/ ore deposits/ exploration/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Carter, W. D., 1956
Colorado/ Utah/ Cretaceous/ sandstone/ disconformity/ Dakota Sandstone/ Montrose County/ Colorado Plateau/ Burro Canyon Member/ stratigraphy/
- Carter, W. D., 1956
Burro Canyon Member/ Mount Peale No. 1 quadrangle/ Colorado/ Utah/ sandstone/ Montrose County/ stratigraphy/ ore deposits/ geology/ Colorado Plateau/ Dakota Sandstone/
- Carter, W. D., 1956
disconformity/ stratigraphy/ Cretaceous/ Colorado Plateau/ Dakota Sandstone/ Burro Canyon Member/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/ sandstone/

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MONTROSE COUNTY

- Carter, W. D., 1957
disconformity/ stratigraphy/ Cretaceous/ Colorado/ Utah/ Colorado Plateau/ Dakota/ Dolores/ Burro Canyon Member/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ sandstone/
- Carter, W. D., and Gualtieri, J. L., 1956
Montrose County/ Colorado/ Utah/ La Sal Creek area/ Morrison Formation/ sandstone/ Salt Wash Member/ drilling/ ore deposits/ Colorado Plateau/ Paradox district/
- Carter, W. D., and Gualtieri, J. L., 1957
Colorado Plateau/ La Sal Creek area/ Paradox district/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado/ Utah/ drilling/ stratigraphy/ structure/ Montrose County/ ore deposits/
- Carter, W. D., and Gualtieri, J. L., 1957
Mount Peale 1 SE quadrangle/ geology/ map/ Montrose County/ Colorado/ Utah/ sandstone/ uranium/ Colorado Plateau/
- Carter, W. D., and Gualtieri, J. L., 1965
Colorado/ Utah/ La Sal quadrangle/ ore deposits/ areal geology/ Montrose County/ vanadium/ uranium/ sandstone/ Colorado Plateau/ Morrison Formation/ geology/
- Carter, W. D., and Gualtieri, J. L., 1970
maps/ drilling/ exploration/ La Sal Creek area/ Montrose County/ Colorado/ Utah/ sandstone/ Paradox district/ Colorado Plateau/
- Carter, W. D., Gualtieri, J. L., and Hedlund, D. C., 1954
Colorado Plateau/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ La Sal Creek area/ Paradox district/ Montrose County/ Colorado/ Utah/
- Carter, W. D., Gualtieri, J. L., and Warman, J., 1954
Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Paradox district/ Montrose County/ Colorado/ Utah/ La Sal Creek area/
- Carter, W. D., Gualtieri, J. L., and Warman, J., 1955
La Sal Creek area/ Montrose County/ Utah/ Colorado/ Morrison Formation/ Salt Wash Member/ sandstone/ structure/ Colorado Plateau/ ore deposits/ exploration/ Paradox district/
- Carter, W. D., Gualtieri, J. L., and Shoemaker, E. M., 1958
Colorado/ Montrose County/ Mount Peale 1 NE quadrangle/ Utah/ Morrison Formation/ sandstone/ geology/ map/ uranium/ vanadium/ Colorado Plateau/
- Case, J. E., and Joesting, H. R., 1972
geophysical investigations/ Colorado Plateau/ stratigraphy/ gravity surveys/ aeromagnetic surveys/ exploration/ Montezuma County/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ geophysics/ geology/
- Case, J. E., Joesting, H. R., and Byerly, P. E., 1963
geophysical investigations/ La Sal Mountains/ geophysics/ Colorado Plateau/ geology/ aeromagnetic surveys/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/
- surveys/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ Igneous-metamorphic/
- Cater, F. W., Jr., 1953
Uravan district/ Montrose County/ San Miguel County/ quadrangle/ geology/ ore guides/ exploration/ minerals/ carnotite/ Colorado Plateau/ Morrison Formation/ map/ sandstone/ Gyp mine/ Raven mine/ Silveys Pocket/ structure/ ore deposits/ Anderson Mesa quadrangle/ Salt Wash Member/
- Cater, F. W., Jr., 1953
Uravan district/ Montrose County/ San Miguel County/ map/ geology/ ore guides/ exploration/ minerals/ ore deposits/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado Plateau/ Jo Dandy group/ Monogram group/ Wild Steer mine/ Tea Pot Dome mine/ Bull Canyon quadrangle/
- Cater, F. W., Jr., 1953
Montrose County/ Davis Mesa quadrangle/ geology/ ore guides/ exploration/ minerals/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Club mines/ Long Park/ Tramp No. 2 mine/ mines/ Colorado Plateau/ Uravan district/ ore deposits/ map/
- Cater, F. W., Jr., 1953
Uravan district/ Montrose County/ San Miguel County/ geology/ ore guides/ exploration/ minerals/ ore deposits/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado Plateau/ Thunderbolt mine/ Oversight claim/ map/ Jo Dandy area/ mines/ Naturita NW quadrangle/
- Cater, F. W., Jr., 1953
carnotite/ Colorado/ stratigraphy/ structure/ mapping/ Colorado Plateau/ geology/ San Miguel County/ Mesa County/ Montrose County/
- Cater, F. W., Jr., 1953
Colorado/ carnotite/ Mesa County/ Montrose County/ sandstone/ ore deposits/ Morrison Formation/ salt anticlines/ Salt Wash Member/ stratigraphy/ structure/ Colorado Plateau/ geology/ exploration/ mapping/ San Miguel County/
- Cater, F. W., Jr., 1954
Bull Canyon quadrangle/ Montrose County/ sandstone/ San Miguel County/ Uravan district/ geology/ carnotite/ Salt Wash Member/ Colorado Plateau/ map/ Morrison Formation/
- Cater, F. W., Jr., 1955
Montrose County/ San Miguel County/ Naturita NW quadrangle/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ sandstone/ carnotite/ Thunderbolt mine/ Oversight claim/ Jo Dandy area/ geology/ map/ mines/ ore deposits/
- Cater, F. W., Jr., 1955
Davis Mesa quadrangle/ Salt Wash member/ sandstone/ Morrison Formation/ Club mines/ Long Park/ carnotite/ Montrose County/ Colorado Plateau/ geology/ map/ mines/ ore deposits/
- Cater, F. W., Jr., 1955
Montrose County/ San Miguel County/ ore deposits/

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- carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado Plateau/ Gyp mine/ Raven mine/ Silveys Pocket/ geology/ map/ Anderson Mesa quadrangle/
- Cater, F. W., Jr., 1955
Naturita NW quadrangle/ Morrison Formation/ ore deposits/ sandstone/ Colorado Plateau/ carnotite/ Thunderbolt mine/ Oversight claim/ Jo Dandy area/ Montrose County/ San Miguel County/ geology/ map/ mines/ Salt Wash Member/
- Cater, F. W., Jr., 1955
geology/ Dolores County/ salt anticlines/ Montrose County/ San Miguel County/ sandstone/ Utah/ Paradox Basin/ Colorado Plateau/ carnotite/ San Juan Basin/ Archuleta County/ La Plata County/
- Cater, F. W., Jr., 1955
Colorado Plateau/ Colorado/ mapping/ maps published/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ sandstone/ carnotite/ ore deposits/
- Cater, F. W., Jr., 1956
Montrose County/ San Miguel County/ Morrison Formation/ Anderson Mesa quadrangle/ carnotite/ ore deposits/ Salt Wash Member/ sandstone/ Colorado Plateau/ Gyp mine/ Silveys Pocket/ geology/ map/ mines/ Raven mine/
- Cater, F. W., Jr., 1967
salt anticlines/ Paradox Basin/ Utah/ Colorado/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ structure/ Colorado Plateau/ geology/
- Cater, F. W., Jr., 1970
salt anticlines/ geology/ Colorado/ Mesa County/ San Miguel County/ Colorado Plateau/ stratigraphy/ structure/ sandstone/ Montrose County/
- Cater, F. W., Jr., and Elston, D. P., 1961
salt anticlines/ tectonics/ Colorado/ Mesa County/ San Miguel County/ Colorado Plateau/ structural development/ geology/ Utah/ sandstone/ Montrose County/
- Cater, F. W., Jr., and Elston, D. P., 1963
salt anticlines/ tectonics/ Colorado/ Mesa County/ Montrose County/ San Miguel County/ geology/ structural development/ Utah/ sandstone/ Colorado Plateau/
- Cater, F. W., Jr., and McKay, E. J., 1955
Montrose County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ carnotite/ Club mines/ Long Park area/ Davis Mesa quadrangle/ geology/ map/ mines/ ore deposits/
- Cater, F. W., Jr., and McKay, E. J., 1955
Montrose County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ carnotite/ map/ mines/ Long Park No. 6 mine/ Uravan district/ Black Dinah mine/ Bitter Creek mines/ Uravan quadrangle/ geology/ ore deposits/
- Cater, F. W., Jr., Butler, A. P., Jr., and McKay, E. J., 1954
Uravan district/ Montrose County/ Uravan quadrangle/ exploration/ minerals/ carnotite/ Bitter Creek mines/ Black Dinah mine/ Long Park No. 6 mine/ genesis/ ore deposits/ sandstone/ map/ mines/ Salt Wash Member/ Morrison Formation/ geology/ ore guides/ Colorado Plateau/
- Cater, F. W., Jr., Butler, A. P., Jr., and McKay, E. J., 1955
Montrose County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ carnotite/ Long Park No. 6 mine/ Black Dinah mine/ Bitter Creek mines/ ore deposits/ genesis/ map/ Uravan quadrangle/ geology/
- Cater, F. W., Jr., Craig, L. C., and Phoenix, D. A., 1950
sandstone/ Morrison Formation/ Salt Wash Member/ geology/ Colorado Plateau/ ground water studies/ carnotite/ stratigraphy/ structure/ ore deposits/ Colorado/ New Mexico/ Utah/ Arizona/ San Miguel County/ Montrose County/ Mesa County/ Garfield County/ Rio Blanco County/
- Chenoweth, W. L., 1975
Utah/ Colorado/ uranium/ ore deposits/ Canyonlands area/ La Sal Creek area/ sandstone/ Montrose County/ Colorado Plateau/
- Chenoweth, W. L., 1975
Utah/ Colorado/ uranium/ ore deposits/ Canyonlands area/ La Sal Creek area/ sandstone/ Montrose County/ Colorado Plateau/
- Chenoweth, W. L., 1977
Colorado Plateau/ sandstone/ Garfield County/ San Miguel County/ Mesa County/ Dolores County/ Montezuma County/ Montrose County/
- Chew, R. T., 3d, 1955
Colorado Plateau/ Rifle mine/ Uravan district/ map/ Uranium Peak/ sandstone/ production/ uranium/ vanadium/ Morrison Formation/ La Plata County/ ore deposits/ Entrada Sandstone/ Rio Blanco County/ Mesa County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Gateway district/
- Chew, R. T., 3d, 1955
sandstone/ Mesa County/ Utah/ stream sediments/ exploration/ radioactivity/ Delta County/ Montrose County/ gravels/ San Miguel County/ Dolores County/ Ouray County/ San Juan County/ Montezuma County/ La Plata County/ Colorado Plateau/
- Chew, R. T., 3d, 1956
Mesa County/ Delta County/ Montrose County/ sandstone/ Dolores County/ Ouray County/ San Juan County/ gravels/ Montezuma County/ La Plata County/ Colorado Plateau/ exploration/ stream sediments/ radioactivity/ San Miguel County/
- Chew, R. T., 3d, 1956
Rifle mine/ Uravan district/ Uranium Peak/ vanadium/ production/ Colorado Plateau/ uranium/ sandstone/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Entrada Sandstone/ ore deposits/ Garfield County/ Morrison Formation/

- Coffin, R. C., 1921
ore deposits/ resources/ structure/ composition/
sandstone/ carnotite/ radium/ uranium/ vanadium/
Colorado Plateau/ San Miguel County/ Dolores
County/ Montrose County/ Mesa County/
- Coffin, R. C., 1921
carnotite/ Colorado Plateau/ radium/ uranium/
Mesa County/ vanadium/ sandstone/ ore deposits/
San Miguel County/ Dolores County/ Montrose
County/
- Cohenour, R. E., 1967
Colorado Plateau/ ore deposits/ production/
history/ Utah/ mineral economics/ Placerville
district/ Uravan district/ sandstone/ San Miguel
County/ development/ Montrose County/
- Collins, G. E., 1914
carnotite/ sandstone/ San Miguel County/ Montrose
County/ pitchblende/ igneous-metamorphic/ Gilpin
County/ mining/ Colorado Plateau/ Front Range/
- Columbia University, 1971
plants/ uranium/ Colorado Plateau/ ore deposits/
sandstone/ San Miguel County/ Dolores County/
Montrose County/ Mesa County/
- Comstock, S. S., 1951
radioactivity/ exploration/ drilling/ Arizona/
Utah/ sandstone/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ gamma-ray logging/ Colorado Plateau/
- Cooper, Margaret, 1951
bibliography/ uranium/ thorium/ carbonaceous
deposits/ Colorado/ Colorado Plateau/ Mesa County/
sandstone/ San Miguel County/ Dolores County/
Montezuma County/ ore deposits/ Montrose County/
- Cooper, Margaret, 1951
bibliography/ uranium/ thorium/ carbonaceous
deposits/ Colorado/ Colorado Plateau/ Mesa County/
Montrose County/ San Miguel County/ Montezuma
County/ Dolores County/ organics/ sandstone/
- Craig, L. C., and Cadigan, R. A., 1958
Morrison Formation/ Colorado Plateau/ ore deposits/
stratigraphy/ sandstone/ Colorado/ Utah/ Paradox
basin/ San Miguel County/ Montrose county/
- Craig, L. C., and Holmes, C. N., 1951
Morrison Formation/ Colorado Plateau/ sandstone/
Moffat County/ Rio Blanco County/ Garfield County/
Delta County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ Mesa County/ stratigraphy/
Glen Canyon group/ San Rafael group/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and
others, 1951
Colorado Plateau/ Morrison Formation/ Mesa County/
stratigraphy/ Glen Canyon group/ Montezuma County/
Delta County/ San Rafael group/ Dolores County/
Gunnison County/ Montrose County/ sandstone/
Moffat County/ Ouray County/ San Juan County/
San Miguel County/ La Plata County/ Rio Blanco
County/ Garfield County/ Archuleta County/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and
others, 1955
stratigraphy/ Morrison Formation/ Colorado Plateau/
sandstone/ Recapture Member/ Mesa County/ Ouray
County/ Delta County/ Gunnison County/ Montrose
County/ San Juan County/ San Miguel County/
Dolores County/ La Plata County/ Montezuma County/
Salt Wash Member/
- Craig, L. C., Holmes, C. N., Freeman, V. L., and
others, 1977
Morrison Formation/ Salt Wash Member/ Brushy
Basin Member/ member/ sandstone/ shale/ Colorado
Plateau/ facies/ maps/ Montrose County/ Mesa
County/ San Miguel County/ Dolores County/
- Cross, C. W., and Larsen, E. S., 1915
stratigraphy/ La Plata Sandstone/ unconformity/
Precambrian/ San Juan Mountains/ Montrose County/
Gunnison County/ igneous-metamorphic/ sandstone/
Colorado Plateau/ geology/
- Curran, T. F., 1911
Paradox Valley/ ore deposits/ carnotite/ Colorado
Plateau/ sandstone/ Montrose County/
- Curran, T. F., 1913
Colorado Plateau/ ore deposits/ carnotite/ history/
Gilpin County/ Wood mine/ Montrose County/ sandstone/
igneous-metamorphic/ pitchblende/ San Miguel
County/ Mesa County/ Dolores County/ Routt County/
Paradox Valley/ Rio Blanco County/ Utah/ Australia/
Front Range/
- Curran, T. F., 1913
ore deposits/ carnotite/ San Miguel County/
history/ Gilpin County/ Wood mine/ Montrose
County/ Colorado Plateau/ sandstone/ pitchblende/
Mesa County/ Dolores County/ Routt County/ Rio
Blanco County/ Paradox Valley/ Utah/ Australia/
Front Range/ igneous-metamorphic/
- Dalrymple, J. W., Jr., Young, N. B., and Ulbarri,
A., 1957
uranium/ ore deposits/ fracture properties/
fractures/ sandstone/ Bull Canyon district/
Montrose County/ San Miguel County/ Colorado
Plateau/
- Dare, W. L., 1959
Salt Wash Member/ ore deposits/ production/
methods/ economics/ costs/ Jurassic formations/
Morrison Formation/ Mesa County/ Montrose County/
sandstone/ mining/ Colorado Plateau/
- Dare, W. L., 1959
Montrose County/ Mesa County/ Mineral Joe mine/
G-1 mine/ sandstone/ mining methods/ mining
costs/ Morrison Formation/ Salt Wash Member/
Colorado Plateau/
- Dare, W. L., Lindblom, R. A., and Soule, J. H., 1961
Mesa County/ Montrose County/ San Miguel County/
sandstone/ mining methods/ mining costs/ mine
maps/ Colorado Plateau/ Veta Mad mine/
- Davis, W. E., 1951
Colorado Plateau/ Mesa County/ Montrose County/
carnotite/ exploration/ electrical resistivity/
sandstone/ geophysics/ ore deposits/

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- Davis, W. E., 1953
Colorado Plateau/ geophysics/ exploration/ Salt Wash Member/ sandstone/ Gramlich mine/ Spud Patch area/ La Sal Creek area/ San Miguel County/ Mesa County/ Montrose County/ Colorado/ Utah/ Arizona/ Morrison Formation/
- Davis, W. E., 1953
Colorado Plateau/ geophysics/ exploration/ carnotite/ sandstone/ Morrison Formation/ Salt Wash Member/ drilling/ Mesa County/ San Miguel County/ Montrose County/
- Del Rio, S. M., compiler, 1960
minerals/ resources/ Colorado/ uranium/ Colorado Plateau/ San Miguel County/ Montrose County/ Mesa County/ Front Range/ Jefferson County/ Fremont County/ sandstone/ Igneous-metamorphic/ Moffat County/
- Dickson, R. E., Blair, R. G., Hart, H. R., and others, 1955
ore deposits/ exploration/ Bull Canyon/ Montrose County/ San Miguel County/ drilling/ sandstone/ ore favorability/ Colorado Plateau/
- Dodd, P. H., 1956
Jurassic/ Morrison Formation/ Colorado Plateau/ Wedding Bell mines/ Montrose County/ San Miguel County/ sandstone/ uranium/ vanadium/ ore controls/ ore deposits/
- Dodd, P. H., 1956
Jurassic/ Morrison Formation/ Colorado Plateau/ ore deposits/ Wedding Bell mines/ Montrose County/ sandstone/ uranium/ vanadium/ ore controls/ San Miguel County/
- Doelling, H. H., 1969
Colorado/ Utah/ ore deposits/ mining/ Montrose County/ sandstone/ Colorado Plateau/ uranium/ mineral resources/
- Douglas, R. F., 1953
Colorado Plateau/ ore deposits/ reserves/ Club Mesa/ Montrose County/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/
- Dutro, H. B., 1953
Pooch claims/ Rattlesnake claims/ Golden Eagle claims/ Ute claims/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Gypsum Valley district/ Montrose County/
- Dwornik, E. J., and Ross, M., 1955
Colorado Plateau/ uranium minerals/ bog Iron deposit/ Summit County/ sandstone/ photomicrographs/ electron microscope/ Montrose County/ Jo Dandy mine/ Mesa County/ Matchless mine/ Colorado/ Utah/ South Dakota/ sandstone/ mineralogy/
- Dwornik, E. J., and Ross, M., 1955
Colorado Plateau/ minerals/ uranium/ electron microscope/ photomicrographs/ Montrose County/ Mesa County/ Matchless mine/ Colorado/ Utah/ bog Iron deposit/ Summit County/ sandstone/ Jo Dandy mine/ South Dakota/
- Eastman, H. P., 1953
detritus/ river channels/ sphericity/ simulation/ transportation/ Shinarump Member/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Colorado Plateau/
- Ebbley, Norman, 1950
Colorado Plateau/ mines/ uranium/ Colorado/ Utah/ vanadium/ production problems/ Uravan district/ Gateway district/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Garfield County/ Rifle mine/ Morrison Formation/ Entrada Sandstone/ Dolores County/
- Elcher, L. J., 1953
drilling/ exploration/ ore deposits/ sandstone/ Montrose County/ minerals/ carnotite/ uranium/ vanadium/ Vanadium Co. property/ San Miguel Bench/ Morrison Formation/ Salt Wash Member/ reserves/ Colorado Plateau/
- Elcher, L. J., 1953
exploration/ drilling/ Colorado Plateau/ sandstone/ reserves/ Spring Creek Mesa area/ Montrose County/ Morrison Formation/ Salt Wash Member/ geology/ uranium/ vanadium/ ore deposits/ Uravan district/
- Ekran, E. B., 1954
Bitter Creek mines/ Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Salt Wash Member/ Long Park area/ Montrose County/ Morrison Formation/
- Elston, D. P., and Botinelly, T., 1955
Montrose County/ Jo Dandy area/ mineralogy/ petrology/ geochemistry/ J. J. mine/ genesis/ geology/ uranium/ vanadium/ sandstone/ Morrison Formation/ Uravan district/ Colorado Plateau/ stratigraphy/ structure/ ore deposits/ paragenesis/
- Elston, D. P., and Botinelly, T., 1959
geology/ mineralogy/ J. J. mine/ Montrose County/ uranium/ vanadium/ sandstone/ Morrison Formation/ Uravan district/ Colorado Plateau/ ore deposits/ Jo Dandy area/
- Elston, D. P., and Haynes, D. D., 1955
Colorado Plateau/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Jo Dandy area/ Montrose County/ Uravan district/
- Elston, D. P., and Landis, E. R., 1960
sandstone/ unconformities/ Paradox Valley/ Gypsum Valley/ salt anticlines/ Colorado Plateau/ stratigraphy/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Dolores County/ Hermosa Formation/
- Elston, D. P., Flint, A. E., Haynes, D. D., and others, 1970
maps/ drilling/ exploration/ Jo Dandy area/ Bull Canyon district/ Montrose County/ sandstone/ Colorado Plateau/ ore deposits/ Monogram Mesa area/
- Emerson, J. F., 1945
uranium/ ore deposits/ vanadium/ geological surveys/ geography/ mining/ exploration/ tables/

- maps/ Dolores Plateau area/ Colorado Plateau/ Montrose County/ County/ San Miguel County/ sandstone/ Bull Canyon district/
- Emmons, W. H., 1906
Cashin mine/ Montrose County/ copper/ production/ veins/ La Plata Sandstone/ sandstone/ Colorado Plateau/
- Evans, H. T., Jr., 1954
crystallography/ uranium/ minerals/ vanadium/ illeblite/ Colorado Plateau/ Peanut mine/ Montrose County/ sandstone/ ore deposits/ Bull Canyon district/
- Evans, H. T., Jr., 1955
crystallography/ uranium/ minerals/ vanadium/ Colorado Plateau/ Peanut mine/ Bull Canyon district/ Montrose County/ sandstone/ ore deposits/
- Evans, H. T., Jr., and Block, S., 1953
Colorado/ crystal structure/ chemistry/ montroselite/ Colorado Plateau/ vanadium/ diaspore group/ Montrose County/ crystallography/ sandstone/
- Evans, H. T., Jr., and Garrels, R. M., 1957
thermodynamic equilibria/ vanadium/ aqueous systems/ Colorado Plateau/ ore deposits/ paragenesis/ montroselite/ geochemistry/ Colorado/ Utah/ mineralogy/ sandstone/ Montrose County/ J. J. mine/ Peanut mine/ Bull Canyon district/ ground water/
- Evans, H. T., Jr., and Garrels, R. M., 1958
thermodynamic equilibria/ vanadium/ aqueous systems/ Colorado Plateau/ ore deposits/ paragenesis/ montroselite/ geochemistry/ Colorado/ Utah/ mineralogy/ sandstone/ Montrose County/ J. J. mine/ Peanut mine/ Bull Canyon district/ ground water/
- Evans, H. T., Jr., and Morse, M. E., 1958
haggite/ doloresite/ duttonite/ Montrose County/ mineralogy/ chemistry/ Colorado Plateau/ crystal structure/ crystallography/ vanadium oxides/ sandstone/
- Everhart, D. L., 1951
geology/ veins/ ore deposits/ minerals/ sandstone/ igneous-metamorphic/ mudstone/ Colorado Plateau/ phosphates/ pitchblende/ pegmatite/ carnotite/ Morrison Formation/ Entrada Sandstone/ Shinarump Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ asphalt/ limestone/ black shale/ Belgian Congo/ Canadian Shield/
- Everhart, D. L., 1954
Colorado Plateau/ sandstone/ Colorado/ New Mexico/ Utah/ Wyoming/ veins/ igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Jefferson County/ Australia/ South Africa/ Ontario/
- Finch, W. I., 1956
Colorado Plateau/ ore deposits/ La Plata County/ production/ Triassic/ Chinle Formation/ shale/ sandstone/ conglomerate/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Garfield County/ Rio Blanco County/ geology/
- Finch, W. I., 1959
Colorado Plateau/ ore deposits/ production/ Triassic/ Chinle Formation/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ sandstone/ conglomerate/ shale/ Garfield County/ Rio Blanco County/ geology/
- Finch, W. I., 1967
Colorado Plateau/ Front Range/ Igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/
- Fischer, R. P., 1937
copper/ vanadium/ silver/ uranium/ sedimentary deposits/ Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ Montezuma County/ Dolores County/ San Miguel County/
- Fischer, R. P., 1942
vanadium/ production/ sandstone/ Morrison Formation/ Entrada Shinarump Member/ conglomerate/ ore deposits/ Dolores County/ San Miguel County/ Montrose County/ Colorado/ Utah/ Garfield County/ Colorado Plateau/ Entrada Sandstone/ Mesa County/
- Fischer, R. P., 1943
Colorado/ Utah/ vanadium/ ore deposits/ uranium/ radium/ Morrison Formation/ Entrada Sandstone/ Shinarump Member/ sandstone/ conglomerate/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Dolores County/ Colorado Plateau/
- Fischer, R. P., 1947
Colorado Plateau/ exploration/ drilling/ sandstone/ carnotite/ recommendations/ Garfield County/ San Miguel County/ Montrose County/ Mesa County/
- Fischer, R. P., 1948
Morrison Formation/ Entrada Sandstone/ Placerville district/ Colorado Plateau/ production potential/ uranium/ vanadium/ ore deposits/ Colorado/ Utah/ New Mexico/ Arizona/ sandstone/ Uruvan district/ Rifle district/ Garfield County/ Dolores County/ San Miguel County/ Montrose County/ Slick Rock district/
- Fischer, R. P., 1949
Colorado Plateau/ uranium/ vanadium/ ore deposits/ genesis/ structure/ ground water/ sandstone/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/
- Fischer, R. P., 1950
Colorado Plateau/ ore deposits/ sandstone/ uranium/ Morrison Formation/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ ore guides/ Garfield County/ San Miguel County/

- Fischer, R. P., 1950
Morrison Formation/ Colorado Plateau/ Mesa County/
Dolores County/ Montrose County/ San Miguel
County/ Garfield County/ Rio Blanco County/
sandstone/ ore rolls/ carnotite/ geology/ ore
deposits/ mineralogy/ alteration/ Club mine/
uranium/ radium/ vanadium/ Entrada Sandstone/
genesis/
- Fischer, R. P., 1950
uranium/ vanadium/ potential/ Colorado Plateau/
sandstone/ ore deposits/ reserves/ analyses/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/
- Fischer, R. P., 1951
Colorado Plateau/ Uravan district/ exploration/
drilling/ sandstone/ ore deposits/ Morrison
Formation/ Montrose County/ Mesa County/ Dolores
County/ San Miguel County/
- Fischer, R. P., 1952
reserves/ resources/ Charles T. claims/ uranium/
Club Mesa area/ Maverick claims/ Radium claims/
Upper group/ Georgetown claims/ vanadium/ Colorado
Plateau/ carnotite/ Morrison Formation/ sandstone/
Dolores County/ San Miguel County/ Mesa County/
Montrose County/
- Fischer, R. P., 1955
Colorado Plateau/ hot springs/ uranium/ vanadium/
geochemistry/ igneous-metamorphic/ sedimentary
rocks/ veins/ sandstone/ ore deposits/ San Miguel
County/ Mesa County/ Montrose County/ Dolores
County/ Garfield County/
- Fischer, R. P., 1955
vanadium/ uranium/ geochemistry/ Colorado Plateau/
igneous-metamorphic/ sedimentary rocks/ veins/
sandstone/ ore deposits/ San Miguel County/
Mesa County/ Montrose County/ Dolores County/
Garfield County/ hot springs/
- Fischer, R. P., 1955
veins/ igneous-metamorphic/ sedimentary rocks/
sandstone/ vanadium/ uranium/ ore deposits/
Colorado Plateau/ geochemistry/ San Miguel County/
Mesa County/ Montrose County/ Dolores County/
Garfield County/ hot springs/
- Fischer, R. P., 1955
Durango district/ Placerville district/ Rico
district/ uranium/ vanadium/ chromium/ Delta
County/ Garfield County/ La Plata County/ Ouray
County/ Rio Blanco County/ San Juan County/
San Miguel County/ minerals/ mariposite/ sandstone/
Entrada Sandstone/ regional relations/ ore deposits/
Colorado Plateau/ Mesa County/ Moffat County/
Montezuma County/ Montrose County/ Rifle area/
Dolores County/
- Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/
genesis/ mineralogy/ Morrison Formation/ Entrada
Sandstone/ sandstone/ Mesa County/ copper/ Montrose
County/ San Miguel County/ Dolores County/ San
Juan County/ Uravan district/
- Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/
genesis/ mineralogy/ Morrison Formation/ Entrada
Sandstone/ sandstone/ Mesa County/ copper/ Montrose
County/ San Miguel County/ Dolores County/ San
Juan County/ Uravan district/
- Fischer, R. P., 1968
Colorado Plateau/ geology/ structure/ ore deposits/
genesis/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/ Dolores County/ Chinle
Formation/ Morrison Formation/ Montezuma County/
La Plata County/ San Juan County/ Garfield County/
Rio Blanco County/ Moffat County/ Entrada Sandstone/
production/ stratigraphy/
- Fischer, R. P., 1970
Colorado/ Wyoming/ Colorado Plateau/ genesis/
supergene processes/ ore deposits/ sandstone/
configuration/ distribution/ uranium/ Arizona/
mineralogy/ New Mexico/ Utah/ Mesa County/ Montrose
County/ Montezuma County/ Dolores County/ San
Miguel County/ Rio Blanco County/
- Fischer, R. P., 1973
ore guides/ uranium districts/ mineral belts/
exploration/ future/ ore deposits/ Colorado
Plateau/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/
- Fischer, R. P., 1974
exploration/ ore guides/ uranium/ ore deposits/
Colorado Plateau/ Uravan district/ genesis/
sandstone/ Mesa County/ Montrose County/ San
Miguel County/ Dolores County/
- Fischer, R. P., and Blackman, D. H., 1949
Colorado Plateau/ ore guides/ genesis/ Morrison
Formation/ carnotite/ sandstone/ Mesa County/
Montrose County/ Dolores County/ San Miguel
County/ ore deposits/ Calamity group/ geology/
structure/
- Fischer, R. P., and Blackman, D. H., 1949
Colorado Plateau/ geobotany/ sandstone/ carnotite/
Calamity group/ ore deposits/ geology/ mineralogy/
genesis/ ore guides/ stratigraphy/ ground water/
Morrison Formation/ Mesa County/ Lower group/
San Miguel County/ vanadium/ Club mine/ Montrose
County/ Yellow Cat group/ geochemistry/
- Fischer, R. P., and Hilpert, L. S., 1951
Calamity Mesa/ Club Mesa/ Long Park/ Outlaw
Mesa/ Mesa County/ Montrose County/ San Miguel
County/ ore guides/ production/ Dolores County/
Uravan mineral belt/ sandstone/ ore deposits/
Morrison Formation/ Colorado Plateau/ carnotite/
exploration/ geology/ vanadium/ uranium/ Uravan
district/
- Fischer, R. P., and Hilpert, L. S., 1951
Calamity Mesa/ Club Mesa/ Long Park/ Outlaw
Mesa/ Mesa County/ Montrose County/ San Miguel
County/ ore guides/ production/ Dolores County/
Uravan mineral belt/ sandstone/ Morrison Formation/
Colorado Plateau/ ore deposits/ carnotite/ exploration/
geology/ vanadium/ uranium/ Uravan district/

- Fischer, R. P., and Hilpert, L. S., 1952
 Uruvan mineral belt/ ore deposits/ carnotite/
 Mesa County/ Montrose County/ Outlaw Mesa/ Calamity
 Mesa/ Club Mesa/ Long Park/ exploration/ geology/
 sandstone/ Colorado Plateau/ Morrison Formation/
 uranium/ Uruvan district/ Dolores County/ San
 Miguel County/ ore guides/ production/ vanadium/
- Fix, P. F., 1952
 Cimarron Creek/ waters/ stream waters/ Colorado
 Plateau/ geochemistry/ geologic terrane/ ground
 water/ nonsaline waters/ Montrose County/ analyses/
- Fix, P. F., 1954
 San Miguel River/ Montrose County/ ground water/
 nonsaline waters/ analyses/ Big Springs Gulch/
 Orvis Hot spring/ streams/ geochemistry/ Mesa
 County/ San Miguel County/ Ouray County/ Hinsdale
 County/ Gunnison County/ springs/ Cougar mine
 spring/ Maverick Mesa spring/ Cimarron Creek/
 Blue Creek/ Colorado Plateau/ Calamity Mesa
 spring/
- Fleck, Herman, and Haldane, W. G., 1909
 carnotite/ uranium/ vanadium/ radioactivity/
 Dolores County/ Montrose County/ Mesa County/
 San Miguel County/ sandstone/ Colorado Plateau/
- Fleck, Herman, and Haldane, W. G., 1909
 carnotite/ uranium/ vanadium/ radioactivity/
 Dolores County/ Montrose County/ Mesa County/
 San Miguel County/ sandstone/ Colorado Plateau/
- Flint, A. E., 1954
 Paradox Valley/ Bull Canyon district/ Colorado
 Plateau/ Monogram Mesa area/ Montrose County/
 reserves/ drilling/ sandstone/ ore deposits/
 uranium/ vanadium/ Morrison Formation/ exploration/
 Salt Wash Member/
- Flint, A. E., 1955
 Montrose County/ Monogram Mesa/ exploration/
 drilling/ reserves/ resources/ Mineral Joe mine/
 Bull Canyon district/ uranium/ vanadium/ Colorado
 Plateau/ sandstone/ ore deposits/ Morrison Formation/
 Salt Wash Member/
- Flint, A. E., 1955
 Bull Canyon district/ Montrose County/ San Miguel
 County/ sandstone/ Morrison Formation/ Salt
 Wash Member/ Colorado Plateau/
- Flint, A. E., Wallace, R. M., and Holzle, A. F., 1955
 Bull Canyon quadrangle/ Dry Creek Canyon/ Wild
 Steer Mesa/ drilling/ exploration/ reserves/
 Monogram Mesa area/ Montrose County/ Colorado
 Plateau/ sandstone/ ore deposits/ uranium/ vanadium/
 Morrison Formation/ Salt Wash Member/
- Foster, M. D., 1959
 Colorado Plateau/ ore deposits/ mineralogy/
 geochemistry/ clay mineralogy/ uranium/ vanadium/
 sandstone/ Moffat County/ Rio Blanco County/
 Garfield County/ Mesa County/ Delta County/
 San Miguel County/ Montrose County/ Dolores
 County/ Montezuma County/ La Plata County/ Archuleta
 County/
- Four Corners Geological Society, 1960
 Colorado Plateau/ Dolores County/ San Miguel
 County/ Montrose County/ sandstone/ sediments/
 geology/ structures/ Paradox basin/ oil/ gas/
 uranium/
- Franklin, J.C., and Marquardt, R. F., 1976
 radon/ uranium mining/ environmental radiation/
 Colorado Plateau/ data acquisition/ radiation
 monitoring/ uranium mines/ Twilight mine/ Montrose
 County/ sandstone/
- Freeman, H. D., 1935
 uranium/ vanadium/ Triassic/ Jurassic/ sandstone/
 Colorado/ Utah/ Colorado Plateau/ ore deposits/
 Dolores County/ Montrose County/ San Miguel
 County/
- Gabelman, J. W., 1956
 uranium/ ore deposits/ limestone/ Colorado Plateau/
 Gypsum Valley area/ Dolores County/ San Miguel
 County/ Montrose County/ Mesa County/ Wanakah
 Formation/
- Gabelman, J. W., 1956
 uranium/ ore deposits/ limestone/ Colorado Plateau/
 Gypsum Valley area/ Dolores County/ San Miguel
 County/ Montrose County/ Mesa County/ Wanakah
 Formation/
- Gabelman, J. W., 1958
 Colorado Plateau/ Uruvan district/ mineral belts/
 structure/ Montrose County/ San Miguel County/
 Dolores County/ sandstone/ alterations/ tectonic
 control/
- Gabelman, J. W., and Boyer, W. H., 1974
 exploration/ status/ uranium/ technology/ history/
 pitchblende/ radium/ vanadium/ Colorado Plateau/
 Front Range/ Montrose County/ Mesa County/ San
 Miguel County/ Dolores County/ Moffat County/
 Jefferson County/ sandstone/ igneous-metamorphic/
 shale/
- Garrels, R. M., 1953
 Colorado Plateau/ ore deposits/ carnotite/ genesis/
 weathering/ transport/ deposition/ Paradox Valley/
 Uruvan district/ Montrose County/ sandstone/
 San Miguel County/ Mesa County/ geology/
- Garrels, R. M., 1954
 weathering/ transportation/ deposition/ Jo Dandy
 area/ Colorado Plateau/ Mineral Joe mine/ Montrose
 County/ sandstone/ Uruvan district/ San Miguel
 County/ ore deposits/
- Garrels, R. M., 1954
 Colorado Plateau/ weathering/ transportation/
 deposition/ Paradox Valley/ Uruvan district/
 Montrose County/ sandstone/ Jo Dandy group/
 Mineral Joe mine/ clays/ Long Park/ San Miguel
 County/ ore deposits/
- Garrels, R. M., 1955
 Colorado Plateau/ ore deposits/ weathering/
 transportation/ deposition/ sandstone/ Mineral
 Joe mine/ Jo Dandy area/ Uruvan district/ Montrose
 County/ geochemistry/ San Miguel County/

- Garrels, R. M., 1955
Colorado Plateau/ ore deposits/ weathering/
sandstone/ genesis/ uranium/ Montrose County/
San Miguel County/
- Garrels, R. M., 1959
minerals/ oxidation state/ ore deposits/ Colorado
Plateau/ vanadium/ geochemistry/ mineralogy/
uranium/ Mineral Joe No. 1 mine/ Montrose County/
Virgin No. 34 mine/ sandstone/
- Garrels, R. M., and Larsen, E. S., 3d, compilers,
1959
Colorado Plateau/ ore deposits/ mineralogy/
geochemistry/ sandstone/ ground water/ clay/
mudstone/ organics/ Peanut mine/ J. J. mine/
Montrose County/ Rifle mine/ Garfield mine/
Moffat County/ Rio Blanco County/ Mesa County/
Delta County/ San Miguel County/ Dolores County/
La Plata County/ Montezuma County/ Archuleta
County/
- Garrels, R. M., and Pommer, A. M., 1956
Colorado Plateau/ oxidation/ reduction/ ore
deposits/ organics/ uraninite/ pyrite/ sandstone/
geochemistry/ San Miguel County/ Garfield County/
Montrose County/ Mesa County/
- Garrels, R. M., and Pommer, A. M., 1959
oxidation/ reduction/ ores/ minerals/ geochemistry/
ore deposits/ mineralogy/ Colorado Plateau/
sandstone/ San Miguel County/ Mesa County/ Montrose
County/ Garfield County/
- Garrels, R. M., and Richter, D. H., 1955
thermodynamics/ uranium oxides/ oxidation states/
Colorado Plateau/ ore deposits/ San Miguel County/
genesis/ sandstone/ Montrose County/ Garfield
County/ Mesa County/
- Garrels, R. M., Larsen, E. S., 3d, Pommer, A. M.,
and others, 1957
Mineral Joe No. 1 mine/ mineralogy/ minerals/
oxidation/ ore deposits/ Colorado Plateau/ vanadium/
geochemistry/ uranium/ Montrose County/ sandstone/
Virgin No. 3 mine/ carnotite/ Long Park area/
Jo Dandy area/
- George, R. D., 1917
minerals/ rocks/ Colorado/ occurrences/ uses/
Colorado Plateau/ sandstone/ igneous-metamorphic/
uranium/ vanadium/ radium/ carnotite/ pitchblende/
Jefferson County/ Gilpin County/ Front Range/
Montrose County/ San Miguel County/ Dolores
County/ Garfield County/ Rio Blanco County/
Routt County/ Boulder County/
- Gilbert, C. C., 1954
resources/ sandstone/ Uravan district/ Morrison
Formation/ Mesa County/ Montrose County/ Gateway
district/ Gypsum Valley district/ Slick Rock
district/ Colorado Plateau/ Salt Wash Member/
Dolores County/ San Miguel County/ Paradox district/
- Gilbert, C. C., 1954
ore deposits/ ore distribution/ Colorado Plateau/
sandstone/ Morrison Formation/ Salt Wash Member/
Bull Canyon district/ Gypsum Valley district/
Slick Rock district/ San Miguel County/ Montrose
County/
- Gott, G. B., and Erickson, R. L., 1951
reconnaissance/ radioactive materials/ sandstone/
copper/ New Mexico/ Colorado/ Utah/ Idaho/ Wyoming/
uranium/ ore deposits/ Cashin mine/ Montrose
County/ Colorado Plateau/
- Gott, G. B., and Erickson, R. L., 1952
Colorado Plateau/ New Mexico/ Colorado/ Utah/
Idaho/ Wyoming/ reconnaissance/ Montrose County/
Cashin mine/ sandstone/ ore deposits/ fault
breccia/ igneous-metamorphic/ uranium/ copper/
exploration/ bituminous substances/ asphaltite/
Shinarump Member/ Wingate Sandstone/ conglomerate/
- Gott, G. B., and Erickson, R. L., 1952
ore deposits/ exploration/ copper/ New Mexico/
Colorado/ Utah/ Idaho/ Wyoming/ reconnaissance/
bituminous substances/ Cashin mine/ Montrose
County/ sandstone/ uranium/ asphaltite/ Shinarump
Member/ Wingate Sandstone/ conglomerate/ fault
breccia/ Colorado Plateau/
- Griffiths, J. C., 1952
sampling/ collection/ Salt Wash Member/ Colorado/
Utah/ Colorado Plateau/ Jurassic/ clays/ Bull
Canyon district/ sandstone/ Montrose County/
San Miguel County/ Polar Mesa/ Blue Mesa/ Paradox
Valley/ sediments/ Morrison Formation/
- Griffiths, J. C., 1954
Colorado Plateau/ ore deposits/ exploration/
sediments/ sandstone/ mudstone/ Montrose County/
San Miguel County/ Salt Wash Member/ Morrison
Formation/ Jurassic/ quantitative analysis/
- Griffiths, J. C., 1954
Morrison Formation/ Salt Wash Member/ sediments/
sandstone/ textures/ grain size/ mudstone/ Jurassic/
Colorado/ Utah/ Colorado Plateau/ Bull Canyon
district/ uranium/ vanadium/ Entrada Sandstone/
Arizona/ grain fabric/ Montrose County/ Shinarump
Member/ petrography/ San Miguel County/
- Griffiths, J. C., 1957
Salt Wash Member/ sandstone/ mudstone/ Morrison
Formation/ Jurassic/ Bull Canyon District/ Monogram
Mesa/ San Miguel County/ Colorado/ Utah/ Arizona/
Plateau/ statistics/ petrography/ ore guides/
exploration/ sand grain studies/ ore deposits/
Montrose County/ Colorado Plateau/
- Griffiths, J. C., Cochran, J. A., Groff, D. W.,
and Kahn, J. S., 1953
lithology/ analyses/ Salt Wash Member/ Jurassic/
sandstone/ mudstone/ cores/ uranium/ vanadium/
limonite/ Montrose County/ San Miguel County/
spectrometry/ Bull Canyon district/ Morrison
Formation/ Colorado Plateau/
- Griffiths, J. C., Cochran, J. A., Groff, D. W.,
and Kahn, J. S., 1954
Salt Wash Member/ Morrison Formation/ Jurassic/
sandstone/ mudstone/ Montrose County/ San Miguel
County/ thin sections/ Colorado/ Utah/ limonite/
Colorado Plateau/ Bull Canyon district/ petrography/
- Griffiths, J. C., Cochran, J. A., Hutta, J. J.,
and Steinmetz, R., 1956
Salt Wash Member/ sediments/ Morrison Formation/

- Jurassic/ grain size/ grain shape/ sandstone/ Utah/ Colorado/ Arizona/ Montrose County/ San Miguel County/ statistics/ grain orientation/ Colorado Plateau/ Bull Canyon district/ quartz/ lithology/
- Griffiths, J. C., Cochran, J. A., Hutta, J. J., and Steinmetz, R., 1956
Salt Wash Member/ Morrison Formation/ Jurassic/ sandstone/ matrix/ clay/ Colorado Plateau/ Monogram Mesa/ Utah/ Arizona/ Montrose County/ San Miguel County/ petrography/ sediments/ clay pebbles/ grain packing/ statistics/ Bull Canyon district/
- Gruner, J. W., 1951
Shinarump Member/ Morrison Formation/ Colorado Plateau/ conglomerate/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Utah/ pitchblende/ genesis/ Chinle Formation/ ore deposits/
- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ genesis/ shale/ sandstone/ siltstone/ clays/ Morrison Formation/ Colorado/ Utah/ Arizona/ New Mexico/ Moenkopi Formation/ Shinarump Member/ conglomerate/ Mesa County/ Montrose County/ San Miguel County/ asphaltite/ uraninite/ copper/ Chinle Formation/ mineralization/
- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ syngenetic processes/ hydrothermal processes/ ground water/ genesis/ Shinarump Member/ Morrison Formation/ sandstone/ conglomerate/ mudstone/ limestone/ Todilto Limestone/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ Montezuma County/ Chinle Formation/
- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ intrusives/ ore sources/ sandstone/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/ extrusives/ Montezuma County/ ground water/ igneous-metamorphic/
- Gruner, J. W., 1954
Colorado Plateau/ ore deposits/ genesis/ mineralogy/ Utah/ Colorado/ sandstone/ siltstone/ conglomerate/ limestone/ uranium/ vanadium/ New Mexico/ geology/ San Miguel County/ Montrose County/ Mesa County/
- Gruner, J. W., 1954
Colorado Plateau/ genesis/ ore deposits/ organic materials/ sandstone/ uranium/ carbon/ San Miguel County/ Montrose County/ Mesa County/
- Gruner, J. W., 1956
uranium concentration/ sediments/ geochemistry/ Colorado Plateau/ sandstone/ Mesa County/ genesis/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ multiple migration-accretion/
- Gruner, J. W., 1956
Colorado Plateau/ ore deposits/ mineral assemblages/ Utah/ Colorado/ uranium/ sandstone/ continental-type deposits/ Morrison Formation/ San Miguel County/ Montrose County/ Mesa County/
- Gruner, J. W., 1956
uranium concentration/ sediments/ geochemistry/ sandstone/ genesis/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ multiple migration-accretion/ Colorado Plateau/
- Gruner, J. W., and Gardiner, L., 1952
mineral associations/ Shinarump Member/ Todilto Limestone/ Utah/ New Mexico/ Colorado Plateau/ Salt Wash Member/ Morrison Formation/ Colorado/ Montrose County/ San Miguel County/ Calamity Mesa/ Placerville district/ sandstone/ Chinle Formation/ ore deposits/
- Gruner, J. W., and Knox, J. A., 1957
Colorado/ Arizona/ Montana/ New Mexico/ South Dakota/ minerals/ uranium/ ore deposits/ mines/ San Miguel County/ Colorado Plateau/ Fremont County/ Gunnison County/ Saguache County/ volcanics/ conglomerate/ Morrison Formation/ sandstone/ siltstone/ igneous-metamorphic/ Montrose County/ Mesa County/ Moffat County/ Browns Park Formation/
- Gruner, J. W., and Smith, D. K., Jr., 1954
South Dakota/ Wyoming/ ore deposits/ uranium/ Colorado Plateau/ sandstone/ siltstone/ shale/ coffinite/ uraninite/ organics/ Hopi Buttes/ diatremes/ Arizona/ Colorado/ New Mexico/ Utah/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/
- Gruner, J. W., and Smith, D. K., Jr., 1955
Wyoming/ South Dakota/ North Dakota/ Colorado/ sandstone/ Browns Park Formation/ Colorado Plateau/ Morrison Formation/ Chinle Formation/ Mesa County/ San Miguel County/ peat/ lignite/ Moffat County/ Montrose County/
- Gruner, J. W., and Smith, D. K., Jr., 1955
siltstone/ sandstone/ Colorado Plateau/ uranium/ coffinite/ Jurassic/ Larimer County/ Black King mine/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ mineralogy/ Morrison Formation/ Bull Canyon district/ Calamity Mesa/ Paradox Valley/ Salt Wash Member/ Front Range/
- Gruner, J. W., Gardiner, L., and Smith, D. K., Jr., 1953
ore deposits/ black shale/ genesis/ carbonaceous materials/ asphaltic materials/ Colorado Plateau/ Colorado/ Utah/ hydrocarbons/ asphaltite/ thucholite/ sandstone/ uranium/ vanadium/ Calamity Mesa/ Mesa County/ Montrose County/
- Gruner, J. W., Gardiner, L., and Smith, D. K., Jr., 1954
Colorado Plateau/ ore deposits/ mineral assemblages/ Calamity Mesa/ Placerville district/ New Mexico/ conglomerate/ Chinle Formation/ Morrison Formation/ sandstone/ limestone/ asphaltite/ thucholite/ Montrose County/ San Miguel County/ Salt Wash Member/ Dolores Formation/ Shinarump Member/ Todilto Limestone/
- Gruner, J. W., Rosenzweig, A., and Smith, D. K., Jr., 1954
Colorado Plateau/ ore deposits/ mineralogy/

- uraninite/ coffinite/ vanadium/ uranium/ Colorado/ Utah/ New Mexico/ Todilto Limestone/ limestone/ Morrison Formation/ sandstone/ Entrada Sandstone/ Dolores County/ San Miguel County/ Greysill mine/ Mesa County/ Montrose County/ San Juan County/
- Gualtieri, J. L., and Emerick, W. L., 1953
Colorado Plateau/ drilling/ exploration/ ore deposits/ reserves/ Terrible group/ Gypsum Valley district/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ Montrose County/
- Gustafson, J. K., 1949
Colorado Plateau/ uranium/ history/ production/ Colorado/ Utah/ exploration/ sandstone/ San Miguel County/ Montrose County/ Mesa County/
- Gustafson, J. K., 1949
uranium/ resources/ veins/ Gilpin County/ Front Range/ Boulder County/ Igneous-metamorphic/ pitchblende/ vanadium/ Morrison Formation/ sandstone/ Montrose County/ Mesa County/ San Miguel County/ Colorado Plateau/
- Hackman, R. J., 1952
Montrose County/ photogeologic map/ Utah/ Colorado/ sandstone/ Morrison Formation/ Salt Wash Member/ carnotite/ Colorado Plateau/ Mount Peale-8 quadrangle/
- Hackman, R. J., 1952
Montrose County/ photogeologic map/ Utah/ carnotite/ Colorado Plateau/ Colorado/ sandstone/ Morrison Formation/ Salt Wash Member/ Mount Peale-1 quadrangle/
- Hackman, R. J., 1955
Montrose County/ Colorado/ San Miguel County/ sandstone/ photogeologic map/ Mount Peale-9 quadrangle/ Utah/ Morrison Formation/ Salt Wash Member/ carnotite/ Colorado Plateau/
- Hackman, R. J., 1956
Colorado/ Utah/ Montrose County/ photogeologic map/ Morrison Formation/ Salt Wash Member/ sandstone/ carnotite/ Colorado Plateau/ Mount Peale-8 quadrangle/
- Hackman, R. J., 1956
Montrose County/ Colorado/ photogeologic map/ Utah/ sandstone/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ carnotite/ Mount Peale-1 quadrangle/
- Hackman, R. J., 1956
Montrose County/ San Miguel County/ Utah/ photogeologic map/ Mount Peale-9 quadrangle/ sandstone/ Morrison Formation/ Salt Wash Member/ carnotite/ Colorado Plateau/
- Hackman, R. J., 1958
Mesa County/ Montrose County/ Delta County/ photogeologic map/ sandstone/ Colorado Plateau/ Escalante Forks quadrangle/
- Hager, Dorsey, 1955
Colorado Plateau/ ore deposits/ exploration/ channels/ sandstone/ uranium/ ore concentration/ San Miguel County/ Montrose County/ Mesa County/
- Hague, R. S., 1956
ore deposits/ stratigraphy/mineralogy/ mineralization/ Bull Canyon area/ Montrose County/ San Miguel County/ Colorado Plateau/ Uravan district/ Morrison Formation/ Salt Wash Member/ sandstone/ mudstone/ Brushy Basin Member/ tyuyamunite/ carnotite/ uraninite/ montroselite/
- Hague, R. S., Goldstein, S. J., and Blakey, E., 1958
sandstone/ uranium/ vanadium/ Uravan mineral belt/ ore deposits/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Colorado Plateau/
- Hampton, O. W., 1955
Colorado Plateau/ ore deposits/ resources/ exploration/ production/ costs/ sandstone/ uranium/ methods/ mining/ San Miguel County/ Montrose County/ Mesa County/
- Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
pegmatites/ geology/ mineralogy/ Chaffee County/ Boulder County/ Clear Creek County/ Douglas County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Montrose County/ Park County/ Summit County/ monazite/ thorium/ production/ Front Range/ El Paso County/ Igneous-metamorphic/ Colorado Plateau/ Wyoming/ Utah/
- Hansen, W. R., and Peterman, Z. E., 1968
geochronology/ Black Canyon of the Gunnison/ basement rocks/ Gunnison County/ Igneous-metamorphic/ Montrose County/
- Hastings, J. S., 1958
Long Park/ ore deposits/ resources/ geology/ Montrose County/ uranium/ vanadium/ Colorado Plateau/ sandstone/
- Hastings, J. S., 1963
Uravan mineral belt/ Colorado Plateau/ sandstone/ exploration/ Montrose County/ San Miguel County/ Dolores County/ geology/ mining methods/
- Hathaway, J. C., 1959
Colorado Plateau/ ore deposits/ geochemistry/ mudstone/ clay mineralogy/ mixed-layered structures/ vanadium/ Mineral Joe mine/ Montrose County/ San Miguel County/ sandstone/
- Hawkes, H. E., 1949
Colorado Plateau/ botany/ geobotany/ Garfield ore zones/ carnotite/ ore deposits/ Charles T. mine/ geology/ sandstone/ Utah/ selenium/ Rifle mine/ Lower group mines/ Garfield mine/ Mesa County/ Montrose County/ San Miguel County/ Arizona/
- Hess, F. L., 1914
genesis/ carnotite/ Colorado/ uranium/ vanadium/ Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/
- Hess, F. L., 1922
Colorado Plateau/ ore deposits/ resources/ radium/ uranium/ vanadium/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/

- Hess, F. L., 1925
carnotite/ vanoxite/ vanadium/ mineralogy/ sandstone/
Rio Blanco County/ Garfield County/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ La Plata County/ Colorado
Plateau/ ore deposits/ Delta County/
- Hess, F. L., 1925
Colorado/ Colorado Plateau/ uranium/ vanadium/
sandstone/ radium/ San Miguel County/ Montrose
County/ Mesa County/ ore deposits/ resources/
- Hess, F. L., 1927
Colorado/ Colorado Plateau/ uranium/ vanadium/
radium/ sandstone/ ore deposits/ resources/
San Miguel County/ Montrose County/ Mesa County/
- Hess, F. L., 1929
Colorado/ Colorado Plateau/ uranium/ vanadium/
radium/ sandstone/ ore deposits/ resources/
San Miguel County/ Montrose County/ Mesa County/
- Hess, F. L., 1932
Colorado/ Colorado Plateau/ vanadium/ sandstone/
ore deposits/ San Miguel County/ Montrose County/
Mesa County/
- Hess, F. L., 1933
bituminous substances/ uranium/ vanadium/ radium/
gold/ silver/ molybdenum/ sediments/ Colorado
Plateau/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/
- Heyl, A. V., 1954
Montrose County/ mineralogy/ petrology/ geochemistry/
zoning/ montroselite/ Bitter Creek mines/ corvusite/
pascolite/ rauvite/ uraninite/ Uravan district/
asphaltite/ hydrocarbons/ pyrobitumen/ uranium/
thucholite/ sandstone/ Morrison Formation/ Salt
Wash Member/ vanadium/ Colorado Plateau/ ore
deposits/
- Heyl, A. V., 1956
Uravan district/ Bitter Creek mine/ ore deposits/
zoning/ Morrison Formation/ sandstone/ Montrose
County/ Colorado Plateau/ uranium/ geology/
vanadium/ mineralogy/ petrology/ geochemistry/
rauville/ uraninite/ thucholite/ Salt Wash Member/
corvusite/ montroselite/ pascolite/
- High, T. D., 1970
uranium/ vanadium/ mines/ sandstone/ reports/
Dolores County/ Gunnison County/ Little Indian
property/ Mesa County/ Montrose County/ San
Miguel County/ igneous-metamorphic/ Colorado
Plateau/
- High, T. D., 1971
uranium/ vanadium/ mines/ sandstone/ Dolores
County/ Montrose County/ Saguache County/ Pitch
mine/ igneous-metamorphic/ San Miguel County/
Colorado Plateau/ Mesa County/
- High, T. D., 1972
uranium/ vanadium/ mines/ reports/ sandstone/
Montrose County/ San Miguel County/ Mesa County/
Saguache County/ igneous-metamorphic/ Pitch
mine/ Colorado Plateau/ Dolores County/
- High, T. D., 1973
Dolores County/ uranium/ vanadium/ sandstone/
mines/ reports/ Mesa County/ Montrose County/
San Miguel County/ Colorado Plateau/
- High, T. D., 1974
uranium/ vanadium/ Dolores County/ Mesa County/
reports/ Montrose County/ San Miguel County/
sandstone/ mines/ Colorado Plateau/
- High, T. D., 1975
uranium/ vanadium/ mapping/ geological studies/
drilling/ Dolores County/ Mesa County/ sandstone/
Colorado Plateau/ Montrose County/ San Miguel
County/ Rico-Argentine district/
- Hillebrand, W. F., and Ransome, F. L., 1900
carnotite/ vanadium/ minerals/ sandstone/ ore
deposits/ Colorado Plateau/ Montrose County/
San Miguel County/ analyses/
- Hillebrand, W. F., and Ransome, F. L., 1905
San Miguel County/ Montrose County/ Mesa County/
carnotite/ mineralogy/ vanadium/ sandstone/
Placerville district/ analyses/ Roc Creek area/
La Sal Creek area/ ore deposits/ Colorado Plateau/
- Hillebrand, W. F., Merwin, H. E., and Wright, F.
E., 1914
San Miguel County/ Montrose County/ Mesa County/
carnotite/ mineralogy/ vanadium/ sandstone/
Placerville district/ analyses/ Roc Creek area/
La Sal Creek area/ ore deposits/ hewettite/
metahewettite/ pascolite/ Colorado Plateau/ hydrous
calcium vanadates/
- Hillebrand, W. F., Wright, F. E., and Merwin, H.
E., 1913
calcium vanadates/ vanadium/ Peru/ Colorado/
Utah/ Montrose County/ San Miguel County/ sandstone/
Colorado Plateau/ minerals/ Mesa County/
- Hilpert, L. S., 1953
Colorado Plateau/ sandstone/ exploration/ Mesa
County/ Montrose County/ San Miguel County/
Dolores County/ ore deposits/ drilling/ Morrison
Formation/ Uravan district/ Yellow Cat mine/
Monogram Mesa/ Gateway district/
- Hilpert, L. S., and Boardman, R. L., 1953
Colorado Plateau/ sandstone/ Colorado/ Utah/
Mesa County/ San Miguel County/ Dolores County/
drilling/ exploration/ ore deposits/ Morrison
Formation/ Salt Wash Member/ Uravan district/
Gateway district/ Gypsum Valley district/ Montrose
County/
- Holmes, C. N., 1949
geology/ carnotite/ ore deposits/ Colorado Plateau/
sandstone/ San Miguel County/ Montrose County/
Mesa County/
- Holmes, C. N., 1950
sandstone/ Uncompahgre uplift/ tectonics/ sedimentary
rocks/ Mesozoic/ Chinle Formation/ Pitkin County/
Gunnison County/ Montrose County/ Mesa County/
Delta County/ Dolores County/ Dolores Formation/
Montezuma County/ Entrada Sandstone/ stratigraphy/
Morrison Formation/ Colorado Plateau/

- Holmes, R. U., and Harrer, C. M., 1952
Mesa County/ Montrose County/ copper/ sandstone/
Colorado Copper Company/ Colorado Plateau/
- Huleatt, W. P., Hazen, S. W., Jr., and Traver,
W. M., Jr., 1946
exploration/ vanadium/ Colorado/ Utah/ Colorado
Plateau/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/ Dolores County/
- Hunt, C. B., 1956
Cenozoic/ geology/ Colorado Plateau/ physiography/
stratigraphy/ Moffat County/ sandstone/ Delta
County/ Rio Blanco County/ Garfield County/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/
- Hunt, C. B., 1958
structural geology/ Igneous geology/ La Sal
Mountains/ Utah/ stratigraphy/ genesis/ economic
geology/ Mesa County/ Montrose County/ Colorado/
Igneous-metamorphic/ Colorado Plateau/
- Hurley, D. B., and Crew, M. E., 1953
drilling/ Colorado Plateau/ sandstone/ San Miguel
County/ drilling trends/ ore deposits/ reserves/
Montrose County/ Mesa County/
- Isachsen, Y. W., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/
Holiday Mesa/ Happy Jack mine/ Calyx mines/
Delta mine/ Cameron district/ copper/ vanadium/
sandstone/ geology/ ore deposits/ Montrose County/
San Miguel County/ Dolores County/ Big Indian
Wash - Lisbon Valley district/ Mesa County/
stratigraphy/ structure/
- Isachsen, Y. W., and Evensen, C. G., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/
Holiday Mesa/ Happy Jack mine/ Calyx mines/
Delta mine/ Cameron district/ copper/ vanadium/
Big Indian Wash-Lisbon Valley district/ sandstone/
geology/ ore deposits/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ stratigraphy/ structure/
- Isachsen, Y. W., Mitcham, T. W., and Wright, R.
J., 1954
uranium/ ore deposits/ exploration/ drilling/
Colorado Plateau/ sandstone/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/
- Isachsen, Y. W., Mitcham, T. W., and Wright, R.
J., 1955
Colorado Plateau/ ore deposits/ absolute age/
host rocks/ sandstone/ formational environments/
Entrada Sandstone/ Kayenta Formation/ Garfield
County/ Moffat County/ Rio Blanco County/ San
Miguel County/ Mesa County/ Montrose County/
Delta County/ Dolores County/ Montezuma County/
La Plata County/ Archuleta County/
- Ives, R. L., 1936
sandstone/ radium/ mining/ ore deposits/ San
Miguel County/ Colorado Plateau/ history/ Utah/
carnotite/ Montrose County/ Dolores County/
Mesa County/ Montezuma County/ uranium/ McElmo
Formation/
- Jensen, M. L., 1957
Colorado Plateau/ ore deposits/ mineralization/
sulfides/ uranium/ sandstone/ sulfur isotopes/
sulfur ratios/ genesis/ San Miguel County/ Montrose
County/ Mesa County/
- Jensen, M. L., 1958
Colorado Plateau/ Wyoming/ ore deposits/ genesis/
geochemistry/ sulfur isotopes/ sandstone/ uranium/
Montrose County/ San Miguel County/ Garfield
County/ Morrison Formation/ Entrada Sandstone/
- Jensen, M. L., 1971
carbon/ oxygen/ sulfur/ isotopes/ genesis/ sandstone/
uranium/ ore deposits/ Colorado Plateau/ Wyoming/
San Miguel County/ Montrose County/ Garfield
County/ Mesa County/
- Jobin, D. A., 1952
U.S. Vanadium Co. property/ sandstone/ Colorado
Plateau/ reserves/ ore deposits/ Dolores Bench/
Montrose County/ uranium/ vanadium/ Morrison
Formation/ Salt Wash Member/
- Jobin, D. A., 1952
U.S. Vanadium Co. property/ Colorado Plateau/
sandstone/ ore deposits/ reserves/ Dolores Bench/
Montrose County/ uranium/ vanadium/ Morrison
Formation/ Salt Wash Member/
- Jobin, D. A., 1952
Vanadium Corp. of America property/ Colorado
Plateau/ ore deposits/ sandstone/ reserves/
Dolores Bench/ King Solomon claim/ uranium/
vanadium/ Morrison Formation/ Salt Wash Member/
Montrose County/
- Jobin, D. A., 1953
Colorado Plateau/ exploration/ Dolores Bench/
ore deposits/ Montrose County/ sandstone/ geology/
reserves/ Morrison Formation/ Salt Wash Member/
uranium/ vanadium/ Uravan district/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/
uranium/ sediments/ sandstone/ ground water/
La Plata County/ Archuleta County/ Moffat County/
Rio Blanco County/ Garfield County/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ regional transmissivity/ Delta County/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/
regional transmissivity/ uranium/ sediments/
sandstone/ ground water/ La Plata County/ Archuleta
County/ Moffat County/ Rio Blanco County/ Montrose
County/ Garfield County/ Mesa County/ Delta
County/ San Miguel County/ Dolores County/ Montezuma
County/
- Jobin, D. A., 1962
Colorado Plateau/ ore deposits/ Morrison Formation/
transmissivity/ sandstone/ San Miguel County/
ground water/ conglomerate/ Chinle Formation/
Moffat County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/

- Jobin, D. A., and Schessler, T. E., 1953
Colorado Plateau/ ore deposits/ sandstone/ reserves/
exploration/ Atkinson Mesa/ Montrose County/
geology/ drilling/ uranium/ vanadium/ Morrison
Formation/ Uravan district/ Salt Wash Member/
- Joesting, H. R., and Byerly, P. E., 1953
Gateway district/ Sleeping Ute Mountain/ Uravan
district/ geophysics/ Colorado Plateau/ San
Miguel County/ Montrose County/ Mesa County/
Montezuma County/ Dolores County/ sandstone/
Slick Rock district/ vanadium/ uranium/ Egnar
district/ ore deposits/
- Joesting, H. R., and Byerly, P. E., 1956
Disappointment Valley/ Gypsum Valley/ Nucla
district/ Paradox district/ Uncompahgre Plateau/
Mesa County/ San Miguel County/ Uravan district/
ore deposits/ salt anticlines/ Disappointment
syncline/ geophysics/ sandstone/ Colorado Plateau/
geology/ Dolores County/ Montrose County/
- Joesting, H. R., and Byerly, P. E., 1956
aeromagnetism/ gravity profiles/ sandstone/
Colorado Plateau/ Colorado/ Utah/ Mesa County/
Montrose County/ Dolores County/ Uravan district/
geology/ ore deposits/ geophysics/ San Miguel
County/
- Joesting, H. R., and Byerly, P. E., 1958
Disappointment Valley/ Disappointment syncline/
Nucla district/ Paradox district/ Uncompahgre
Plateau/ Mesa County/ Montrose County/ San Miguel
County/ geophysics/ salt anticlines/ map/ ore
deposits/ sandstone/ Gypsum Valley district/
Uravan district/ geology/ Dolores County/ Colorado
Plateau/
- Joesting, H. R., and Case, J. E., 1960
salt anticlines/ structures/ Paradox basin/
Colorado/ Utah/ ore deposits/ sandstone/ Hermosa
Formation/ Paradox Member/ Montrose County/
Mesa County/ San Miguel County/ structural geology/
Colorado Plateau/
- Joesting, H. R., Case, J. E., and Plouff, D. F., 1966
Moab area/ Needles area/ Utah/ sandstone/ Mesa
County/ Montrose County/ geophysics/ stratigraphy/
geology/ magnetic survey/ gravity survey/ structural
geology/ San Miguel County/ Dolores County/
Colorado Plateau/
- Kahn, J. S., Groff, D. W., and Griffiths, J. C., 1953
lithology/ cores/ Colorado Plateau/ Morrison
Formation/ petrography/ Salt Wash Member/ sediments/
sandstone/ structure/ Mesa County/ Montrose
County/ San Miguel County/ shale/ siltstone/
Bull Canyon district/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and
others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/
Archuleta County/ Routt County/ Eagle County/
Pitkin County/ Gunnison County/ San Juan County/
Fremont County/ Huerfano County/ Ouray County/
Colorado Plateau/ ore deposits/ Moffat County/
Garfield County/ Mesa County/ Delta County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ La Plata County/ Larimer
- County/ Boulder County/ Jefferson County/ Park
County/ Rio Blanco County/ Igneous-metamorphic/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and
others, 1952
Front Range/ Jamestown district/ pitchblende/
bostonite/ Colorado Plateau/ sandstone/ coal/
shale/ Moffat County/ Garfield County/ La Plata
County/ Pitkin County/ Gunnison County/ San
Juan County/ Boulder County/ Jefferson County/
Park County/ Delta County/ Fremont County/ Rio
Blanco County/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ Archuleta County/ Routt County/ Huerfano
County/ Ouray County/ Larimer County/ Eagle
County/ Igneous-metamorphic/
- Keller, G. V., 1953
Colorado Plateau/ electric well logs/ Morrison
Formation/ Spud Patch area/ Montrose County/
San Miguel County/ geophysics/ petrophysical
studies/ sandstone/
- Keller, G. V., 1957
sandstone/ Morrison Formation/ electrical properties/
logging/ geophysics/ Colorado Plateau/ Spud
Patch area/ uranium/ vanadium/ ore deposits/
San Miguel County/ Montrose County/ Gramlich
claims/ La Sal Creek area/ Utah/ Uravan district/
Long Park district/
- Keller, G. V., 1959
electrical properties/ sandstone/ Morrison Formation/
geophysics/ resistivity/ porosity/ Dolores County/
Mesa County/ Montrose County/ San Miguel County/
Uravan district/ exploration/ Colorado Plateau/
- Keller, G. V., and Licastro, P. H., 1959
dielectric constant/ electrical resistivity/
sandstone/ Mesa County/ Montrose County/ San
Miguel County/ Miguel County/ Dolores County/
cores/ Colorado Plateau/ Morrison Formation/
- Keller, W. D., 1953
Colorado Plateau/ ore deposits/ mudstone/ clay
mineralogy/ uranium/ vanadium/ Morrison Formation/
San Miguel County/ Chinle Formation/ Montrose
County/ Mesa County/ Dolores County/ sandstone/
clay minerals/
- Keller, W. D., 1955
Colorado Plateau/ clay minerals/ mudstone/ Long
Park area/ Slick Rock district/ Uravan district/
Club mines/ mudstone/ ore deposits/ Utah/ uranium/
vanadium/ mineralogy/ Dolores County/ San Miguel
County/ Montrose County/ sandstone/
- Keller, W. D., 1956
clay studies/ Jurassic rocks/ mineralogy/ sandstone/
Montrose County/ glauconitic mica/ geochemistry/
Colorado Plateau/ Uravan district/ Morrison
Formation/
- Keller, W. D., 1956
clay studies/ Colorado Plateau/ Jurassic rocks/
mudstone/ analyses/ Montrose County/ Gunnison
County/ San Miguel County/ Sapinero/ Slick Rock
district/ sandstone/ Uravan district/ Morrison
Formation/

- Keller, W. D., 1957
glauconite/ mica/ Morrison Formation/ Lone Tree Mesa/ Montrose County/ analyses/ sandstone/ Colorado Plateau/
- Keller, W. D., 1957
clay/ Jurassic rocks/ Morrison Formation/ sandstone/ mineralogy/ mudstone/ Colorado Plateau/ Montrose County/
- Keller, W. D., 1962
clay minerals/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ mineralogy/ Mesa County/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/
- Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/
- Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ Archuleta County/ Ouray County/ Gunnison County/ Montrose County/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Moffat County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ regional structure/
- Kelley, V. C., 1959
structures/ fracture systems/ Colorado Plateau/ faults/ fractures/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Montezuma County/ Moffat County/ San Juan County/ Ouray County/ Delta County/ Gunnison County/ Garfield County/ La Plata County/ Rio Blanco County/
- Kelley, V. C., 1959
jointing/ Colorado Plateau/ sandstone/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/
- Kelley, V. C., and Clinton, N. J., 1960
Colorado Plateau/ sandstone/ fractures/ tectonics/ genesis/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/
- Kellogg, J. P., 1952
Colorado Plateau/ ore deposits/ exploration/ drilling/ Utah/ Colorado/ Arizona/ New Mexico/ uranium/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Salt Wash Member/ Tenderfoot Mesa/
- Kellogg, J. P., 1955
cost review/ exploration/ Colorado Plateau/ drilling/ statistics/ Mesa County/ drilling rates/ Utah/ sandstone/ Montrose County/
- Kelly, S. F., 1941
resources/ exploration/ geophysics/ ore deposits/ Montrose County/ sandstone/ vanadium/ uranium/ Colorado Plateau/ geology/
- Kelly, S. F., 1953
uranium/ vanadium/ geophysics/ exploration/ geology/ Colorado Plateau/ sandstone/ ore deposits/ Montrose County/
- Kerr, P. F., 1958
uranium/ ore deposits/ genesis/ alteration/ mineralogy/ Colorado Plateau/ Archuleta County/ conglomerate/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/
- Kerr, P. F., 1958
Colorado Plateau/ ore deposits/ genesis/ sandstone/ stratigraphy/ uranium/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ hydrothermal emplacement/ Dolores County/
- Kirkemo, Harold, 1954
Colorado Plateau/ sandstone/ exploration/ drilling/ Mesa County/ Montrose County/ San Miguel County/ Uravan district/ ore deposits/ Morrison Formation/ Colorado/ Utah/ Arizona/ Long Park district/ Dolores County/ Yellow Cat mine/ Slick Rock district/
- Kirkemo, Harold, 1954
ore deposits/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ exploration/ sandstone/ Monogram Mesa/ Uravan district/ Jo Dandy area/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Entrada Sandstone/ Moffat County/ Browns Park Formation/ Slick Rock district/ Long Park district/
- Kithli, K. L., and Davis, J. A., 1917
ore deposits/ carnotite/ resources/ Colorado Plateau/ production/ mining/ sandstone/ radium/ Montrose County/ San Miguel County/ Long Park district/

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- Kober, C. L., and Procter-Gregg, H. D., 1977
uranium/ alteration zones/ LANDSAT MSS Imagery/
Jefferson County/ Boulder County/ Mesa County/
Montrose County/ San Miguel County/ Colorado
Plateau/ Douglas County/ sandstone/ Front Range/
Igneous-metamorphic/
- Koerberlin, F. R., 1938
copper/ vanadium/ uranium/ silver/ Colorado/
Utah/ genesis/ ore deposits/ discussion/ Montrose
County/ Colorado Plateau/ Mesa County/ Montezuma
County/ San Miguel County/ Dolores County/ sandstone/
- Langan, L. V., and Ash, H. O., 1955
Colorado Plateau/ ore deposits/ uranium/ field
trip/ New Mexico/ Utah/ Colorado/ stratigraphy/
Morrison Formation/ sandstone/ Entrada Sandstone/
Dolores County/ Montezuma County/ Montrose County/
San Miguel County/
- Langford, F. F., 1974
uranium/ Australia/ supergene/ genesis/ Front
Range/ veins/ calcrete/ carnotite/ ore deposits/
Igneous-metamorphic/ sandstone/ Colorado Plateau/
Jefferson County/ Montrose County/ San Miguel
County/
- Langford, F. F., 1977
genesis/ surficial origin/ pitchblende/ ore
deposits/ uranium/ igneous-metamorphic/ surface
waters/ sandstone/ Colorado Plateau/ Front Range/
Jefferson County/ Montrose County/ San Miguel
County/
- Larsen, E. S., and Cross, C. W., 1956
geology/ petrology/ San Juan region/ Colorado
Plateau/ igneous-metamorphic/ Montrose County/
Ouray County/ San Miguel County/ Dolores County/
La Plata County/ Gunnison County/ Hinsdale County/
Archuleta County/ Mineral County/ Saguache County/
Conejos County/ Alamosa County/ San Juan County/
Montezuma County/ Rio Grande County/
- Leaming, G. F., 1971
economic development/ Arizona/ economic analysis/
New Mexico/ Utah/ Colorado/ economic conditions/
minerals/ mining/ fuels/ industries/ iron/ uranium/
silver/ copper/ titanium/ coal/ natural gas/
oil shale/ sandstone/ ore deposits/ Colorado
Plateau/ Montezuma County/ Dolores County/ San
Miguel County/ Montrose County/
- Lindberg, M., Weeks, A. D., Thompson, M E., and
others, 1962
hendersonite/ vanadium/ Colorado Plateau/ vanadates/
Paradox Valley/ Montrose County/ Morrison Formation/
sandstone/ San Miguel County/ Dolores County/
Montezuma County/ crystallography/ geochemistry/
- Lindgren, Waldemar, 1933
copper/ lead/ vanadium/ uranium/ sandstone/
shale/ carnotite/ roscoelite/ Colorado Plateau/
Dolores County/ San Miguel County/ Mesa County/
Montrose County/ Entrada Sandstone/ La Plata
Sandstone/ McElmo Formation/ genesis/ Gilpin
County/ igneous-metamorphic/ ore deposits/ Front
Range/
- Litsay, L. R., 1955
Montrose County/ Long Park area/ exploration/
drilling/ uranium/ reserves/ resources/ sandstone/
Morrison Formation/ vanadium/ Colorado Plateau/
- Livingston, G. W., 1945
vanadium/ Dolores Plateau area/ geography/ mining/
exploration/ mineralization/ West Paradox district/
Colorado Plateau/ sandstone/ Montrose County/
Gramlich group/ Vanadium Queen claim/ Little
Peter claim/ New Yellow Spot claim/ Radium Cycle
claim/ Valley View claim/ Waggoner group/ ore
deposits/
- Madsen, J. W., 1953
Colorado Plateau/ ore deposits/ reserves/ sandstone/
drilling/ exploration/ Rambler group/ Montrose
County/ Morrison Formation/ Salt Wash Member/
uranium/ vanadium/ Gypsum Valley district/
- Maise, C. R., 1953
Colorado Plateau/ ore deposits/ genesis/ ground
water/ mineralization/ sandstone/ Jurassic/
syncline/ aquifers/ experimental simulation/
Morrison Formation/ Salt Wash Member/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/
- Manger, G. E., 1953
drilling/ coring/ original state core studies/
Montrose County/ Uravan district/ sandstone/
Morrison Formation/ Salt Wash Member/ Colorado
Plateau/ geology/
- Manger, G. E., 1953
drilling/ coring/ original state core studies/
Morrison Formation/ Salt Wash Member/ sandstone/
Colorado Plateau/ Montrose County/ geology/
- Manger, G. E., 1954
Uravan district/ ore deposits/ cores/ exploration/
Long Park district/ Montrose County/ sandstone/
carnotite/ spring water/ Henry Clay mine/ Colorado
Plateau/ Morrison Formation/ original state
core studies/
- Manger, G. E., 1954
Long Park district/ sandstone/ carnotite/ coring/
original state core studies/ drilling/ Montrose
County/ Morrison Formation/ Salt Wash Member/
Colorado Plateau/
- Manger, G. E., 1955
cores/ drilling/ original state core studies/
Bitter Creek mines/ Montrose County/ sandstone/
Colorado Plateau/ Long Park district/
- Manger, G. E., 1955
Utah/ Colorado/ sandstone/ Montrose County/
cores/ drilling/ exploration/ Lisbon Valley/
Colorado Plateau/
- Manger, G. E., and Gates, G. L., 1953
Colorado Plateau/ sandstone/ cores/ original
state core studies/ Montrose County/
- Manger, G. E., Gates, G. L., and Cadigan, R. A., 1955
Colorado Plateau/ cores/ uranium/ sandstone/
original state core studies/ Montrose County/
ore deposits/

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- Manger, G. E., Gates, G. L., and Cadigan, R. A., 1957
Colorado/ Utah/ ore deposits/ mineralization/
chemical properties/ Montrose County/ cores/
drilling/ sandstone/ Morrison Formation/ Colorado
Plateau/ physical properties/ Salt Wash Member/
- Manger, G. E., Gates, G. L., and Cadigan, R. A., 1975
chemical properties/ drill cores/ physical properties/
exploration/ uranium/ ore deposits/ Long Park
district/ Montrose County/ sandstone/ drilling/
host rocks/ Colorado Plateau/
- Marshall, C. H., 1959
Montrose County/ Delta County/ photogeologic
map/ Delta quadrangle/ sandstone/ Colorado Plateau/
- Marshall, C. H., 1959
Ouray County/ Montrose County/ photogeologic
map/ Norwood-1 quadrangle/ sandstone/ Colorado
Plateau/
- Mastrovich, A. M., 1945
vanadium/ uranium/ lithology/ stratigraphy/
geology/ exploration/ sandstone/ carbonaceous
materials/ mineralization/ ore deposits/ San
Miguel River district/ San Miguel Plateau area/
Colorado Plateau/ San Miguel County/ Montrose
County/ Entrada Sandstone/
- Mauger, R. L., 1967
Utah/ Colorado Plateau/ isotopes/ age dating/
ore deposits/ minerals/ Lisbon Valley/ sandstone/
Montrose County/
- Maxwell, J. C., 1977
San Juan Mountains/ geology/ Archuleta County/
hydrogeochemistry/ stream sediments/ stream
waters/ ground waters/ Storm King Mountain/
Vallecito Creek/ Montrose County/ Gunnison County/
San Miguel County/ Dolores County/ Montezuma
County/ La Plata County/ San Juan County/ Ouray
County/ Hinsdale County/ Mineral County/
- McKay, E. J., 1951
Colorado Plateau/ ore deposits/ Mesa County/
Montrose County/ Uravan district/ Gateway district/
ore guides/ exploration/ sandstone/ Morrison
Formation/ Salt Wash Member/ carnotite/
- McKay, E. J., 1953
Carpenter Ridge/ Carpenter Flats/ Martin Mesa/
Uravan district/ Montrose County/ Red Canyon
quadrangle/ carnotite/ Dolores mines/ Raven
mine/ Shamrock mine/ sandstone/ Morrison Formation/
Salt Wash Member/ stratigraphy/ Brushy Basin
Member/ Mesa County/ Colorado Plateau/ ore deposits/
geology/
- McKay, E. J., 1953
Blue Mesa/ Uravan district/ Mesa County/ Montrose
County/ sandstone/ Morrison Formation/ Salt
Wash Member/ Utah/ stratigraphy/ Colorado Plateau/
carnotite/ Gateway district/ ore deposits/ exploration/
geology/ genesis/ localization/ ore guides/
- McKay, E. J., 1953
Uravan district/ Montrose County/ ore guides/
carnotite/ Star No. 1 claim/ Wright mines/ theories
of origin/ sandstone/ Morrison Formation/ Salt
Wash Member/ stratigraphy/ Brushy Basin Member/
Burro Canyon Formation/ geology/ Colorado Plateau/
ore deposits/ Wingate Sandstone/ Mesa County/
Atkinson Creek quadrangle/
- McKay, E. J., 1954
Montrose County/ Mesa County/ Colorado Plateau/
Morrison Formation/ Salt Wash Member/ sandstone/
Dolores mines/ Shamrock mines/ Raven claim/
Martin Mesa/ Carpenter Flats/ carnotite/ geology/
ore deposits/ Red Canyon quadrangle/
- McKay, E. J., 1955
Montrose County/ Mesa County/ Colorado Plateau/
Morrison Formation/ Salt Wash Member/ sandstone/
Dolores mines/ Shamrock mines/ Raven claim/
Martin Mesa/ Carpenter Flats/ carnotite/ geology/
ore deposits/ Red Canyon quadrangle/
- McKay, E. J., 1955
Montrose County/ Mesa County/ Atkinson Creek
quadrangle/ Colorado Plateau/ Morrison Formation/
Salt Wash Member/ sandstone/ Wright mines/ Star
No. 1 claim/ geology/ ore deposits/
- McKay, E. J., 1955
Colorado/ Utah/ Gateway district/ ore deposits/
exploration/ Jurassic/ Morrison Formation/ Uravan
district/ Salt Wash Member/ sandstone/ Mesa
County/ Montrose County/ Colorado Plateau/ geology/
- McKay, E. J., and Jobin, D. A., 1954
Montrose County/ Mesa County/ Atkinson Creek
quadrangle/ Colorado Plateau/ Morrison Formation/
Salt Wash Member/ sandstone/ Wright mines/ Star
No. 1 claim/ geology/ ore deposits/
- McKelvey, V. E., 1953
Colorado Plateau/ Dolores County/ Mesa County/
exploration/ veins/ sandstone/ igneous-metamorphic/
pegmatites/ geobotany/ Front Range/ Gilpin County/
Clear Creek County/ coal/ Montrose County/ San Miguel
County/ ore deposits/ phosphates/ shale/
placers/
- McKelvey, V. E., 1953
veins/ Dolores County/ Mesa County/ exploration/
sandstone/ igneous-metamorphic/ Front Range/
pegmatites/ geobotany/ Gilpin County/ Clear
Creek County/ coal/ Montrose County/ San Miguel
County/ ore deposits/ Colorado Plateau/ phosphates/
shale/ placers/
- McKelvey, V. E., 1954
Dolores County/ Mesa County/ exploration/ carnotite/
veins/ sandstone/ igneous-metamorphic/ pegmatites/
geobotany/ Front Range/ Gilpin County/ Clear
Creek County/ coal/ Montrose County/ San Miguel
County/ ore deposits/ veins/ Colorado Plateau/
phosphates/ shale/ placers/
- McKelvey, V. E., 1955
ore deposits/ exploration/ veins/ bituminous
substances/ coal/ sandstone/ phosphates/ United
States/ Dolores County/ Mesa County/ Gilpin
County/ igneous-metamorphic/ Clear Creek County/
Montrose County/ San Miguel County/ Front Range/
Colorado Plateau/

- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1955
genesis/ uranium/ ore deposits/ veins/ bituminous substances/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ Montrose County/ San Miguel County/ Mesa County/ igneous-metamorphic/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1955
veins/ bituminous substances/ genesis/ uranium/ ore deposits/ igneous-metamorphic/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ San Miguel County/ Montrose County/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ ore deposits/ migmatites/ sandstone/ shale/ igneous-metamorphic/ Colorado/ Colorado Plateau/ San Juan County/ San Miguel County/ Jefferson County/ Montrose County/ Old Leyden mine/ coal/ Gilpin County/ Clear County/ uranium/ Front Range/ genesis/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ Colorado/ genesis/ uranium/ ore deposits/ pegmatites/ migmatites/ San Miguel County/ sandstone/ coal/ shale/ phosphorites/ igneous-metamorphic/ Front Range/ Colorado Plateau/ San Juan County/ replacement/ Jefferson County/ Montrose County/ Old Leyden mine/ Mesa County/ Gilpin County/ Clear Creek County/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/
- Mellin, R. E., 1955
bibliography/ annotated/ geology/ sandstone/ uranium/ ore deposits/ United States/ Colorado Plateau/ Morrison Formation/ Shinarump Member/ Chinle Formation/ Colorado/ Utah/ Montrose County/ Mesa County/ San Miguel County/ Missouri/ New Mexico/ Wyoming/
- Mellin, R. E., 1957
bibliography/ annotated/ sandstone/ uranium/ United States/ ore deposits/ Colorado Plateau/ geology/ Morrison Formation/ Colorado/ Utah/ Missouri/ New Mexico/ Wyoming/ Montrose County/ Mesa County/ San Miguel County/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Front Range/ exploration/ Morrison Formation/ phosphates/ shale/ sandstone/ igneous-metamorphic/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ Dolores County/ Gilpin County/ Clear Creek County/ Garfield County/ Boulder County/
- Merritt, P. L., 1950
uranium/ exploration/ Colorado Plateau/ sandstone/ Morrison Formation/ Entrada Sandstone/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Caribou district/ igneous-metamorphic/ Montrose County/ Clear Creek County/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Clear Creek County/ Caribou district/ igneous-metamorphic/
- Metal Mining Fund Board, 1961
vanadium/ mineralogy/ geochemistry/ Colorado Plateau/ sandstone/ uranium/ Rifle Creek district/ roscoelite/ San Miguel County/ Montrose County/ Mesa County/ Garfield County/ Placerville district/
- Metzger, O. H., 1946
minerals/ Colorado/ Utah/ ore deposits/ mineralization/ geography/ stratigraphy/ mining/ data/ Beaver Creek Mesa district/ Green River Desert area/ Plateau/ sandstone/ uranium/ vanadium/ Mesa County/ Montrose County/
- Miesch, A. T., 1958
Colorado Plateau/ ore deposits/ exploration/ chemical composition/ size determination/ Jurassic/ sandstone/ ore guides/ uranium/ statistics/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ Morrison Formation/
- Miesch, A. T., 1958
Colorado Plateau/ ore deposits/ exploration/ size determination/ sandstone/ Jurassic/ Morrison Formation/ ore guides/ uranium/ statistics/ San Miguel County/ Montrose County/ Mesa County/ chemical composition/ Dolores County/
- Miesch, A. T., 1963
Colorado Plateau/ ore deposits/ elements/ geology/ Morrison Formation/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/ Dolores County/
- Miesch, A. T., and Shoemaker, E. M., 1957
uranium/ Colorado Plateau/ elements/ sandstone/ San Miguel County/ Montrose County/
- Miesch, A. T., and Shoemaker, E. M., n.d.
Bull Canyon quadrangle/ Montrose County/ Colorado Plateau/ elements/ sandstone/ uranium/ ore deposits/
- Miesch, A. T., Shoemaker, E. M., and Newman, W. L., 1958
elements/ Colorado Plateau/ sandstone/ Chinle Formation/ analyses/ uranium/ vanadium/ Morrison Formation/ Uravan district/ statistics/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/

- Miesch, A. T., Shoemaker, E. M., Newman, W. L., and others, 1959
chemical composition/ ore guides/ ore deposits/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ sandstone/ analyses/ statistics/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ geology/
- Miesch, A. T., Shoemaker, E. M., Newman, W. L., and others, 1960
Colorado Plateau/ ore deposits/ sandstone/ ore guides/ deposit size/ Jurassic/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ uranium/ chemical composition/ Morrison Formation/
- Milkey, R. G., 1952
Colorado Plateau/ age determination/ analyses/ methods/ carnotite/ age studies/ mineralogy studies/ sandstone/ San Miguel County/ Montrose County/
- Miller, G. B., 1946
ore deposits/ vanadium/ mineralization/ geography/ stratigraphy/ mining/ data/ Carpenter Ridge district/ Dolores Plateau area/ Colorado Plateau/ Montrose County/ sandstone/ uranium/
- Millgate, M. L., 1953
Entrada Sandstone/ Summerville Formation/ Judy claims/ Joker group/ Gypsy Queen claims/ Miracle claims/ Gypsum Valley district/ Montrose County/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/
- Minerals Map Company, 1956
Colorado Plateau/ ore deposits/ maps/ sandstone/ Montrose County/ Dolores County/ Mesa County/ Delta County/ Garfield County/ Moffat County/ San Miguel County/
- Moore, R. B., 1913
ore deposits/ carnotite/ Colorado/ Utah/ mining/ uranium/ radium/ vanadium/ North Carolina/ marketing/ San Miguel County/ Montrose County/ Mesa County/ Gilpin County/ pitchblende/ Huerfano County/ Colorado Plateau/ Front Range/ sandstone/
- Motica, J. E., 1968
Uravan district/ genesis/ solutions/ Morrison Formation/ precipitation/ sandstone/ lenses/ Jurassic/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ geology/ uranium/ vanadium/ ore deposits/ Colorado Plateau/
- Mullens, T. E., and Freeman, V. L., 1952
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Colorado/ uranium/ vanadium/ Mesa County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Utah/ Arizona/ New Mexico/ San Miguel County/ Morrison Formation/
- Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/
- Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/
- Narten, P. F., Crawford, J. E., and Butler, A. P., Jr., 1951
Clear Creek County/ Garfield County/ Jefferson County/ Montrose County/ Rio Blanco County/ Dakota Sandstone/ Mesa County/ Fountain Formation/ Green River Formation/ Laramie Formation/ Hermosa Formation/ Paradox Member/ shales/ sandstone/ Front Range/ Colorado Plateau/
- Nash, A. L., 1953
Utah/ Colorado/ Montrose County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ Chinle Formation/ Mossback Member/ Cutler Formation/ San Miguel County/ Skeln Mesa/ reconnaissance/ sandstone/ siltstone/ shale/ stratigraphy/ geology/ airborne surveying/
- Nash, A. L., 1953
airborne surveying/ San Miguel County/ Utah/ Colorado/ geology/ Salt Wash Member/ stratigraphy/ Montrose County/ ore deposits/ Empire group/ Colorado Plateau/ sandstone/ conglomerate/ Morrison Formation/ Shinarump Member/ Cutler Formation/ Lisbon Valley district/ Indian Creek area/ Skeln Mesa/
- Newman, W. L., 1951
Long Park area/ Montrose County/ reserves/ resources/ Colorado Plateau/ ore deposits/ sandstone/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Newman, W. L., 1957
Colorado Plateau/ element distribution/ sedimentary rocks/ igneous-metamorphic/ sandstone/ uranium/ vanadium/ Morrison Formation/ Chinle Formation/ Uravan district/ San Miguel County/ Jo Dandy area/ Montrose County/ mudstone/
- Newman, W. L., 1959
Colorado Plateau/ ore deposits/ sandstone/ resources/ indicators/ ore guides/ chemical composition/ exploration/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/
- Newman, W. L., 1962
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ sandstone/ mudstone/ limestone/ Uravan district/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/

- Newman, W. L., and Elston, D. P., 1957
element distribution/ Salt Wash Member/ Morrison Formation/ Jo Dandy area/ Montrose County/ sandstone/ stratigraphy/ correlation/ mudstone/ Colorado Plateau/
- Newman, W. L., and Elston, D. P., 1959
elements/ Salt Wash Member/ Morrison Formation/ Jo Dandy area/ Montrose County/ sandstone/ mudstone/ Colorado Plateau/
- Niñinger, R. D., and Wentzel, Volkmar, 1954
exploration/ ore deposits/ Colorado Plateau/ Uruvan district/ Dolores County/ San Miguel County/ Montrose County/ sandstone/
- Noble, E. A., 1959
Colorado Plateau/ uranium belts/ genesis/ ore deposits/ Uruvan district/ Lisbon Valley district/ San Juan basin/ Colorado/ New Mexico/ Utah/ Mesa County/ San Miguel County/ Montrose County/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ Montezuma County/
- Noble, E. A., 1960
Colorado Plateau/ ore deposits/ uranium belts/ genesis/ Uruvan district/ Lisbon Valley district/ San Juan basin/ Colorado/ New Mexico/ Utah/ Mesa County/ San Miguel County/ Montrose County/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ Chinle Formation/ Montezuma County/
- Notestein, F. B., 1918
ore deposits/ geochemistry/ genesis/ experimental studies/ uranium/ vanadium/ Colorado Plateau/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/
- Olson, J. C., Hedlund, D. C., and Hansen, W. R., 1968
Powderhorn district/ Black Canyon region/ Gunnison County/ Montrose County/ volcanics/ stratigraphy/ petrology/ Tertiary/ Igneous-metamorphic/ Colorado Plateau/
- Osterwald, F. W., 1965
ore deposits/ genesis/ veins/ mining districts/ structural controls/ Moffat County/ pitchblende/ conglomerate/ Front Range/ Igneous-metamorphic/ sandstone/ Jefferson County/ Boulder County/ Montrose County/ Clear Creek County/ Gilpin County/ Saguache County/ Fremont County/
- Page, L. R., Stocking, H. E., and Smith, H. B., compilers, 1956
Colorado Plateau/ Front Range/ Gunnison County/ limestone/ Montrose County/ Jefferson County/ arkosa/ sandstone/ shale/ geology/ uranium/ thorium/ exploration/ igneous-metamorphic/ San Miguel County/ geochemistry/ mineralogy/ conglomerate/
- Paist, D. A., 1970
vanadium/ alloys/ compounds/ San Miguel County/ metallurgy/ history/ ore deposits/ geology/ sandstone/ Colorado Plateau/ Montrose County/ Mesa County/ Garfield County/ Uruvan district/ Placerville district/ Rifle district/ carnotite/ roscoelite/
- Phillips, A. H., 1904
radium/ carnotite/ Montrose County/ San Miguel County/ Mesa County/ Colorado/ Utah/ uranium/ vanadium/ chemistry/ concentration/ sandstone/ Colorado Plateau/
- Phoenix, D. A., 1951
ground water/ Colorado Plateau/ analyses/ Colorado/ Utah/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Colorado Plateau/ Morrison Formation/
- Phoenix, D. A., 1952
Atkinson Mesa/ Calamity Mesa/ Slick Rock district/ Montrose County/ San Miguel County/ ground water/ carnotite/ sandstone/ Morrison Formation/ stratigraphy/ Brushy Basin Member/ Recapture Member/ Westwater Canyon Member/ Colorado Plateau/ Mesa County/ Salt Wash Member/
- Phoenix, D. A., 1955
Mesa County/ Montrose County/ San Miguel County/ ground water/ analyses/ Utah/ uranium/ vanadium/ ore deposits/ Colorado Plateau/ Morrison Formation/ sandstone/
- Phoenix, D. A., 1958
Colorado/ Utah/ ore deposits/ sandstone/ conglomerate/ Jurassic/ Morrison Formation/ Colorado Plateau/ uranium/ Brushy Basin Member/ stratigraphy/ Mesa County/ Montrose County/ San Miguel County/
- Phoenix, D. A., 1959
Colorado Plateau/ Colorado/ Morrison Formation/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ ground water/ analyses/ chemistry/ Utah/
- Phoenix, David A., 1955
Mesa County/ Montrose County/ San Miguel County/ theories of origin of sandstone-type uranium deposits/ uranium deposits/ host rock: sandstone/ Morrison Formation/ stratigraphy of Morrison Formation/ ground water studies/
- Pommer, A. M., 1956
oxidation potential/ Colorado Plateau/ uranium/ vanadium/ sandstone/ Salt Wash Member/ Morrison Formation/ Utah/ Arizona/ Colorado/ New Mexico/ Montrose County/ Mesa County/ Dolores County/ Montezuma County/ Jo Dandy area/ ore deposits/ genesis/ Woody material/ San Miguel County/
- Pommer, A. M., 1956
Colorado Plateau/ Montrose County/ Jo Dandy mines/ Mineral Joe mine/ genesis/ uranium/ oxidation potential/ vanadium/ woody material/ organics/ geochemistry/ sandstone/ ore deposits/
- Pommer, A. M., 1958
Colorado Plateau/ ore deposits/ uraninite/ genesis/ simulation/ uranium/ Montrose County/ analyses/ coal/ sandstone/
- Poole, F. G., and Williams, G. A., 1956
ore guides/ exploration/ uranium/ vanadium/ sandstone/ conglomerate/ transportation direction/ Morrison Formation/ Chinle Formation/ Entrada Sandstone/ sediments/ Mesa County/ Delta County/

- Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Triassic/ Colorado Plateau/ San Miguel County/
- Poole, F. G., and Williams, G. A., 1956
Colorado Plateau/ ore guides/ transportation direction/ Morrison Formation/ Mesa County/ sediments/ Entrada Sandstone/ Montrose County/ Montezuma County/ Dolores County/ Montezuma County/ La Plata County/ Triassic/ exploration/ uranium/ vanadium/ sandstone/ conglomerate/ County/ Triassic/
- Puffett, W. P., and Weir, G. W., 1959
Utah/ Colorado/ Lisbon Valley/ sandstone/ North Alice mine/ Chinle Formation/ Cutler Formation/ Montrose County/ Colorado Plateau/ geology/ mapping/ Big Indian district/
- Ransome, F. L., and Hillebrand, W. F., 1905
ore deposits/ carnotite/ accessory minerals/ sandstone/ Placerville district/ San Miguel County/ Roc Creek area/ Montrose County/ Mesa County/ uranium/ vanadium/ genesis/ analyses/ Colorado Plateau/ veins/
- Reinhardt, E. V., 1952
Colorado Plateau/ ore deposits/ ore guides/ uranium/ vanadium/ copper/ hydrocarbons/ limestone/ sandstone/ Morrison Formation/ Salt Wash Member/ Entrada Sandstone/ Shinarump Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/
- Reinhardt, E. V., 1963
Colorado Plateau/ Uravan district/ structure/ ore deposits/ genesis/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/
- Riley, L. B., 1954
selenium/ uranium/ Colorado Plateau/ Uravan district/ ore deposits/ sandstone/ San Miguel County/ Montrose County/
- Riley, L. B., and Owens, J. P., 1957
Saguache County/ Pitch mine/ Cashin mine/ Montrose County/ Colorado Plateau/ mineralogy/ sandstone/ veins/ igneous-metamorphic/
- Riley, L. B., and Shoemaker, E. M., 1952
Colorado Plateau/ ore deposits/ elements/ Mesa County/ Montrose County/ San Miguel County/ spectrographic analyses/ sandstone/
- Roach, C. H., 1953
Colorado Plateau/ reserves/ exploration/ sandstone/ uranium/ vanadium/ Morrison Formation/ Spring Creek Mesa area/ Montrose County/ ore deposits/ Salt Wash Member/
- Roach, C. H., 1953
Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Spring Creek Mesa area/ Montrose County/
- Roach, C. H., 1953
Colorado Plateau/ reserves/ exploration/ ore deposits/ sandstone/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Spring Creek Mesa area/ Montrose County/
- Roach, C. H., 1954
Spring Creek Mesa area/ ore deposits/ Colorado Plateau/ exploration/ stratigraphy/ ore guides/ Montrose County/ drilling/ sandstone/ Morrison Formation/ Salt Wash Member/ minerals/ coffinite/ corvusite/ fernandinite/ montroselite/ melanovanadite/ pitchblende/
- Roach, C. H., and Alvord, D. C., 1970
maps/ drilling/ exploration/ sandstone/ San Miguel bench area/ Uravan district/ Montrose County/ Colorado Plateau/ Spring Creek Mesa area/
- Roach, C. H., and Thompson, M. E., 1955
Bull Canyon district/ Montrose County/ minerals/ coffinite/ digenite/ montroselite/ uraninite/ Peanut mine/ sandstone/ sedimentary structures/ ore localization/ Morrison Formation/ stratigraphy/ uranium/ oxidation/ Colorado Plateau/ ore deposits/
- Roach, C. H., and Thompson, M. E., 1959
Bull Canyon district/ Montrose County/ minerals/ coffinite/ digenite/ montroselite/ uraninite/ Peanut mine/ sandstone/ sedimentary structures/ ore localization/ stratigraphy/ uranium/ oxidation/ Colorado Plateau/ ore deposits/ Morrison Formation/
- Roach, C. H., and Wallace, R. M., 1957
Montrose County/ San Miguel County/ sandstone/ Bull Canyon district/ uranium/ ore deposits/ genesis/ Colorado Plateau/
- Robeck, R. C., 1960
Colorado/ Utah/ ore deposits/ geology/ maps/ structure/ oil/ gas/ sandstone/ Colorado Plateau/ geology/ Lisbon Valley/ uranium/ Montrose County/ San Miguel County/
- Rosenzweig, A., Gruner, J. W., and Gardiner, L., 1954
Colorado Plateau/ uraninite/ characteristics/ Triassic/ Jurassic/ bituminous substances/ uranium/ sandstone/ paragenesis/ ore deposits/ Montrose County/ San Miguel County/ Placerville district/ La Sal Creek district/ Chinle Formation/
- Ross, Malcolm, 1958
vanadium/ minerals/ crystallography/ x-ray analyses/ Colorado Plateau/ Montrose County/ sandstone/ mineralogy/ electron diffraction/
- Ross, Malcolm, 1959
vanadium/ minerals/ crystallography/ x-ray analyses/ Colorado Plateau/ Montrose County/ sandstone/ mineralogy/ electron diffraction/
- Ruckmick, J. C., 1953
heavy minerals/ simulation/ ore deposits/ placers/ gravels/ sandstone/ Mesa County/ Montrose County/ Dolores County/ Montezuma County/ samarskite/ Shinarump Member/ conglomerate/ Colorado Plateau/ fluvial deposits/ San Miguel County/

- Russell, W. L., and Scherbatskoy, S. A., 1951
Colorado Plateau/ ore deposits/ genesis/ exploration/
gamma-ray detectors/ sandstone/ Front Range/
Instrumentation/ Morrison Formation/ Salt Wash
Member/ Gilpin County/ Clear Creek County/ Boulder
County/ San Miguel County/ Montrose County/
Igneous-metamorphic/ Entrada Sandstone/
- Sample, R. D., Albee, H. F., and Stephens, H. G.,
1953
Montrose County/ claim map/ Bull Canyon quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., Albee, H. F., and Stephens, H. G.,
1953
Montrose County/ San Miguel County/ claim map/
Anderson Mesa quadrangle/ sandstone/ Colorado
Plateau/
- Sample, R. D., Albee, H. F., and Stephens, H. G.,
1953
Montrose County/ claim map/ Red Canyon quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1951
Montrose County/ claim map/ Atkinson Creek quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1951
Montrose County/ San Miguel County/ claim map/
Bull Canyon quadrangle/ sandstone/ Colorado
Plateau/
- Sample, R. D., and Albee, H. F., 1951
Montrose County/ claim map/ Davis Mesa quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1951
Montrose County/ San Miguel County/ claim map/
Naturita NW quadrangle/ sandstone/ Colorado
Plateau/
- Sample, R. D., and Albee, H. F., 1952
Montrose County/ claim map/ Roc Creek quadrangle/
sandstone/ veins/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1952
Montrose County/ claim map/ Uravan quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1952
Montrose County/ claim map/ Paradox quadrangle/
sandstone/ Colorado Plateau/
- Saum, N. M., and Link, J. M., 1969
uranium/ ore deposits/ exploration/ history/
Front Range/ Schwartzwalder mine/ Jefferson
County/ Igneous-metamorphic/ geochemistry/ genesis/
hydrothermal deposits/ sandstone/ Morrison Formation/
Uravan district/ Montrose County/ San Miguel
County/ Mesa County/ New Mexico/ Utah/ Wyoming/
diatremes/ lignites/ phosphates/ remote sensing/
Colorado Plateau/
- Schultz, L. G., 1963
clay minerals/ Moenkopi Formation/ Chinle Formation/
x-ray diffraction/ Ouray County/ Rio Blanco
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ Colorado Plateau/
sandstone/ La Plata County/
- Senftle, F. E., Stieff, L. R., Cuttitta, Frank,
and others, 1956
U-235/ U-238/ sandstone/ isotopes/ radium/ Colorado
Plateau/ ore deposits/ Montrose County/
- Senftle, F. E., Stieff, L. R., Cuttitta, Frank,
and others, 1957
U-238/ U-235/ ore deposits/ Colorado Plateau/
Isotopes/ radium/ Montrose County/ sandstone/
- Shawe, D. R., 1962
Colorado Plateau/ ore localization/ Uravan district/
sedimentation/uranium/ vanadium/ Morrison Formation/
sandstone/ carbonaceous materials/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ ore deposits/
- Shawe, D. R., 1966
uranium/ vanadium/ roll fronts/ tabular ore/
ore deposits/ zoning/ elements/ Colorado Plateau/
Montrose County/ Garfield County/ sandstone/
- Shawe, D. R., 1969
ore deposits/ minerals/ Utah/ Uravan district/
exploration/ Montrose County/ San Miguel County/
Dolores County/ uranium/ vanadium/ sandstone/
Morrison Formation/ Colorado Plateau/
- Shawe, D. R., and Granger, H. C., 1965
uranium ore/ rolls/ Rifle district/ Uravan district/
Colorado Plateau/ sandstone/ Entrada Sandstone/
Garfield County/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Morrison
Formation/
- Shoemaker, E. M., 1950
minerals/ carnotite/ Colorado Plateau/ geology/
Paradox district/ Uravan district/ Jo Dandy
area/ exploration/ drilling/ Jo Dandy mines/
Monogram mines/ Opera Box mines/ Thunderbolt
mines/ Montrose County/ production/ reserves/
resources/ sandstone/ ore deposits/ Morrison
Formation/ Salt Wash Member/ uranium/ vanadium/
- Shoemaker, E. M., 1951
structure/ Sinbad Valley anticline/ Fisher Valley
anticline/ salt anticlines/ Mesa County/ Montrose
County/ sandstone/ Utah/ Colorado Plateau/
- Shoemaker, E. M., 1952
Mesa County/ Montrose County/ Sinbad Valley
anticline/ Fisher Valley anticline/ salt anticlines/
sandstone/ Utah/ Colorado Plateau/
- Shoemaker, E. M., 1954
Utah/ Colorado/ New Mexico/ Arizona/ Colorado
Plateau/ structural features/ Uncompahgre uplift/
tectonics/ San Miguel County/ Montrose County/
Dolores County/ Montezuma County/ Delta County/
diatremes/ La Plata County/ sandstone/ geology/
guidebook/ Mesa County/ Igneous-metamorphic/
- Shoemaker, E. M., 1954
Montrose County/ Roc Creek quadrangle/ Colorado
Plateau/ sandstone/ geology/

- Shoemaker, E. M., 1955
Montrose County/ Roc Creek quadrangle/ stratigraphy/ Colorado Plateau/ Uravan district/ structure/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Wingate Sandstone/ Kayenta Formation/ Entrada Sandstone/ Rajah mine/ Radium Cycle mine/ Carpenter Ridge/ Carpenter Flats/ copper/ silver/ shear zones/ geology/ map/
- Shoemaker, E. M., 1956
Montrose County/ Roc Creek quadrangle/ Colorado Plateau/ Uravan district/ stratigraphy/ structure/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Wingate Sandstone/ Kayenta Formation/ Radium Cycle mine/ Carpenter Ridge/ copper/ silver/ shear zones/ geology/ map/ Chinle Formation/ Entrada Rajah mine/ Carpenter Flats/
- Shoemaker, E. M., 1956
structural features/ Colorado Plateau/ ore deposits/ veins/ Moffat County/ Rio Blanco County/ La Plata County/ uranium/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ San Juan County/ Ouray County/ sandstone/ Montezuma County/ Dolores County/ Archuleta County/
- Shoemaker, E. M., and Luedke, R. G., 1952
Colorado Plateau/ map/ uranium/ ore deposits/ sandstone/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Ouray County/ Montezuma County/ La Plata County/ Garfield County/
- Shoemaker, E. M., and Newman, W. L., 1957
Moenkopi Formation/ salt anticlines/ sandstone/ Montrose County/ San Miguel County/ Dolores County/ geology/ Colorado Plateau/ Utah/ Mesa County/
- Shumway, G. L., 1970
uranium industry/ Colorado Plateau/ history/ sandstone/ San Miguel County/ Dolores County/ Montrose County/
- Smith, C. T., 1946
geology/ geologic ore deposits/ Montrose County/ vanadium/ stratigraphy/ exploration/ uranium/ mineralization/ Uravan district/ stratigraphy/ San Miguel Plateau/ San Miguel County/ sandstone/ Mesa County/ Colorado Plateau/
- Smith, C. T., 1955
Colorado Plateau/ ore deposits/ uranium/ San Miguel County/ Montrose County/ Mesa County/ sandstone/ geology/
- Stager, H. K., 1952
Colorado Plateau/ drilling/ sandstone/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ reserves/ La Sal Creek district/ Paradox Valley district/
- Stager, H. K., 1953
Gypsum Valley district/ La Sal Creek area/ Montrose County/ San Miguel County/ Colorado Plateau/ drilling/ exploration/ ore deposits/ reserves/ sandstone/ uranium/ vanadium/
- Stephens, H. G., 1950
Long Park area/ minerals/ carnotite/ geology/ ore deposits/ Uravan district/ Mesa County/ Montrose County/ exploration/ drilling/ reserves/ resources/ sandstone/ Salt Wash Member/ Colorado Plateau/ uranium/ vanadium/ Morrison Formation/
- Stephens, H. G., 1951
Long Park area/ Montrose County/ reserves/ resources/ sandstone/ Colorado Plateau/ ore deposits/ uranium/ vanadium/ Morrison Formation/
- Stephens, H. G., and Cramer, M. A., 1951
reserves/ Long Park area/ Montrose County/ sandstone/ Colorado Plateau/ ore deposits/ uranium/ vanadium/ Morrison Formation/
- Stephens, H. G., and Ekren, E. B., 1952
uranium/ vanadium/ Colorado Plateau/ sandstone/ exploration/ ore deposits/ reserves/ drilling/ Long Park area/ Montrose County/ geology/ carnotite/ Morrison Formation/ Salt Wash Member/
- Stephens, H. G., and Newman, W. L., 1951
Long Park area/ Montrose County/ exploration/ drilling/ reserves/ resources/ sandstone/ Colorado Plateau/ Morrison Formation/ ore deposits/ uranium/ vanadium/
- Stern, T. W., and Stieff, L. R., 1956
age determination/ Colorado Plateau/ Mesa County/ uranium/ Montrose County/ San Miguel County/ Bob Tail mine/ Jo Dandy mines/ Radium No. 6 mine/ Calamity mines/ radiocollids/ radium/ genesis/ Club mines/ sandstone/ ore deposits/
- Stern, T. W., Stieff, L. R., Girland, M. N., and Meyrowitz, Robert, 1954
age determinations/ Colorado Plateau/ Calamity Mesa/ Paradox district/ sandstone/ Mesa County/ Montrose County/ Jo Dandy mines/ May Day mine/ Parco mine/ Small Spot mine/ Yellow Cat mines/ mineralogy/ metatuyamunite/
- Stern, T. W., Stieff, L. R., Evans, H. T., Jr., and Sherwood, A. M., 1957
doloresite/ vanadium oxides/ Colorado Plateau/ Montrose County/ Mesa County/ sandstone/ La Sal mine/ Morrison Formation/ Corvusite mine/ Matchless mine/ Black Mama mine/ Arrowhead mine/ Lumsden mine/ Golden Cycle mine/ J.J. mine/ Peanut mine/ x-ray analyses/ geochemistry/ mineralogy/
- Stern, T. W., Stieff, L. R., Evans, H. T., Jr., and Sherwood, A. M., 1957
doloresite/ vanadium oxides/ Colorado Plateau/ Montrose County/ Mesa County/ sandstone/ La Sal mine/ Morrison Formation/ Corvusite mine/ Matchless mine/ Arrowhead mine/ Lumsden mine/ Golden Cycle mine/ J.J. mine/ Peanut mine/ x-ray analyses/ geochemistry/ mineralogy/ Black Mama mine/
- Stern, T. W., Stieff, L. R., and Sherwood, A. M., 1955
coffinite/ uranium/ ore deposits/ Colorado Plateau/ sandstone/ Larimer County/ Copper King mine/ mineralogy/ chemistry/ Front Range/ veins/ Montrose County/ Igneous-metamorphic/

- Stewart, J. H., 1953
exploration/ Colorado Plateau/ Moon Mesa area/ Mesa County/ Montrose County/ ore deposits/ sandstone/ Morrison Formation/ geology/ reserves/ carnotite/ Salt Wash Member/ drilling/ uranium/ vanadium/ Horse Mesa area/
- Stewart, J. H., 1953
Colorado Plateau/ geology/ ore deposits/ ore guides/ drilling/ Mesa County/ Montrose County/ Moon Mesa area/ Horse Mesa area/ production/ uranium/ vanadium/ resources/ reserves/ minerals/ carnotite/ Black Jumbo claims/ sandstone/ Morrison Formation/ Salt Wash Member/
- Stewart, J. H., and Wilson, R. F., 1960
Dolores County/ San Miguel County/ Montrose County/ Chinle Formation/ sandstone/ Moenkopi Formation/ Wingate Sandstone/ correlation/ Triassic/ Colorado Plateau/ salt anticlines/ Paradox basin/
- Stewart, J. H., Mullens, T. E., and Williams, G. A., 1954
Dolores County/ Mesa County/ Montrose County/ isopach maps/ Colorado Plateau/ sandstone/ Morrison Formation/ stratigraphy/ Cutler Formation/ Hoskinnini tongue/ Moenkopi formation/ Utah/ Arizona/
- Stieff, L. R., 1948
Colorado Plateau/ mineralogy/ carnotite/ ore deposits/ Garfield County/ Montrose County/ sandstone/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1953
Colorado Plateau/ age determination/ sandstone/ uranium/ San Juan County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1955
Uravan district/ Jefferson County/ Larimer County/ Mesa County/ Montrose County/ San Miguel County/ coffinite/ Copper King mine/ La Sal No. 2 mine/ Matchless mine/ Old Leyden coal mine/ Peanut mine/ Robinson property/ pyrobitumens/ Weatherly property/ Wild Steer mine/ veins/ sandstone/ Cutler Formation/ Dolores Formation/ mineralogy/ Laramie Formation/ Morrison Formation/ Salt Wash Member/ Igneous-metamorphic/ Colorado Plateau/ Front Range/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1956
Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Copper King mine/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ San Miguel County/ geochemistry/ x-ray analyses/ mineralogy/ sandstone/ Igneous-metamorphic/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Copper King mine/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ San Miguel County/ x-ray analyses/ geochemistry/ Igneous-metamorphic/ sandstone/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/ Copper King mine/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ San Miguel County/ geochemistry/ Colorado Plateau/ sandstone/ Igneous-metamorphic/
- Stokes, W. L., 1944
Morrison Formation/ Colorado Plateau/ sandstone/ stratigraphy/ correlation/ Garfield County/ Mesa County/ Delta County/ Gunnison County/ Montrose County/ Ouray County/ Dolores County/ Hinsdale County/ Archuleta County/ Montezuma County/ La Plata County/ ore deposits/ San Juan County/
- Stokes, W. L., 1958
Colorado Plateau/ sandstone/ continental sediments/ Montrose County/ sandstone/ lead-uranium ratios/ Mesa County/ San Miguel County/ San Juan County/
- Stokes, W. L., and Phoenix, D. A., 1948
Montrose County/ San Miguel County/ geology/ oil/ gas/ sections/ stratigraphy/ Egnar-Gypsum Valley area/ Salt Wash Member/ structure/ structural history/ sandstone/ Colorado Plateau/ Morrison Formation/
- Strobell, J. D., Jr., Sample, R. D., Stephens, H. G., and Gilbert, C. C., 1954
Mesa County/ Montrose County/ sandstone/ Colorado Plateau/ statistical measures/ average deposit size/ uranium/ ore deposits/ Morrison Formation/ Salt Wash Member/ Gateway district/ Uravan district/
- Tavell, J. A., 1951
Colorado Plateau/ sandstone/ airborne radiometrics/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ New Mexico/ Arizona/ Utah/ exploration/ instrumentation/ Mesa County/
- Thompson, M. E., and Roach, C. H., 1955
mineralogy/ Peanut mine/ Montrose County/ sandstone/ Morrison Formation/ uranium/ vanadium/ Colorado Plateau/
- Thompson, M. E., and Roach, C. H., 1955
mineralogy/ Peanut mine/ Montrose County/ uranium/ vanadium/ Morrison Formation/ sandstone/ Bull Canyon district/ Colorado Plateau/
- Thompson, M. E., and Sherwood, A. M., 1959
delrioite/ vanadium/ Jo Dandy mine/ Montrose County/ Morrison Formation/ sandstone/ x-ray analyses/ geochemistry/ Colorado Plateau/ strontium/ mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R., 1956
duttonite/ vanadium/ minerals/ type locality/ sandstone/ Montrose County/ Peanut mine/ Colorado Plateau/ mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R., 1956
duttonite/ Montrose County/ Peanut mine/ vanadium/ mineralogy/ sandstone/ Colorado Plateau/

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MONTROSE COUNTY

- Thompson, M. E., Roach, C. H., and Braddock, W. A., 1956
selenium/ Peanut mine/ Montrose County/ South Dakota/ Dakota/ sandstone/ Colorado Plateau/ mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R., 1957
simplotite/ vanadium/ Colorado Plateau/ San Miguel County/ Montrose County/ geochemistry/ Morrison Formation/ x-ray analyses/ Peanut mine/ Sundown claim/ mineralogy/ sandstone/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R., 1957
sherwoodite/ vanadium/ sandstone/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Matchless mine/ Peanut mine/ Fall Creek mine/ Morrison Formation/ Entrada Sandstone/ geochemistry/ x-ray analyses/ mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R., 1957
duttonite/ vanadium/ Peanut mine/ Montrose County/ sandstone/ geochemistry/ x-ray analyses/ Colorado Plateau/ mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R., 1958
simplotite/ vanadium/ Colorado Plateau/ San Miguel County/ Montrose County/ geochemistry/ x-ray analyses/ analysis/ Peanut mine/ Sundown claim/ Morrison Formation/ sandstone/ mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R., 1958
sherwoodite/ vanadium/ sandstone/ Colorado Plateau/ San Miguel County/ Mesa County/ Montrose County/ Matchless mine/ Peanut mine/ Fall Creek mine/ Morrison Formation/ Entrada Sandstone/ geochemistry/ x-ray analyses/ mineralogy/
- Trace, R. D., 1950
reserves/ resources/ Club Mesa area/ Montrose County/ analyses/ Colorado Plateau/ ore deposits/ geology/ Morrison Formation/ sandstone/
- Trace, R. D., 1950
reserves/ resources/ Club Mesa area/ Montrose County/ Colorado Plateau/ ore deposits/ geology/ Morrison Formation/ sandstone/
- Trace, R. D., 1950
Club Mesa area/ Montrose County/ reserves/ resources/ sandstone/ ore deposits/ Colorado Plateau/ uranium/ vanadium/ Morrison Formation/
- Trace, R. D., 1950
reserves/ resources/ Club Mesa area/ Montrose County/ Colorado Plateau/ ore deposits/ geology/ sandstone/ Morrison Formation/
- Trace, R. D., 1950
Club Mesa area/ Montrose County/ reserves/ resources/ sandstone/ Colorado Plateau/ geology/ ore deposits/ Morrison Formation/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Montrose County/ reconnaissance/ ore deposits/ sandstone/ Colorado Plateau/
- U.S. Atomic Energy Commission, 1972
Uravan district/ Colorado Plateau/ road logs/ maps/ stratigraphy/ historical notes/ sandstone/ Mesa County/ San Miguel County/ Montrose County/
- U.S. Department of Energy, 1977
engineering assessment/ inactive uranium mill tailings/ Naturita site/ Montrose County/ Colorado Plateau/ sandstone/
- U.S. Geological Survey, 1953
geology/ San Miguel County/ Uravan district/ sandstone/ Colorado Plateau/ Powderhorn district/ igneous-metamorphic/ exploration/ Slick Rock district/ Gypsum Valley district/ Morrison Formation/ Gateway district/ Mesa County/ Montrose County/ Dolores County/ Spud Patch area/ LegIn group/ Monogram Mesa/ Club Mesa/ carnotite/ ore deposits/ Gunnison County/
- U.S. Geological Survey, 1953
sandstone/ Colorado Plateau/ Front Range/ veins/ igneous-metamorphic/ thorium/ Powderhorn district/ natural waters/ Morrison Formation/ Mesa County/ San Miguel County/ Dolores County/ Gilpin County/ San Juan County/ La Plata County/ Ouray County/ geology/ Gunnison County/ Montrose County/ San Juan Mountains/ Clear Creek County/ ore deposits/ geology/
- U.S. Geological Survey, 1953
geologic mapping/ Colorado Plateau/ Front Range/ carbonaceous rocks/ geochemistry/ reconnaissance/ black shales/ sandstone/ igneous-metamorphic/ geology/ ore deposits/ Gilpin County/ Clear Creek County/ Jefferson County/ Montrose County/ Mesa County/ San Miguel County/ Gunnison County/
- U.S. Geological Survey, 1954
Clear Creek County/ Gilpin County/ ore deposits/ reserves/ Colorado Plateau/ exploration/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Moffat County/ Dolores County/ Rio Blanco County/ Front Range/ igneous-metamorphic/ Jefferson County/ pitchblende/ hydrogeochemical exploration/ stream sediments/ ground water/ mine waters/
- U.S. Geological Survey, 1954
Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ Morrison Formation/ geology/ Chino Formation/ Shinarump Member/ reserves/ San Juan Mountains/ snow/ surface water/ ground water/ Ouray County/ San Juan County/ conglomerate/ igneous-metamorphic/ Front Range/
- U.S. Geological Survey, 1954
Colorado Plateau/ Montrose County/ Mesa County/ Dolores County/ Montezuma County/ drilling/ logging/ data/ analyses/ sandstone/ maps/ Morrison Formation/ San Miguel County/
- U.S. Geological Survey, 1955
Beaver Mesa/ Disappointment Valley/ Front Range/

- Jo Dandy area/ La Sal Creek area/ Monogram Mesa/ exploration/ drilling/ Ralston Buttes district/ Uravan district/ Montrose County/ San Miguel County/ Mesa County/ Jefferson County/ Colorado Plateau/ sandstone/ Igneous-metamorphic/
- U.S. Geological Survey, 1955
Front Range/ Golden Gate Canyon area/ Uravan district/ exploration/ drilling/ Colorado Plateau/ Jefferson County/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ sandstone/ Igneous-metamorphic/ Ralston Buttes district/
- U.S. Geological Survey, 1955
Colorado Plateau/ Front Range/ sandstone/ geologic mapping/ veins/ carbonaceous rocks/ geochemistry/ reconnaissance/ analyses/ Igneous-metamorphic/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ Montezuma County/ Fremont County/ Jefferson County/
- U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ veins/ geologic mapping/ mineralogy/ petrology/ geophysics/ carbonaceous rocks/ analyses/ sandstone/ San Miguel County/ Dolores County/ Montrose County/ Montezuma County/ Jefferson County/ Mesa County/ Igneous-metamorphic/
- U.S. Geological Survey, 1956
Colorado Plateau/ mapping/ geology/ geophysics/ mineralogy/ vanadium/ carbonaceous rocks/ petrology/ San Miguel County/ sandstone/ Igneous-metamorphic/ Dolores County/ Montrose County/ Montezuma County/ Jefferson County/ Front Range/ Mesa County/ Fremont County/
- U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ sandstone/ San Miguel County/ Igneous-metamorphic/ Dolores County/ Montrose County/ Mesa County/ Montezuma County/ Jefferson County/ Fremont County/
- U.S. Geological Survey, 1957
drilling/ Colorado Plateau/ sandstone/ reserves/ sections/ geology/ exploration/ ore deposits/ Mesa County/ Dolores County/ San Miguel County/ Montrose County/
- U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geophysics/ geochemistry/ geophysics/ thorium/ ore deposits/ sandstone/ Igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Gilpin County/ Clear Creek County/
- U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ San Miguel County/ Montrose County/ sandstone/ Igneous-metamorphic/ Mesa County/ Clear Creek County/ Gilpin County/ ore deposits/
- U.S. Geological Survey, 1958
Colorado Plateau/ mapping/ geophysics/ Clear Creek County/ geochemistry/ Maybell-Lay area/ Front Range/ Gilpin County/ research/ thorium/ Moffat County/ sandstone/ Mesa County/ San Miguel County/ Montrose County/ Igneous-metamorphic/
- J.S. Geological Survey, 1958
Colorado Plateau/ geophysics/ geochemistry/ Gilpin County/ research/ Front Range/ thorium/ reconnaissance/ Mesa County/ sandstone/ Clear Creek County/ Montrose County/ San Miguel County/ Igneous-metamorphic/
- U.S. Geological Survey, 1959
Colorado Plateau/ geologic mapping/ geophysics/ sandstone/ ore deposits/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/
- U.S. Geological Survey, 1959
Colorado Plateau/ Lisbon Valley district/ mapping/ research/ thorium/ sandstone/ geophysics/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/
- U.S. Geological Survey, 1970
sandstone/ Gypsum Valley district/ Montrose County/ San Miguel County/ maps/ drilling/ exploration/ Colorado Plateau/
- U.S. Geological Survey, 1970
maps/ drilling/ exploration/ sandstone/ Atkinson Mesa/ Dolores Bench area/ Uravan district/ Montrose County/ Colorado Plateau/
- U.S. Geological Survey, 1970
maps/ drilling/ exploration/ sandstone/ Long Park area/ Uravan district/ Montrose County/ Colorado Plateau/
- U.S. Geological Survey, 1971
map/ aeromagnetics/ Colorado Plateau/ sandstone/ Utah/ Colorado/ Arizona/ San Miguel County/ Montrose County/ Mesa County/
- Umbach, P. H., 1952
exploration/ Colorado Plateau/ sandstone/ uranium/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/
- Utah Geological Society, 1954
Colorado/ Utah/ ore deposits/ geology/ uranium/ sandstone/ New Mexico/ Arizona/ minerals/ Colorado Plateau/ Thompson district/ Lisbon Valley district/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Big Indian district/
- Vine, J. D., and Flége, R. F., Jr., 1953
ore deposits/ exploration/ carbonaceous rocks/ Colorado/ Utah/ Idaho/ Wyoming/ coal/ Moffat County/ Garfield County/ Eagle County/ Mesa County/ Colorado Plateau/ sandstone/ coal/ shale/ Jackson County/ Montrose County/
- Vogel, J. D., and Elston, D. P., 1953
Colorado Plateau/ reserves/ ore deposits/ Jo Dandy area/ Montrose County/ Morrison Formation/ Salt Wash Member/ drilling/ sandstone/ uranium/ vanadium/
- Vogel, J. D., and Elston, D. P., 1953
Colorado Plateau/ Jo Dandy area/ Montrose County/ ore deposits/ exploration/ sandstone/ reserves/ Morrison Formation/ Salt Wash Member/ drilling/ uranium/ vanadium/ Paradox Valley district/

- Vogel, J. D., and Elston, D. P., 1954
 Mineral Joe mine/ Colorado Plateau/ reserves/
 exploration/ sandstone/ ore deposits/ uranium/
 vanadium/ Salt Wash Member/ Jo Dandy area/ Montrose
 County/ Morrison Formation/
- Vogel, J. D., and Elston, D. P., 1954
 Colorado Plateau/ reserves/ exploration/ sandstone/
 ore deposits/ uranium/ vanadium/ Morrison Formation/
 Salt Wash Member/ Jo Dandy area/ Montrose County/
- Wallace, R. M., 1955
 Montrose County/ Bull Canyon district/ sandstone/
 geology/ Colorado Plateau/ ore deposits/
- Wallace, R. M., 1957
 Monogram Mesa/ Jo Dandy area/ Bull Canyon district/
 Colorado Plateau/ reserves/ drilling/ exploration/
 sandstone/ ore deposits/ uranium/ vanadium/
 Morrison Formation/ Salt Wash Member/ Montrose
 County/ San Miguel County/ Dry Creek basin/
- Wallace, R. M., and Roach, C. H., 1956
 Dry Creek basin/ ore deposits/ exploration/
 Jurassic/ Morrison Formation/ Bull Canyon district/
 Montrose County/ San Miguel County/ Colorado
 Plateau/ sandstone/ geology/
- Wallace, R. M., and Santos, E. S., 1956
 Colorado Plateau/ ore deposits/ exploration/
 Montrose County/ San Miguel County/ Jurassic/
 Morrison Formation/ diamond drilling/ Jo Dandy
 area/ Dry Creek basin/ sandstone/ Bull Canyon
 district/
- Waters, A. C., and Granger, H. C., 1952
 Colorado Plateau/ Uravan district/ Dolores mines/
 volcanic debris/ sandstone/ genesis/ Georgetown
 group/ precipitation/ San Miguel County/ Montrose
 County/
- Weeks, A. D., 1951
 ore deposits/ Jurassic/ Morrison Formation/
 clay studies/ Calamity Mesa/ Mesa County/ Montrose
 County/ mineralogy/ petrology/ geochemistry/
 clay (red and gray)/ sandstone/ Colorado Plateau/
 Bitter Creek district/
- Weeks, A. D., 1952
 Colorado Plateau/ alteration/ sandstone/ oxidation/
 paragenesis/ ore deposits/ pitchblende/ roscoelite/
 mineralogy/ Uravan district/ Chinle Formation/
 Shinarump Member/ Morrison Formation/ uraninite/
 Mesa County/ Dolores County/ Montrose County/
 San Miguel County/
- Weeks, A. D., 1953
 mineralogy/ petrology/ geochemistry/ Cretaceous/
 claystone/ siltstone/ Colorado Plateau/ clay
 studies/ Utah/ Jurassic/ Dolores Group/ Dry
 Creek anticline/ sandstone/ Mesa County/ Montrose
 County/ Unaweep/ Escalante Forks/
- Weeks, A. D., 1956
 Uravan district/ ore deposits/ mineralogy/ sandstone/
 Plateau/ Dolores County/ San Miguel County/
 Montrose County/ Mesa County/
- Weeks, A. D., and Thompson, M. E., 1954
 Colorado Plateau/ ore deposits/ uranium/ vanadium/
 minerals/ mineralogy/ identification/ x-ray
 data/ Mesa County/ analyses/ Montrose County/
 San Miguel County/ Dolores County/ sandstone/
- Weeks, A. D., and Truesdell, A. H., 1957
 Uravan district/ sandstone/ Colorado Plateau/
 mineralogy/ Dolores County/ San Miguel County/
 Montrose County/ Mesa County/ ore deposits/
- Weeks, A. D., Cisney, E. A., and Sherwood, A. M.,
 1950
 hummerite/ montroseite/ vanadium/ Montrose County/
 sandstone/ Paradox Valley/ analyses/ minerals/
 Colorado Plateau/
- Weeks, A. D., Cisney, E. A., and Sherwood, A. M.,
 1951
 hummerite/ montroseite/ minerals/ Montrose County/
 Colorado/ sandstone/ vanadium/ x-ray analyses/
 Hummer mine/ Paradox Valley/ Colorado Plateau/
- Weeks, A. D., Cisney, E. A., and Sherwood, A. M.,
 1953
 montroseite/ Montrose County/ Bitter Creek mine/
 Jo Dandy mine/ Matchless mine/ Mesa County/
 Colorado Plateau/ vanadium/ mineral properties/
 geochemistry/ x-ray analyses/ sandstone/
- Weeks, A. D., Cisney, E. A., and Sherwood, A. M.,
 1953
 montroseite/ Montrose County/ Jo Dandy mine/
 Matchless mine/ Mesa County/ Bitter Creek mine/
 Colorado Plateau/ vanadium/ mineral properties/
 sandstone/ geochemistry/ x-ray analyses/
- Weeks, A. D., Coleman, R. G., and Thompson, M.
 E., 1956
 Colorado Plateau/ asphaltic rocks/ Atkinson
 Mesa/ Club Mesa/ Flat Top Mesa/ Jo Dandy area/
 Paradox district/ Placerville district/ Rifle
 district/ Slick Rock district/ Uravan/ Montrose
 County/ San Miguel County/ mineralogy/ petrology/
 geochemistry/ vanadium/ ore deposits/ Garfield
 mine/ roscoelite/ chemical analyses/ sandstone/
 Garfield County/
- Weeks, A. D., Coleman, R. G., and Thompson, M.
 E., 1959
 Colorado Plateau/ ore deposits/ mineralogy/
 oxidation/ vanadium/ sandstone/ uranium/ Moffat
 County/ Dolores County/ Garfield County/ Rio
 Blanco County/ Mesa County/ Delta County/ Montrose
 County/ San Miguel County/ Montezuma County/
 La Plata County/ Archuleta County/
- Weeks, A. D., Lindberg, M., and Meyrowitz, R., 1961
 grantsite/ vanadium/ mineral properties/ mineralogy/
 sandstone/ limestone/ Colorado Plateau/ Club
 Mesa/ Montrose County/ Atkinson Mesa/ Golden
 Cycle mine/ Morrison Formation/ ore deposits/
- Weeks, A. D., Lindberg, M., Truesdell, A. H., and
 others, 1964
 grantsite/ vanadium/ Golden Cycle mine/ La Salle
 mine/ Montrose County/ Morrison Formation/ sandstone/
 Colorado Plateau/ mineral properties/ geochemistry/
 x-ray analyses/ ore deposits/
- Weeks, A. D., Truesdell, A. H., and Haffty, J., 1957
 ore boundary/ uranium/ diagenesis/ mineralization/

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- Uravan district/ geochemistry/ paragenesis/
Montrose County/ sandstone/ Colorado Plateau/
- Weir, D. B., 1951
Colorado Plateau/ sandstone/ carnotite/ ore
guides/ exploration/ ore deposits/ Morrison
Formation/ Mesa County/ Montrose County/ San
Miguel County/ Dolores County/ geology/
- Weir, D. B., 1952
Colorado Plateau/ ore guides/ exploration/ carnotite/
ore deposits/ Morrison Formation/ sandstone/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ geology/
- Weir, G. W., Carter, W. D., Puffett, W. P., and
others, 1960
Utah/ San Miguel County/ Montrose County/ Colorado
Plateau/ Mount Peale 4 NE quadrangle/ geology/
stratigraphy/ section/ uranium/ vanadium/ Morrison
Formation/ Salt Wash Member/ sandstone/ map/
- Williams, P. L., 1964
Colorado/ Utah/ Moab quadrangle/ ore deposits/
uranium/ maps/ San Miguel County/ Montrose County/
Mesa County/ Delta County/ Ouray County/ geology/
structure/ sandstone/
- Withington, C. F., 1949
Montrose County/ Paradox quadrangle/ Colorado
Plateau/ Uravan district/ carnotite/ structure/
stratigraphy/ Salt Wash Member/ sandstone/ Cashin
mine/ Cliff Dweller mine/ copper/ silver/ vanadium/
uranium/ Skeln Mesa/ geology/ Morrison Formation/
- Withington, C. F., 1954
Uravan district/ Montrose County/ Paradox quadrangle/
geology/ ore guides/ minerals/ carnotite/ Cashin
mine/ Cliff Dweller mine/ genesis/ uranium/
ore deposits/ sandstone/ Morrison Formation/
Salt Wash Member/ stratigraphy/ Colorado Plateau/
- Withington, C. F., 1955
Colorado Plateau/ stratigraphy/ structure/ Salt
Wash Member/ sandstone/ carnotite/ copper/ silver/
vanadium/ uranium/ Wray Mesa/ Skeln Mesa/ Cliff
Dweller mine/ Uravan district/ Cashin mine/
Morrison Formation/ Montrose County/ geology/
- Withington, C. F., 1955
Montrose County/ Paradox quadrangle/ Colorado
Plateau/ stratigraphy/ structure/ Morrison Formation/
geology/ Salt Wash Member/ sandstone/ carnotite/
vanadium/ uranium/ copper/ silver/ Skeln Mesa/
Cashin mine/ Cliff Dweller mine/ Wray Mesa/
Uravan district/
- Withington, C. F., and Hasler, J. W., n.d.
Montrose County/ San Miguel County/ Gypsum Valley
district/ exploration/ sandstone/ Colorado Plateau/
- Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/
ore deposits/ Jefferson County/ San Miguel County/
Saguache County/ Park County/ Boulder County/
Montrose County/ Moffat County/ sandstone/ Front
Range/ coal/ igneous-metamorphic/
- Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/
sandstone/ production/ geology/ Boulder County/
Jefferson County/ Saguache County/ Park County/
Montrose County/ San Miguel County/ Moffat County/
coal/ igneous-metamorphic/ Front Range/
- Wood, H. B., and Grundy, W. D., 1956
exploration guides/ exploration techniques/
Shinarump Formation/ channels/ Colorado Plateau/
uranium/ Moffat County/ Rio Blanco County/ Garfield
County/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ sandstone/
- Wood, H. B., and Lekas, M. A., 1958
uranium/ sandstone/ ore deposits/ Colorado Plateau/
Uravan district/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/
- Wood, H. B., and Lekas, M. A., 1958
Uravan district/ ore deposits/ sandstone/ uranium/
Colorado Plateau/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/
- Wright, J. C., Shawe, D. R., and Lohman, S. W., 1962
Jurassic/ Entrada Sandstone/ Utah/ Colorado/
sandstone/ Colorado Plateau/ Montrose County/
Mesa County/ San Miguel County/
- Wright, R. J., 1955
Colorado Plateau/ ore deposits/ ore controls/
lithology/ sandstone/ genesis/ Moffat County/
Dolores County/ Rio Blanco County/ Garfield
County/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ La Plata County/
Archuleta County/
- Young, Neal, 1957
economic map/ ore deposits/ Mount Peale quadrangle/
Utah/ Colorado/ Montrose County/ San Miguel
County/ sandstone/ Colorado Plateau/ geology/
- Zareski, G. K., 1954
Colorado/ Utah/ Wray Mesa/ ore deposits/ Morrison
Formation/ exploration/ reconnaissance/ Montrose
County/ stratigraphy/ structure/ Brushy Basin
Member/ Salt Wash Member/ sandstone/ carnotite/
uranium/ vanadium/ shale/ mudstone/ Colorado
Plateau/

MORGAN COUNTY

- Boberg, W. W., 1970
surface water/ streams/ transport/ precipitation/
South Platte River/ geochemistry/ shale/ Jefferson
County/ Douglas County/ Denver County/ Arapahoe
County/ uranium/ Adams County/ Weld County/
Morgan County/ Washington County/ Logan County/
Sedgwick County/
- Boberg, W. W., and Runnells, D. D., 1971
surface water/ rivers/ South Platte River/ geochemistry/
uranium/ analyses/ Jefferson County/ Douglas
County/ Denver County/ Arapahoe County/ Adams
County/ Weld County/ Morgan County/ Washington
County/ Logan County/ Sedgwick County/ reconnaissance/

MORGAN COUNTY

Hyden, H. J., 1956
uranium/ crude oil/ petroleum/ Moffat County/
conglomerate/ Triassic/ Jurassic/ Entrada Sandstone/
Morrison Formation/ Archuleta County/ Cretaceous/
Dakota Sandstone/ Mancos Shale/ Morgan County/
Rio Blanco County/ sandstone/ trace elements/
Shinarump Member/ Fremont County/

Maxwell, J. G., 1977
elements/ analyses/ hydrogeochemistry/ stream
waters/ stream sediments/ Sterling area/ Fort
Morgan area/ South Platte drainage/ data/ Morgan
County/ Logan County/ Washington County/ sandstone/
ground water/

Popenoe, Peter, 1965
arkose/ shale/ sandstone/ conglomerate/ Denver
basin/ Larimer County/ Boulder County/ Jefferson
County/ Douglas County/ Elbert County/ Arapahoe
County/ Denver County/ Adams County/ Weld County/
Morgan County/ geology/ aeroradioactivity survey/
conglomerate/ Front Range/

Popenoe, Peter, 1965
Laramie Formation/ Dawson arkose/ Pierre Shale/
Castle Rock Conglomerate/ Denver basin/ Larimer
County/ County/ Boulder County/ Jefferson County/
Douglas County/ Elbert County/ Arapahoe County/
Denver County/ Adams County/ Weld County/ Morgan
County/ gamma-ray logs/ airborne radioactivity/
Front Range/ Fox Hills Sandstone/

OTERO COUNTY

Brown, L. J., and Easton, W. W., 1955
ore deposits/ reconnaissance/ airborne/ Huerfano
Embayment/ Intrusives/ volcanics/ Las Animas
Arch/ La Veta Pass area/ Huerfano County/ Las
Animas County/ Otero County/ Costilla County/
Pueblo County/ Crowley County/ Kiowa County/
Bent County/ Prowers County/ Baca County/ sandstone/
shale/ claystone/ Igneous-metamorphic/

Scott, R. C., and Barker, F. B., 1961
ground water/ radium/ La Plata County/ Cheyenne
County/ Kiowa County/ Lincoln County/ Crowley
County/ Otero County/ Bent County/ Prowers County/
Las Animas County/ Baca County/ Montezuma County/
Archuleta County/ Colorado Plateau/

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Otero County/ reconnaissance/
ore deposits/

OURAY COUNTY

Baltz, E. H., Jr., 1955
Colorado/ New Mexico/ ore deposits/ exploration/
carbonaceous rocks/ sandstone/ Mesa County/
Delta County/ Montrose County/ Gunnison County/
Ouray County/ San Miguel County/ Hinsdale County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ coal/ shale/ reconnaissance/
Colorado Plateau/

OURAY COUNTY

Burbank, W. S., and Pierson, C. T., 1952
Gunnison County/ Ouray County/ San Juan County/
Dolores County/ radioactivity/ reconnaissance/
San Juan Mountains/ Igneous-metamorphic/ Colorado
Plateau/ sandstone/ veins/ San Miguel County/

Burbank, W. S., and Pierson, C. T., 1953
radioactivity/ reconnaissance/ San Juan Mountains/
Ouray County/ San Miguel County/ Gunnison County/
Dolores County/ Igneous-metamorphic/ sandstone/
Colorado Plateau/ veins/ San Juan County/

Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado
Plateau/ paleontology/ sandstone/ Triassic strata/
Eagle County/ La Plata County/ Archuleta County/
Garfield County/ Mesa County/ Moffat County/
Montezuma County/ Pitkin County/ Montrose County/
Rio Blanco County/ Routt County/ San Miguel
County/ San Juan County/ Summit County/ Park
County/ Delta County/ Dolores County/ mineralogy/
conglomerate/ Gunnison County/ Ouray County/

Chew, R. T., 3d, 1955
sandstone/ Mesa County/ Utah/ stream sediments/
exploration/ radioactivity/ Delta County/ Montrose
County/ gravels/ San Miguel County/ Dolores
County/ Ouray County/ San Juan County/ Montezuma
County/ La Plata County/ Colorado Plateau/

Chew, R. T., 3d, 1956
Mesa County/ Delta County/ Montrose County/
sandstone/ Dolores County/ Ouray County/ San
Juan County/ gravels/ Montezuma County/ La Plata
County/ Colorado Plateau/ exploration/ stream
sediments/ radioactivity/ San Miguel County/

Coats, R. R., 1956
felsic volcanic rocks/ igneous-metamorphic/
uranium/ trace elements/ Cenozoic/ genesis/
Gunnison County/ Pitkin County/ Lake County/
Park County/ Chaffee County/ Ouray County/ Saguache
County/ Hinsdale County/ Saguache County/ Hinsdale
County/ Pitkin County/

Coats, R. R., 1956
uranium/ trace elements/ felsic volcanic rocks/
Cenozoic/ genesis/ igneous-metamorphic/ Gunnison
County/ Pitkin County/ Lake County/ Park County/
Chaffee County/ Ouray County/ Saguache County/
Hinsdale County/

Craig, L. C., Holmes, C. N., Cadigan, R. A., and
others, 1951
Colorado Plateau/ Morrison Formation/ Mesa County/
stratigraphy/ Glen Canyon group/ Montezuma County/
Delta County/ San Rafael group/ Dolores County/
Gunnison County/ Montrose County/ sandstone/
Moffat County/ Ouray County/ San Juan County/
San Miguel County/ La Plata County/ Rio Blanco
County/ Garfield County/ Archuleta County/

Craig, L. C., Holmes, C. N., Cadigan, R. A., and
others, 1955
stratigraphy/ Morrison Formation/ Colorado Plateau/
sandstone/ Recapture Member/ Mesa County/ Ouray
County/ Delta County/ Gunnison County/ Montrose
County/ San Juan County/ San Miguel County/
Dolores County/ La Plata County/ Montezuma County/
Salt Wash Member/

- Duncan, D. C., compiler, 1953
ore deposits/ black shale/ Weber Formation/ exploration/ shale/ reconnaissance/ Belden Formation/ Paradox Member/ Eagle County/ Garfield County/ Gunnison County/ Hermosa Formation/ San Juan County/ La Plata County/ Lake County/ Pony Express Limestone Member/ Ouray County/ Dakota Sandstone/ Archuleta County/ Pierre Shale/ Las Animas County/ Huerfano County/ Vermejo Formation/ limestone/ sandstone/ Front Range/ Colorado Plateau/
- Emmons, S. F., 1905
Colorado Plateau/ red beds/ Dolores Formation/ Telluride/ Ouray County/ San Juan County/ copper/ sandstone/ veins/ ore deposits/
- Fischer, R. P., 1955
Durango district/ Placerville district/ Rico district/ uranium/ vanadium/ chromium/ Delta County/ Garfield County/ La Plata County/ Ouray County/ Rio Blanco County/ San Juan County/ San Miguel County/ minerals/ mariposite/ sandstone/ Entrada Sandstone/ regional relations/ ore deposits/ Colorado Plateau/ Mesa County/ Moffat County/ Montezuma County/ Montrose County/ Rifle area/ Dolores County/
- Fischer, R. P., Luedke, R. G., Sheridan, M. J., and others, 1968
mineral industry/ resources/ minerals/ Ouray County/ Hinsdale County/ San Miguel County/ production/ Gunnison County/ Beth claim/ veins/ rhyolite porphyry/ black shale/ Precambrian rocks/ pitchblende/ bituminous shale/ igneous-metamorphic/ Uncompahgre primitive area/
- Fix, P. F., 1953
natural waters/ ground water/ streams/ geochemistry/ San Juan County/ Ouray County/ tuffaceous terranes/ Cimarron Creek basin/ Las Animas River basin/ Colorado Plateau/ San Juan Mountains/
- Fix, P. F., 1954
San Miguel River/ Montrose County/ ground water/ nonsaline waters/ analyses/ Big Springs Gulch/ Orvis Hot spring/ streams/ geochemistry/ Mesa County/ San Miguel County/ Ouray County/ Hinsdale County/ Gunnison County/ springs/ Cougar mine spring/ Maverick Mesa spring/ Cimarron Creek/ Blue Creek/ Colorado Plateau/ Calamity Mesa spring/
- Fix, P. F., 1954
Colorado Plateau/ natural waters/ streams/ snow/ ground water/ San Juan Mountains/ San Juan County/ Ouray County/ acid tuff/ igneous-metamorphic/ Front Range/ Colorado Plateau/ surface water/
- George, R. D., Curtis, H. A., Lester, O. C., and others, 1920
Colorado Plateau/ mineralized waters/ springs/ spring deposits/ Front Range/ Jefferson County/ Pitkin County/ Pueblo County/ Garfield County/ Park County/ El Paso County/ Ouray County/ Boulder County/ Gunnison County/ Delta County/ Chaffee County/
- Gottfried, David, 1958
San Juan Mountains/ ore deposits/ exploration/ igneous-metamorphic/ volcanics/ Iceland/ New Jersey/ Oregon/ Hinsdale Formation/ Potosi volcanic series/ Ouray County/ Hinsdale County/ San Juan County/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/
- Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/
- Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Moffat County/ Archuleta County/ Ouray County/ Gunnison County/ Montrose County/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Moffat County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ regional structure/

- Kelley, V. C., 1959
structures/ fracture systems/ Colorado Plateau/
faults/ fractures/ Mesa County/ Montrose County/
San Miguel County/ sandstone/ Montezuma County/
Moffat County/ San Juan County/ Ouray County/
Delta County/ Gunnison County/ Garfield County/
La Plata County/ Rio Blanco County/
- Larsen, E. S., and Cross, C. W., 1956
geology/ petrology/ San Juan region/ Colorado
Plateau/ Igneous-metamorphic/ Montrose County/
Ouray County/ San Miguel County/ Dolores County/
La Plata County/ Gunnison County/ Hinsdale County/
Archuleta County/ Mineral County/ Saguache County/
Conejos County/ Alamosa County/ San Juan County/
Montezuma County/ Rio Grande County/
- Larsen, E. S., and Phair, George, 1954
uranium/ thorium/ Igneous-metamorphic/ Front
Range/ dikes/ stocks/ minerals/ porphyry/ San
Juan Mountains/ calc-alkalic rocks/ San Juan
County/ Ouray County/ Hinsdale County/ Cripple
Creek/ Teller County/ quartz-bostonite/ geochemistry/
- Larsen, E. S., Gottfried, David, and Molloy, Marjorie,
1958
San Juan Mountains/ ore deposits/ Ouray County/
volcanic rocks/ San Juan County/ Hinsdale County/
igneous-metamorphic/
- Lovering, T. G., and Beroni, E. P., 1956
Diamond J Ranch/ Golden Gate Canyon/ Haputa
Ranch area/ Ouray hot springs/ Chaffee County/
Custer County/ Gunnison County/ Jefferson County/
Ouray County/ radioactive ilmonite/ Lucky Break
Iron mine/ sandstone/ thorium/ uranium/ spring
deposits/ Front Range/ conglomerate/ limestone/
tufa/ analyses/ Igneous-metamorphic/ ore deposits/
El Paso County/
- Lovering, T. G., and Beroni, E. P., 1959
Diamond J Ranch/ Golden Gate Canyon/ Haputa
Ranch area/ Ouray hot springs/ Chaffee County/
Custer County/ Gunnison County/ Jefferson County/
Ouray County/ radioactive ilmonite/ Lucky Break
Iron mine/ thorium/ uranium/ spring deposits/
Front Range/ sandstone/ conglomerate/ limestone/
tufa/ El Paso County/ Igneous-metamorphic/ ore
deposits/
- Marshall, C. H., 1959
Ouray County/ Montrose County/ photogeologic
map/ Norwood-1 quadrangle/ sandstone/ Colorado
Plateau/
- Maxwell, J. C., 1977
San Juan Mountains/ geology/ Archuleta County/
hydrogeochemistry/ stream sediments/ stream
waters/ ground waters/ Storm King Mountain/
Vallecito Creek/ Montrose County/ Gunnison County/
San Miguel County/ Dolores County/ Montezuma
County/ La Plata County/ San Juan County/ Ouray
County/ Hinsdale County/ Mineral County/
- Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/
Colorado Plateau/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ La Plata County/ Moffat County/ Garfield
County/ Delta County/ San Juan County/ Eagle
County/ Pitkin County/ Gunnison County/ Ouray
County/ Hinsdale County/ Archuleta County/ genesis/
ore deposits/ Morrison Formation/ Rio Blanco
County/
- Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San
Juan County/ Morrison Formation/ stratigraphy/
Colorado Plateau/ Moffat County/ Rio Blanco
County/ Garfield County/ Eagle County/ Mesa
County/ Delta County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ La
Plata County/ genesis/ ore deposits/ Pitkin
County/ Gunnison County/ Ouray County/ Hinsdale
County/ Archuleta County/
- Nash, J. T., 1975
fluid inclusions/ veins/ breccia pipes/ replacement
ores/ ore deposits/ San Juan Mountains/ San
Miguel County/ Ouray County/ Igneous-metamorphic/
- Pierson, C. T., 1953
San Juan Mountains/ San Juan County/ La Plata
County/ Ouray County/ Dolores County/ Bonanza
district/ Saguache County/ Mineral County/ Hinsdale
County/ La Plata district/ Upper Uncompahgre
district/ Colorado Plateau/ Igneous-metamorphic/
- Pierson, C. T., 1954
San Juan Mountains/ minerals/ mineralogy/ petrology/
Ouray County/ slate/ pitchblende/ Igneous-metamorphic/
Mickey Breen mine/
- Pierson, C. T., Burbank, W. S., and Singewald,
Q. D., 1952
Colorado mineral belt/ ore deposits/ veins/
Igneous-metamorphic/ Pitkin County/ Park County/
Ouray County/ San Juan County/ San Miguel County/
uranium/ Colorado Plateau/
- Pierson, C. T., Weeks, W. F., and Kleinhampl, F.
J., 1958
San Juan Mountains/ reconnaissance/ mining districts/
radioactivity/ Igneous-metamorphic/ San Juan
County/ Ouray County/ San Miguel County/ La
Plata County/ Hinsdale County/ Mineral County/
Saguache County/
- Schultz, L. G., 1963
clay minerals/ Moenkopi Formation/ Chinle Formation/
x-ray diffraction/ Ouray County/ Rio Blanco
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ Colorado Plateau/
sandstone/ La Plata County/
- Shoemaker, E. M., 1956
structural features/ Colorado Plateau/ ore deposits/
veins/ Moffat County/ Rio Blanco County/ La
Plata County/ uranium/ Garfield County/ Mesa
County/ Delta County/ Montrose County/ San Miguel
County/ San Juan County/ Ouray County/ sandstone/
Montezuma County/ Dolores County/ Archuleta
County/
- Shoemaker, E. M., and Luedke, R. G., 1952
Colorado Plateau/ map/ uranium/ ore deposits/
sandstone/ Moffat County/ Rio Blanco County/

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Mesa County/ Delta County/ Montrose County/
San Miguel County/ Dolores County/ Ouray County/
Montezuma County/ La Plata County/ Garfield
County/

Stokes, W. L., 1944

Morrison Formation/ Colorado Plateau/ sandstone/
stratigraphy/ correlation/ Garfield County/
Mesa County/ Delta County/ Gunnison County/
Montrose County/ Ouray County/ Dolores County/
Hinsdale County/ Archuleta County/ Montezuma
County/ La Plata County/ ore deposits/ San Juan
County/

U.S. Atomic Energy Commission, 1966

geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Ouray County/ reconnaissance/
ore deposits/ spring deposits/ igneous-metamorphic/
Colorado Plateau/ San Juan Mountains/

U.S. Geological Survey, 1953

sandstone/ Colorado Plateau/ Front Range/ veins/
igneous-metamorphic/ thorium/ Powderhorn district/
natural waters/ Morrison Formation/ Mesa County/
San Miguel County/ Dolores County/ Gilpin County/
San Juan County/ La Plata County/ Ouray County/
geology/ Gunnison County/ Montrose County/ San
Juan Mountains/ Clear Creek County/ ore deposits/
geology/

U.S. Geological Survey, 1953

Colorado Plateau/ Front Range/ sandstone/ coal/
springs/ igneous-metamorphic/ shale/ Gilpin
County/ Clear Creek County/ Jefferson County/
Boulder County/ Custer County/ thorium/ Gunnison
County/ La Plata County/ San Juan County/ Ouray
County/

U.S. Geological Survey, 1954

Colorado Plateau/ sandstone/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ ore
deposits/ Morrison Formation/ geology/ Chinle
Formation/ Shinarump Member/ reserves/ San Juan
Mountains/ snow/ surface water/ ground water/
Ouray County/ San Juan County/ conglomerate/
igneous-metamorphic/ Front Range/

Williams, P. L., 1964

Colorado/ Utah/ Moab quadrangle/ ore deposits/
uranium/ maps/ San Miguel County/ Montrose County/
Mesa County/ Delta County/ Ouray County/ geology/
structure/ sandstone/

PARK COUNTY

Anonymous, 1950

South Park/ Park County/ sandstone/

Baillie, W. N., 1962

pegmatites/ feldspar/ rare earths/ Boulder County/
Chaffee County/ Clear Creek County/ Douglas
County/ El Paso County/ Fremont County/ Gunnison
County/ Jefferson County/ Larimer County/ Park
County/ igneous-metamorphic/ Front Range/

Bever, J. E., 1952

Park County/ Fremont County/ igneous-metamorphic/
geology/ petrology/ Guffey-Micanite region/

PARK COUNTY

Boos, C. M., and Boos, M. F., 1957

tectonics/ Front Range/ igneous-metamorphic/
Gilpin County/ Larimer County/ Boulder County/
Jefferson County/ geology/ Clear Creek County/
Park County/ Douglas County/ Teller County/
El Paso County/ Fremont County/ Pueblo County/
granite/ schist/ gneiss/ pegmatite/

Brown, L. J., Easton, W. W., and Mallory, N. S., 1955

uranium/ ore deposits/ minerals/ aerial prospecting/
reconnaissance/ geology/ South Park/ Park County/
Garo district/ igneous-metamorphic/ Tertiary/
Precambrian/ trachyte/ granite/ sandstone/

Cadigan, R. A., 1972

stratigraphy/ genesis/ Chinle Formation/ Colorado
Plateau/ paleontology/ sandstone/ Triassic strata/
Eagle County/ La Plata County/ Archuleta County/
Garfield County/ Mesa County/ Moffat County/
Montezuma County/ Pitkin County/ Montrose County/
Rio Blanco County/ Routt County/ San Miguel
County/ San Juan County/ Summit County/ Park
County/ Delta County/ Dolores County/ mineralogy/
conglomerate/ Gunnison County/ Ouray County/

Case, J. E., 1967

anomalies/ gravity surveys/ aeromagnetic surveys/
igneous-metamorphic/ ore guides/ geophysics/
Park County/ Lake County/ Park Range/ sandstone/
Colorado mineral belt/

Coats, R. R., 1956

felsic volcanic rocks/ igneous-metamorphic/
uranium/ trace elements/ Cenozoic/ genesis/
Gunnison County/ Pitkin County/ Lake County/
Park County/ Chaffee County/ Ouray County/ Saguache
County/ Hinsdale County/ Saguache County/ Hinsdale
County/ Pitkin County/

Coats, R. R., 1956

uranium/ trace elements/ felsic volcanic rocks/
Cenozoic/ genesis/ igneous-metamorphic/ Gunnison
County/ Pitkin County/ Lake County/ Park County/
Chaffee County/ Ouray County/ Saguache County/
Hinsdale County/

De Voto, R. H., 1961

South Park/ Park County/ sandstone/ Chaffee
County/ geology/ ore deposits/

De Voto, R. H., 1971

South Park/ Park County/ Chaffee County/ sandstone/
geology/ geologic history/ Antero Reservoir
quadrangle/ ore deposits/

Finch, W. I., 1956

uranium/ terrestrial sedimentary rocks/ Maroon
Formation/ sandstone/ Sangre de Cristo Formation/
Cucharas district/ Huerfano County/ Park County/
Garo deposit/ vanadium/ carnotite/ tyuyamunite/

Finch, W. I., 1956

uranium/ terrestrial sedimentary rocks/ Maroon
Formation/ sandstone/ Sangre de Cristo Formation/
Cucharas district/ Huerfano County/ Park County/
Garo deposit/ vanadium/ carnotite/ tyuyamunite/

Finch, W. I., 1967

Colorado Plateau/ Front Range/ igneous-metamorphic/

- geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Bent County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/
- Fleck, Herman, 1909
Park County/ Garo district/ vanadium/ uranium/ sandstone/ ore deposits/
- Gallagher, G. L., 1976
Badger Flats area/ Eikhorn thrust area/ Park County/ Teller County/ Precambrian rocks/ Igneous-metamorphic/ Front Range/ uranium favorability/ ore deposits/
- George, R. D., Curtiss, H. A., Lester, O. C., and others, 1920
Colorado Plateau/ mineralized waters/ springs/ spring deposits/ Front Range/ Jefferson County/ Pitkin County/ Pueblo County/ Garfield County/ Park County/ El Paso County/ Ouray County/ Boulder County/ Gunnison County/ Delta County/ Chaffee County/
- Gill, J. R., 1953
Colorado/ Montana/ Wyoming/ ore deposits/ carbonaceous rocks/ coal/ Park County/ Gunnison County/ Delta County/ Las Animas County/ El Paso County/ Teller County/ La Plata County/ Montezuma County/ Denver Basin/ Larimer County/ shale/ Crested Butte/ Laramie Formation/ Colorado Plateau/ Front Range/
- Gott, G. B., 1951
Park County/ minerals/ calciovolborthite/ carnotite/ volborthite/ Shirley May deposit/ Garo deposit/ uranium/ sandstone/ analyses/ ore deposits/
- Grossman, E. L., 1957
Front Range/ ore deposits/ uranium/ Gilpin County/ Clear Creek County/ Jefferson County/ Schwartzwalder mine/ pitchblende/ Igneous-metamorphic/ Ladwig mine/ Leyden mine/ Boulder County/ coal/ sandstone/ Morrison Formation/ Park County/ Gem Dandy/
- Gulliotte, G. B., 1944
reconnaissance/ uranium/ ore deposits/ Front Range/ Igneous-metamorphic/ Park County/ Boulder County/ Jamestown district/ Larimer County/ Masonville mines/ Chaffee County/ Trout Creek permatites/ Clear Creek County/ carnotite/
- Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
pegmatites/ geology/ mineralogy/ Chaffee County/ Boulder County/ Clear Creek County/ Douglas County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Montrose County/ Park County/ Summit County/ monazite/ thorium/ production/ Front Range/ El Paso County/ Igneous-metamorphic/ Colorado Plateau/ Wyoming/ Utah/
- Heinrich, E. W., 1958
thorium/ pegmatites/ Lake George area/ South Platte area/ Douglas County/ Teller County/ Park County/ Igneous-metamorphic/ mineralogy/ analyses/ rare earth minerals/
- Heinrich, E. W., and Bever, J. E., 1957
Guffey area/ Igneous-metamorphic/ radioactive minerals/ pegmatites/ Park County/ Fremont County/
- Heinrich, E. W., and Dahlem, D. H., 1966
Guffey area/ Igneous-metamorphic/ radioactive minerals/ pegmatites/ Park County/ Fremont County/ carbonatite/ Arkansas River Canyon area/
- Javernick, B. L., 1975
mining/ Park County/ uranium/ Gold Star deposit/ sandstone/ ore deposits/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ igneous-metamorphic/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ Igneous-metamorphic/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Huerfano County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/
- Kelly, F. N., 1962
thorium/ Wet Mountains/ Custer County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Park County/ mineralogy/ Powderhorn district/ rare earths/ resources/ Igneous-metamorphic/ Colorado/ Wyoming/ New Mexico/ economics/ Front Range/ Gilpin County/
- King, R. U., 1953
reconnaissance/ Front Range/ Igneous-metamorphic/ Clear Creek County/ Park County/ Summit County/ geology/ ore deposits/ Boulder County/
- King, R. U., 1954
ore deposits/ exploration/ veins/ Ralston Creek district/ Jefferson County/ Copperdale/ Lake George/ Park County/ geology/ Igneous-metamorphic/ Front Range/
- King, R. U., and Beroni, E. P., 1953
Igneous-metamorphic/ reconnaissance/ Jefferson County/ Park County/ El Paso County/ Clear Creek County/ prospects/ uranium/ thorium/ Front Range/ ore deposits/ geology/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/

- Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/
- Lovering, T. G., 1954
radioactivity/ iron oxides/ geochemistry/ analyses/ uranium/ thorium/ Park County/ Garo deposit/ sandstone/ ilmonite/ tyuyamunite/
- Lovering, T. G., 1955
radioactivity/ iron oxides/ geochemistry/ analyses/ uranium/ thorium/ Park County/ Garo deposit/ sandstone/ ilmonite/ tyuyamunite/
- Lovering, T. S., and Goddard, E. N., 1938
Laramide/ tectonics/ differentiation/ Clear Creek County/ correlation/ geochemistry/ petrology/ Boulder County/ Grand County/ Summit County/ Gilpin County/ Park County/ Larimer County/ Teller County/ Jefferson County/ Front Range/ igneous-metamorphic/
- Lozano, Efraim, 1965
Park County/ sandstone/ Garo area/ uranium/ copper/ vanadium/ South Park/ geology/
- Malan, R. C., 1969
Intermontane basins/ North Park/ Tertiary/ Middle Park/ South Park/ Raton basin/ Tallahassee Creek district/ sandstone/ ore deposits/ Grand County/ Teller County/ Park County/ arkose/ Fremont County/ mudstone/ Huerfano County/ conglomerate/ genesis/ geology/ Gunnison County/ Saguache County/ exploration/ water sampling/ Wet Mountains/ High Park/ Cochetopa district/ Marshall Pass/ Thirtynine Mile field/
- Malan, R. C., 1969
genesis/ ore deposits/ Tertiary/ Intermontane basins/ geology/ uranium/ minerals/ sediments/ stratigraphy/ sandstone/ Middle Park/ South Park/ Raton basin/ Thirtynine Mile volcanic field/ Tallahassee Creek district/ Jackson County/ Grand County/ Park County/ Fremont County/ Huerfano County/ Custer County/
- McCarn, D. W., and Freeman, R. W., 1976
ground water/ surface water/ United States/ uranium/ chemical analyses/ Colorado/ Front Range/ Jefferson County/ Chaffee County/ Fremont County/ Gunnison County/ Huerfano County/ Saguache County/ Park County/ Colorado Plateau/
- Nishimori, R. K., Ragland, P. C., Rogers, J. J., and others, 1977
uranium/ ore deposits/ granite/ igneous-metamorphic/ Wheeler Basin/ Grand County/ Front Range/ Park County/ Clear Creek County/ Gilpin County/ Boulder County/ Jefferson County/ bostonite dikes/ Central City district/
- Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/
- Pierson, C. T., and Singewald, Q. D., 1953
reconnaissance/ radioactivity/ Alma district/ Park County/ veins/ uranium/ pitchblende/ igneous-metamorphic/ ore deposits/ Precambrian rocks/ London vein/ Cooper Gulch/ Orphan Boy mine/ geology/
- Pierson, C. T., and Singewald, Q. D., 1953
Alma district/ Park County/ ore deposits/ reconnaissance/ veins/ Precambrian rocks/ London vein system/ igneous-metamorphic/ Cooper Gulch/ Orphan Boy mine/ pitchblende/ geology/
- Pierson, C. T., Burbank, W. S., and Singewald, Q. D., 1952
Colorado mineral belt/ ore deposits/ veins/ igneous-metamorphic/ Pitkin County/ Park County/ Ouray County/ San Juan County/ San Miguel County/ uranium/ Colorado Plateau/
- Pierson, C. T., Singewald, Q. D., and Dings, M. G., 1953
Colorado mineral belt/ ore deposits/ exploration/ St. Kevin district/ Summit County/ Chaffee County/ Gunnison County/ Glacier Mountain/ Alma district/ Lake County/ igneous-metamorphic/ Park County/
- Riley, L. B., 1946
Park County/ sandstone/ Garo district/ carnotite/ copper/ vanadium/ Front Range/
- Salotti, C. A., 1965
mineralogy/ paragenesis/ Cotopaxi area/ Chaffee County/ Custer County/ Fremont County/ Park County/ igneous-metamorphic/ petrology/ geology/ skarn/ ore deposits/ copper/ zinc/ uranium/
- Sharp, R. R., Jr., 1976
Wyoming/ uranium/ water/ stream sediments/ hydrogeochemistry/ analyses/ sampling/ Teller County/ Park County/ geochemical surveys/ NURE program/
- Sharp, R. R., Jr., and Aamodt, P. L., 1976
hydrogeochemistry/ springs/ South Platte River/ analyses/ natural waters/ South Park/ Tarryall Creek/ West Fourmile Creek/ Currant Creek/ Badger Creek/ surface water/ ground water/ Teller County/ Park County/ Badger Flats/ Boomer mine/ igneous-metamorphic/ sandstone/ Garo deposit/

PARK COUNTY

Sharp, R. R., Jr., and Aamodt, P. L., compilers, 1976
Alaska/ Colorado/ geochemical surveys/ hydrogeochemistry/
Montana/ New Mexico/ exploration/ sampling/
uranium/ Wyoming/ water/ stream sediments/ analyses/
Teller County/ Park County/ South Park/ surface
water/ ground water/

Sharp, R. R., Jr., Morris, W. A., and Aamodt, P.
L., 1976

Alaska/ Colorado/ Montana/ New Mexico/ exploration/
research programs/ sample preparation/ sampling/
sediments/ uranium/ water/ Wyoming/ analyses/
surface water/ ground water/ stream sediments/
hydrogeochemistry/ South Park/ Park County/
Hinsdale County/ San Juan County/

U.S. Atomic Energy Commission, 1966

geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Park County/ reconnaissance/
ore deposits/ sandstone/ igneous-metamorphic/

Walker, G. W., 1956

ore deposits/ host rocks/ alteration/ veins/
sandstone/ igneous-metamorphic/ limestone/ Boulder
County/ Park County/ Front Range/ Gilpin County/
Clear Creek County/ Jefferson County/ Saguache
County/ coal/ dolomite/ Pitkin County/ Larimer
County/ Caribou mine/ Los Ochos mine/ Leyden
coal mine/ Copper King mine/

Walker, G. W., 1963

alteration/ veins/ igneous-metamorphic/ sandstone/
limestone/ Boulder County/ Park County/ Front
Range/ Gilpin County/ Clear Creek County/ Jefferson
County/ Saguache County/ coal/ Cochetopa district/
ore deposits/ Placerville district/ San Miguel
County/ Larimer County/ Central City district/
Caribou mine/ Los Ochos mine/ Leyden coal mine/
Copper King mine/

Wilmarth, V. R., 1953

veins/ Shirley May mine/ radioactivity/ Garo
deposit/ sandstone/ Maroon Formation/ copper/
vanadium/ Park County/ uranium/ geology/ ore
deposits/

Wilmarth, V. R., 1958

Park County/ Shirley May mine/ Garo deposit/
sandstone/ uranium/ vanadium/ copper/ Maroon
Formation/ geology/ ore deposits/

Wilmarth, V. R., 1959

geology/ uranium/ vanadium/ Park County/ sandstone/
Maroon Formation/ Shirley May mine/ ore deposits/
Garo deposits/ copper/

Wilmarth, V. R., and Smith, L. E., 1952

drilling/ geology/ reconnaissance/ Maroon Formation/
sandstone/ ore deposits/ structure/ Park County/
uranium/ reserves/ resources/ minerals/ calciovolborthite/
carnotite/ tyuyamunite/ volborthite/ vanadium/
copper/ Garo deposit/ Shirley May deposit/

Wood, H. B., 1956

Colorado Plateau/ genesis/ host rocks/ uranium/
ore deposits/ Jefferson County/ San Miguel County/
Saguache County/ Park County/ Boulder County/
Montrose County/ Moffat County/ sandstone/ Front
Range/ coal/ igneous-metamorphic/

PITKIN COUNTY

Wood, H. B., 1956

Colorado Plateau/ genesis/ host rocks/ uranium/
sandstone/ production/ geology/ Boulder County/
Jefferson County/ Saguache County/ Park County/
Montrose County/ San Miguel County/ Moffat County/
coal/ igneous-metamorphic/ Front Range/

Young, Patti, and Mickle, D. G., 1976

uranium/ favorability/ Tertiary rocks/ Badger
Flats/ Elkhorn thrust area/ Park County/ Teller
County/ igneous-metamorphic/ Front Range/

PITKIN COUNTY

Anonymous, 1951

Turret district/ rare earths/ igneous-metamorphic/
Pitkin County/

Bartleson, B. L., Bryant, B., and Mutschler, F.
E., 1968

nomenclature/ stratigraphy/ Elk Mountains/ Eagle
basin/ Gothic Formation/ Belden Formation/ Maroon
Formation/ Pitkin County/ Gunnison County/ Permian
stratigraphy/ Pennsylvanian stratigraphy/

Boyd, F. S., Jr., and Bromley, C. P., 1953

veins/ Aspen area/ Smuggler mine/ Pitkin County/
uranium/ breccia/ shale/ limestone/ Chaffee
Formation/ Devonian/ Weber Formation/ production/
reconnaissance/

Cadigan, R. A., 1972

stratigraphy/ genesis/ Chinle Formation/ Colorado
Plateau/ paleontology/ sandstone/ Triassic strata/
Eagle County/ La Plata County/ Archuleta County/
Garfield County/ Mesa County/ Moffat County/
Montezuma County/ Pitkin County/ Montrose County/
Rio Blanco County/ Routt County/ San Miguel
County/ San Juan County/ Summit County/ Park
County/ Delta County/ Dolores County/ mineralogy/
conglomerate/ Gunnison County/ Ouray County/

Coats, R. R., 1956

felsic volcanic rocks/ igneous-metamorphic/
uranium/ trace elements/ Cenozoic/ genesis/
Gunnison County/ Pitkin County/ Lake County/
Park County/ Chaffee County/ Ouray County/ Saguache
County/ Hinsdale County/

Coats, R. R., 1956

uranium/ trace elements/ felsic volcanic rocks/
Cenozoic/ genesis/ igneous-metamorphic/ Gunnison
County/ Pitkin County/ Lake County/ Park County/
Chaffee County/ Ouray County/ Saguache County/
Hinsdale County/

George, R. D., Curtis, H. A., Lester, O. C., and
others, 1920

Colorado Plateau/ mineralized waters/ springs/
spring deposits/ Front Range/ Jefferson County/
Pitkin County/ Pueblo County/ Garfield County/
Park County/ El Paso County/ Ouray County/ Boulder
County/ Gunnison County/ Delta County/ Chaffee
County/

Holmes, C. N., 1950

sandstone/ Uncompahgre uplift/ tectonics/ sedimentary
rocks/ Mesozoic/ Chinle Formation/ Pitkin County/

PITKIN COUNTY

PROWERS COUNTY

Gunnison County/ Montrose County/ Mesa County/
Delta County/ Dolores County/ Dolores Formation/
Montezuma County/ Entrada Sandstone/ stratigraphy/
Morrison Formation/ Colorado Plateau/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and
others, 1952

Front Range/ pitchblende/ sandstone/ coal/ shale/
Archuleta County/ Routt County/ Eagle County/
Pitkin County/ Gunnison County/ San Juan County/
Fremont County/ Huerfano County/ Ouray County/
Colorado Plateau/ ore deposits/ Moffat County/
Garfield County/ Mesa County/ Delta County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ La Plata County/ Larimer
County/ Boulder County/ Jefferson County/ Park
County/ Rio Blanco County/ Igneous-metamorphic/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and
others, 1952

Front Range/ Jamestown district/ pitchblende/
bostonite/ Colorado Plateau/ sandstone/ coal/
shale/ Moffat County/ Garfield County/ La Plata
County/ Pitkin County/ Gunnison County/ San
Juan County/ Boulder County/ Jefferson County/
Park County/ Delta County/ Fremont County/ Rio
Blanco County/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ Archuleta County/ Routt County/ Huerfano
County/ Ouray County/ Larimer County/ Eagle
County/ Igneous-metamorphic/

King, R. U., Leonard, B. F., Moore, F. B., and
others, 1952

Front Range/ Boulder County/ Clear Creek County/
Garfield County/ Gilpin County/ Jefferson County/
Larimer County/ Moffat County/ Pitkin County/
pitchblende/ hydrocarbons/ Kiowa County/ Rio
Blanco County/ Routt County/ hot spring deposits/
limestone/ pegmatites/ sandstone/ veins/ breccia
pipes/ igneous-metamorphic/ Park County/ Lake
County/ geology/ mineralogy/ San Miguel County/
ore deposits/ metal-mining districts/ Huerfano
County/ Eagle County/

King, R. U., Leonard, B. F., Moore, F. B., and
others, 1953

Front Range/ Boulder County/ Clear Creek County/
Garfield County/ Gilpin County/ Jefferson County/
Larimer County/ Moffat County/ Pitkin County/
pitchblende/ hydrocarbons/ hot spring deposits/
limestone/ sandstone/ veins/ breccia pipes/
igneous-metamorphic/ Park County/ Lake County/
geology/ mineralogy/ San Miguel County/ ore
deposits/ metal-mining districts/ Kiowa County/
Rio Blanco County/ Routt County/ Huerfano County/
Eagle County/

King, R. U., Moore, F. B., and Leonard, B. F., 1952

Front Range/ Boulder County/ Clear Creek County/
Garfield County/ Gilpin County/ Jefferson County/
Kiowa County/ Larimer County/ Moffat County/
Pitkin County/ Rio Blanco County/ Routt County/
ore guides/ pitchblende/ hydrocarbons/ metal-mining
districts/ ore deposits/ limestone/ sandstone/
veins/ breccia pipes/ Eagle County/ Igneous-metamorphic/
hot spring deposits/ fluorite/

Leonard, B. F., 3d, 1953

pitchblende/ ore deposits/ zoning/ Lake County/
Front Range/ Gilpin County/ Clear Creek County/
Igneous-metamorphic/ Pitkin County/ Teller County/
San Juan County/ Coeur d'Alene/ Idaho/

Mullens, T. E., and Freeman, V. L., 1954

lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/
Colorado Plateau/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ La Plata County/ Moffat County/ Garfield
County/ Delta County/ San Juan County/ Eagle
County/ Pitkin County/ Gunnison County/ Ouray
County/ Hinsdale County/ Archuleta County/ genesis/
ore deposits/ Morrison Formation/ Rio Blanco
County/

Mullens, T. E., and Freeman, V. L., 1957

lithofacies/ Salt Wash Member/ sandstone/ San
Juan County/ Morrison Formation/ stratigraphy/
Colorado Plateau/ Moffat County/ Rio Blanco
County/ Garfield County/ Eagle County/ Mesa
County/ Delta County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ La
Plata County/ genesis/ ore deposits/ Pitkin
County/ Gunnison County/ Ouray County/ Hinsdale
County/ Archuleta County/

Pierson, C. T., Burbank, W. S., and Singewald,
Q. D., 1952

Colorado mineral belt/ ore deposits/ veins/
igneous-metamorphic/ Pitkin County/ Park County/
Ouray County/ San Juan County/ San Miguel County/
uranium/ Colorado Plateau/

Scott, R. C., and Barker, F. B., 1962

data/ uranium/ radium/ ground water/ analyses/
Logan County/ Phillips County/ Prowers County/
Yuma County/ Jefferson County/ Garfield County/
Kit Carson County/ Pitkin County/ Mesa County/
Huerfano County/ Baca County/ Montezuma County/
Front Range/ Colorado Plateau/

U.S. Atomic Energy Commission, 1966

geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Pitkin County/ reconnaissance/
igneous-metamorphic/ ore deposits/

Walker, G. W., 1956

ore deposits/ host rocks/ alteration/ veins/
sandstone/ igneous-metamorphic/ limestone/ Boulder
County/ Park County/ Front Range/ Gilpin County/
Clear Creek County/ Jefferson County/ Saguache
County/ coal/ dolomite/ Pitkin County/ Larimer
County/ Caribou mine/ Los Ochos mine/ Leyden
coal mine/ Copper King mine/

PROWERS COUNTY

Brown, L. J., and Easton, W. W., 1955

ore deposits/ reconnaissance/ airborne/ Huerfano
Embayment/ Intrusives/ volcanics/ Las Animas
Arch/ La Veta Pass area/ Huerfano County/ Las
Animas County/ Otero County/ Costilla County/
Pueblo County/ Crowley County/ Kiowa County/
Bent County/ Prowers County/ Baca County/ sandstone/
shale/ claystone/ igneous-metamorphic/

PROWERS COUNTY

PUEBLO COUNTY

- Landis, E. R., 1960
ground water/ surface water/ Great Plains/ analyses/
Baca County/ Bent County/ Cheyenne County/ Crowley
County/ Kiowa County/ Lincoln County/ Prowers
County/ sandstone/ Las Animas County/ geochemistry/
- Scott, R. C., and Barker, F. B., 1961
ground water/ radium/ La Plata County/ Cheyenne
County/ Kiowa County/ Lincoln County/ Crowley
County/ Otero County/ Bent County/ Prowers County/
Las Animas County/ Baca County/ Montezuma County/
Archuleta County/ Colorado Plateau/
- Scott, R. C., and Barker, F. B., 1962
data/ uranium/ radium/ ground water/ analyses/
Logan County/ Phillips County/ Prowers County/
Yuma County/ Jefferson County/ Garfield County/
Kit Carson County/ Pitkin County/ Mesa County/
Huerfano County/ Baca County/ Montezuma County/
Front Range/ Colorado Plateau/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
Prowers County/ reconnaissance/ ore deposits/
Great Plains/ sandstone/ radioactivity/
- Voegell, P. T., Sr., and Hershey, L. A., 1960
Prowers County/ ground water/ radium/ uranium/
beta-gamma activity/ aquifers/ data/ radioactivity/
analyses/ wells/ logs/ test holes/
- Voegell, P. T., Sr., and Hershey, L. A., 1965
Prowers County/ ground water/ aquifers/ springs/
resources/ radioactivity/ Arkansas River/ beta-gamma
activity/ uranium/ radium/ geology/

PUEBLO COUNTY

- Adler, H. H., 1963
genesis/ sandstone/ ore deposits/ Jefferson
County/ Pueblo County/ Gunnison County/ Moffat
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ Colorado Plateau/ Front Range/
Rio Blanco County/
- Adler, H. H., 1964
uranium/ roll ore/ exploration/ sandstone/ ore
deposits/ Jefferson County/ Pueblo County/ Gunnison
County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
San Miguel County/ Montezuma County/ La Plata
County/ Archuleta County/ Moffat County/ Colorado
Plateau/ Front Range/ Dolores County/
- Boos, C. M., and Boos, M. F., 1957
tectonics/ Front Range/ igneous-metamorphic/
Gipin County/ Larimer County/ Boulder County/
Jefferson County/ geology/ Clear Creek County/
Park County/ Douglas County/ Teller County/
El Paso County/ Fremont County/ Pueblo County/
granite/ schist/ gneiss/ pegmatite/
- Boyer, R. E., 1961
Badito Cone/ zirconium/ phonolite/ Huerfano

- County/ Dakota Sandstone/ Morrison Formation/
Stumbling Stud claims/ Wet Mountains/ Pueblo
County/ sandstone/ fluorite/ thorium/ uranium/
cement/ rhyolite/ igneous-metamorphic/
- Brown, L. J., and Easton, W. W., 1955
ore deposits/ reconnaissance/ airborne/ Huerfano
Embayment/ intrusives/ volcanics/ Las Animas
Arch/ La Veta Pass area/ Huerfano County/ Las
Animas County/ Otero County/ Costilla County/
Pueblo County/ Crowley County/ Kiowa County/
Bent County/ Prowers County/ Baca County/ sandstone/
shale/ claystone/ igneous-metamorphic/
- Brown, L. J., and Malan, R. C., 1954
ore deposits/ exploration/ Sangre de Cristo/
reconnaissance/ province/ Canyon City embayment/
City Slicker mine/ igneous-metamorphic/ El Paso
County/ Las Animas County/ La Veta Pass/ Alamosa
County/ Costilla County/ sandstone/ Fremont
County/ Huerfano County/ County/ Pueblo County/
Rio Grande County/ Saguache County/ Teller County/
Dakota Sandstone/ Morrison Formation/ Cripple
Creek-Victor district/
- Christman, R. A., Brock, M. R., and Singewald,
Q. D., 1954
Wet Mountains/ ore deposits/ exploration/ Custer
County/ thorium/ Fremont County/ Pueblo County/
veins/ igneous-metamorphic/
- Christman, R. A., Brock, M. R., Pearson, R. C.,
and others, 1955
Wet Mountains/ ore deposits/ thorium/ Custer
County/ Fremont County/ veins/ igneous-metamorphic/
rare earths/ Pueblo County/
- Christman, R. A., Brock, M. R., Pearson, R. C.,
and others, 1960
Wet Mountains/ ore deposits/ resources/ production/
geology/ thorium/ Custer County/ Pueblo County/
Fremont County/ veins/ igneous-metamorphic/
- Cross, C. W., 1915
Pueblo County/ Las Animas County/ Huerfano County/
petrology/ dike rocks/ igneous-metamorphic/
Apishapa quadrangle/
- Finch, W. I., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/
geology/ Larimer County/ Jackson County/ Routt
County/ Moffat County/ Garfield County/ Grand
County/ Eagle County/ Boulder County/ Jefferson
County/ Park County/ Mesa County/ Montrose County/
El Paso County/ San Miguel County/ Bent County/
Park County/ Saguache County/ Pueblo County/
Dolores County/ Las Animas County/ Huerfano
County/ Costilla County/ Custer County/ San
Juan County/ La Plata County/ Montezuma County/
- George, R. D., Curtis, H. A., Lester, O. C., and
others, 1920
Colorado Plateau/ mineralized waters/ springs/
spring deposits/ Front Range/ Jefferson County/
Pitkin County/ Pueblo County/ Garfield County/
Park County/ El Paso County/ Ouray County/ Boulder
County/ Gunnison County/ Delta County/ Chaffee
County/

PUEBLO COUNTY

RIO BLANCO COUNTY

Gerhard, L. C., and Mark, Anson, 1968
 Pueblo County/ Custer County/ Wet Mountains/
 Paleozoic/ Mesozoic/ geology/ sandstone/ guidebook/
 Fremont County/ Igneous-metamorphic/ alkalic
 igneous rocks/

Landis, E. R., 1955
 Cheyenne County/ Crowley County/ Kiowa County/
 Las Animas County/ Pueblo County/ genesis/ Pierre
 Shale/ Niobrara Formation/ shale/ Sharon Spring
 Member/ black shales/ ore deposits/ radioactivity/
 uranium/ Yuma County/ stratigraphy/ uraniferous/

Landis, E. R., 1959
 Colorado/ Kansas/ ore deposits/ Cretaceous/
 Pierre Shale/ Sharon Springs Member/ radioactivity/
 Cheyenne County/ Crowley County/ Kiowa County/
 Yuma County/ Las Animas County/ Pueblo County/
 shale/ black shale/

Nash, A. L., and Brown, L. J., 1954
 Canon City embayment/ airborne radiometrics/
 Pueblo County/ shale/ clay/ George Avery Ranch/
 carnotite/ analyses/ Hoyt Adkins Ranch/ Burgess
 prospect/ El Paso County/ Dawson Arkose/ sandstone/
 Dakota Formation/ Fremont County/ geology/ Morrison
 Formation/ Front Range/

Osterwald, F. W., 1956
 Cordilleran foreland/ Clear Creek County/ Jefferson
 County/ ore deposits/ Routt County/ Jackson
 County/ El Paso County/ Park County/ Grand County/
 Front Range/ Igneous-metamorphic/ Larimer County/
 Eagle County/ Summit County/ Fremont County/
 Saguache County/ Teller County/ Chaffee County/
 tectonics/ Gilpin County/ Pueblo County/ Custer
 County/ Precambrian/ genesis/ structures/

Tourtelot, H. A., 1955
 Boulder County/ Cheyenne County/ Crowley County/
 Jefferson County/ Kiowa County/ Larimer County/
 Pueblo County/ mineralogy/ petrology/ geochemistry/
 black shale/ alteration/ White River group/
 uranium/ radioactivity/ Cretaceous shales/ Great
 Plains/ El Paso County/

Tourtelot, H. A., 1956
 marine black shales/ Boulder County/ Crowley
 County/ El Paso County/ Jefferson County/ Kiowa
 County/ Larimer County/ Pueblo County/ petrology/
 geochemistry/ black shale/ alteration/ White
 River group/ uranium/ radioactivity/ Cretaceous
 shales/ Great Plains/ Cheyenne County/ mineralogy/

U.S. Atomic Energy Commission, 1966
 geology/ uranium/ geophysical prospecting/ economic
 geology/ mining engineering/ petrology/ minerals/
 radioactivity/ Pueblo County/ reconnaissance/
 ore deposits/ Front Range/ sandstone/

RIO BLANCO COUNTY

Adler, H. H., 1963
 genesis/ sandstone/ ore deposits/ Jefferson

County/ Pueblo County/ Gunnison County/ Moffat
 County/ Garfield County/ Mesa County/ Delta
 County/ Montrose County/ San Miguel County/
 Dolores County/ Montezuma County/ La Plata County/
 Archuleta County/ Colorado Plateau/ Front Range/
 Rio Blanco County/

Adler, H. H., 1964
 uranium/ roll ore/ exploration/ sandstone/ ore
 deposits/ Jefferson County/ Pueblo County/ Gunnison
 County/ Rio Blanco County/ Garfield County/
 Mesa County/ Delta County/ Montrose County/
 San Miguel County/ Montezuma County/ La Plata
 County/ Archuleta County/ Moffat County/ Colorado
 Plateau/ Front Range/ Dolores County/

Anonymous, 1913
 carnotite/ pitchblende/ radium/ Gilpin County/
 Quartz Hill/ Meeker/ Skull Creek/ Utah/ Colorado/
 Moffat County/ Paradox Valley/ Colorado Plateau/
 uranium/ sandstone/ igneous-metamorphic/ Rio
 Blanco County/ Front Range/ San Miguel County/

Bell, K. G., 1960
 uranium/ trace elements/ petroleum/ asphalts/
 distribution/ occurrence/ Colorado Plateau/
 Rocky Mountains/ United States/ Rio Blanco County/
 Jefferson County/ Front Range/

Boyer, W. H., 1956
 ore deposits/ sandstone/ stratigraphy/ Colorado
 Plateau/ vanadium/ mineralization/ exploration/
 White River Plateau/ Rio Blanco County/ conglomerate/
 siltstone/ mudstone/ County/ Garfield County/
 reconnaissance/ geology/ Morrison Formation/
 Chinle Formation/ Burrell mines/ Last Day mine/
 Coal Creek mine/ Uranium Peak/ Coal Creek anticline/
 Sleepy Cat area/

Cadigan, R. A., 1955
 Dolores County/ Garfield County/ Mesa County/
 sandstone/ Montrose County/ Rio Blanco County/
 San Miguel County/ Entrada Sandstone/ Morrison
 Formation/ stratigraphy/ Todilto Limestone/
 Chinle Formation/ limestone/ host rocks/ conglomerate/
 Colorado Plateau/ Triassic/ Jurassic/

Cadigan, R. A., 1959
 Colorado Plateau/ ore deposits/ sandstone/ host
 rock/ Garfield County/ Rio Blanco County/ Mesa
 County/ Montrose County/ San Miguel County/
 Dolores County/ San Juan County/ Morrison Formation/
 Entrada Sandstone/

Cadigan, R. A., 1967
 petrology/ Morrison Formation/ Colorado Plateau/
 sandstone/ Gunnison County/ La Plata County/
 Archuleta County/ San Miguel County/ Mesa County/
 Delta County/ Eagle County/ Montrose County/
 Montezuma County/ mineralogy/ Rio Blanco County/
 Salt Wash Member/

Cadigan, R. A., 1971
 petrology/ Moenkopi Formation/ Colorado Plateau/
 mineralogy/ Moffat County/ Rio Blanco County/
 Garfield County/ Mesa County/ Delta County/
 Montrose County/ San Miguel County/ Dolores
 County/ Montezuma County/ sandstone/ stratigraphy/

- Cadigan, R. A., 1971
geochemical distribution/ Colorado Plateau/ red beds/ vanadium/ sandstone/ La Plata County/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Rio Blanco County/ geochemistry/ Garfield County/ Moenkopi Formation/
- Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/
- Cannon, H. L., 1960
Colorado Plateau/ ore deposits/ botanical prospecting/ exploration/ indicator plants/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ geobotany/
- Carter, W. D., and Gualtieri, J. L., 1958
map/ tectonics/ Colorado/ Utah/ Moffat County/ Logan County/ geology/ Larimer County/ Jackson County/ Boulder County/ Jefferson County/ Clear Creek County/ Gilpin County/ Summit County/ Grand County/ Eagle County/ Routt County/ Garfield County/ Rio Blanco County/ sandstone/ Igneous-metamorphic/ ore deposits/
- Cashion, W. B., 1973
geology/ structure/ map/ Grand Junction quadrangle/ Colorado/ Utah/ Colorado Plateau/ Mesa County/ sandstone/ Rio Blanco County/ Garfield County/
- Cater, F. W., Jr., Craig, L. C., and Phoenix, D. A., 1950
sandstone/ Morrison Formation/ Salt Wash Member/ geology/ Colorado Plateau/ ground water studies/ carnotite/ stratigraphy/ structure/ ore deposits/ Colorado/ New Mexico/ Utah/ Arizona/ San Miguel County/ Montrose County/ Mesa County/ Garfield County/ Rio Blanco County/
- Chew, R. T., 3d, 1955
Colorado Plateau/ Rifle mine/ Uravan district/ map/ Uranium Peak/ sandstone/ production/ uranium/ vanadium/ Morrison Formation/ La Plata County/ ore deposits/ Entrada Sandstone/ Rio Blanco County/ Mesa County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Gateway district/
- Chew, R. T., 3d, 1956
Rifle mine/ Uravan district/ Uranium Peak/ vanadium/ production/ Colorado Plateau/ uranium/ sandstone/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Entrada Sandstone/ ore deposits/ Garfield County/ Morrison Formation/
- Chew, R. T., 3d, and Fischer, R. P., 1954
ore deposits/ Rifle district/ Rio Blanco County/ Colorado/ Moffat County/ Maybell-Lay district/ Coal Creek area/ Skull Creek district/ Browns Park Formation/ Garfield County/ Meeker district/ Utah/ Entrada Sandstone/ sandstone/ Colorado Plateau/
- Craig, L. C., and Holmes, C. N., 1951
Morrison Formation/ Colorado Plateau/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Mesa County/ stratigraphy/ Glen Canyon group/ San Rafael group/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951
Colorado Plateau/ Morrison Formation/ Mesa County/ stratigraphy/ Glen Canyon group/ Montezuma County/ Delta County/ San Rafael group/ Dolores County/ Gunnison County/ Montrose County/ sandstone/ Moffat County/ Ouray County/ San Juan County/ San Miguel County/ La Plata County/ Rio Blanco County/ Garfield County/ Archuleta County/
- Curran, T. F., 1913
Colorado Plateau/ ore deposits/ carnotite/ history/ Gilpin County/ Wood mine/ Montrose County/ sandstone/ Igneous-metamorphic/ pitchblende/ San Miguel County/ Mesa County/ Dolores County/ Routt County/ Paradox Valley/ Rio Blanco County/ Utah/ Australia/ Front Range/
- Curran, T. F., 1913
ore deposits/ carnotite/ San Miguel County/ history/ Gilpin County/ Wood mine/ Montrose County/ Colorado Plateau/ sandstone/ pitchblende/ Mesa County/ Dolores County/ Routt County/ Rio Blanco County/ Paradox Valley/ Utah/ Australia/ Front Range/ Igneous-metamorphic/
- Ebbley, Norman, 1950
Colorado Plateau/ mines/ uranium/ Colorado/ Utah/ vanadium/ production problems/ Uravan district/ Gateway district/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Garfield County/ Rifle mine/ Morrison Formation/ Entrada Sandstone/ Dolores County/
- Erickson, R. L., Gott, G. B., Myers, A. T., and others, 1953
uranium/ metals/ crude oil/ asphalt/ shale/ bituminous substances/ Moffat County/ Jefferson County/ Rio Blanco County/ sandstone/
- Erickson, R. L., Myers, A. T., and Horr, C. A., 1952
uranium/ metals/ crude oil/ asphalt/ shale/ bituminous substances/ Moffat County/ Jefferson County/ Rio Blanco County/ sandstone/
- Erickson, R. L., Myers, A. T., and Horr, C. A., 1954
uranium/ metals/ crude oil/ asphalt/ shale/ bituminous substances/ Moffat County/ Jefferson County/ Rio Blanco County/ sandstone/
- Finch, W. I., 1955
Colorado Plateau/ ore deposits/ uranium/ sandstone/

- copper/ conglomerate/ ore-bearing formation/ limestone/ vanadium/ Rio Blanco County/ Garfield County/ Mesa County/ geology/ Delta County/ San Miguel County/ Dolores County/ Rifle mine/ Montezuma County/ La Plata County/ Greysill mine/ Placerville district/ Uravan district/ Gateway district/ map/ geology/
- Finch, W. I., 1956
Colorado Plateau/ ore deposits/ La Plata County/ production/ Triassic/ Chinle Formation/ shale/ sandstone/ conglomerate/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Garfield County/ Rio Blanco County/ geology/
- Finch, W. I., 1959
Colorado Plateau/ ore deposits/ production/ Triassic/ Chinle Formation/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ sandstone/ conglomerate/ shale/ Garfield County/ Rio Blanco County/ geology/
- Fischer, R. P., 1950
Colorado Plateau/ ore deposits/ sandstone/ uranium/ Morrison Formation/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ ore guides/ Garfield County/ San Miguel County/
- Fischer, R. P., 1950
Morrison Formation/ Colorado Plateau/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/ Garfield County/ Rio Blanco County/ sandstone/ ore rolls/ carnotite/ geology/ ore deposits/ mineralogy/ alteration/ Club mine/ uranium/ radium/ vanadium/ Entrada Sandstone/ genesis/
- Fischer, R. P., 1955
Durango district/ Placerville district/ Rico district/ uranium/ vanadium/ chromium/ Delta County/ Garfield County/ La Plata County/ Ouray County/ Rio Blanco County/ San Juan County/ San Miguel County/ minerals/ mariposite/ sandstone/ Entrada Sandstone/ regional relations/ ore deposits/ Colorado Plateau/ Mesa County/ Moffat County/ Montezuma County/ Montrose County/ Rifle area/ Dolores County/
- Fischer, R. P., 1968
Colorado Plateau/ geology/ structure/ ore deposits/ genesis/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ Chinle Formation/ Morrison Formation/ Montezuma County/ La Plata County/ San Juan County/ Garfield County/ Rio Blanco County/ Moffat County/ Entrada Sandstone/ production/ stratigraphy/
- Fischer, R. P., 1970
Colorado/ Wyoming/ Colorado Plateau/ genesis/ supergene processes/ ore deposits/ sandstone/ configuration/ distribution/ uranium/ Arizona/ mineralogy/ New Mexico/ Utah/ Mesa County/ Montrose County/ Montezuma County/ Dolores County/ San Miguel County/ Rio Blanco County/
- Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ clay mineralogy/ uranium/ vanadium/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Gale, H. S., 1907
Rio Blanco County/ Coal Creek district/ ore deposits/ carnotite/ areal geology/ coal/ sandstone/ Colorado Plateau/
- Garrels, R. M., and Larsen, E. S., 3d, compilers, 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ sandstone/ ground water/ clay/ mudstone/ organics/ Peanut mine/ J. J. mine/ Montrose County/ Rifle mine/ Garfield mine/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Archuleta County/
- George, R. D., 1917
minerals/ rocks/ Colorado/ occurrences/ uses/ Colorado Plateau/ sandstone/ igneous-metamorphic/ uranium/ vanadium/ radium/ carnotite/ pitchblende/ Jefferson County/ Gilpin County/ Front Range/ Montrose County/ San Miguel County/ Dolores County/ Garfield County/ Rio Blanco County/ Routt County/ Boulder County/
- Gruenerwald, William, and Richardson, G. R., 1945
vanadium/ geology/ stratigraphy/ sandstone/ mineralization/ uranium/ ore deposits/ exploration/ Sleepy Cat Mountain/ district/ White River uplift area/ Colorado Plateau/ Rio Blanco County/ carnotite/ Stealey prospect/
- Guillotte, G. B., 1944
minerals/ hydrocarbons/ Uinta basin/ Colorado/ Utah/ Garfield County/ Rio Blanco County/ uranium/ Colorado Plateau/ reconnaissance/ ore deposits/ sandstone/ Mesa County/ glisonite/ shale/ Green River Formation/ oil shale/ native asphalts/
- Hess, F. L., 1914
genesis/ carnotite/ Colorado/ uranium/ vanadium/ Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/
- Hess, F. L., 1925
carnotite/ vanoxide/ vanadium/ mineralogy/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Colorado Plateau/ ore deposits/ Delta County/
- Hill, J. W., 1945
uranium/ reserves/ ore deposits/ exploration/ geology/ Coal Creek anticline/ White River uplift/ Colorado Plateau/ sandstone/ Urlo mine/ Riland

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- N mine/ Riland S mine/ Hess mine/ Quin Burrell prospect/ Uranium Peak prospect/ Rio Blanco County/
- Hunt, C. B., 1956
Cenozoic/ geology/ Colorado Plateau/ physiography/ stratigraphy/ Moffat County/ sandstone/ Delta County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Hyden, H. J., 1956
uranium/ crude oil/ petroleum/ Moffat County/ conglomerate/ Triassic/ Jurassic/ Entrada Sandstone/ Morrison Formation/ Archuleta County/ Cretaceous/ Dakota Sandstone/ Mancos Shale/ Morgan County/ Rio Blanco County/ sandstone/ trace elements/ Shinarump Member/ Fremont County/
- Isachsen, Y. W., 1955
Skull Creek district/ Uranium Peak district/ ore deposits/ Garfield County/ sandstone/ Rio Blanco County/ Moffat County/ guidebook/ Colorado Plateau/
- Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1955
Colorado Plateau/ ore deposits/ absolute age/ host rocks/ sandstone/ formational environments/ Entrada Sandstone/ Kayenta Formation/ Garfield County/ Moffat County/ Rio Blanco County/ San Miguel County/ Mesa County/ Montrose County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ regional transmissivity/ Delta County/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Montrose County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/
- Jobin, D. A., 1962
Colorado Plateau/ ore deposits/ Morrison Formation/ transmissivity/ sandstone/ San Miguel County/ ground water/ conglomerate/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/
- Keller, W. D., 1962
clay minerals/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ mineralogy/ Mesa County/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/
- Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/
- Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ Archuleta County/ Ouray County/ Gunnison County/ Montrose County/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Moffat County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ regional structure/
- Kelley, V. C., 1959
structures/ fracture systems/ Colorado Plateau/

faults/ fractures/ Mesa County/ Montrose County/
San Miguel County/ sandstone/ Montezuma County/
Moffat County/ San Juan County/ Ouray County/
Delta County/ Gunnison County/ Garfield County/
La Plata County/ Rio Blanco County/

Kelley, V. C., 1959

Jointing/ Colorado Plateau/ sandstone/ structures/
Montezuma County/ Dolores County/ Montrose County/
Mesa County/ Delta County/ Garfield County/
Rio Blanco County/ Moffat County/ San Miguel
County/

Kelley, V. C., and Clinton, N. J., 1960

Colorado Plateau/ sandstone/ fractures/ tectonics/
genesis/ structures/ Montezuma County/ Dolores
County/ Montrose County/ Mesa County/ Delta
County/ Garfield County/ Rio Blanco County/
Moffat County/ San Miguel County/

Kerr, P. F., 1958

uranium/ ore deposits/ genesis/ alteration/
mineralogy/ Colorado Plateau/ Archuleta County/
conglomerate/ sandstone/ Moffat County/ Rio
Blanco County/ Garfield County/ Mesa County/
Delta County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/

Kerr, P. F., 1958

Colorado Plateau/ ore deposits/ genesis/ sandstone/
stratigraphy/ uranium/ Moffat County/ Rio Blanco
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Montezuma County/ La Plata County/ Archuleta
County/ hydrothermal emplacement/ Dolores County/

King, R. U., Leonard, B. F., Moore, F. B., and
others, 1952

Front Range/ Boulder County/ Clear Creek County/
Garfield County/ Gilpin County/ Jefferson County/
Larimer County/ Moffat County/ Pitkin County/
pitchblende/ hydrocarbons/ Kiowa County/ Rio
Blanco County/ Routt County/ hot spring deposits/
limestone/ pegmatites/ sandstone/ veins/ breccia
pipes/ igneous-metamorphic/ Park County/ Lake
County/ geology/ mineralogy/ San Miguel County/
ore deposits/ metal-mining districts/ Huerfano
County/ Eagle County/

King, R. U., Leonard, B. F., Moore, F. B., and
others, 1953

Front Range/ Boulder County/ Clear Creek County/
Garfield County/ Gilpin County/ Jefferson County/
Larimer County/ Moffat County/ Pitkin County/
pitchblende/ hydrocarbons/ hot spring deposits/
limestone/ sandstone/ veins/ breccia pipes/
igneous-metamorphic/ Park County/ Lake County/
geology/ mineralogy/ San Miguel County/ ore
deposits/ metal-mining districts/ Kiowa County/
Rio Blanco County/ Routt County/ Huerfano County/
Eagle County/

King, R. U., Moore, F. B., and Leonard, B. F., 1952

Front Range/ Boulder County/ Clear Creek County/
Garfield County/ Gilpin County/ Jefferson County/
Kiowa County/ Larimer County/ Moffat County/
Pitkin County/ Rio Blanco County/ Routt County/
ore guides/ pitchblende/ hydrocarbons/ metal-mining

districts/ ore deposits/ limestone/ sandstone/
veins/ breccia pipes/ Eagle County/ igneous-metamorphic/
hot spring deposits/ fluorite/

Kleinhampl, F. J., and Koteff, Carl, 1955

Meeker area/ Rio Blanco County/ exploration/
Colorado Plateau/ sandstone/ geobotany/

Kleinhampl, F. J., and Koteff, Carl, 1956

Rio Blanco County/ Colorado Plateau/ sandstone/
geobotany/ exploration/

Lavery, R. A., and Gross, E. B., 1956

Colorado Plateau/ ore deposits/ genesis/ paragenesis/
uranium/ Meeker/ Rio Blanco County/ sandstone/

Lavery, R. A., and Gross, E. B., 1956

paragenesis/ uranium/ ore deposits/ Colorado
Plateau/ Meeker/ Rio Blanco County/ sandstone/
genesis/

Miesch, A. T., 1963

Colorado Plateau/ ore deposits/ elements/ geology/
Morrison Formation/ Chinle Formation/ Moffat
County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
San Miguel County/ Montezuma County/ La Plata
County/ Archuleta County/ sandstone/ Dolores
County/

Moore, G. W., 1953

Boulder County/ Centennial coal mine/ Crested
Butte/ Rio Blanco County/ uranium/ coal/ Gunnison
County/ aqueous solutions/ uranium extraction/
Kebler mine/

Moore, G. W., 1954

uranium extraction/ uranium/ coal/ Boulder County/
Centennial coal mine/ Crested Butte/ Kebler
mine/ Rio Blanco County/ Gunnison County/ aqueous
solutions/

Mullens, T. E., and Freeman, V. L., 1954

lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/
Colorado Plateau/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ La Plata County/ Moffat County/ Garfield
County/ Delta County/ San Juan County/ Eagle
County/ Pitkin County/ Gunnison County/ Ouray
County/ Hinsdale County/ Archuleta County/ genesis/
ore deposits/ Morrison Formation/ Rio Blanco
County/

Mullens, T. E., and Freeman, V. L., 1957

lithofacies/ Salt Wash Member/ sandstone/ San
Juan County/ Morrison Formation/ stratigraphy/
Colorado Plateau/ Moffat County/ Rio Blanco
County/ Garfield County/ Eagle County/ Mesa
County/ Delta County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ La
Plata County/ genesis/ ore deposits/ Pitkin
County/ Gunnison County/ Ouray County/ Hinsdale
County/ Archuleta County/

Murray, D. K., and Haun, J. D., 1974

age estimation/ geology/ geomorphology/ mineral
resources/ natural gas/ petroleum/ Piceance
Creek basin/ sediments/ stratigraphy/ uranium/

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RIO BLANCO COUNTY

- Utah/ Rio Blanco County/ Garfield County/ Mesa County/ Moffat County/ Colorado Plateau/ sandstone/
- Narten, P. F., Crawford, J. E., and Butler, A. P., Jr., 1951
Clear Creek County/ Garfield County/ Jefferson County/ Montrose County/ Rio Blanco County/ Dakota Sandstone/ Mesa County/ Fountain Formation/ Green River Formation/ Laramie Formation/ Hermosa Formation/ Paradox Member/ shales/ sandstone/ Front Range/ Colorado Plateau/
- Newman, W. L., 1962
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ sandstone/ mudstone/ limestone/ Uravan district/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/
- Noble, E. A., and Annes, E. C., Jr., 1957
Uinta basin/ ore deposits/ exploration/ Chinle Formation/ Curtiss Formation/ Morrison Formation/ Mesaverde Group/ Green River Formation/ Uinta Formation/ Moffat County/ Rio Blanco County/ sandstone/ mudstone/ siltstone/ limestone/ shale/ Skull Creek district/ conglomerate/ Weber Sandstone/ Colorado Plateau/
- Notestein, F. B., 1918
ore deposits/ geochemistry/ genesis/ experimental studies/ uranium/ vanadium/ Colorado Plateau/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/
- Osterwald, F. W., and Dean, B. G., 1956
bibliography/ structural geology/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ Clear Creek County/ Igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/ ore deposits/ tectonics/
- Osterwald, F. W., and Dean, B. G., 1958
ore deposits/ tectonics/ structural geology/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ Igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/
- Schultz, L. G., 1963
clay minerals/ Moenkopi Formation/ Chinle Formation/ x-ray diffraction/ Ouray County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Colorado Plateau/ sandstone/ La Plata County/
- Shoemaker, E. M., 1956
structural features/ Colorado Plateau/ ore deposits/ veins/ Moffat County/ Rio Blanco County/ La Plata County/ uranium/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ San Juan County/ Ouray County/ sandstone/
- Montezuma County/ Dolores County/ Archuleta County/ County/ San Juan County/
- Shoemaker, E. M., and Luedke, R. G., 1952
Colorado Plateau/ map/ uranium/ ore deposits/ sandstone/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Ouray County/ Montezuma County/ La Plata County/ Garfield County/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Rio Blanco County/ reconnaissance/ ore deposits/ sandstone/
- U.S. Geological Survey, 1950
shales/ radioactivity/ carbonaceous shales/ Jefferson County/ Rio Blanco County/ oil shale/ Front Range/ Colorado Plateau/ bituminous shales/
- U.S. Geological Survey, 1954
Clear Creek County/ Gilpin County/ ore deposits/ reserves/ Colorado Plateau/ exploration/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Moffat County/ Dolores County/ Rio Blanco County/ Front Range/ Igneous-metamorphic/ Jefferson County/ pitchblende/ hydrogeochemical exploration/ stream sediments/ ground water/ mine waters/
- Vine, J. D., and Moore, G. W., 1952
Middle Park/ North Park/ Grand County/ Jackson County/ Moffat County/ Rio Blanco County/ Routt County/ coal/ carbonaceous rocks/ Wyoming/ occurrences/ Idaho/ Colorado/ Colorado Plateau/ ore deposits/ sandstone/
- Webber, B. N., 1943
uranium/ ore deposits/ geology/ stratigraphy/ topography/ geological surveys/ mineralization/ White River uplift/ Rio Blanco County/ sandstone/ Colorado Plateau/ Oak Ridge fold district/
- Webber, B. N., 1943
Colorado Plateau/ uranium/ ore deposits/ geology/ carnotite/ sandstone/ stratigraphy/ vanadium/ uranium/ reserves/ Coal Creek anticline/ White River uplift/ Rio Blanco County/ mineralization/ maps/ Coal Creek anticline district/
- Webber, B. N., 1944
uranium/ ore deposits/ maps/ geology/ Colorado Plateau/ mineralization/ Grand Hogback district/ White River uplift/ Rio Blanco County/ Garfield County/ sandstone/
- Weeks, A. D., Coleman, R. G., and Thompson, M. E., 1959
Colorado Plateau/ ore deposits/ mineralogy/ oxidation/ vanadium/ sandstone/ uranium/ Moffat County/ Dolores County/ Garfield County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/

RIO BLANCO COUNTY

ROUTT COUNTY

Weir, J. E., and Dinwiddie, G. A., 1973
Green River Formation/ Piceance Creek basin/
drilling/ fluids/ ground water/ Rio Blanco County/
oil shale/ shale/ exploration/ hydraulic testing/
Colorado Plateau/

Wood, H. B., and Grundy, W. D., 1956
exploration guides/ exploration techniques/
Shinarump Formation/ channels/ Colorado Plateau/
uranium/ Moffat County/ Rio Blanco County/ Garfield
County/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ sandstone/

Wright, R. J., 1955
Colorado Plateau/ ore deposits/ ore controls/
lithology/ sandstone/ genesis/ Moffat County/
Dolores County/ Rio Blanco County/ Garfield
County/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ La Plata County/
Archuleta County/

RIO GRANDE COUNTY

Brown, L. J., and Malan, R. C., 1954
ore deposits/ exploration/ Sangre de Cristo/
reconnaissance/ province/ Canyon City embayment/
City Slicker mine/ Igneous-metamorphic/ El Paso
County/ Las Animas County/ La Veta Pass/ Alamosa
County/ Costilla County/ sandstone/ Fremont
County/ Huerfano County/ County/ Pueblo County/
Rio Grande County/ Saguache County/ Teller County/
Dakota Sandstone/ Morrison Formation/ Cripple
Creek-Victor district/

Gow, T. T., 1914
basalt/ Table Mountain/ Igneous-metamorphic/
Jefferson County/ Conejos County/ Rio Grande
County/ Glimore/ Front Range/ radioactivity/

Hall, C. R., 1976
alkalic/ igneous rocks/ Igneous-metamorphic/
Gipin County/ Front Range/ bibliography/ San
Juan County/ Custer County/ Fremont County/
La Plata County/ Montezuma County/ Gunnison
County/ Saguache County/ El Paso County/ Rio
Grande County/ Jefferson County/ Larimer County/
Boulder County/ Colorado Plateau/ Clear Creek
County/ Teller County/

Larsen, E. S., and Cross, C. W., 1956
geology/ petrology/ San Juan region/ Colorado
Plateau/ Igneous-metamorphic/ Montrose County/
Ouray County/ San Miguel County/ Dolores County/
La Plata County/ Gunnison County/ Hinsdale County/
Archuleta County/ Mineral County/ Saguache County/
Conejos County/ Alamosa County/ San Juan County/
Montezuma County/ Rio Grande County/

Lipman, P. W., Bunker, C. M., and Bush, C. A., 1973
basalt/ spectroscopy/ Cenozoic rocks/ potassium/
thorium/ uranium/ Rio Grande depression/ geochemistry/
New Mexico/ ore composition/ Igneous-metamorphic/
Baca County/ Las Animas County/ Conejos County/
Costilla County/ Rio Grande County/ Alamosa
County/

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Rio Grande County/ reconnaissance/
ore deposits/

ROUTT COUNTY

Bass, N. W., Eby, J. B., and Campbell, M. R., 1955
Routt County/ Moffat County/ Mount Harris/ Pilot
Knob/ Elkhead Creek/ Dayton Peak/ coal/ gas/
oil/ geology/ mineral fuels/

Beroni, E. P., and Derzay, R. C., 1955
Fish Creek district/ ore deposits/ Routt County/
sample analysis/ uranium/

Beroni, E. P., and McKeown, F. A., 1952
reconnaissance/ marine black shales/ geology/
sandstone/ Entrada Sandstone/ Curtis Formation/
Igneous-metamorphic/ Skull Creek district/ Bozo
claims/ Fair-U claim/ Lucky Strike claims/ Grand
County/ Moffat County/ Routt County/ coal/ copper/
uranium/ limestone/ phosphates/ carnotite/ uraninite/
spring deposits/ migmatite/ granite/ Colorado/
Wyoming/ Utah/

Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado
Plateau/ paleontology/ sandstone/ Triassic strata/
Eagle County/ La Plata County/ Archuleta County/
Garfield County/ Mesa County/ Moffat County/
Montezuma County/ Pitkin County/ Montrose County/
Rio Blanco County/ Routt County/ San Miguel
County/ San Juan County/ Summit County/ Park
County/ Delta County/ Dolores County/ mineralogy/
conglomerate/ Gunnison County/ Ouray County/

Carter, W. D., and Gualtieri, J. L., 1958
map/ tectonics/ Colorado/ Utah/ Moffat County/
Logan County/ geology/ Larimer County/ Jackson
County/ Boulder County/ Jefferson County/ Clear
Creek County/ Gipin County/ Summit County/
Grand County/ Eagle County/ Routt County/ Garfield
County/ Rio Blanco County/ sandstone/ ore deposits/
Igneous-metamorphic/

Curran, T. F., 1913
Colorado Plateau/ ore deposits/ carnotite/ history/
Gipin County/ Wood mine/ Montrose County/ sandstone/
Igneous-metamorphic/ pitchblende/ San Miguel
County/ Mesa County/ Dolores County/ Routt County/
Paradox Valley/ Rio Blanco County/ Utah/ Australia/
Front Range/

Curran, T. F., 1913
ore deposits/ carnotite/ San Miguel County/
history/ Gipin County/ Wood mine/ Montrose
County/ Colorado Plateau/ sandstone/ pitchblende/
Mesa County/ Dolores County/ Routt County/ Rio
Blanco County/ Paradox Valley/ Utah/ Australia/
Front Range/ Igneous-metamorphic/

Finch, W. I., 1967
Colorado Plateau/ Front Range/ Igneous-metamorphic/

geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Bent County/ Dolores County Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Gale, H. S., 1908

Routt County/ carnotite/ ore deposits/ sandstone/ structural geology/ stratigraphy/ Yampa Plateau/

George, R. D., 1917

minerals/ rocks/ Colorado/ occurrences/ uses/ Colorado Plateau/ sandstone/ igneous-metamorphic/ uranium/ vanadium/ radium/ carnotite/ pitchblende/ Jefferson County/ Gilpin County/ Front Range/ Montrose County/ San Miguel County/ Dolores County/ Garfield County/ Rio Blanco County/ Routt County/ Boulder County/

Hess, F. L., 1914

genesis/ carnotite/ Colorado/ uranium/ vanadium/ Rio Blanco County/ Eagle County/ geology/ San Miguel County/ Montrose County/ Moffat County/ Routt County/ Garfield County/ Mesa County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Utah/ Colorado Plateau/ sandstone/ ore deposits/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952

Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952

Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1952

Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia

pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/

King, R. U., Leonard, B. F., Moore, F. B., and others, 1953

Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/

King, R. U., Moore, F. B., and Leonard, B. F., 1952

Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Kiowa County/ Larimer County/ Moffat County/ Pitkin County/ Rio Blanco County/ Routt County/ ore guides/ pitchblende/ hydrocarbons/ metal-mining districts/ ore deposits/ limestone/ sandstone/ veins/ breccia pipes/ Eagle County/ hot spring deposits/ fluorite/ igneous-metamorphic/

Malan, R. C., 1957

North Park/ Middle Park/ ore deposits/ Grand County/ igneous-metamorphic/ Jackson County/ Routt County/ peat/ sandstone/ Pead claims/ Northgate district/ Beaver Creek area/ Troublesome Creek area/ Rabbit Ears Pass area/

Miller, A. E., 1975

resources/ geology/ energy/ minerals/ maps/ Routt County/

Osterwald, F. W., 1956

Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/

Osterwald, F. W., and Dean, B. G., 1956

bibliography/ structural geology/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/ ore deposits/ tectonics/

Osterwald, F. W., and Dean, B. G., 1958

ore deposits/ tectonics/ structural geology/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/

ROUTT COUNTY

SAGUACHE COUNTY

Piplringos, G. N., Hail, W. J., Jr., and Izett, G. A., 1969
 Routt County/ Jackson County/ Chinle Formation/ Sundance Formation/ Park Range/ sandstone/ siltstone/ Triassic/ Jurassic/

Sagerstrom, Kenneth, and Young, E. J., 1972
 geology/ Hahns Peak quadrangle/ Farwell Mountain quadrangle/ Routt County/ Triassic/ Jurassic/ Precambrian rocks/ sedimentary rocks/ sandstone/ igneous-metamorphic/

U.S. Atomic Energy Commission, 1966
 geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Routt County/ reconnaissance/ ore deposits/ sandstone/ igneous-metamorphic/

Vine, J. D., and Moore, G. W., 1952
 Middle Park/ North Park/ Grand County/ Jackson County/ Moffat County/ Rio Blanco County/ Routt County/ coal/ carbonaceous rocks/ Wyoming/ occurrences/ Idaho/ Colorado/ Colorado Plateau/ ore deposits/ sandstone/

SAGUACHE COUNTY

Baker, Arthur, 3d, 1960
 Pitch mine/ Saguache County/ limestone/ geology/ veins/ ore deposits/ shale/

Baker, Arthur, 3d, and Scott, B. C., 1961
 Pitch mine/ ore deposits/ ground control/ geology/ Saguache County/ limestone/ veins/ shale/

Brown, L. J., and Malan, R. C., 1954
 ore deposits/ exploration/ Sangre de Cristo/ reconnaissance/ province/ Canyon City embayment/ City Slicker mine/ igneous-metamorphic/ El Paso County/ Las Animas County/ La Veta Pass/ Alamosa County/ Costilla County/ sandstone/ Fremont County/ Huerfano County/ Pueblo County/ Rio Grande County/ Saguache County/ Teller County/ Dakota Sandstone/ Morrison Formation/ Cripple Creek-Victor district/

Cannon, H. L., 1957
 Colorado Plateau/ ore deposits/ exploration/ vegetation/ indicator plants/ Utah/ botanical prospecting/ geobotany/ Colorado/ sandstone/ geochemistry/ Marshall Pass/ Saguache County/ Lookout No. 22 claim/ uranium/ igneous-metamorphic/ Astragalus/ botanical studies/

Coats, R. R., 1956
 felsic volcanic rocks/ igneous-metamorphic/ uranium/ trace elements/ Cenozoic/ genesis/ Gunnison County/ Pitkin County/ Lake County/ Park County/ Chaffee County/ Ouray County/ Saguache County/ Hinsdale County/

Coats, R. R., 1956
 uranium/ trace elements/ felsic volcanic rocks/ Cenozoic/ genesis/ igneous-metamorphic/ Gunnison County/ Pitkin County/ Lake County/ Park County/

Chaffee County/ Ouray County/ Saguache County/ Hinsdale County/

Derzay, R. C., 1956
 Los Ochos mine/ ore deposits/ Saguache County/ veins/ uranium/ geology/ mineralogy/ metamorphic rocks/ Cochetopa district/ igneous-metamorphic/ thorium/

Derzay, R. C., 1956
 veins/ geology/ mineralogy/ metamorphic rocks/ Cochetopa district/ Los Ochos mine/ uranium/ Saguache County/ igneous-metamorphic/ ore deposits/ thorium/

Dunn, J. E., 1957
 Marshall Pass/ ore deposits/ Saguache County/ uranium/ Gunnison County/ Chester fault/ Harding Sandstone/ igneous-metamorphic/ pegmatite/ limestone/ Belden Formation/ Leadville Limestone/

Everhart, D. L., 1956
 sandstone/ Colorado Plateau/ Front Range/ Copper King mine/ veins/ Larimer County/ Los Ochos mine/ Saguache County/ Caribou mine/ Boulder County/ Schwartzwalder mine/ Carroll mine/ Placerville district/ San Miguel County/ alteration/ pitchblende/ igneous-metamorphic/ Jefferson County/ Carroll mine/ structural tension/

Everhart, D. L., 1956
 pitchblende/ Colorado Plateau/ igneous-metamorphic/ granite/ Front Range/ Copper King mine/ Larimer County/ alteration/ Los Ochos mine/ Saguache County/ Caribou mine/ Carroll mine/ Boulder County/ San Miguel County/ ore deposits/ sandstone/ Placerville district/ Schwartzwalder mine/ Jefferson County/ structural tension/ United States/ Tertiary/ veins/ alteration/

Finch, W. I., 1967
 Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Gross, E. B., 1965
 pitchblende/ Gunnison County/ ore deposits/ geology/ production/ geochemistry/ mineralogy/ uranium minerals/ Marshall Pass/ Saguache County/ igneous-metamorphic/

Gruner, J. W., and Knox, J. A., 1957
 Colorado/ Arizona/ Montana/ New Mexico/ South Dakota/ minerals/ uranium/ ore deposits/ mines/ San Miguel County/ Colorado Plateau/ Fremont County/ Gunnison County/ Saguache County/ volcanics/ conglomerate/ Morrison Formation/ sandstone/ siltstone/ igneous-metamorphic/ Montrose County/ Mesa County/ Moffat County/ Browns Park Formation/

- Hall, C. R., 1976
alkalic/ igneous rocks/ igneous-metamorphic/
Gilpin County/ Front Range/ bibliography/ San
Juan County/ Custer County/ Fremont County/
La Plata County/ Montezuma County/ Gunnison
County/ Saguache County/ El Paso County/ Rio
Grande County/ Jefferson County/ Larimer County/
Boulder County/ Colorado Plateau/ Clear Creek
County/ Teller County/
- Hedlund, D. C., and Olson, J. C., 1974
Gunnison County/ Saguache County/ igneous-metamorphic/
thorium/ Iris NW quadrangle/ map/ geology/ ore
deposits/
- Hedlund, D. C., and Olson, J. C., 1975
geology/ Powderhorn quadrangle/ Gunnison County/
igneous-metamorphic/ ore deposits/ thorium/
map/ niobium/ carbonatite/ alkalic rocks/ Saguache
County/
- High, T. D., 1971
uranium/ vanadium/ mines/ sandstone/ Dolores
County/ Montrose County/ Saguache County/ Pitch
mine/ igneous-metamorphic/ San Miguel County/
Colorado Plateau/ Mesa County/
- High, T. D., 1972
uranium/ vanadium/ mines/ reports/ sandstone/
Montrose County/ San Miguel County/ Mesa County/
Saguache County/ igneous-metamorphic/ Pitch
mine/ Colorado Plateau/ Dolores County/
- Knøpper, D. H., Lee, Keenan, Butler, R. W., and
others, 1974
photogeology/ exploration/ hydrogeology/ remote
sensing/ uranium/ multispectral photography/
photomapping/ ore deposits/ Bonanza test site/
Saguache County/ Chaffee County/ geologic analyses/
- Larsen, E. S., and Cross, C. W., 1956
geology/ petrology/ San Juan region/ Colorado
Plateau/ igneous-metamorphic/ Montrose County/
Ouray County/ San Miguel County/ Dolores County/
La Plata County/ Gunnison County/ Hinsdale County/
Archuleta County/ Mineral County/ Saguache County/
Conejos County/ Alamosa County/ San Juan County/
Montezuma County/ Rio Grande County/
- Lee, Keenan, 1975
Colorado/ geology/ remote sensing/ hydrogeology/
uranium/ water/ resources/ Saguache County/
Chaffee County/ Bonanza test site/ ore deposits/
- Malan, R. C., 1969
Intermontane basins/ North Park/ Tertiary/ Middle
Park/ South Park/ Raton basin/ Tallahassee Creek
district/ sandstone/ ore deposits/ Grand County/
Teller County/ Park County/ arkose/ Fremont
County/ mudstone/ Huerfano County/ conglomerate/
genesis/ geology/ Gunnison County/ Saguache
County/ exploration/ water sampling/ Wet Mountains/
High Park/ Cochetopa district/ Marshall Pass/
Thirty-nine Mile field/
- Malan, R. C., and Ranspot, H. W., 1959
Cochetopa district/ ore deposits/ areal geology/
resources/ reserves/ Saguache County/ Gunnison
County/ uranium/ pitchblende/ igneous-metamorphic/
- Malan, R. C., Ranspot, H. W., and Spengler, R.
G., 1957
sandstone/ Saguache County/ Cochetopa district/
geology/ stratigraphy/ structure/ ore deposits/
Thornburg mine/ Los Ochos claims/ Kathy Jo claims/
LaRue claims/ veins/ igneous-metamorphic/ Morrison
Formation/ Dakota Sandstone/ granite/ faults/
solutions/ mineralogy/
- Marrs, L. F., 1970
ore treatment/ ion exchange/ Saguache County/
Pitch mine/ underground leaching/ igneous-metamorphic/
veins/ faults/ sandstone/ limestone/
- McCarn, D. W., and Freeman, R. W., 1976
ground water/ surface water/ United States/
uranium/ chemical analyses/ Colorado/ Front
Range/ Jefferson County/ Chaffee County/ Fremont
County/ Gunnison County/ Huerfano County/ Saguache
County/ Park County/ Colorado Plateau/
- McQueen, K., 1958
Saguache County/ Iris SE quadrangle/ photogeologic
map/ sandstone/ Los Ochos mine/ uranium/ ore
deposits/ structure/ Dakota Sandstone/ Morrison
Formation/ igneous-metamorphic/ Los Ochos fault/
Doyleville SW quadrangle/
- Olson, J. C., 1973
geology/ Rudolph Hill quadrangle/ map/ Gunnison
County/ thorium/ ore deposits/ Hinsdale County/
Saguache County/ igneous-metamorphic/
- Olson, J. C., 1975
uranium/ ore deposits/ Cochetopa district/ Oligocene
erosion surface/ Gunnison County/ sandstone/
Saguache County/ volcanics/ veins/ igneous-metamorphic/
- Olson, J. C., 1975
Iris quadrangle/ map/ geology/ Gunnison County/
Saguache County/ uranium/ igneous-metamorphic/
ore deposit/
- Olson, J. C., 1975
Houston Gulch quadrangle/ geology/ map/ Gunnison
County/ Saguache County/ igneous-metamorphic/
ore deposits/
- Olson, J. C., 1976
geology/ ore deposits/ Houston Gulch quadrangle/
Gunnison County/ igneous-metamorphic/ Saguache
County/
- Olson, J. C., 1976
Cochetopa district/ uranium/ geomorphology/
ore deposits/ igneous-metamorphic/ Saguache
County/ Gunnison County/ Oligocene erosion surface/
- Olson, J. C., 1976
Iris quadrangle/ map/ geology/ Gunnison County/
uranium/ igneous-metamorphic/ ore deposits/
Saguache County/
- Olson, J. C., 1977
uranium/ Pitch mine/ Gunnison County/ Saguache

- County/ Chaffee County/ map/ Igneous-metamorphic/ limestone/ shale/ ore deposits/ geology/
- Olson, J. C., and Overstreet, W. C., 1964
thorium/ Igneous-metamorphic/ veins/ resources/ alkalic rocks/ bostonite/ Gunnison County/ Saguache County/ Hinsdale County/ ore deposits/
- Olson, J. C., and Steven, T. A., 1975
Sawtooth Mountain quadrangle/ geology/ map/ Saguache County/ Igneous-metamorphic/ uranium/ thorium/ Cochetopa district/ ore deposits/
- Olson, J. C., and Steven, T. A., 1976
Razor Creek Dome quadrangle/ geology/ map/ Saguache County/ Igneous-metamorphic/ uranium/ Cochetopa district/ ore deposits/
- Olson, J. C., Butler, A. P., Jr., Finch, W. I., and Fischer, R. P., 1973
resources/ uranium/ thorium/ production/ exploration/ veins/ sandstone/ San Miguel County/ Colorado Plateau/ Gunnison County/ Saguache County/
- Olson, J. C., Marvin, R. F., Parker, R. L., and Mahnert, H. H., 1977
thorium/ alkalic rocks/ age dating/ carbonatite/ Gunnison County/ Saguache County/ Custer County/ Fremont County/ tectonics/ Igneous-metamorphic/ mafic rocks/ Paleozoic/ veins/
- Olson, J. C., Steven, T. A., and Hedlund, D. C., 1975
Spring Hill Creek quadrangle/ geology/ map/ Saguache County/ Igneous-metamorphic/ ore deposits/
- Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ Igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/
- Osterwald, F. W., 1965
ore deposits/ genesis/ veins/ mining districts/ structural controls/ Moffat County/ pitchblende/ conglomerate/ Front Range/ Igneous-metamorphic/ sandstone/ Jefferson County/ Boulder County/ Montrose County/ Clear Creek County/ Gilpin County/ Saguache County/ Fremont County/
- Pierson, C. T., 1953
San Juan Mountains/ San Juan County/ La Plata County/ Ouray County/ Dolores County/ Bonanza district/ Saguache County/ Mineral County/ Hinsdale County/ La Plata district/ Upper Uncompahgre district/ Colorado Plateau/ Igneous-metamorphic/
- Pierson, C. T., Weeks, W. F., and Kleinhampl, F. J., 1958
San Juan Mountains/ reconnaissance/ mining districts/ radioactivity/ Igneous-metamorphic/ San Juan County/ Ouray County/ San Miguel County/ La Plata County/ Hinsdale County/ Mineral County/ Saguache County/
- Raines, G. L., 1971
Gunnison County/ Saguache County/ sandstone/ limestone/ shale/ Igneous-metamorphic/ Sargents area/ geology/ veins/
- Ranspot, H. W., 1958
Indian Creek area/ ore deposits/ geology/ Gunnison County/ Saguache County/ uranium/ shale/ sandstone/ limestone/ Igneous-metamorphic/ limestone/ Pitch mine/
- Ranspot, H. W., and Spengler, R. G., 1957
uranium/ ore deposits/ radioactivity/ stratigraphy/ geology/ exploration/ Marshall Pass area/ Gunnison County/ Saguache County/ Igneous-metamorphic/ sandstone/ limestone/ Pitch mine/
- Rich, R. A., Holland, H. D., and Peterson, U., 1975
veins/ uranium/ ore deposits/ Igneous-metamorphic/ mineralogy/ fluid inclusions/ paragenesis/ hydrothermal/ pitchblende/ ground water/ Front Range/ Jefferson County/ Clear Creek County/ Gilpin County/ Gunnison County/ Saguache County/ Marshall Pass district/ Schwartzwalder mine/
- Rife, L. B., and Owens, J. P., 1957
Saguache County/ Pitch mine/ Cashin mine/ Montrose County/ Colorado Plateau/ mineralogy/ sandstone/ veins/ Igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Saguache County/ reconnaissance/ ore deposits/ limestone/ sandstone/ Igneous-metamorphic/
- Van Alstine, R. E., 1968
structural geology/ Tertiary trough/ Arkansas Valley/ San Luis Valley/ Rio Grande depression/ Fremont County/ Chaffee County/ Lake County/ Saguache County/
- Walker, G. W., 1956
ore deposits/ host rocks/ alteration/ veins/ sandstone/ Igneous-metamorphic/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ dolomite/ Pitkin County/ Larimer County/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/
- Walker, G. W., 1957
Marysvale/ leaching/ uranium/ ore deposits/ supergene alteration/ veins/ Marshall Pass/ Colorado/ Utah/ Saguache County/ Nigger shaft/ North Star mine/ Jefferson County/ Gilpin County/ Front Range/ sandstone/ Igneous-metamorphic/ zoning/ Madonna mine/ Chaffee County/
- Walker, G. W., 1963
alteration/ veins/ Igneous-metamorphic/ sandstone/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ Cochetopa district/ ore deposits/ Placerville district/ San Miguel County/ Larimer County/ Central City district/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/

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Walker, G. W., 1963

Marysvale/ leaching/ uranium/ ore deposits/ supergene alteration/ veins/ Marshall Pass/ Colorado/ Utah/ Saguache County/ Nigger Shaft/ North Star mine/ Jefferson County/ Gilpin County/ Front Range/ sandstone/ igneous-metamorphic/ zoning/ Madonna mine/ Chaffee County/

Walker, G. W., 1963

age determination/ ore deposits/ veins/ Tertiary/ Cretaceous/ Front Range/ Wood mine/ Iron mine/ Gilpin County/ German mine/ Copper King mine/ Larimer County/ igneous-metamorphic/ Schwartzwalder mine/ Jefferson County/ Los Ochos mine/ Saguache County/ isotopes/

Walker, G. W., and Adams, J. W., 1957

Boulder County/ Larimer County/ Clear Creek County/ Central City district/ Gilpin County/ Caribou mine/ Front Range/ Jefferson County/ Placerville district/ San Miguel County/ Colorado Plateau/ ore deposits/ Marshall Pass/ Saguache County/ Copper King mine/ sandstone/ mineralogy/ veins/ textures/ structures/ paragenesis/ Los Ochos mine/ Schwartzwalder mine/ igneous-metamorphic/

Walker, G. W., and Adams, J. W., 1963

Boulder County/ Larimer County/ Placerville district/ Central City district/ Gilpin County/ Clear Creek County/ Front Range/ Jefferson County/ Schwartzwalder mine/ San Miguel County/ Colorado Plateau/ Copper King mine/ Saguache County/ ore deposits/ Caribou mine/ Los Ochos mine/ sandstone/ Colorado/ mineralogy/ igneous-metamorphic/ textures/ structures/ paragenesis/

Walker, G. W., and Osterwald, F. W., 1956

ore deposits/ veins/ fluorite/ Front Range/ Gilpin County/ coal/ Jefferson County/ Placerville district/ San Miguel County/ Clear Creek County/ sandstone/ igneous-metamorphic/ Colorado Plateau/ Cochetopa district/ Saguache County/ Powderhorn district/ Custer County/ Chaffee County/

Walker, G. W., and Osterwald, F. W., 1963

ore deposits/ veins/ geology/ Front Range/ Gilpin County/ Jefferson County/ sandstone/ Boulder County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/ Saguache County/ Custer County/ Chaffee County/ Clear Creek County/ Jamestown district/ Cochetopa district/ Powderhorn district/ Placerville district/

Walker, G. W., and Osterwald, F. W., 1963

ore deposits/ veins/ genesis/ Placerville district/ transportation/ deposition/ depositional environments/ Clear Creek County/ Gilpin County/ Saguache County/ Jefferson County/ Cochetopa district/ Front Range/ San Miguel County/ Leyden coal mine/ Larimer County/ Boulder County/ sandstone/ igneous-metamorphic/

Wood, H. B., 1956

Colorado Plateau/ genesis/ host rocks/ uranium/ ore deposits/ Jefferson County/ San Miguel County/ Saguache County/ Park County/ Boulder County/ Montrose County/ Moffat County/ sandstone/ Front Range/ coal/ igneous-metamorphic/

SAN JUAN COUNTY

Wood, H. B., 1956

Colorado Plateau/ genesis/ host rocks/ uranium/ sandstone/ production/ geology/ Boulder County/ Jefferson County/ Saguache County/ Park County/ Montrose County/ San Miguel County/ Moffat County/ coal/ igneous-metamorphic/ Front Range/

SAN JUAN COUNTY

Adams, J. A. S., 1954

volcanic rocks/ uranium/ thorium/ analyses/ Larimer County/ igneous-metamorphic/ Grand County/ Rocky Mountain National Park/ Silverton/ San Juan County/

Barker, Fred, 1969

geology/ Needle Mountains/ igneous-metamorphic/ San Juan County/ petrology/ Precambrian/

Brooks, R. A., and Campbell, J. A., 1976

elements/ variation/ analyses/ diagenesis/ ore deposits/ tabular uranium deposits/ La Sal mines/ Utah/ Rajah 49 mine/ Uravan district/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ Mesa County/ sandstone/

Brooks, R. A., and Campbell, J. A., 1976

elements/ variation/ analyses/ diagenesis/ sandstone/ tabular uranium deposit/ La Sal mine/ Utah/ Rajah 49 mine/ ore deposits/ Morrison Formation/ Colorado Plateau/ Uravan district/ Salt Wash Member/ Mesa County/

Burbank, W. S., and Pierson, C. T., 1952

Gunnison County/ Ouray County/ San Juan County/ Dolores County/ radioactivity/ reconnaissance/ San Juan Mountains/ igneous-metamorphic/ Colorado Plateau/ sandstone/ veins/ San Miguel County/

Burbank, W. S., and Pierson, C. T., 1953

radioactivity/ reconnaissance/ San Juan Mountains/ Ouray County/ San Miguel County/ Gunnison County/ Dolores County/ igneous-metamorphic/ sandstone/ Colorado Plateau/ veins/ San Juan County/

Burnside, S. S., and Wenrich-Verbeek, K. J., 1976

Colorado/ New Mexico/ surface water/ stream sediments/ Arizona/ analyses/ Douglas County/ exploration/ Huerfano County/ Summit County/ sampling techniques/ San Juan County/

Busch, P. M., 1961

vanadium/ Colorado Plateau/ uranium/ Placerville district/ Garfield County/ San Miguel County/ Dolores County/ San Juan County/ sandstone/ Uravan district/ Rico district/ metallurgy/ Rifle district/

Bush, A. L., and Bryner, Leonid, 1953

carnotite/ roscoelite/ stratigraphy/ Entrada Sandstone/ minerals/ Pony Express Limestone Member/ Wanakah Formation/ limestone/ sandstone/ Colorado Plateau/ uranium/ vanadium/ San Juan Mountains/ San Miguel County/ ore deposits/ San Juan County/ Dolores County/ La Plata County/ Lightner Creek district/ Placerville district/ resources/

- Bush, A. L., Marsh, O. T., and Taylor, R. B., 1957
San Juan Mountains/ structure/ Placerville district/
San Miguel County/ igneous-metamorphic/ uranium/
vanadium/ selenium/ ore deposits/ Colorado Plateau/
San Juan County/ La Plata County/ Dolores County/
sandstone/ veins/
- Cadigan, R. A., 1959
Colorado Plateau/ ore deposits/ sandstone/ host
rock/ Garfield County/ Rio Blanco County/ Mesa
County/ Montrose County/ San Miguel County/
Dolores County/ San Juan County/ Morrison Formation/
Entrada Sandstone/
- Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado
Plateau/ paleontology/ sandstone/ Triassic strata/
Eagle County/ La Plata County/ Archuleta County/
Garfield County/ Mesa County/ Moffat County/
Montezuma County/ Pitkin County/ Montrose County/
Rio Blanco County/ Routt County/ San Miguel
County/ San Juan County/ Summit County/ Park
County/ Delta County/ Dolores County/ mineralogy/
conglomerate/ Gunnison County/ Ouray County/
- Carter, W. D., 1955
La Sal Creek area/ Paradox district/ Montrose
County/ Colorado/ Utah/ Colorado Plateau/ sandstone/
ore deposits/ exploration/ uranium/ vanadium/
Morrison Formation/ Salt Wash Member/
- Carter, W. D., and Gualtieri, J. L., 1957
Mount Peale 1 SE quadrangle/ geology/ map/ Montrose
County/ Colorado/ Utah/ sandstone/ uranium/
Colorado Plateau/
- Carter, W. D., and Gualtieri, J. L., 1965
Colorado/ Utah/ La Sal quadrangle/ ore deposits/
areal geology/ Montrose County/ vanadium/ uranium/
sandstone/ Colorado Plateau/ Morrison Formation/
geology/
- Carter, W. D., and Gualtieri, J. L., 1970
maps/ drilling/ exploration/ La Sal Creek area/
Montrose County/ Colorado/ Utah/ sandstone/
Paradox district/ Colorado Plateau/
- Carter, W. D., Gualtieri, J. L., and Shoemaker,
E. M., 1958
Colorado/ Montrose County/ Mount Peale 1 NE
quadrangle/ Utah/ Morrison Formation/ sandstone/
geology/ map/ uranium/ vanadium/ Colorado Plateau/
- Chew, R. T., 3d, 1955
sandstone/ Mesa County/ Utah/ stream sediments/
exploration/ radioactivity/ Delta County/ Montrose
County/ gravels/ San Miguel County/ Dolores
County/ Ouray County/ San Juan County/ Montezuma
County/ La Plata County/ Colorado Plateau/
- Chew, R. T., 3d, 1956
Mesa County/ Delta County/ Montrose County/
sandstone/ Dolores County/ Ouray County/ San
Juan County/ gravels/ Montezuma County/ La Plata
County/ Colorado Plateau/ exploration/ stream
sediments/ radioactivity/ San Miguel County/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and
others, 1951
Colorado Plateau/ Morrison Formation/ Mesa County/
stratigraphy/ Glen Canyon group/ Montezuma County/
Delta County/ San Rafael group/ Dolores County/
Gunnison County/ Montrose County/ sandstone/
Moffat County/ Ouray County/ San Juan County/
San Miguel County/ La Plata County/ Rio Blanco
County/ Garfield County/ Archuleta County/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and
others, 1955
stratigraphy/ Morrison Formation/ Colorado Plateau/
sandstone/ Recapture Member/ Mesa County/ Ouray
County/ Delta County/ Gunnison County/ Montrose
County/ San Juan County/ San Miguel County/
Dolores County/ La Plata County/ Montezuma County/
Salt Wash Member/
- Doelling, H. H., 1969
Colorado/ Utah/ ore deposits/ mining/ Montrose
County/ sandstone/ Colorado Plateau/ uranium/
mineral resources/
- Duncan, D. C., compiler, 1953
ore deposits/ black shale/ Weber Formation/
exploration/ shale/ reconnaissance/ Belden Formation/
Paradox Member/ Eagle County/ Garfield County/
Gunnison County/ Hermosa Formation/ San Juan
County/ La Plata County/ Lake County/ Pony Express
Limestone Member/ Ouray County/ Dakota Sandstone/
Archuleta County/ Pierre Shale/ Las Animas County/
Huerfano County/ Vermejo Formation/ limestone/
sandstone/ Front Range/ Colorado Plateau/
- Emmons, S. F., 1905
Colorado Plateau/ red beds/ Dolores Formation/
Telluride/ Ouray County/ San Juan County/ copper/
sandstone/ veins/ ore deposits/
- Finch, W. I., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/
geology/ Larimer County/ Jackson County/ Routt
County/ Moffat County/ Garfield County/ Grand
County/ Eagle County/ Boulder County/ Jefferson
County/ Park County/ Mesa County/ Montrose County/
El Paso County/ San Miguel County/ Bent County/
Park County/ Saguache County/ Pueblo County/
Dolores County/ Las Animas County/ Huerfano
County/ Costilla County/ Custer County/ San
Juan County/ La Plata County/ Montezuma County/
- Fischer, R. P., 1955
Durango district/ Placerville district/ Rico
district/ uranium/ vanadium/ chromium/ Delta
County/ Garfield County/ La Plata County/ Ouray
County/ Rio Blanco County/ San Juan County/
San Miguel County/ minerals/ marlposite/ sandstone/
Entrada Sandstone/ regional relations/ ore deposits/
Colorado Plateau/ Mesa County/ Moffat County/
Montezuma County/ Montrose County/ Rifle area/
Dolores County/
- Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/
genesis/ mineralogy/ Morrison Formation/ Entrada
Sandstone/ sandstone/ Mesa County/ copper/ Montrose
County/ San Miguel County/ Dolores County/ San
Juan County/ Uravan district/

- Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/ genesis/ mineralogy/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ copper/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Uravan district/
- Fischer, R. P., 1968
Colorado Plateau/ geology/ structure/ ore deposits/ genesis/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ Chinle Formation/ Morrison Formation/ Montezuma County/ La Plata County/ San Juan County/ Garfield County/ Rio Blanco County/ Moffat County/ Entrada Sandstone/ production/ stratigraphy/
- Fix, P. F., 1953
natural waters/ ground water/ streams/ geochemistry/ San Juan County/ Ouray County/ tuffaceous terranes/ Cimarron Creek basin/ Las Animas River basin/ Colorado Plateau/ San Juan Mountains/
- Fix, P. F., 1954
Colorado Plateau/ natural waters/ streams/ snow/ ground water/ San Juan Mountains/ San Juan County/ Ouray County/ acid tuff/ Igneous-metamorphic/ Front Range/ Colorado Plateau/ surface water/
- Gruner, J. W., Rosenzweig, A., and Smith, D. K., Jr., 1953
clay/ Colorado Plateau/ Chinle Formation/ Dolores County/ San Juan County/ Arizona/ Utah/ New Mexico/ Colorado/ San Juan Mountains/ Entrada Sandstone/ Greysill mine/ sandstone/ San Miguel County/
- Gruner, J. W., Rosenzweig, A., and Smith, D. K., Jr., 1954
Colorado Plateau/ ore deposits/ mineralogy/ uraninite/ coffinite/ vanadium/ uranium/ Colorado/ Utah/ New Mexico/ Todilto Limestone/ limestone/ Morrison Formation/ sandstone/ Entrada Sandstone/ Dolores County/ San Miguel County/ Greysill mine/ Mesa County/ Montrose County/ San Juan County/
- Hall, C. R., 1976
alkalic/ igneous rocks/ igneous-metamorphic/ Gilpin County/ Front Range/ bibliography/ San Juan County/ Custer County/ Fremont County/ La Plata County/ Montezuma County/ Gunnison County/ Saguache County/ El Paso County/ Rio Grande County/ Jefferson County/ Larimer County/ Boulder County/ Colorado Plateau/ Clear Creek County/ Teller County/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ Igneous-metamorphic/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ Igneous-metamorphic/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Moffat County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ regional structure/
- Kelley, V. C., 1959
structures/ fracture systems/ Colorado Plateau/ faults/ fractures/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Montezuma County/ Moffat County/ San Juan County/ Ouray County/ Delta County/ Gunnison County/ Garfield County/ La Plata County/ Rio Blanco County/
- Larsen, E. S., and Cross, C. W., 1956
geology/ petrology/ San Juan region/ Colorado Plateau/ igneous-metamorphic/ Montrose County/ Ouray County/ San Miguel County/ Dolores County/ La Plata County/ Gunnison County/ Hinsdale County/ Archuleta County/ Mineral County/ Saguache County/ Conejos County/ Alamosa County/ San Juan County/ Montezuma County/ Rio Grande County/
- Larsen, E. S., and Phair, George, 1954
uranium/ thorium/ igneous-metamorphic/ Front Range/ dikes/ stocks/ minerals/ porphyry/ San Juan Mountains/ calc-alkalic rocks/ San Juan County/ Ouray County/ Hinsdale County/ Cripple Creek/ Teller County/ quartz-bostonite/ geochemistry/
- Larsen, E. S., Gottfried, David, and Molloy, Marjorie, 1958
San Juan Mountains/ ore deposits/ Ouray County/ volcanic rocks/ San Juan County/ Hinsdale County/ Igneous-metamorphic/
- Leonard, B. F., 3d, 1953
pitchblende/ ore deposits/ zoning/ Lake County/ Front Range/ Gilpin County/ Clear Creek County/ Igneous-metamorphic/ Pitkin County/ Teller County/ San Juan County/ Coeur d'Alene/ Idaho/

- Malan, R. C., 1968
Colorado/ ore deposits/ genesis/ La Plata County/
San Juan County/ New Mexico/ metallogenesis/
San Miguel County/ structures/ Colorado Plateau/
San Juan-San Miguel-La Plata region/ veins/
igneous-metamorphic/
- Manger, G. E., Gates, G. L., and Cadigan, R. A., 1957
Colorado/ Utah/ ore deposits/ mineralization/
chemical properties/ Montrose County/ cores/
drilling/ sandstone/ Morrison Formation/ Colorado
Plateau/ physical properties/ Salt Wash Member/
- Maxwell, J. C., 1977
San Juan Mountains/ geology/ Archuleta County/
hydrogeochemistry/ stream sediments/ stream
waters/ ground waters/ Storm King Mountain/
Vallecito Creek/ Montrose County/ Gunnison County/
San Miguel County/ Dolores County/ Montezuma
County/ La Plata County/ San Juan County/ Ouray
County/ Hinsdale County/ Mineral County/
- McKelvey, V. E., Everhart, D. L., and Garrels,
R. M., 1956
veins/ bituminous substances/ ore deposits/
migmatites/ sandstone/ shale/ igneous-metamorphic/
Colorado/ Colorado Plateau/ San Juan County/
San Miguel County/ Jefferson County/ Montrose
County/ Old Leyden mine/ coal/ Gilpin County/
Clear County/ uranium/ Front Range/ genesis/
Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels,
R. M., 1956
veins/ bituminous substances/ Colorado/ genesis/
uranium/ ore deposits/ pegmatites/ migmatites/
San Miguel County/ sandstone/ coal/ shale/ phosphorites/
igneous-metamorphic/ Front Range/ Colorado Plateau/
San Juan County/ replacement/ Jefferson County/
Montrose County/ Old Leyden mine/ Mesa County/
Gilpin County/ Clear Creek County/
- Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/
Colorado Plateau/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ La Plata County/ Moffat County/ Garfield
County/ Delta County/ San Juan County/ Eagle
County/ Pitkin County/ Gunnison County/ Ouray
County/ Hinsdale County/ Archuleta County/ genesis/
ore deposits/ Morrison Formation/ Rio Blanco
County/
- Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San
Juan County/ Morrison Formation/ stratigraphy/
Colorado Plateau/ Moffat County/ Rio Blanco
County/ Garfield County/ Eagle County/ Mesa
County/ Delta County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ La
Plata County/ genesis/ ore deposits/ Pitkin
County/ Gunnison County/ Ouray County/ Hinsdale
County/ Archuleta County/
- Page, L. R., 1950
Mount Antero region/ Crystal Mountain district/
San Juan Mountains/ Chaffee County/ Larimer
County/ helvite/ pegmatites/ beryllium/ beryl/
Colorado Plateau/ igneous-metamorphic/ Devils
Hole mine/ Fremont County/ Gunnison County/
Jefferson County/ San Juan County/ Front Range/
aquamarine/
- Page, L. R., 1950
beryllium/ beryl/ Colorado Plateau/ pegmatites/
Larimer County/ igneous-metamorphic/ San Juan
County/ Devils Hole mine/ Fremont County/ Gunnison
County/ Jefferson County/ Mount Antero/ Chaffee
County/ aquamarine/ Front Range/ Crystal Mountain
district/
- Pierson, C. T., 1953
San Juan Mountains/ ore deposits/ exploration/
analyses/ Lark mine/ San Juan County/ Smuggler
mine/ San Miguel County/ veins/ sandstone/ Colorado
Plateau/ igneous-metamorphic/
- Pierson, C. T., 1953
San Juan Mountains/ San Juan County/ La Plata
County/ Ouray County/ Dolores County/ Bonanza
district/ Saguache County/ Mineral County/ Hinsdale
County/ La Plata district/ Upper Uncompahgre
district/ Colorado Plateau/ igneous-metamorphic/
- Pierson, C. T., Burbank, W. S., and Singewald,
Q. D., 1952
Colorado mineral belt/ ore deposits/ veins/
igneous-metamorphic/ Pitkin County/ Park County/
Ouray County/ San Juan County/ San Miguel County/
uranium/ Colorado Plateau/
- Pierson, C. T., Weeks, W. F., and Kleinhampl, F.
J., 1958
San Juan Mountains/ reconnaissance/ mining districts/
radioactivity/ igneous-metamorphic/ San Juan
County/ Ouray County/ San Miguel County/ La
Plata County/ Hinsdale County/ Mineral County/
Saguache County/
- Sharp, R. R., Jr., Morris, W. A., and Aamodt, P.
L., 1976
Alaska/ Colorado/ Montana/ New Mexico/ exploration/
research programs/ sample preparation/ sampling/
sediments/ uranium/ water/ Wyoming/ analyses/
surface water/ ground water/ stream sediments/
hydrogeochemistry/ South Park/ Park County/
Hinsdale County/ San Juan County/
- Shoemaker, E. M., 1956
structural features/ Colorado Plateau/ ore deposits/
veins/ Moffat County/ Rio Blanco County/ La
Plata County/ uranium/ Garfield County/ Mesa
County/ Delta County/ Montrose County/ San Miguel
County/ San Juan County/ Ouray County/ sandstone/
Montezuma County/ Dolores County/ Archuleta
County/
- Steven, T. A., Schmitt, L. J. Jr., Sheridan, M.
J., and Williams, F. E., 1969
minerals/ resources/ San Juan primitive area/
Iron/ Irving Formation/ igneous-metamorphic/
La Plata County/ San Juan County/ Hinsdale County/
Mineral County/ Elk Park area/ metasediments/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1953
age dating/ uranium/ ore deposits/ Colorado
Plateau/ sandstone/ lead-uranium ratios/ Mesa

SAN JUAN COUNTY

SAN MIGUEL COUNTY

County/ Montrose County/ San Miguel County/
San Juan County/

Stieff, L. R., Stern, T. W., and Milkey, R. G., 1953
Colorado Plateau/ age determination/ sandstone/
uranium/ San Juan County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
La Plata County/

Stokes, W. L., 1944
Morrison Formation/ Colorado Plateau/ sandstone/
stratigraphy/ correlation/ Garfield County/
Mesa County/ Delta County/ Gunnison County/
Montrose County/ Ouray County/ Dolores County/
Hinsdale County/ Archuleta County/ Montezuma
County/ La Plata County/ ore deposits/ San Juan
County/

Stokes, W. L., 1958
Colorado Plateau/ sandstone/ continental sediments/
Montrose County/ sandstone/ lead-uranium ratios/
Mesa County/ San Miguel County/ San Juan County/

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ San Juan County/ reconnaissance/
ore deposits/ San Juan Mountains/ igneous-metamorphic/

U.S. Geological Survey, 1953
sandstone/ Colorado Plateau/ Front Range/ veins/
igneous-metamorphic/ thorium/ Powderhorn district/
natural waters/ Morrison Formation/ Mesa County/
San Miguel County/ Dolores County/ Gilpin County/
San Juan County/ La Plata County/ Ouray County/
geology/ Gunnison County/ Montrose County/ San
Juan Mountains/ Clear Creek County/ ore deposits/

U.S. Geological Survey, 1953
Colorado Plateau/ Front Range/ sandstone/ coal/
springs/ igneous-metamorphic/ shale/ Gilpin
County/ Clear Creek County/ Jefferson County/
Boulder County/ Custer County/ thorium/ Gunnison
County/ La Plata County/ San Juan County/ Ouray
County/

U.S. Geological Survey, 1954
Colorado Plateau/ sandstone/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ ore
deposits/ Morrison Formation/ geology/ Chino
Formation/ Shinarump Member/ reserves/ San Juan
Mountains/ snow/ surface water/ ground water/
Ouray County/ San Juan County/ conglomerate/
igneous-metamorphic/ Front Range/

Weir, G. W., and Puffett, W. P., 1960
Utah/ San Miguel County/ Mount Peale 4 SE quadrangle/
geology/ Burro Canyon Formation/ Morrison Formation/
Salt Wash Member/ sandstone/ uranium/ vanadium/
map/ Colorado Plateau/ stratigraphy/ section/

Weir, G. W., Carter, W. D., Puffett, W. P., and
others, 1960
Utah/ San Miguel County/ Montrose County/ Colorado
Plateau/ Mount Peale 4 NE quadrangle/ geology/
stratigraphy/ section/ uranium/ vanadium/ Morrison
Formation/ Salt Wash Member/ sandstone/ map/

Wenrich-Verbeek, K. J., 1976
ore deposits/ exploration/ stream sediments/
sampling techniques/ San Juan County/ Douglas
County/ surface water/

Wenrich-Verbeek, K. J., 1976
surface waters/ stream sediments/ exploration/
analyses/ ore deposits/ San Juan County/ Summit
County/ Huerfano County/

SAN MIGUEL COUNTY

Adler, H. H., 1963
genesis/ sandstone/ ore deposits/ Jefferson
County/ Pueblo County/ Gunnison County/ Moffat
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ Colorado Plateau/ Front Range/
Rio Blanco County/

Adler, H. H., 1964
uranium/ roll ore/ exploration/ sandstone/ ore
deposits/ Jefferson County/ Pueblo County/ Gunnison
County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
San Miguel County/ Montezuma County/ La Plata
County/ Archuleta County/ Moffat County/ Colorado
Plateau/ Front Range/ Dolores County/

Anonymous, 1913
carnotite/ pitchblende/ radium/ Gilpin County/
Quartz Hill/ Meeker/ Skull Creek/ Utah/ Colorado/
Moffat County/ Paradox Valley/ Colorado Plateau/
uranium/ sandstone/ igneous-metamorphic/ Rio
Blanco County/ Front Range/ San Miguel County/

Anonymous, 1950
San Miguel County/ sandstone/ Colorado Plateau/
mines/ uranium/

Anonymous, 1950
Colorado Plateau/ refining/ San Miguel County/
Mesa County/ sandstone/

Anonymous, 1951
Colorado Plateau/ San Miguel County/ Montrose
County/ Mesa County/ vanadium/ sandstone/

Anonymous, 1951
Colorado/ Utah/ processing/ sandstone/ San Miguel
County/ Colorado Plateau/

Anonymous, 1952
Colorado Plateau/ Uravan belt/ sandstone/ mill/
exploration/ Mesa County/ San Miguel County/
Dolores County/

Archbold, N. L., 1955
lithology/ vanadium/ uranium/ ore deposits/
Morrison Formation/ Salt Wash Member/ Colorado
Plateau/ sandstone/ analyses/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ calcium
carbonate/

- Archbold, N. L., 1956
uranium/ vanadium/ Colorado Plateau/ Salt Wash Member/ Morrison Formation/ sandstone/ Mesa County/ Montrose County/ Dolores County/ Montezuma County/ ore deposits/ lithology/ San Miguel County/
- Bain, G. W., 1953
Colorado Plateau/ ore deposits/ sediments/ sandstone/ stratigraphy/ Dakota Group/ Morrison Formation/ structure/ topography/ geologic history/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ geology/ reconnaissance/ Colorado Plateau/
- Bain, G. W., 1953
Colorado Plateau/ ore deposits/ observations/ sedimentation/ Shinarump Member/ carnotite/ Morrison Formation/ tectonic structure/ sandstone/ fluvial sediments/ simulation/ precipitation/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ conglomerate/ Chinle Formation/ Dolores County/ experimental studies/ Salt Wash Member/
- Bain, G. W., 1957
Colorado Plateau/ ore deposits/ organic ores/ genesis/ Colorado/ general/ Mesa County/ Delta County/ sandstone/ Montrose County/ San Miguel County/ Dolores County/ Archuleta County/ Garfield County/ La Plata County/
- Bain, G. W., Eastman, H. P., Ruckmick, J. C., and others, 1953
Colorado Plateau/ ore deposits/ experimental studies/ sandstone/ fluvial sediments/ field observations/ heavy minerals/ Shinarump Member/ Morrison Formation/ Dakota Sandstone/ geology/ sedimentation/ ground water/ stratigraphy/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Chinle Formation/
- Baltz, E. H., Jr., 1953
Colorado/ New Mexico/ ore deposits/ exploration/ occurrence/ carbonaceous rocks/ Paradox Formation/ San Miguel County/ shale/ sandstone/ siltstone/ coal/ Archuleta County/ La Plata County/ Montezuma County/ tuff/ igneous-metamorphic/ Colorado Plateau/ Bald Eagle prospect/
- Baltz, E. H., Jr., 1954
Colorado/ New Mexico/ ore deposits/ carbonaceous rocks/ shale/ siltstone/ Hermosa Formation/ San Miguel County/ Bald Eagle prospect/ Colorado Plateau/
- Baltz, E. H., Jr., 1955
Colorado/ New Mexico/ ore deposits/ exploration/ carbonaceous rocks/ sandstone/ Mesa County/ Delta County/ Montrose County/ Gunnison County/ Ouray County/ San Miguel County/ Hinsdale County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ coal/ shale/ reconnaissance/ Colorado Plateau/
- Baltz, E. H., Jr., 1957
stratigraphy/ structure/ salt/ salt anticlines/ Colorado/ Utah/ Hermosa Formation/ Colorado Plateau/ evaporites/ general/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ sandstone/ Paradox Basin/
- Barge, E. M., 1953
limestone/ sandstone/ Colorado Plateau/ Hermosa Formation/ reserves/ exploration/ drilling/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Early Morn group/ Gypsum Valley district/ San Miguel County/
- Barge, E. M., 1953
Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Tiny claim/ Gypsum Valley district/ San Miguel County/ Morrison Formation/
- Barge, E. M., 1953
Colorado Plateau/ drilling/ ore deposits/ reserves/ exploration/ Gypsum Valley district/ Sunset claim/ San Miguel County/ sandstone/ Morrison Formation/ carnotite/ uranium/ vanadium/ Early Morn group/ limestone/ Salt Wash Member/
- Bates, R. C., 1959
Colorado Plateau/ ore deposits/ resources/ exploration/ statistical analysis/ uranium/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Morrison Formation/ sandstone/
- Bell, Henry, 3d, 1950
minerals/ carnotite/ Colorado Plateau/ ore deposits/ geology/ San Miguel County/ Legln group area/ exploration/ drilling/ ore production/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/
- Bell, Henry, 3d, 1950
uranium/ vanadium/ carnotite/ geology/ reserves/ ore deposits/ Colorado Plateau/ San Miguel County/ exploration/ Cougar claim/ Helen claim/ Last Chance claim/ Lower group/ Rainbow claim/ Cougar mine/ ore production/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/
- Bell, Henry, 3d, 1951
Colorado Plateau/ ore deposits/ reserves/ sandstone/ San Miguel County/ drilling/ exploration/ carnotite/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ Legln group area/
- Bell, Henry, 3d, 1951
drilling/ exploration/ Legln group area/ San Miguel County/ ore deposits/ sandstone/ Colorado Plateau/ geology/ reserves/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Bell, Henry, 3d, 1951
reserves/ Legln group/ San Miguel County/ sandstone/ Colorado Plateau/ ore deposits/ uranium/ vanadium/ Morrison Formation/
- Bell, Henry, 3d, 1951
reserves/ Legln group/ San Miguel County/ sandstone/ Colorado Plateau/ ore deposits/ uranium/ vanadium/ Morrison Formation/

- Bell, Henry, 3d, 1952
ore deposits/ Egnar district/ San Miguel County/
minerals/ exploratory drilling/ carnotite/ U.S.
Vanadium Co. property/ Vanadium Corp. of America
property/ Morrison Formation/ geology/ Colorado
Plateau/ uranium/ vanadium/ sandstone/ Salt
Wash Member/ Spud Patch area/
- Bell, Henry, 3d, 1952
Colorado Plateau/ ore deposits/ ore guides/
Uravan/ geology/ San Miguel County/ exploration/
drilling/ minerals, carnotite/ Legln group/
uranium/ ore production/ reserves/ resources/
sandstone/ Morrison Formation/ Salt Wash Member/
- Bell, Henry, 3d, 1953
ore deposits/ Colorado Plateau/ geology/ ore
guides/ San Miguel County/ minerals/ carnotite/
Vanadium Corp. of America property/ uranium/
vanadium/ Spud Patch area/ ore production/ reserves/
resources/ sandstone/ Morrison Formation/ Salt
Wash Member/ U.S. Vanadium Co. property/
- Bell, Henry, 3d, and Cramer, M. A., 1951
Colorado Plateau/ ore deposits/ reserves/ sandstone/
Legln group area/ San Miguel County/ Morrison
Formation/ Salt Wash Member/
- Bell, Henry, 3d, and Cramer, M. A., 1951
reserves/ Legln group area/ San Miguel County/
sandstone/ Colorado Plateau/ ore deposits/ uranium/
vanadium/ Morrison Formation/ Salt Wash Member/
- Bell, Henry, 3d, and Cramer, M. A., 1952
Colorado Plateau/ sandstone/ ore deposits/ reserves/
Spud Patch area/ San Miguel County/ uranium/
vanadium/ Morrison Formation/ Salt Wash Member/
- Bell, Henry, 3d, and Icke, H. M., 1950
minerals/ carnotite/ Colorado Plateau/ geology/
San Miguel County/ Spud Patch area/ exploration/
drilling/ ore production/ sandstone/ Morrison
Formation/ Salt Wash Member/ reserves/ uranium/
vanadium/ ore deposits/
- Bathke, P. M., 1953
uranyl salts/ Colorado Plateau/ simulation/
precipitation/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ sandstone/ ground water/ Morrison Formation/
Salt Wash Member/ uraninite/ carnotite/
- Black, R. A., 1953
Colorado Plateau/ geophysics/ mining districts/
logging/ Spud Patch area/ San Miguel County/
sandstone/ Long Park area/ Montrose County/
Morrison Formation/ ore deposits/
- Botinelly, Theodore, and Weeks, A. D., 1957
sandstone/ uranium/ vanadium/ mineralogic classification/
Colorado Plateau/ Mesa County/ Montrose County/
minerals/ Dolores County/ San Miguel County/
ore deposits/
- Botinelly, Theodore, and Weeks, A. D., 1957
Colorado Plateau/ mineralogic classification/
uranium/ vanadium/ composition/ oxidation/ mineralogy/
sandstone/ ore deposits/ Mesa County/ Montrose
County/ San Miguel County/
- Bowers, H. E., and Shawe, D. R., 1961
Silck Rock district/ Disappointment Valley/
ore deposits/ exploration/ heavy minerals/ uranium/
vanadium/ sandstone/ Morrison Formation/ San
Miguel County/ Salt Wash Member/ Dolores County/
ore guides/ Colorado Plateau/
- Bradley, W. H., 1950
uranium/ Colorado Plateau/ sandstone/ occurrences/
San Miguel County/ Montrose County/ Mesa County/
ore deposits/
- Breger, I. A., and Deul, Maurice, 1956
organic materials/ ore deposits/ Colorado Plateau/
geochemistry/ Colorado/ coalified wood/ sandstone/
Black King mine/ Placerville district/ San Miguel
County/ Utah/ Arizona/ carbonaceous rocks/
- Breger, I. A., and Deul, Maurice, 1956
bituminous substances/ uranium/ coal/ San Miguel
County/ Colorado Plateau/ oil/ organics/ geochemistry/
sandstone/
- Breger, I. A., and Deul, Maurice, 1956
bituminous substances/ uranium/ coal/ San Miguel
County/ geochemistry/ Colorado Plateau/ oil/
organics/ sandstone/
- Bromfield, C. S., 1967
San Miguel County/ Dolores County/ Mount Wilson
quadrangle/ San Juan Mountains/ vanadium/ uranium/
Entrada Sandstone/ sandstone/ gold/ silver/
geology/ Colorado Plateau/
- Bromfield, C. S., and Conroy, A. R., 1964
San Miguel County/ Dolores County/ Mount Wilson
quadrangle/ vanadium/ San Juan Mountains/ uranium/
Entrada Sandstone/ sandstone/ gold/ silver/
geology/ Colorado Plateau/
- Bromfield, C. S., and Williams, F. E., 1972
resources/ Wilson Mountains Primitive area/
uranium/ San Miguel County/ Dolores County/
vanadium/ sediments/ sandstone/ Colorado Plateau/
geophysics/
- Bruyn, Kathleen, 1955
Colorado Plateau/ ore deposits/ sandstone/ Dolores
County/ history/ San Miguel County/ Montrose
County/ Mesa County/
- Burbank, W. S., and Pierson, C. T., 1952
Gunnison County/ Ouray County/ San Juan County/
Dolores County/ radioactivity/ reconnaissance/
San Juan Mountains/ igneous-metamorphic/ Colorado
Plateau/ sandstone/ veins/ San Miguel County/
- Burbank, W. S., and Pierson, C. T., 1953
radioactivity/ reconnaissance/ San Juan Mountains/
Ouray County/ San Miguel County/ Gunnison County/
Dolores County/ igneous-metamorphic/ sandstone/
Colorado Plateau/ veins/ San Juan County/
- Burwell, Blair, 1920
ore deposits/ resources/ mining/ carnotite/
Mesa County/ Dolores County/ San Miguel County/
Montrose County/ uranium/ vanadium/ Colorado
Plateau/ sandstone/

- Busch, P. M., 1961
vanadium/ Colorado Plateau/ uranium/ Placerville district/ Garfield County/ San Miguel County/ Dolores County/ San Juan County/ sandstone/ Uravan district/ Rico district/ metallurgy/ Rifle district/
- Bush, A. L., 1950
Legin group area/ San Miguel County/ Eloisa claim/ reserves/ resources/ sandstone/ Colorado Plateau/ ore deposits/ vanadium/ Morrison Formation/ Salt Wash Member/ Otero claim/
- Bush, A. L., 1950
Colorado Plateau/ Egnar area/ San Miguel County/ exploration/ drilling/ Charles T. claim/ Easton B claim/ Golden Rod claim/ Ownbey claim/ Charles T. area/ vanadium/ production/ sandstone/ carnotite/ geology/ ore deposits/ ore guides/ Morrison Formation/ Salt Wash Member/ reserves/ resources/ uranium/
- Bush, A. L., 1953
San Juan Mountains/ Colorado Plateau/ Placerville district/ vanadium/ Entrada Sandstone/ sandstone/ San Miguel County/ ore deposits/ uranium/ veins/
- Bush, A. L., 1953
San Juan Mountains/ uranium/ vanadium/ Entrada Sandstone/ San Miguel County/ ore deposits/ Colorado Plateau/ veins/ Placerville district/ sandstone/
- Bush, A. L., 1954
San Juan Mountains/ San Miguel County/ mapping/ uranium/ vanadium/ sandstone/ Colorado Plateau/ veins/ Entrada Sandstone/ geology/ ore deposits/ Placerville district/ Dolores County/
- Bush, A. L., 1954
San Juan Mountains/ Placerville district/ San Miguel County/ uranium/ vanadium/ Entrada Sandstone/ sandstone/ structure/ geology/ ore deposits/ Dolores County/ Colorado Plateau/ veins/
- Bush, A. L., 1955
mapping/ Placerville district/ San Juan Mountains/ San Miguel County/ Entrada Sandstone/ sandstone/ uranium/ vanadium/ ore deposits/ geology/ veins/ Colorado Plateau/
- Bush, A. L., 1955
San Juan Mountains/ San Miguel County/ Dolores County/ Placerville district/ vanadium/ uranium/ Entrada Sandstone/ sandstone/ ore deposits/ igneous-metamorphic/ Colorado Plateau/ veins/ geology/
- Bush, A. L., 1956
vanadium/ uranium/ ore deposits/ Entrada Sandstone/ veins/ sandstone/ San Juan Mountains/ San Miguel County/ Dolores County/ mineralogy/ Placerville district/ geology/ Colorado Plateau/
- Bush, A. L., and Bromfield, C. S., 1966
Dolores Peak quadrangle/ Dolores County/ San Miguel County/ geology/ sandstone/ Colorado Plateau/
- Bush, A. L., and Bryner, Leonid, 1953
carnotite/ roscoelite/ stratigraphy/ Entrada Sandstone/ minerals/ Pony Express Limestone Member/ Wanakah Formation/ limestone/ sandstone/ Colorado Plateau/ uranium/ vanadium/ San Juan Mountains/ San Miguel County/ ore deposits/ San Juan County/ Dolores County/ La Plata County/ Lightner Creek district/ Placerville district/ resources/
- Bush, A. L., and Stager, H. K., 1954
minerals/ carnotite/ Calamity claims/ Calamity mines/ uranium/ Charles T. claims/ Club Mesa claims/ Legin mines/ sandstone/ Morrison Formation/ vanadium/ Mesa County/ Colorado Plateau/ reserves/ Uravan district/ Montrose County/ San Miguel County/ ore deposits/
- Bush, A. L., and Stager, H. K., 1955
Mesa County/ Montrose County/ San Miguel County/ Uravan district/ reserves/ uranium/ vanadium/ carnotite/ sandstone/ Colorado Plateau/ Morrison Formation/
- Bush, A. L., and Stager, H. K., 1956
Mesa County/ Montrose County/ San Miguel County/ Uravan district/ reserves/ uranium/ vanadium/ carnotite/ sandstone/ Colorado Plateau/ Morrison Formation/
- Bush, A. L., and Taylor, R. B., 1958
San Juan Mountains/ ore deposits/ Gray head quadrangle/ San Miguel County/ uranium/ vanadium/ granodiorite/ Placerville district/ Pony Express Limestone Member/ sandstone/ limestone/ Colorado Plateau/ igneous-metamorphic/
- Bush, A. L., Bromfield, C. S., and Pierson, C. T., 1956
San Miguel County/ Placerville quadrangle/ geology/ map/ sandstone/ uranium/ vanadium/ Leopard Vanadium mine/ Entrada Sandstone/ Colorado Plateau/
- Bush, A. L., Bromfield, C. S., and Pierson, C. T., 1956
Placerville quadrangle/ Entrada Sandstone/ sandstone/ uranium/ vanadium/ Leopard Vanadium mine/ San Miguel County/ areal geology/ stratigraphy/ igneous-metamorphic/ structure/ geomorphology/ gold/ silver/ copper/ geology/ Colorado Plateau/
- Bush, A. L., Bromfield, C. S., and Pierson, C. T., 1956
Placerville quadrangle/ Entrada Sandstone/ sandstone/ uranium/ vanadium/ Black King mine/ Leopard Vanadium mine/ San Miguel County/ geology/ map/ Colorado Plateau/ ore deposits/
- Bush, A. L., Bromfield, C. S., and Pierson, C. T., 1959
Colorado Plateau/ uranium/ vanadium/ ore deposits/ San Miguel County/ sediments/ Entrada Sandstone/ geology/ Jurassic/ areal geology/ uranium/ sandstone/ Placerville quadrangle/
- Bush, A. L., Bromfield, C. S., Marsh, O. T., and others, 1961
San Miguel County/ Gray Head quadrangle/ Entrada

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- Sandstone/ sandstone/ uranium/ vanadium/ Colorado Plateau/ map/
- Bush, A. L., Hilpert, L. S., and Trace, R. D., 1950
sandstone/ ore deposits/ ore guides/ Colorado Plateau/ San Miguel County/ exploration/ drilling/ carnotite/ uranium/ Georgetown group claims/ Georgeto claim/ vanadium/ Yeta Mad claim/ ore production/ reserves/ resources/ Morrison Formation/ Salt Wash Member/
- Bush, A. L., Marsh, O. T., and Taylor, R. B., 1957
San Juan Mountains/ structure/ Placerville district/ San Miguel County/ Igneous-metamorphic/ uranium/ vanadium/ selenium/ ore deposits/ Colorado Plateau/ San Juan County/ La Plata County/ Dolores County/ sandstone/ veins/
- Bush, A. L., Marsh, O. T., and Taylor, R. B., 1958
San Miguel County/ Little Cone quadrangle/ structure/ sandstone/ vanadium/ uranium/ areal geology/ ore deposits/ Colorado Plateau/ Entrada Sandstone/
- Bush, A. L., Marsh, O. T., and Taylor, R. B., 1959
San Miguel County/ sandstone/ vanadium/ uranium/ Entrada Sandstone/ geology/ ore deposits/ Colorado Plateau/ Little Cone quadrangle/
- Bush, A. L., Marsh, O. T., and Taylor, R. B., 1960
areal geology/ Little Cone quadrangle/ San Miguel County/ Entrada Sandstone/ Jurassic/ vanadium/ uranium/ sandstone/ geology/ ore deposits/ Colorado Plateau/
- Bush, A. L., Taylor, R. B., and Marsh, O. T., 1956
San Juan Mountains/ uranium/ vanadium/ Placerville district/ San Miguel County/ Entrada Sandstone/ sandstone/ veins/ Igneous-metamorphic/ Colorado Plateau/ ore deposits/
- Bush, A. L., Taylor, R. B., Marsh, O. T., and others, 1956
San Juan Mountains/ uranium/ vanadium/ Placerville district/ San Miguel County/ Igneous-metamorphic/ stocks/ sandstone/ quartz monzonite/ ore deposits/ veins/ Colorado Plateau/
- Butler, A. P., Jr., 1952
Front Range/ thorium/ Colorado Plateau/ Morrison Formation/ Igneous-metamorphic/ Chinle Formation/ Shinarump Member/ geology/ ore deposits/ pegmatites/ veins/ sandstone/ placers/ carnotite/ fresh waters/ gases/ Gilpin County/ Clear Creek County/ Custer County/ Lake County/ San Miguel County/ Gunnison County/
- Butler, A. P., Jr., Killeen, P. L., Page, G. B., and Rubey, W. W., 1947
ore deposits/ resources/ reconnaissance/ Front Range/ reserves/ Colorado Plateau/ carnotite/ uranium/ vanadium/ Igneous-metamorphic/ uraninite/ Iron Hill/ Gunnison County/ Gilpin County/ Clear Creek County/ radioactive springs/ thorium/ mineralogy/ San Miguel County/ Montrose County/ Mesa County/ sandstone/ genesis/
- Byerly, P. E., and Joesting, H. R., 1959
Lisbon Valley area/ Colorado/ Colorado Plateau/ geophysical investigations/ uranium/ Mesa County/ San Miguel County/ Dolores County/ gravity/ aeromagnetism/ sandstone/ geophysics/ Montrose County/
- Cadigan, R. A., 1955
Dolores County/ Garfield County/ Mesa County/ sandstone/ Montrose County/ Rio Blanco County/ San Miguel County/ Entrada Sandstone/ Morrison Formation/ stratigraphy/ Todlito Limestone/ Chinle Formation/ limestone/ host rocks/ conglomerate/ Colorado Plateau/ Triassic/ Jurassic/
- Cadigan, R. A., 1956
lithology/ Colorado Plateau/ petrology/ sediments/ Morrison Formation/ sandstone/ Montrose County/ ore deposits/ San Miguel County/ geochemistry/
- Cadigan, R. A., 1959
Colorado Plateau/ ore deposits/ sandstone/ host rock/ Garfield County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Morrison Formation/ Entrada Sandstone/
- Cadigan, R. A., 1967
petrology/ Morrison Formation/ Colorado Plateau/ sandstone/ Gunnison County/ La Plata County/ Archuleta County/ San Miguel County/ Mesa County/ Delta County/ Eagle County/ Montrose County/ Montezuma County/ mineralogy/ Rio Blanco County/ Salt Wash Member/
- Cadigan, R. A., 1971
petrology/ Moenkopi Formation/ Colorado Plateau/ mineralogy/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ stratigraphy/
- Cadigan, R. A., 1971
geochemical distribution/ Colorado Plateau/ red beds/ vanadium/ sandstone/ La Plata County/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Rio Blanco County/ geochemistry/ Garfield County/ Moenkopi Formation/
- Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/
- Cannon, H. L., 1951
Colorado Plateau/ botanical studies/ uranium/ geobotany/ vanadium/ indicator plants/ Colorado/ Utah/ Salt Wash Member/ sandstone/ *Astragalus*/ geology/ analyses/ ore deposits/ Mesa County/ Montrose County/ Morrison Formation/ San Miguel County/ Dolores County/

- Cannon, H. L., 1952
Mesa County/ Montrose County/ San Miguel County/
Colorado Plateau/ vegetation/ uranium/ vanadium/
sandstone/ botanical studies/ Dolores County/
Colorado/ Indicator plants/ Utah/ Morrison Formation/
Astragalus/ Salt Wash Member/ geology/ analyses/
ore deposits/ geobotany/
- Cannon, H. L., 1957
plant descriptions/ Colorado Plateau/ sandstone/
exploration/ uranium/ Astragalus/ vanadium/
Utah/ ore deposits/ New Mexico/ Arizona/ Colorado/
Wyoming/ San Miguel County/ Montrose County/
Mesa County/ geobotany/ Dolores County/ botanical
studies/ Indicator plants/
- Cannon, H. L., 1960
Colorado Plateau/ ore deposits/ botanical prospecting/
exploration/ Indicator plants/ sandstone/ Rio
Blanco County/ Garfield County/ Mesa County/
Delta County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
geobotany/
- Carter, W. D., 1956
disconformity/ stratigraphy/ Cretaceous/ Colorado
Plateau/ Dakota Sandstone/ Burro Canyon Member/
Montrose County/ Mesa County/ San Miguel County/
Dolores County/ sandstone/
- Carter, W. D., 1957
disconformity/ stratigraphy/ Cretaceous/ Colorado/
Utah/ Colorado Plateau/ Dakota Sandstone/ Burro
Canyon Member/ San Miguel County/ Dolores County/
Montrose County/ Mesa County/ sandstone/
- Case, J. E., and Joesting, H. R., 1972
geophysical investigations/ Colorado Plateau/
stratigraphy/ gravity surveys/ aeromagnetic
surveys/ exploration/ Montezuma County/ sandstone/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ geophysics/ geology/
- Case, J. E., Joesting, H. R., and Byerly, P. E., 1963
geophysical investigations/ La Sal Mountains/
geophysics/ Colorado Plateau/ geology/ aeromagnetic
surveys/ Mesa County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ Igneous-metamorphic/
sandstone/
- Cater, F. W., Jr., 1953
Uravan district/ Montrose County/ San Miguel
County/ quadrangle/ geology/ ore guides/ exploration/
minerals/ carnotite/ Colorado Plateau/ Morrison
Formation/ map/ sandstone/ Gyp mine/ Raven mine/
Silveys Pocket/ structure/ ore deposits/ Anderson
Mesa quadrangle/ Salt Wash Member/
- Cater, F. W., Jr., 1953
Uravan district/ Montrose County/ San Miguel
County/ map/ geology/ ore guides/ exploration/
minerals/ ore deposits/ carnotite/ Morrison
Formation/ Salt Wash Member/ sandstone/ Colorado
Plateau/ Jo Dandy group/ Monogram group/ Wild
Steer mine/ Tea Pot Dome mine/ Bull Canyon quadrangle/
- Cater, F. W., Jr., 1953
San Miguel County/ Gypsum Gap quadrangle/ geology/
ore guides/ exploration/ minerals/ carnotite/
Morrison Formation/ Salt Wash Member/ sandstone/
Hermosa Formation/ Pitchfork mines/ Bald Eagle
mines/ Long Ridge mines/ Uravan district/ ore
deposits/ map/ Colorado Plateau/
- Cater, F. W., Jr., 1953
San Miguel County/ Hamm Canyon quadrangle/ geology/
ore guides/ exploration/ minerals/ carnotite/
map/ Salt Wash Member/ sandstone/ Colorado Plateau/
ore deposits/ Rambler claim/ Mexico mines/ Lookout
mine/ Riverview claim/ Morrison Formation/ Uravan
district/
- Cater, F. W., Jr., 1953
San Miguel County/ Horse Range Mesa quadrangle/
geology/ minerals/ carnotite/ Uravan district/
ore guides/ Colorado Plateau/ Morrison Formation/
Salt Wash Member/ sandstone/ Radium group/ Charles
T. mines/ ore deposits/ Georgetown mine/ Veta
Mad mine/ Lower group of mines/ map/ Upper group
of mines/
- Cater, F. W., Jr., 1953
Uravan district/ Montrose County/ San Miguel
County/ geology/ ore guides/ exploration/ minerals/
ore deposits/ carnotite/ Morrison Formation/
Salt Wash Member/ sandstone/ Colorado Plateau/
Thunderbolt mine/ Oversight claim/ map/ Jo Dandy
area/ mines/ Naturita NW quadrangle/
- Cater, F. W., Jr., 1953
carnotite/ Colorado/ stratigraphy/ structure/
mapping/ Colorado Plateau/ geology/ San Miguel
County/ Mesa County/ Montrose County/
- Cater, F. W., Jr., 1953
Colorado/ carnotite/ Mesa County/ Montrose County/
sandstone/ ore deposits/ Morrison Formation/
salt anticlines/ Salt Wash Member/ stratigraphy/
structure/ Colorado Plateau/ geology/ exploration/
mapping/ San Miguel County/
- Cater, F. W., Jr., 1954
Uravan district/ Dolores County/ San Miguel
County/ Egnar quadrangle/ geology/ ore guides/
exploration/ minerals/ carnotite/ Colorado Plateau/
Salt Wash Member/ Morrison Formation/ sandstone/
Charles T. mines/ map/ Golden Rod mines/ Ownbey
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of mines/ mines/ ore deposits/
- Cater, F. W., Jr., 1954
Bull Canyon quadrangle/ Montrose County/ sandstone/
San Miguel County/ Uravan district/ geology/
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map/ Morrison Formation/
- Cater, F. W., Jr., 1955
Dolores County/ San Miguel County/ Egnar quadrangle/
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sandstone/ Charles T. mines/ Golden Rod mines/
ore deposits/ Ownbey group of mines/ Spud Patch
group/ Legln mines/ Ike group of mines/ geology/
map/ mines/ Salt Wash Member/

- Cater, F. W., Jr., 1955
San Miguel County/ Gypsum Gap quadrangle/ sandstone/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ Hermosa Formation/ Pitchfork mines/ Bald Eagle mines/ Long Ridge mines/ limestone/ geology/ map/ carnotite/
- Cater, F. W., Jr., 1955
San Miguel County/ Colorado Plateau/ ore deposits/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Radium group mines/ Charles T. mines/ Georgeto mine/ Veta Mad mine/ Lower group mines/ Upper group mines/ mines/ geology/ map/ Horse Range Mesa quadrangle/
- Cater, F. W., Jr., 1955
Montrose County/ San Miguel County/ Naturita NW quadrangle/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ sandstone/ carnotite/ Thunderbolt mine/ Oversight claim/ Jo Dandy area/ geology/ map/ mines/ ore deposits/
- Cater, F. W., Jr., 1955
Dolores County/ San Miguel County/ Colorado Plateau/ Joe Davis Hill quadrangle/ Morrison Formation/ ore deposits/ sandstone/ carnotite/ geology/ map/ Salt Wash Member/
- Cater, F. W., Jr., 1955
San Miguel County/ Hamm Canyon quadrangle/ sandstone/ Morrison Formation/ Salt Wash member/ Colorado Plateau/ carnotite/ Rambler claim/ Mexico mines/ Lookout mine/ Riverview claim/ geology/ map/ ore deposits/
- Cater, F. W., Jr., 1955
San Miguel County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ carnotite/ Hermosa Formation/ limestone/ Pitchfork mines/ geology/ Bald Eagle mines/ Long Ridge mines/ map/ ore deposits/ Gypsum Gap quadrangle/
- Cater, F. W., Jr., 1955
San Miguel County/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado Plateau/ carnotite/ Rambler claim/ Mexico mines/ Lookout mine/ Riverview claim/ geology/ map/ ore deposits/ Hamm Canyon quadrangle/
- Cater, F. W., Jr., 1955
Montrose County/ San Miguel County/ ore deposits/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado Plateau/ Gyp mine/ Raven mine/ Silveys Pocket/ geology/ map/ Anderson Mesa quadrangle/
- Cater, F. W., Jr., 1955
Dolores County/ San Miguel County/ Egnar quadrangle/ Colorado Plateau/ carnotite/ Morrison Formation/ sandstone/ Charles T. mines/ Ike group mines/ ore deposits/ Ownbey group/ Spud Patch group/ Leg'n mines/ geology/ map/ mines/ Golden Rod mines/ Salt Wash Member/
- Cater, F. W., Jr., 1955
Dolores County/ San Miguel County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado Plateau/ carnotite/ Joe Davis Hill quadrangle/ geology/ ore deposits/
- Cater, F. W., Jr., 1955
San Miguel County/ Colorado Plateau/ ore deposits/ map/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Radium group/ Charles T. mines/ Georgeto mine/ Lower group of mines/ Upper group of mines/ mines/ geology/ Veta Mad mine/ Horse Range Mesa quadrangle/
- Cater, F. W., Jr., 1955
Naturita NW quadrangle/ Morrison Formation/ ore deposits/ sandstone/ Colorado Plateau/ carnotite/ Thunderbolt mine/ Oversight claim/ Jo Dandy area/ Montrose County/ San Miguel County/ geology/ map/ mines/ Salt Wash Member/
- Cater, F. W., Jr., 1955
geology/ Dolores County/ salt anticlines/ Montrose County/ San Miguel County/ sandstone/ Utah/ Paradox Basin/ Colorado Plateau/ carnotite/ San Juan Basin/ Archuleta County/ La Plata County/
- Cater, F. W., Jr., 1955
Colorado Plateau/ Colorado/ mapping/ maps published/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ sandstone/ carnotite/ ore deposits/
- Cater, F. W., Jr., 1956
Montrose County/ San Miguel County/ Morrison Formation/ Anderson Mesa quadrangle/ carnotite/ ore deposits/ Salt Wash Member/ sandstone/ Colorado Plateau/ Gyp mine/ Silveys Pocket/ geology/ map/ mines/ Raven mine/
- Cater, F. W., Jr., 1964
Gypsum Valley/ salt anticlines/ San Miguel County/ structure/ geology/ Colorado Plateau/ history/ sandstone/
- Cater, F. W., Jr., 1967
salt anticlines/ Paradox Basin/ Utah/ Colorado/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ structure/ Colorado Plateau/ geology/
- Cater, F. W., Jr., 1970
salt anticlines/ geology/ Colorado/ Mesa County/ San Miguel County/ Colorado Plateau/ stratigraphy/ structure/ sandstone/ Montrose County/
- Cater, F. W., Jr., and Bell, H., 3d, 1953
Uravan district/ Dolores County/ San Miguel County/ geology/ ore guides/ exploration/ minerals/ carnotite/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ Norma Jean mine/ Mucho Grande mine/ ore deposits/ map/ Joe Davis Hill quadrangle/
- Cater, F. W., Jr., and Elston, D. P., 1961
salt anticlines/ tectonics/ Colorado/ Mesa County/ San Miguel County/ Colorado Plateau/ structural development/ geology/ Utah/ sandstone/ Montrose County/
- Cater, F. W., Jr., and Elston, D. P., 1963
salt anticlines/ tectonics/ Colorado/ Mesa County/ Montrose County/ San Miguel County/ geology/ structural development/ Utah/ sandstone/ Colorado Plateau/

- Cater, F. W., Jr., Craig, L. C., and Phoenix, D. A., 1950
sandstone/ Morrison Formation/ Salt Wash Member/ geology/ Colorado Plateau/ ground water studies/ carnotite/ stratigraphy/ structure/ ore deposits/ Colorado/ New Mexico/ Utah/ Arizona/ San Miguel County/ Montrose County/ Mesa County/ Garfield County/ Rio Blanco County/
- Chenoweth, W. L., 1977
Colorado Plateau/ sandstone/ Garfield County/ San Miguel County/ Mesa County/ Dolores County/ Montezuma County/ Montrose County/
- Chew, R. T., 3d, 1955
Colorado Plateau/ Rifle mine/ Uravan district/ map/ Uranium Peak/ sandstone/ production/ uranium/ vanadium/ Morrison Formation/ La Plata County/ ore deposits/ Entrada Sandstone/ Rio Blanco County/ Mesa County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Gateway district/
- Chew, R. T., 3d, 1955
sandstone/ Mesa County/ Utah/ stream sediments/ exploration/ radioactivity/ Delta County/ Montrose County/ gravels/ San Miguel County/ Dolores County/ Ouray County/ San Juan County/ Montezuma County/ La Plata County/ Colorado Plateau/
- Chew, R. T., 3d, 1956
Mesa County/ Delta County/ Montrose County/ sandstone/ Dolores County/ Ouray County/ San Juan County/ gravels/ Montezuma County/ La Plata County/ Colorado Plateau/ exploration/ stream sediments/ radioactivity/ San Miguel County/
- Chew, R. T., 3d, 1956
Rifle mine/ Uravan district/ Uranium Peak/ vanadium/ production/ Colorado Plateau/ uranium/ sandstone/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Entrada Sandstone/ ore deposits/ Garfield County/ Morrison Formation/
- Coffin, R. C., 1921
ore deposits/ resources/ structure/ composition/ sandstone/ carnotite/ radium/ uranium/ vanadium/ Colorado Plateau/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/
- Coffin, R. C., 1921
carnotite/ Colorado Plateau/ radium/ uranium/ Mesa County/ vanadium/ sandstone/ ore deposits/ San Miguel County/ Dolores County/ Montrose County/
- Cohenour, R. E., 1967
Colorado Plateau/ ore deposits/ production/ history/ Utah/ mineral economics/ Placerville district/ Uravan district/ sandstone/ San Miguel County/ development/ Montrose County/
- Coleman, R. G., 1956
thermometry/ radioactive minerals/ Colorado Plateau/ sulfides/ sandstone/ uraninite/ geothermometry/ San Miguel County/ geology/ ore deposits/
- Coleman, R. G., 1957
mineralogy/ temperature of formation/ uranium/ ore deposits/ Colorado Plateau/ San Miguel County/ geothermometry/ sandstone/
- Collins, G. E., 1914
carnotite/ sandstone/ San Miguel County/ Montrose County/ pitchblende/ igneous-metamorphic/ Gilpin County/ mining/ Colorado Plateau/ Front Range/
- Columbia University, 1971
plants/ uranium/ Colorado Plateau/ ore deposits/ sandstone/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/
- Comstock, S. S., 1951
radioactivity/ exploration/ drilling/ Arizona/ Utah/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ gamma-ray logging/ Colorado Plateau/
- Cooper, Margaret, 1951
bibliography/ uranium/ thorium/ carbonaceous deposits/ Colorado/ Colorado Plateau/ Mesa County/ sandstone/ San Miguel County/ Dolores County/ Montezuma County/ ore deposits/ Montrose County/
- Cooper, Margaret, 1951
bibliography/ uranium/ thorium/ carbonaceous deposits/ Colorado/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ Dolores County/ organics/ sandstone/
- Craig, L. C., and Cadigan, R. A., 1958
Morrison Formation/ Colorado Plateau/ ore deposits/ stratigraphy/ sandstone/ Colorado/ Utah/ Paradox basin/ San Miguel County/ Montrose County/
- Craig, L. C., and Holmes, C. N., 1951
Morrison Formation/ Colorado Plateau/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Mesa County/ stratigraphy/ Glen Canyon group/ San Rafael group/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951
Colorado Plateau/ Morrison Formation/ Mesa County/ stratigraphy/ Glen Canyon group/ Montezuma County/ Delta County/ San Rafael group/ Dolores County/ Gunnison County/ Montrose County/ sandstone/ Moffat County/ Ouray County/ San Juan County/ San Miguel County/ La Plata County/ Rio Blanco County/ Garfield County/ Archuleta County/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1955
stratigraphy/ Morrison Formation/ Colorado Plateau/ sandstone/ Recapture Member/ Mesa County/ Ouray County/ Delta County/ Gunnison County/ Montrose County/ San Juan County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Salt Wash Member/
- Craig, L. C., Holmes, C. N., Freeman, V. L., and others, 1977
Morrison Formation/ Salt Wash Member/ Brushy

- Basin Member/ member/ sandstone/ shale/ Colorado Plateau/ facies/ maps/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/
- Curran, T. F., 1913
Colorado Plateau/ ore deposits/ carnotite/ history/ Gilpin County/ Wood mine/ Montrose County/ sandstone/ igneous-metamorphic/ pitchblende/ San Miguel County/ Mesa County/ Dolores County/ Routt County/ Paradox Valley/ Rio Blanco County/ Utah/ Australia/ Front Range/
- Curran, T. F., 1913
ore deposits/ carnotite/ San Miguel County/ history/ Gilpin County/ Wood mine/ Montrose County/ Colorado Plateau/ sandstone/ igneous-metamorphic/ pitchblende/ Mesa County/ Dolores County/ Routt County/ Rio Blanco County/ Paradox Valley/ Utah/ Australia/ Front Range/
- Dalrymple, J. W., Jr., Young, N. B., and Ullbarri, A., 1957
uranium/ ore deposits/ fracture properties/ fractures/ sandstone/ Bull Canyon district/ Montrose County/ San Miguel County/ Colorado Plateau/
- Dare, W. L., Lindblom, R. A., and Soule, J. H., 1961
Mesa County/ Montrose County/ San Miguel County/ sandstone/ mining methods/ mining costs/ mine maps/ Colorado Plateau/ Veta Mad mine/
- Davis, W. E., 1953
Colorado Plateau/ geophysics/ exploration/ Salt Wash Member/ sandstone/ Gramlich mine/ Spud Patch area/ La Sal Creek area/ San Miguel County/ Mesa County/ Montrose County/ Colorado/ Utah/ Arizona/ Morrison Formation/
- Davis, W. E., 1953
Colorado Plateau/ geophysics/ exploration/ carnotite/ sandstone/ Morrison Formation/ Salt Wash Member/ drilling/ Mesa County/ San Miguel County/ Montrose County/
- Del Rio, S. M., compiler, 1960
minerals/ resources/ Colorado/ uranium/ Colorado Plateau/ San Miguel County/ Montrose County/ Mesa County/ Front Range/ Jefferson County/ Fremont County/ sandstone/ igneous-metamorphic/ Moffat County/
- Dickson, R. E., Blair, R. G., Hart, H. R., and others, 1955
ore deposits/ exploration/ Bull Canyon/ Montrose County/ San Miguel County/ drilling/ sandstone/ ore favorability/ Colorado Plateau/
- Dodd, P. H., 1956
Jurassic/ Morrison Formation/ Colorado Plateau/ Wedding Bell mines/ Montrose County/ San Miguel County/ County/ sandstone/ uranium/ vanadium/ ore controls/ ore deposits/
- Dodd, P. H., 1956
Jurassic/ Morrison Formation/ Colorado Plateau/ ore deposits/ Wedding Bell mines/ Montrose County/ County/ sandstone/ uranium/ vanadium/ ore controls/ San Miguel County/
- Dutro, H. B., and Bivens, N. W., 1953
Pond claim/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Long Ridge group/ Gypsum Valley district/ San Miguel County/
- Dutro, H. B., and Bivens, N. W., 1953
Paradox Member/ Hermosa Formation/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ limestone/ ore deposits/ uranium/ vanadium/ Spectacle Point claims/ Gypsum Valley district/ San Miguel County/
- Eastman, H. P., 1953
detritus/ river channels/ sphericity/ simulation/ transportation/ Shinarump Member/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Colorado Plateau/
- Ebbley, Norman, 1950
Colorado Plateau/ mines/ uranium/ Colorado/ Utah/ vanadium/ production problems/ Uravan district/ Gateway district/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Garfield County/ Rifle mine/ Morrison Formation/ Entrada Sandstone/ Dolores County/
- Elston, D. P., and Landis, E. R., 1960
sandstone/ unconformities/ Paradox Valley/ Gypsum Valley/ salt anticlines/ Colorado Plateau/ stratigraphy/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Dolores County/ Hermosa Formation/
- Emerick, W. L., 1953
uranium/ vanadium/ drilling/ exploration/ Colorado Plateau/ Lost group area/ Gypsum Valley district/ San Miguel County/ sandstone/ Morrison Formation/ Salt Wash Member/ reserves/ Lost claims/ Rattlesnake claims/ Blue Raven claims/ ore deposits/
- Emerick, W. L., and Gaultieri, J. L., 1953
Colorado Plateau/ reserves/ exploration/ sandstone/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ South Radium group area/ Slick Rock district/ San Miguel County/ ore deposits/
- Emerick, W. L., and Gaultieri, J. L., 1953
Black Belle claim/ Colorado Maiden claim/ Jessie claim/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Upper group area/ Slick Rock district/ San Miguel County/
- Emerick, W. L., and Gaultieri, J. L., 1953
Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Salt Wash Member/ Ellison-Burro claims area/ Slick Rock district/ San Miguel County/ Morrison Formation/
- Emerick, W. L., and Gaultieri, J. L., 1953
Georgeto claim/ Veta Glad claim/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/

Salt Wash Member/ Georgetown group/ Slick Rock district/ San Miguel County/

Emerson, J. F., 1945

uranium/ ore deposits/ vanadium/ geological surveys/ geography/ mining/ exploration/ tables/ maps/ Dolores Plateau area/ Colorado Plateau/ Montrose County/ County/ San Miguel County/ sandstone/ Bull Canyon district/

Everhart, D. L., 1951

geology/ veins/ ore deposits/ minerals/ sandstone/ igneous-metamorphic/ mudstone/ Colorado Plateau/ phosphates/ pitchblende/ pegmatite/ carnotite/ Morrison Formation/ Entrada Sandstone/ Shinarump Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ asphalt/ limestone/ black shale/ Belgian Congo/ Canadian Shield/

Everhart, D. L., 1954

Colorado Plateau/ sandstone/ Colorado/ New Mexico/ Utah/ Wyoming/ veins/ igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Jefferson County/ Australia/ South Africa/ Ontario/

Everhart, D. L., 1956

sandstone/ Colorado Plateau/ Front Range/ Copper King mine/ veins/ Larimer County/ Los Ochos mine/ Saguache County/ Caribou mine/ Boulder County/ Schwartzwalder mine/ Carroll mine/ Placerville district/ San Miguel County/ alteration/ pitchblende/ igneous-metamorphic/ Jefferson County/ Carroll mine/ structural tension/

Everhart, D. L., 1956

pitchblende/ Colorado Plateau/ igneous-metamorphic/ granite/ Front Range/ Copper King mine/ Larimer County/ alteration/ Los Ochos mine/ Saguache County/ Caribou mine/ Carroll mine/ Boulder County/ San Miguel County/ ore deposits/ sandstone/ Placerville district/ Schwartzwalder mine/ Jefferson County/ structural tension/ United States/ Tertiary/ veins/ alteration/

Finch, W. I., 1955

Colorado Plateau/ ore deposits/ uranium/ sandstone/ copper/ conglomerate/ ore-bearing formation/ limestone/ vanadium/ Rio Blanco County/ Garfield County/ Mesa County/ geology/ Delta County/ San Miguel County/ Dolores County/ Rifle mine/ Montezuma County/ La Plata County/ Greysill mine/ Placerville district/ Uravan district/ Gateway district/ map/ geology/

Finch, W. I., 1956

Colorado Plateau/ ore deposits/ La Plata County/ production/ Triassic/ Chinle Formation/ shale/ sandstone/ conglomerate/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Garfield County/ Rio Blanco County/ geology/

Finch, W. I., 1959

Colorado Plateau/ ore deposits/ production/ Triassic/ Chinle Formation/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose

County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ sandstone/ conglomerate/ shale/ Garfield County/ Rio Blanco County/ geology/

Finch, W. I., 1967

Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/

Fischer, R. P., 1936

copper/ vanadium/ uranium/ silver/ ore deposits/ sedimentary deposits/ veins/ hydrothermal/ sandstone/ igneous-metamorphic/ Entrada Sandstone/ San Miguel County/ Colorado/ Utah/ Colorado Plateau/

Fischer, R. P., 1937

copper/ vanadium/ silver/ uranium/ sedimentary deposits/ Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ Montezuma County/ Dolores County/ San Miguel County/

Fischer, R. P., 1942

vanadium/ production/ sandstone/ Morrison Formation/ Entrada Shinarump Member/ conglomerate/ ore deposits/ Dolores County/ San Miguel County/ Montrose County/ Colorado/ Utah/ Garfield County/ Colorado Plateau/ Entrada Sandstone/ Mesa County/

Fischer, R. P., 1943

Colorado/ Utah/ vanadium/ ore deposits/ uranium/ radium/ Morrison Formation/ Entrada Sandstone/ Shinarump Member/ sandstone/ conglomerate/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Dolores County/ Colorado Plateau/

Fischer, R. P., 1944

vanadium/ Colorado/ Utah/ Colorado Plateau/ uranium/ Entrada Sandstone/ sandstone/ Garfield County/ San Miguel County/

Fischer, R. P., 1947

Colorado Plateau/ exploration/ drilling/ sandstone/ carnotite/ recommendations/ Garfield County/ San Miguel County/ Montrose County/ Mesa County/

Fischer, R. P., 1947

sandstone/ Colorado Plateau/ vanadium/ genesis/ ore deposits/ Garfield County/ San Miguel County/

Fischer, R. P., 1948

Morrison Formation/ Entrada Sandstone/ Placerville district/ Colorado Plateau/ production potential/ uranium/ vanadium/ ore deposits/ Colorado/ Utah/ New Mexico/ Arizona/ sandstone/ Uravan district/ Rifle district/ Garfield County/ Dolores County/ San Miguel County/ Montrose County/ Slick Rock district/

Fischer, R. P., 1949

Colorado Plateau/ uranium/ vanadium/ ore deposits/

SAN MIGUEL COUNTY

SAN MIGUEL COUNTY

- genesis/ structure/ ground water/ sandstone/
Mesa County/ Montrose County/ Dolores County/
San Miguel County/
- Fischer, R. P., 1950
Colorado Plateau/ ore deposits/ sandstone/ uranium/
Morrison Formation/ Rio Blanco County/ Garfield
County/ Mesa County/ Delta County/ Montrose
County/ Dolores County/ Montezuma County/ La
Plata County/ Archuleta County/ ore guides/
Garfield County/ San Miguel County/
- Fischer, R. P., 1950
Morrison Formation/ Colorado Plateau/ Mesa County/
Dolores County/ Montrose County/ San Miguel
County/ Garfield County/ Rio Blanco County/
sandstone/ ore rolls/ carnotite/ geology/ ore
deposits/ mineralogy/ alteration/ Club mine/
uranium/ radium/ vanadium/ Entrada Sandstone/
genesis/
- Fischer, R. P., 1950
uranium/ vanadium/ potential/ Colorado Plateau/
sandstone/ ore deposits/ reserves/ analyses/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/
- Fischer, R. P., 1951
Colorado Plateau/ Uravan district/ exploration/
drilling/ sandstone/ ore deposits/ Morrison
Formation/ Montrose County/ Mesa County/ Dolores
County/ San Miguel County/
- Fischer, R. P., 1952
reserves/ resources/ Charles T. claims/ uranium/
Club Mesa area/ Maverick claims/ Radium claims/
Upper group/ Georgetown claims/ vanadium/ Colorado
Plateau/ carnotite/ Morrison Formation/ sandstone/
Dolores County/ San Miguel County/ Mesa County/
Montrose County/
- Fischer, R. P., 1955
Colorado Plateau/ hot springs/ uranium/ vanadium/
geochemistry/ igneous-metamorphic/ sedimentary
rocks/ veins/ sandstone/ ore deposits/ San Miguel
County/ Mesa County/ Montrose County/ Dolores
County/ Garfield County/
- Fischer, R. P., 1955
vanadium/ uranium/ geochemistry/ Colorado Plateau/
Igneous-metamorphic/ sedimentary rocks/ veins/
sandstone/ ore deposits/ San Miguel County/
Mesa County/ Montrose County/ Dolores County/
Garfield County/ hot springs/
- Fischer, R. P., 1955
veins/ igneous-metamorphic/ sedimentary rocks/
sandstone/ vanadium/ uranium/ ore deposits/
Colorado Plateau/ geochemistry/ San Miguel County/
Mesa County/ Montrose County/ Dolores County/
Garfield County/ hot springs/
- Fischer, R. P., 1955
Durango district/ Placerville district/ Rico
district/ uranium/ vanadium/ chromium/ Delta
County/ Garfield County/ La Plata County/ Ouray
County/ Rio Blanco County/ San Juan County/
San Miguel County/ minerals/ mariposite/ sandstone/
- Entrada Sandstone/ regional relations/ ore deposits/
Colorado Plateau/ Mesa County/ Moffat County/
Montezuma County/ Montrose County/ Rifle area/
Dolores County/
- Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/
genesis/ mineralogy/ Morrison Formation/ Entrada
Sandstone/ sandstone/ Mesa County/ copper/ Montrose
County/ San Miguel County/ Dolores County/ San
Juan County/ Uravan district/
- Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/
genesis/ mineralogy/ Morrison Formation/ Entrada
Sandstone/ sandstone/ Mesa County/ copper/ Montrose
County/ San Miguel County/ Dolores County/ San
Juan County/ Uravan district/
- Fischer, R. P., 1956
ore deposits/ Colorado Plateau/ uranium/ vanadium/
localization/ Entrada Sandstone/ sandstone/
Rifle district/ Garfield County/ genesis/ San
Miguel County/ La Plata County/ Placerville
district/ Rico district/ Dolores County/
- Fischer, R. P., 1956
vanadium/ uranium/ ore deposits/ Colorado Plateau/
sandstone/ Garfield County/ San Miguel County/
La Plata County/ Rifle district/ Placerville
district/ Rico district/ Durango district/ genesis/
localization/ Dolores County/ Entrada Sandstone/
- Fischer, R. P., 1962
Colorado/ vanadium/ United States/ sandstone/
Colorado Plateau/ Entrada Sandstone/ Garfield
County/ San Miguel County/
- Fischer, R. P., 1968
Colorado Plateau/ geology/ structure/ ore deposits/
genesis/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/ Dolores County/ Chinle
Formation/ Morrison Formation/ Montezuma County/
La Plata County/ San Juan County/ Garfield County/
Rio Blanco County/ Moffat County/ Entrada Sandstone/
production/ stratigraphy/
- Fischer, R. P., 1968
San Miguel County/ Entrada Formation/ sandstone/
vanadium/ Placerville district/ ore deposits/
guidebook/ Colorado Plateau/
- Fischer, R. P., 1970
Colorado/ Wyoming/ Colorado Plateau/ genesis/
supergene processes/ ore deposits/ sandstone/
configuration/ distribution/ uranium/ Arizona/
mineralogy/ New Mexico/ Utah/ Mesa County/ Montrose
County/ Montezuma County/ Dolores County/ San
Miguel County/ Rio Blanco County/
- Fischer, R. P., 1973
ore guides/ uranium districts/ mineral belts/
exploration/ future/ ore deposits/ Colorado
Plateau/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/
- Fischer, R. P., 1974
exploration/ ore guides/ uranium/ ore deposits/
Colorado Plateau/ Uravan district/ genesis/

- sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/
- Fischer, R. P., and Blackman, D. H., 1949
Colorado Plateau/ ore guides/ genesis/ Morrison Formation/ carnotite/ sandstone/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ ore deposits/ Calamity group/ geology/ structure/
- Fischer, R. P., and Blackman, D. H., 1949
Colorado Plateau/ geobotany/ sandstone/ carnotite/ Calamity group/ ore deposits/ geology/ mineralogy/ genesis/ ore guides/ stratigraphy/ ground water/ Morrison Formation/ Mesa County/ Lower group/ San Miguel County/ vanadium/ Club mine/ Montrose County/ Yellow Cat group/ geochemistry/
- Fischer, R. P., and Butler, A. P., Jr., 1947
Colorado Plateau/ exploration/ drilling/ reserves/ resources/ uranium/ vanadium/ sandstone/ ore deposits/ carnotite/ Morrison Formation/ Entrada Sandstone/ Placerville district/ San Miguel County/ Utah/ Arizona/
- Fischer, R. P., and Butler, A. P., Jr., 1947
Colorado Plateau/ exploration/ drilling/ ore deposits/ reserves/ resources/ uranium/ vanadium/ sandstone/ carnotite/ Morrison Formation/ Entrada Sandstone/ Placerville district/ San Miguel County/ Utah/ Arizona/
- Fischer, R. P., and Hilpert, L. S., 1951
Calamity Mesa/ Club Mesa/ Long Park/ Outlaw Mesa/ Mesa County/ Montrose County/ San Miguel County/ ore guides/ production/ Dolores County/ Uravan mineral belt/ sandstone/ ore deposits/ Morrison Formation/ Colorado Plateau/ carnotite/ exploration/ geology/ vanadium/ uranium/ Uravan district/
- Fischer, R. P., and Hilpert, L. S., 1951
Calamity Mesa/ Club Mesa/ Long Park/ Outlaw Mesa/ Mesa County/ Montrose County/ San Miguel County/ ore guides/ production/ Dolores County/ Uravan mineral belt/ sandstone/ Morrison Formation/ Colorado Plateau/ ore deposits/ carnotite/ exploration/ geology/ vanadium/ uranium/ Uravan district/
- Fischer, R. P., and Hilpert, L. S., 1952
Uravan mineral belt/ ore deposits/ carnotite/ Mesa County/ Montrose County/ Outlaw Mesa/ Calamity Mesa/ Club Mesa/ Long Park/ exploration/ geology/ sandstone/ Colorado Plateau/ Morrison Formation/ uranium/ Uravan district/ Dolores County/ San Miguel County/ ore guides/ production/ vanadium/
- Fischer, R. P., and Stewart, J. H., 1960
bed distribution/ lithology/ sandstone/ uranium/ vanadium/ copper/ Colorado/ Morrison Formation/ Colorado Plateau/ ore deposits/ San Miguel County/ Garfield County/ Entrada Sandstone/
- Fischer, R. P., and Stewart, J. H., 1961
copper/ vanadium/ uranium/ ore deposits/ sandstone/ Colorado Plateau/ Entrada Sandstone/ geochemistry/ San Miguel County/ Garfield County/
- Fischer, R. P., Haff, J. C., and Rominger, J. R., 1943
vanadium/ uranium/ Placerville district/ San Miguel County/ sandstone/ Entrada Sandstone/ ore deposits/ Colorado Plateau/
- Fischer, R. P., Haff, J. C., and Rominger, J. R., 1947
uranium/ ore deposits/ San Miguel County/ vanadium/ sandstone/ Entrada Sandstone/ Colorado Plateau/ Placerville district/
- Fischer, R. P., Hilpert, L. S., Schumacher, J. L., and others, 1951
Investigations/ carnotite/ ore deposits/ sandstone/ Colorado Plateau/ Morrison Formation/ Chinle Formation/ Entrada Sandstone/ San Miguel County/ Mesa County/ Dolores County/ Garfield County/
- Fischer, R. P., Luedke, R. G., Sheridan, M. J., and others, 1968
mineral industry/ resources/ minerals/ Ouray County/ Hinsdale County/ San Miguel County/ production/ Gunnison County/ Beth claim/ veins/ rhyolite porphyry/ black shale/ Precambrian rocks/ pitchblende/ bituminous shale/ igneous-metamorphic/ Uncompahgre primitive area/
- Fix, P. F., 1954
San Miguel River/ Montrose County/ ground water/ nonsaline waters/ analyses/ Big Springs Gulch/ Orvis Hot spring/ streams/ geochemistry/ Mesa County/ San Miguel County/ Ouray County/ Hinsdale County/ Gunnison County/ springs/ Cougar mine spring/ Maverick Mesa spring/ Cimarron Creek/ Blue Creek/ Colorado Plateau/ Calamity Mesa spring/
- Fleck, Herman, 1908
pitchblende/ Gilpin County/ igneous-metamorphic/ uranium/ vanadium/ ore deposits/ Placerville district/ sandstone/ San Miguel County/ Front Range/ rare metals/ Entrada Sandstone/
- Fleck, Herman, 1908
rare elements/ vanadium/ uranium/ importance/ Gilpin County/ Front Range/ igneous-metamorphic/ Placerville district/ sandstone/ San Miguel County/ ore deposits/ Colorado Plateau/
- Fleck, Herman, 1909
Gilpin County/ ore deposits/ pitchblende/ production/ vanadium/ Placerville district/ San Miguel County/ rare metals/ uranium/ Entrada Sandstone/ sandstone/ igneous-metamorphic/ Front Range/ Colorado Plateau/
- Fleck, Herman, 1909
rare metals/ pitchblende/ uranium/ ore deposits/ San Miguel County/ Placerville district/ vanadium/ Entrada Sandstone/ sandstone/ Colorado Plateau/
- Fleck, Herman, 1916
ore deposits/ production/ rare metals/ tungsten/ molybdenum/ vanadium/ uranium/ Colorado Plateau/ Placerville district/ San Miguel County/ sandstone/ Front Range/ Gilpin County/ igneous-metamorphic/

SAN MIGUEL COUNTY

SAN MIGUEL COUNTY

- Fleck, Herman, and Haldane, W. G., 1907
uranium/ vanadium/ Colorado Plateau/ San Miguel
County/ Garfield County/ sandstone/ ore deposits/
- Fleck, Herman, and Haldane, W. G., 1908
San Miguel County/ Placerville district/ carnotite/
analyses/ uranium/ vanadium/ radioactivity/
sandstone/ Colorado Plateau/
- Fleck, Herman, and Haldane, W. G., 1909
carnotite/ uranium/ vanadium/ radioactivity/
Dolores County/ Montrose County/ Mesa County/
San Miguel County/ sandstone/ Colorado Plateau/
- Fleck, Herman, and Haldane, W. G., 1909
carnotite/ uranium/ vanadium/ radioactivity/
Dolores County/ Montrose County/ Mesa County/
San Miguel County/ sandstone/ Colorado Plateau/
- Flint, A. E., 1955
Bull Canyon district/ Montrose County/ San Miguel
County/ sandstone/ Morrison Formation/ Salt
Wash Member/ Colorado Plateau/
- Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/
geochemistry/ clay mineralogy/ uranium/ vanadium/
sandstone/ Moffat County/ Rio Blanco County/
Garfield County/ Mesa County/ Delta County/
San Miguel County/ Montrose County/ Dolores
County/ Montezuma County/ La Plata County/ Archuleta
County/
- Four Corners Geological Society, 1960
Colorado Plateau/ Dolores County/ San Miguel
County/ Montrose County/ sandstone/ sediments/
geology/ structures/ Paradox basin/ oil/ gas/
uranium/
- Freeman, H. D., 1935
uranium/ vanadium/ Triassic/ Jurassic/ sandstone/
Colorado/ Utah/ Colorado Plateau/ ore deposits/
Dolores County/ Montrose County/ San Miguel
County/
- Gabelman, J. W., 1956
uranium/ ore deposits/ limestone/ Colorado Plateau/
Gypsum Valley area/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/ Wanakah
Formation/
- Gabelman, J. W., 1956
uranium/ ore deposits/ limestone/ Colorado Plateau/
Gypsum Valley area/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/ Wanakah
Formation/
- Gabelman, J. W., 1958
Colorado Plateau/ Uravan district/ mineral belts/
structure/ Montrose County/ San Miguel County/
Dolores County/ sandstone/ alterations/ tectonic
control/
- Gabelman, J. W., and Boyer, W. H., 1974
exploration/ status/ uranium/ technology/ history/
pitchblende/ radium/ vanadium/ Colorado Plateau/
Front Range/ Montrose County/ Mesa County/ San
Miguel County/ Dolores County/ Moffat County/
- Jefferson County/ sandstone/ Igneous-metamorphic/
shale/
- Garrels, R. M., 1953
Colorado Plateau/ ore deposits/ carnotite/ genesis/
weathering/ transport/ deposition/ Paradox Valley/
Uravan district/ Montrose County/ sandstone/
San Miguel County/ Mesa County/ geology/
- Garrels, R. M., 1954
weathering/ transportation/ deposition/ Jo Dandy
area/ Colorado Plateau/ Mineral Joe mine/ Montrose
County/ sandstone/ Uravan district/ San Miguel
County/ ore deposits/
- Garrels, R. M., 1954
Colorado Plateau/ weathering/ transportation/
deposition/ Paradox Valley/ Uravan district/
Montrose County/ sandstone/ Jo Dandy group/
Mineral Joe mine/ clays/ Long Park/ San Miguel
County/ ore deposits/
- Garrels, R. M., 1955
Colorado Plateau/ ore deposits/ weathering/
transportation/ deposition/ sandstone/ Mineral
Joe mine/ Jo Dandy area/ Uravan district/ Montrose
County/ geochemistry/ San Miguel County/
- Garrels, R. M., 1955
Colorado Plateau/ ore deposits/ weathering/
sandstone/ genesis/ uranium/ Montrose County/
San Miguel County/
- Garrels, R. M., and Larsen, E. S., 3d, compilers,
1959
Colorado Plateau/ ore deposits/ mineralogy/
geochemistry/ sandstone/ ground water/ clay/
mudstone/ organics/ Peanut mine/ J. J. mine/
Montrose County/ Rifle mine/ Garfield mine/
Moffat County/ Rio Blanco County/ Mesa County/
Delta County/ San Miguel County/ Dolores County/
La Plata County/ Montezuma County/ Archuleta
County/
- Garrels, R. M., and Pommer, A. M., 1956
Colorado Plateau/ oxidation/ reduction/ ore
deposits/ organics/ uraninite/ pyrite/ sandstone/
geochemistry/ San Miguel County/ Garfield County/
Montrose County/ Mesa County/
- Garrels, R. M., and Pommer, A. M., 1959
oxidation/ reduction/ ores/ minerals/ geochemistry/
ore deposits/ mineralogy/ Colorado Plateau/
sandstone/ San Miguel County/ Mesa County/ Montrose
County/ Garfield County/
- Garrels, R. M., and Richter, D. H., 1955
thermodynamics/ uranium oxides/ oxidation states/
Colorado Plateau/ ore deposits/ San Miguel County/
genesis/ sandstone/ Montrose County/ Garfield
County/ Mesa County/
- George, R. D., 1917
minerals/ rocks/ Colorado/ occurrences/ uses/
Colorado Plateau/ sandstone/ Igneous-metamorphic/
uranium/ vanadium/ radium/ carnotite/ pitchblende/
Jefferson County/ Gilpin County/ Front Range/
Montrose County/ San Miguel County/ Dolores

- County/ Garfield County/ Rio Blanco County/
Routt County/ Boulder County/
- Gilbert, C. C., 1954
resources/ sandstone/ Uravan district/ Morrison
Formation/ Mesa County/ Montrose County/ Gateway
district/ Gypsum Valley district/ Slick Rock
district/ Colorado Plateau/ Salt Wash Member/
Dolores County/ San Miguel County/ Paradox district/
- Gilbert, C. C., 1954
ore deposits/ ore distribution/ Colorado Plateau/
sandstone/ Morrison Formation/ Salt Wash Member/
Bull Canyon district/ Gypsum Valley district/
Slick Rock district/ San Miguel County/ Montrose
County/
- Girdley, W. A., Flook, J. E., and Harris, R. E., 1975
spectroscopy/ ore deposits/ uranium/ vanadium/
lithology/ mineralogy/ sandstone/ subsurface
stratigraphy/ Morrison Formation/ Sage Plain
area/ Colorado Plateau/ Utah/ Colorado/ Dolores
County/ Montezuma County/ La Plata County/ San
Miguel County/
- Griffiths, J. C., 1952
sampling/ collection/ Salt Wash Member/ Colorado/
Utah/ Colorado Plateau/ Jurassic/ clays/ Bull
Canyon district/ sandstone/ Montrose County/
San Miguel County/ Polar Mesa/ Blue Mesa/ Paradox
Valley/ sediments/ Morrison Formation/
- Griffiths, J. C., 1954
Colorado Plateau/ ore deposits/ exploration/
sediments/ sandstone/ mudstone/ Montrose County/
San Miguel County/ Salt Wash Member/ Morrison
Formation/ Jurassic/ quantitative analysis/
- Griffiths, J. C., 1954
Morrison Formation/ Salt Wash Member/ sediments/
sandstone/ textures/ grain size/ mudstone/ Jurassic/
Colorado/ Utah/ Colorado Plateau/ Bull Canyon
district/ uranium/ vanadium/ Entrada Sandstone/
Arizona/ grain fabric/ Montrose County/ Shinarump
Member/ petrography/ San Miguel County/
- Griffiths, J. C., 1957
Salt Wash Member/ sandstone/ mudstone/ Morrison
Formation/ Jurassic/ Bull Canyon District/ Monogram
Mesa/ San Miguel County/ Colorado/ Utah/ Arizona/
Plateau/ statistics/ petrography/ ore guides/
exploration/ sand grain studies/ ore deposits/
Montrose County/ Colorado Plateau/
- Griffiths, J. C., Cochran, J. A., Groff, D. W.,
and Kahn, J. S., 1953
lithology/ analyses/ Salt Wash Member/ Jurassic/
sandstone/ mudstone/ cores/ uranium/ vanadium/
limonite/ Montrose County/ San Miguel County/
spectrometry/ Bull Canyon district/ Morrison
Formation/ Colorado Plateau/
- Griffiths, J. C., Cochran, J. A., Groff, D. W.,
and Kahn, J. S., 1954
Salt Wash Member/ Morrison Formation/ Jurassic/
sandstone/ mudstone/ Montrose County/ San Miguel
County/ thin sections/ Colorado/ Utah/ limonite/
Colorado Plateau/ Bull Canyon district/ petrography/
- Griffiths, J. C., Cochran, J. A., Hutta, J. J.,
and Stelmets, R., 1956
Salt Wash Member/ sediments/ Morrison Formation/
Jurassic/ grain size/ grain shape/ sandstone/
Utah/ Colorado/ Arizona/ Montrose County/ San
Miguel County/ statistics/ grain orientation/
Colorado Plateau/ Bull Canyon district/ quartz/
lithology/
- Griffiths, J. C., Cochran, J. A., Hutta, J. J.,
and Stelmets, R., 1956
Salt Wash Member/ Morrison Formation/ Jurassic/
sandstone/ matrix/ clay/ Colorado Plateau/ Monogram
Mesa/ Utah/ Arizona/ Montrose County/ San Miguel
County/ petrography/ sediments/ clay pebbles/
grain packing/ statistics/ Bull Canyon district/
- Gruner, J. W., 1951
Shinarump Member/ Morrison Formation/ Colorado
Plateau/ conglomerate/ sandstone/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ Utah/ pitchblende/
genesis/ Chinle Formation/ ore deposits/
- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ genesis/ mineralization/
shale/ sandstone/ siltstone/ clays/ Morrison
Formation/ Colorado/ Utah/ Arizona/ New Mexico/
Moenkopi Formation/ Shinarump Member/ conglomerate/
Mesa County/ Montrose County/ San Miguel County/
asphaltite/ uraninite/ copper/ Chinle Formation/
- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ syngenetic processes/
hydrothermal processes/ ground water/ genesis/
Shinarump Member/ conglomerate/ Morrison Formation/
sandstone/ conglomerate/ mudstone/ limestone/
Todilto Limestone/ Mesa County/ Montrose County/
Dolores County/ San Miguel County/ Montezuma
County/ Chinle Formation/
- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ intrusives/
extrusives/ ore sources/ sandstone/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ ground water/ igneous-metamorphic/
- Gruner, J. W., 1954
Colorado Plateau/ ore deposits/ genesis/ mineralogy/
Utah/ Colorado/ sandstone/ siltstone/ conglomerate/
limestone/ uranium/ vanadium/ New Mexico/ geology/
San Miguel County/ Montrose County/ Mesa County/
- Gruner, J. W., 1954
Colorado Plateau/ genesis/ ore deposits/ organic
materials/ sandstone/ uranium/ carbon/ San Miguel
County/ Montrose County/ Mesa County/
- Gruner, J. W., 1956
uranium concentration/ sediments/ geochemistry/
Colorado Plateau/ sandstone/ Mesa County/ genesis/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ multiple migration-accretion/
- Gruner, J. W., 1956
Colorado Plateau/ ore deposits/ mineral assemblages/
Utah/ Colorado/ uranium/ sandstone/ continental-type
deposits/ Morrison Formation/ San Miguel County/
Montrose County/ Mesa County/

- Gruner, J. W., 1956
uranium concentration/ sediments/ geochemistry/
sandstone/ genesis/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ multiple migration-accretion/ Colorado
Plateau/
- Gruner, J. W., and Gardiner, L., 1950
ore deposits/ asphalt/ lignite/ geochemistry/
San Miguel County/ sandstone/ Placerville district/
experimental geochemistry/ Colorado Plateau/
- Gruner, J. W., and Gardiner, L., 1952
mineral associations/ Shinarump Member/ Todilto
Limestone/ Utah/ New Mexico/ Colorado Plateau/
Salt Wash Member/ Morrison Formation/ Colorado/
Montrose County/ San Miguel County/ Calamity
Mesa/ Placerville district/ sandstone/ Chinle
Formation/ ore deposits/
- Gruner, J. W., and Knox, J. A., 1957
Colorado/ Arizona/ Montana/ New Mexico/ South
Dakota/ minerals/ uranium/ ore deposits/ mines/
San Miguel County/ Colorado Plateau/ Fremont
County/ Gunnison County/ Saguache County/ volcanics/
conglomerate/ Morrison Formation/ sandstone/
slitstone/ igneous-metamorphic/ Montrose County/
Mesa County/ Moffat County/ Browns Park Formation/
- Gruner, J. W., and Smith, D. K., Jr., 1954
South Dakota/ Wyoming/ ore deposits/ uranium/
Colorado Plateau/ sandstone/ slitstone/ shale/
coffinite/ uraninite/ organics/ Hopi Buttes/
diatremes/ Arizona/ Colorado/ New Mexico/ Utah/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/
- Gruner, J. W., and Smith, D. K., Jr., 1955
Wyoming/ South Dakota/ North Dakota/ Colorado/
sandstone/ Browns Park Formation/ Colorado Plateau/
Morrison Formation/ Chinle Formation/ Mesa County/
San Miguel County/ peat/ lignite/ Moffat County/
Montrose County/
- Gruner, J. W., and Smith, D. K., Jr., 1955
slitstone/ sandstone/ Colorado Plateau/ uranium/
coffinite/ Jurassic/ Larimer County/ Black King
mine/ Mesa County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ mineralogy/
Morrison Formation/ Bull Canyon district/ Calamity
Mesa/ Paradox Valley/ Salt Wash Member/ Front
Range/
- Gruner, J. W., Gardiner, L., and Smith, D. K.,
Jr., 1954
Colorado Plateau/ ore deposits/ mineral assemblages/
Calamity Mesa/ Placerville district/ New Mexico/
conglomerate/ Chinle Formation/ Morrison Formation/
sandstone/ limestone/ asphaltite/ thucholite/
Montrose County/ San Miguel County/ Salt Wash
Member/ Dolores Formation/ Shinarump Member/
Todilto Limestone/
- Gruner, J. W., Rosenzweig, A., and Smith, D. K.,
Jr., 1953
clay/ Colorado Plateau/ Chinle Formation/ Dolores
County/ San Juan County/ Arizona/ Utah/ New
Mexico/ Colorado/ San Juan Mountains/ Entrada
Sandstone/ Greysill mine/ sandstone/ San Miguel
County/
- Gruner, J. W., Rosenzweig, A., and Smith, D. K.,
Jr., 1954
Colorado Plateau/ ore deposits/ mineralogy/
uraninite/ coffinite/ vanadium/ uranium/ Colorado/
Utah/ New Mexico/ Todilto Limestone/ limestone/
Morrison Formation/ sandstone/ Entrada Sandstone/
Dolores County/ San Miguel County/ Greysill
mine/ Mesa County/ Montrose County/ San Juan
County/
- Gualtieri, J. L., and Emerick, W. L., 1953
Grass Flats claim/ Colorado Plateau/ reserves/
exploration/ drilling/ sandstone/ ore deposits/
uranium/ vanadium/ Morrison Formation/ Salt
Wash Member/ Hawkeye claim area/ Slick Rock
district/ San Miguel County/
- Gulliotte, G. B., 1947
drilling/ well logging/ drill cores/ tables/
data/ ore deposits/ gamma-ray logs/ Slick Rock
district/ Colorado Plateau area/ Dolores County/
San Miguel County/ sandstone/ Dolores Plateau/
- Gustafson, J. K., 1949
Colorado Plateau/ uranium/ history/ production/
Colorado/ Utah/ exploration/ sandstone/ San
Miguel County/ Montrose County/ Mesa County/
- Gustafson, J. K., 1949
uranium/ resources/ veins/ Glipin County/ Front
Range/ Boulder County/ igneous-metamorphic/
pitchblende/ vanadium/ Morrison Formation/ sandstone/
Montrose County/ Mesa County/ San Miguel County/
Colorado Plateau/
- Hackman, R. J., 1952
San Miguel County/ photogeologic map/ Utah/
Colorado/ Morrison Formation/ Salt Wash Member/
sandstone/ carnotite/ Colorado Plateau/ Mount
Peale-16 quadrangle/
- Hackman, R. J., 1952
Dolores County/ San Miguel County/ photogeologic
map/ Verdure-1 quadrangle/ Colorado/ Utah/ sandstone/
Colorado Plateau/ carnotite/
- Hackman, R. J., 1955
Montrose County/ Colorado/ San Miguel County/
sandstone/ photogeologic map/ Mount Peale-9
quadrangle/ Utah/ Morrison Formation/ Salt Wash
Member/ carnotite/ Colorado Plateau/
- Hackman, R. J., 1956
Colorado/ Utah/ San Miguel County/ photogeologic
map/ Mount Peale-16 quadrangle/ Morrison Formation/
Salt Wash Member/ sandstone/ carnotite/ Colorado
Plateau/
- Hackman, R. J., 1956
Montrose County/ San Miguel County/ Utah/ photogeologic
map/ Mount Peale-9 quadrangle/ sandstone/ Morrison
Formation/ Salt Wash Member/ carnotite/ Colorado
Plateau/
- Hager, Dorsey, 1955
Colorado Plateau/ ore deposits/ exploration/

- channels/ sandstone/ uranium/ ore concentration/
San Miguel County/ Montrose County/ Mesa County/
- Hague, R. S., 1956
ore deposits/ stratigraphy/mineralogy/ mineralization/
Bull Canyon area/ Montrose County/ San Miguel
County/ Colorado Plateau/ Uravan district/ Morrison
Formation/ Salt Wash Member/ sandstone/ mudstone/
Brushy Basin Member/ tyuyamunite/ carnotite/
uraninite/ montroselite/
- Hague, R. S., Goldstein, S. J., and Blakey, E., 1958
sandstone/ uranium/ vanadium/ Uravan mineral
belt/ ore deposits/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/ Colorado
Plateau/
- Hampton, O. W., 1955
Colorado Plateau/ ore deposits/ resources/ exploration/
production/ costs/ sandstone/ uranium/ methods/
mining/ San Miguel County/ Montrose County/
Mesa County/
- Hastings, J. S., 1963
Uravan mineral belt/ Colorado Plateau/ sandstone/
exploration/ Montrose County/ San Miguel County/
Dolores County/ geology/ mining methods/
- Hathaway, J. C., 1959
Colorado Plateau/ ore deposits/ geochemistry/
mudstone/ clay mineralogy/ mixed-layered structures/
vanadium/ Mineral Joe mine/ Montrose County/
San Miguel County/ sandstone/
- Hawkes, H. E., 1949
Colorado Plateau/ botany/ geobotany/ Garfield
ore zones/ carnotite/ ore deposits/ Charles
T. mine/ geology/ sandstone/ Utah/ selenium/
Rifle mine/ Lower group mines/ Garfield mine/
Mesa County/ Montrose County/ San Miguel County/
Arizona/
- Haynes, D. D., Vogel, J. D., and Wyant, D. G.,
compilers, 1972
Colorado/ Utah/ geology/ structure/ ore deposits/
uranium/ Cortez quadrangle/ map/ host formations/
sandstone/ San Miguel County/ Dolores County/
La Plata County/ Colorado Plateau/ stratigraphy/
Montezuma County/
- Henderson, E. P., 1935
steigerite/ properties/ Gypsum Valley district/
San Miguel County/ Colorado Plateau/ sandstone/
minerals/
- Henderson, E. P., and Hess, F. L., 1933
corvusite/ vanadium/ San Miguel County/ Mesa
County/ Gateway district/ Gypsum Valley district/
Colorado/ Colorado Plateau/ sandstone/ rillandite/
Utah/ carnotite/
- Hess, F. L., 1913
Placerville district/ vanadium/ sandstone/ geology/
San Miguel County/ Entrada Sandstone/ ore deposits/
Colorado Plateau/
- Hess, F. L., 1914
genesis/ carnotite/ Colorado/ uranium/ vanadium/
Rio Blanco County/ Eagle County/ geology/ San
Miguel County/ Montrose County/ Moffat County/
Routt County/ Garfield County/ Mesa County/
Delta County/ Dolores County/ Montezuma County/
La Plata County/ Archuleta County/ Utah/ Colorado
Plateau/ sandstone/ ore deposits/
- Hess, F. L., 1922
Colorado Plateau/ ore deposits/ resources/ radium/
uranium/ vanadium/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ sandstone/
- Hess, F. L., 1925
carnotite/ vanoxite/ vanadium/ mineralogy/ sandstone/
Rio Blanco County/ Garfield County/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ La Plata County/ Colorado
Plateau/ ore deposits/ Delta County/
- Hess, F. L., 1925
Colorado/ Colorado Plateau/ uranium/ vanadium/
sandstone/ radium/ San Miguel County/ Montrose
County/ Mesa County/ ore deposits/ resources/
- Hess, F. L., 1927
Colorado/ Colorado Plateau/ uranium/ vanadium/
radium/ sandstone/ ore deposits/ resources/
San Miguel County/ Montrose County/ Mesa County/
- Hess, F. L., 1929
Colorado/ Colorado Plateau/ uranium/ vanadium/
radium/ sandstone/ ore deposits/ resources/
San Miguel County/ Montrose County/ Mesa County/
- Hess, F. L., 1932
Colorado/ Colorado Plateau/ vanadium/ sandstone/
ore deposits/ San Miguel County/ Montrose County/
Mesa County/
- Hess, F. L., 1933
bituminous substances/ uranium/ vanadium/ radium/
gold/ silver/ molybdenum/ sediments/ Colorado
Plateau/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/
- High, T. D., 1970
uranium/ vanadium/ mines/ sandstone/ reports/
Dolores County/ Gunnison County/ Little Indian
property/ Mesa County/ Montrose County/ San
Miguel County/ igneous-metamorphic/ Colorado
Plateau/
- High, T. D., 1971
uranium/ vanadium/ mines/ sandstone/ Dolores
County/ Montrose County/ Saguache County/ Pitch
mine/ igneous-metamorphic/ San Miguel County/
Colorado Plateau/ Mesa County/
- High, T. D., 1972
uranium/ vanadium/ mines/ reports/ sandstone/
Montrose County/ San Miguel County/ Mesa County/
Saguache County/ igneous-metamorphic/ Pitch
mine/ Colorado Plateau/ Dolores County/
- High, T. D., 1973
Dolores County/ uranium/ vanadium/ sandstone/

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- mines/ reports/ Mesa County/ Montrose County/
San Miguel County/ Colorado Plateau/
- High, T. D., 1974
uranium/ vanadium/ Dolores County/ Mesa County/
reports/ Montrose County/ San Miguel County/
sandstone/ mines/ Colorado Plateau/
- High, T. D., 1975
uranium/ vanadium/ mapping/ geological studies/
drilling/ Dolores County/ Mesa County/ sandstone/
Colorado Plateau/ Montrose County/ San Miguel
County/ Rico-Argentine district/
- Hillebrand, W. F., and Ransome, F. L., 1900
carnotite/ vanadium/ minerals/ sandstone/ ore
deposits/ Colorado Plateau/ Montrose County/
San Miguel County/ analyses/
- Hillebrand, W. F., and Ransome, F. L., 1905
San Miguel County/ Montrose County/ Mesa County/
carnotite/ mineralogy/ vanadium/ sandstone/
Placerville district/ analyses/ Roc Creek area/
La Sal Creek area/ ore deposits/ Colorado Plateau/
- Hillebrand, W. F., Merwin, H. E., and Wright, F.
E., 1914
San Miguel County/ Montrose County/ Mesa County/
carnotite/ mineralogy/ vanadium/ sandstone/
Placerville district/ analyses/ Roc Creek area/
La Sal Creek area/ ore deposits/ hewettite/
metahewettite/ pascolite/ Colorado Plateau/ hydrous
calcium vanadates/
- Hillebrand, W. F., Merwin, H. E., and Wright, F.
E., 1915
Paradox Valley/ Colorado Plateau/ minerals/
sandstone/ San Miguel County/ hydrous calcium
vanadates/ hewettite/ metahewettite/ pascolite/
vanadium/
- Hillebrand, W. F., Wright, F. E., and Merwin, H.
E., 1913
calcium vanadates/ vanadium/ Peru/ Colorado/
Utah/ Montrose County/ San Miguel County/ sandstone/
Colorado Plateau/ minerals/ Mesa County/
- Hilpert, L. S., 1949
San Miguel County/ exploration/ drilling/ reserves/
Ellison claims/ Upper group claims and mines/
sandstone/ ore deposits/ Colorado Plateau/ Burro
claims/ uranium/ vanadium/ Morrison Formation/
Slick Rock district/ Salt Wash Member/
- Hilpert, L. S., 1952
Colorado Plateau/ exploration/ Spud Patch area/
sandstone/ Morrison Formation/ Salt Wash Member/
ore deposit/ reserves/ drilling/ uranium/ vanadium/
San Miguel County/
- Hilpert, L. S., 1953
Colorado Plateau/ sandstone/ exploration/ Mesa
County/ Montrose County/ San Miguel County/
Dolores County/ ore deposits/ drilling/ Morrison
Formation/ Uravan district/ Yellow Cat mine/
Monogram Mesa/ Gateway district/
- Hilpert, L. S., and Boardman, R. L., 1953
Colorado Plateau/ sandstone/ Colorado/ Utah/
Mesa County/ San Miguel County/ Dolores County/
drilling/ exploration/ ore deposits/ Morrison
Formation/ Salt Wash Member/ Uravan district/
Gateway district/ Gypsum Valley district/ Montrose
County/
- Holmes, C. N., 1949
geology/ carnotite/ ore deposits/ Colorado Plateau/
sandstone/ San Miguel County/ Montrose County/
Mesa County/
- Holmes, W. H., 1878
Dolores County/ San Miguel County/ La Plata
County/ San Miguel Mountains/ geology/ Colorado
Plateau/ Igneous-metamorphic/ sandstone/ Sierra
AbaJo Mountains/
- Huff, L. C., 1954
Sage Plain area/ Utah/ Colorado/ Colorado Plateau/
mapping/ uranium/ vanadium/ Morrison Formation/
Salt Wash Member/ sandstone/ Dolores County/
San Miguel County/ ore deposits/
- Huff, L. C., 1955
Colorado/ Utah/ ore deposits/ Colorado Plateau/
Dolores County/ San Miguel County/ stratigraphy/
Salt Wash Member/ sandstone/ uranium/ vanadium/
Sage Plain area/ Morrison Formation/
- Huff, L. C., and Lesure, F. G., 1956
Sage Plain area/ Utah/ Colorado/ Colorado Plateau/
uranium/ vanadium/ Dolores County/ San Miguel
County/ Morrison Formation/ sandstone/ Salt
Wash Member/ geochemistry/ Middle Montezuma
group/ Coyote No. 1 mine/ Verdure mine/ Strawberry
mine/ Rainbow mine/ ore deposits/ geophysical
logs/ Lucky Boy mine/
- Huff, L. C., and Lesure, F. G., 1956
Colorado/ Colorado Plateau/ uranium/ vanadium/
Dolores County/ San Miguel County/ Morrison
Formation/ sandstone/ mines/ Salt Wash Member/
peat/ Sage Plain area/ Utah/ ore deposits/
- Huff, L. C., and Lesure, F. G., 1957
Colorado/ Utah/ Colorado Plateau/ uranium/ vanadium/
Dolores County/ San Miguel County/ Salt Wash
Member/ sandstone/ stratigraphy/ mapping/ structure/
ore deposits/ geochemistry/ mines/ Sage Plain
area/ Morrison Formation/
- Huleatt, W. P., Hazen, S. W., Jr., and Traver,
W. M., Jr., 1946
exploration/ vanadium/ Colorado/ Utah/ Colorado
Plateau/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/ Dolores County/
- Hunt, C. B., 1956
Cenozoic/ geology/ Colorado Plateau/ physiography/
stratigraphy/ Moffat County/ sandstone/ Delta
County/ Rio Blanco County/ Garfield County/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/

- Hurley, D. B., and Crew, M. E., 1953
drilling/ Colorado Plateau/ sandstone/ San Miguel County/ drilling trends/ ore deposits/ reserves/ Montrose County/ Mesa County/
- Isachsen, Y. W., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/ Holiday Mesa/ Happy Jack mine/ Calyx mines/ Delta mine/ Cameron district/ copper/ vanadium/ sandstone/ geology/ ore deposits/ Montrose County/ San Miguel County/ Dolores County/ Big Indian Wash-Lisbon Valley district/ Mesa County/ stratigraphy/ structure/
- Isachsen, Y. W., and Evensen, C. G., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/ Holiday Mesa/ Happy Jack mine/ Calyx mines/ Delta mine/ Cameron district/ copper/ vanadium/ Big Indian Wash-Lisbon Valley district/ sandstone/ geology/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ stratigraphy/ structure/
- Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1954
uranium/ ore deposits/ exploration/ drilling/ Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/
- Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1955
Colorado Plateau/ ore deposits/ absolute age/ host rocks/ sandstone/ formational environments/ Entrada Sandstone/ Kayenta Formation/ Garfield County/ Moffat County/ Rio Blanco County/ San Miguel County/ Mesa County/ Montrose County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Ives, R. L., 1936
sandstone/ radium/ mining/ ore deposits/ San Miguel County/ Colorado Plateau/ history/ Utah/ carnotite/ Montrose County/ Dolores County/ Mesa County/ Montezuma County/ uranium/ McElmo Formation/
- Jensen, M. L., 1957
Colorado Plateau/ ore deposits/ mineralization/ sulfides/ uranium/ sandstone/ sulfur isotopes/ sulfur ratios/ genesis/ San Miguel County/ Montrose County/ Mesa County/
- Jensen, M. L., 1958
Colorado Plateau/ Wyoming/ ore deposits/ genesis/ geochemistry/ sulfur isotopes/ sandstone/ uranium/ Montrose County/ San Miguel County/ Garfield County/ Morrison Formation/ Entrada Sandstone/
- Jensen, M. L., 1971
carbon/ oxygen/ sulfur/ isotopes/ genesis/ sandstone/ uranium/ ore deposits/ Colorado Plateau/ Wyoming/ San Miguel County/ Montrose County/ Garfield County/ Mesa County/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ uranium/ sediments/ sandstone/ ground water/
- La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ regional transmissivity/ Delta County/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Montrose County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/
- Jobin, D. A., 1962
Colorado Plateau/ ore deposits/ Morrison Formation/ transmissivity/ sandstone/ San Miguel County/ ground water/ conglomerate/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Joesting, H. R., and Byerly, P. E., 1953
Gateway district/ Sleeping Ute Mountain/ Uravan district/ geophysics/ Colorado Plateau/ San Miguel County/ Montrose County/ Mesa County/ Montezuma County/ Dolores County/ sandstone/ Slick Rock district/ vanadium/ uranium/ Egnar district/ ore deposits/
- Joesting, H. R., and Byerly, P. E., 1956
Disappointment Valley/ Gypsum Valley/ Nucla district/ Paradox district/ Uncompahgre Plateau/ Mesa County/ San Miguel County/ Uravan district/ ore deposits/ salt anticlines/ Disappointment syncline/ geophysics/ sandstone/ Colorado Plateau/ geology/ Dolores County/ Montrose County/
- Joesting, H. R., and Byerly, P. E., 1956
aeromagnetism/ gravity profiles/ sandstone/ Colorado Plateau/ Colorado/ Utah/ Mesa County/ Montrose County/ Dolores County/ Uravan district/ geology/ ore deposits/ geophysics/ San Miguel County/
- Joesting, H. R., and Byerly, P. E., 1958
Disappointment Valley/ Disappointment syncline/ Nucla district/ Paradox district/ Uncompahgre Plateau/ Mesa County/ Montrose County/ San Miguel County/ geophysics/ salt anticlines/ map/ ore deposits/ sandstone/ Gypsum Valley district/ Uravan district/ geology/ Dolores County/ Colorado Plateau/
- Joesting, H. R., and Case, J. E., 1960
salt anticlines/ structures/ Paradox basin/ Colorado/ Utah/ ore deposits/ sandstone/ Hermosa Formation/ Paradox Member/ Montrose County/ Mesa County/ San Miguel County/ structural geology/ Colorado Plateau/
- Joesting, H. R., Case, J. E., and Plouff, D. F., 1966
Moab area/ Needles area/ Utah/ sandstone/ Mesa County/ Montrose County/ geophysics/ stratigraphy/ geology/ magnetic survey/ gravity survey/ structural geology/ San Miguel County/ Dolores County/ Colorado Plateau/

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Kahn, J. S., Groff, D. W., and Griffiths, J. C., 1953
 lithology/ cores/ Colorado Plateau/ Morrison
 Formation/ petrography/ Salt Wash Member/ sediments/
 sandstone/ structure/ Mesa County/ Montrose
 County/ San Miguel County/ shale/ siltstone/
 Bull Canyon district/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and
 others, 1952

Front Range/ pitchblende/ sandstone/ igneous-metamorphic/
 coal/ shale/ Archuleta County/ Routt County/
 Eagle County/ Pitkin County/ Gunnison County/
 San Juan County/ Fremont County/ Huerfano County/
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 Dolores County/ Montezuma County/ La Plata County/
 Larimer County/ Boulder County/ Jefferson County/
 Park County/ Rio Blanco County/

Kaiser, E. P., King, R. U., Wilmarth, V. R., and
 others, 1952

Front Range/ Jamestown district/ pitchblende/
 bostonite/ Colorado Plateau/ sandstone/ igneous-metamorphic/
 coal/ shale/ Moffat County/ Garfield County/
 La Plata County/ Pitkin County/ Gunnison County/
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 Blanco County/ Mesa County/ Montrose County/
 San Miguel County/ Dolores County/ Montezuma
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 County/ Ouray County/ Larimer County/ Eagle
 County/

Keller, G. V., 1953

Colorado Plateau/ electric well logs/ Morrison
 Formation/ Spud Patch area/ Montrose County/
 San Miguel County/ geophysics/ petrophysical
 studies/ sandstone/

Keller, G. V., 1957

sandstone/ Morrison Formation/ electrical properties/
 logging/ geophysics/ Colorado Plateau/ Spud
 Patch area/ uranium/ vanadium/ ore deposits/
 San Miguel County/ Montrose County/ Gramlich
 claims/ La Sal Creek area/ Utah/ Uravan district/
 Long Park district/

Keller, G. V., 1958

resistivity/ geophysics/ exploration/ ore deposits/
 Spud Patch area/ San Miguel County/ sandstone/
 Morrison Formation/ uranium/ vanadium/ Utah/
 White Canyon district/ Colorado Plateau/

Keller, G. V., 1959

electrical properties/ sandstone/ Morrison Formation/
 geophysics/ resistivity/ porosity/ Dolores County/
 Mesa County/ Montrose County/ San Miguel County/
 Uravan district/ exploration/ Colorado Plateau/

Keller, G. V., 1959

Colorado/ Utah/ ore deposits/ exploration/ resistivity/
 Colorado Plateau/ Spud Patch area/ San Miguel
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Keller, G. V., and Licastro, P. H., 1959

dielectric constant/ electrical resistivity/
 sandstone/ Mesa County/ Montrose County/ San

Miguel County/ Miguel County/ Dolores County/
 cores/ Colorado Plateau/ Morrison Formation/

Keller, W. D., 1953

Colorado Plateau/ ore deposits/ mudstone/ clay
 mineralogy/ uranium/ vanadium/ Morrison Formation/
 San Miguel County/ Chinle Formation/ Montrose
 County/ Mesa County/ Dolores County/ sandstone/
 clay minerals/

Keller, W. D., 1955

Colorado Plateau/ clay minerals/ mudstone/ Long
 Park area/ Slick Rock district/ Uravan district/
 Club mines/ mudstone/ ore deposits/ Utah/ uranium/
 vanadium/ mineralogy/ Dolores County/ San Miguel
 County/ Montrose County/ sandstone/

Keller, W. D., 1962

clay minerals/ Morrison Formation/ Colorado
 Plateau/ Salt Wash Member/ mineralogy/ Mesa
 County/ Moffat County/ Rio Blanco County/ Garfield
 County/ Delta County/ Montrose County/ San Miguel
 County/ Dolores County/ Montezuma County/ La
 Plata County/ Archuleta County/ sandstone/

Kelley, V. C., 1955

sandstone/ Colorado Plateau/ ore deposits/ genesis/
 tectonics/ structural elements/ Archuleta County/
 Mesa County/ Montrose County/ San Miguel County/
 Dolores County/ Montezuma County/ La Plata County/
 Delta County/ Ouray County/ Gunnison County/
 Garfield County/ Rio Blanco County/ Moffat County/

Kelley, V. C., 1955

sandstone/ Colorado Plateau/ ore deposits/ genesis/
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 San Miguel County/ Dolores County/ Montezuma
 County/ La Plata County/ Delta County/ Garfield
 County/ Rio Blanco County/ Moffat County/ Archuleta
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 County/

Kelley, V. C., 1956

Colorado Plateau/ ore deposits/ genesis/ Delta
 County/ uranium/ tectonic history/ regional
 structure/ Colorado/ sandstone/ Montezuma County/
 San Miguel County/ Dolores County/ Montrose
 County/ Mesa County/ Ouray County/ San Juan
 County/ Gunnison County/ La Plata County/ Garfield
 County/ Rio Blanco County/ Delta County/ structural
 controls/

Kelley, V. C., 1956

Colorado Plateau/ ore deposits/ genesis/ Mesa
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 history/ Colorado/ sandstone/ Montezuma County/
 San Miguel County/ Dolores County/ Montrose
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 County/ Rio Blanco County/ Delta County/ regional
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Kelley, V. C., 1959

structures/ fracture systems/ Colorado Plateau/
 faults/ fractures/ Mesa County/ Montrose County/
 San Miguel County/ sandstone/ Montezuma County/
 Moffat County/ San Juan County/ Ouray County/

Delta County/ Gunnison County/ Garfield County/
La Plata County/ Rio Blanco County/

Kelley, V. C., 1959

Jointing/ Colorado Plateau/ sandstone/ structures/
Montezuma County/ Dolores County/ Montrose County/
Mesa County/ Delta County/ Garfield County/
Rio Blanco County/ Moffat County/ San Miguel
County/

Kelley, V. C., and Clinton, N. J., 1960

Colorado Plateau/ sandstone/ fractures/ tectonics/
genesis/ structures/ Montezuma County/ Dolores
County/ Montrose County/ Mesa County/ Delta
County/ Garfield County/ Rio Blanco County/
Moffat County/ San Miguel County/

Kellogg, J. P., 1952

Colorado Plateau/ ore deposits/ exploration/
drilling/ Utah/ Colorado/ Arizona/ New Mexico/
uranium/ Morrison Formation/ Entrada Sandstone/
sandstone/ Mesa County/ Montrose County/ San
Miguel County/ Dolores County/ Montezuma County/
Salt Wash Member/ Tenderfoot Mesa/

Kellogg, J. P., 1954

drilling/ statistics/ Colorado Plateau/ Mesa
County/ San Miguel County/ Montezuma County/
Dolores County/ sandstone/ exploration/

Kerry, P. F., 1958

uranium/ ore deposits/ genesis/ alteration/
mineralogy/ Colorado Plateau/ Archuleta County/
conglomerate/ sandstone/ Moffat County/ Rio
Blanco County/ Garfield County/ Mesa County/
Delta County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/

Kerr, P. F., 1958

Colorado Plateau/ ore deposits/ genesis/ sandstone/
stratigraphy/ uranium/ Moffat County/ Rio Blanco
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Montezuma County/ La Plata County/ Archuleta
County/ hydrothermal emplacement/ Dolores County/

Kerr, P. F., Razor, C. A., and Hamilton, Peggy-Kay,
1951

Black King prospect/ ore deposits/ San Miguel
County/ veins/ bituminous substances/ sandstone/
Entrada Sandstone/ genesis/ mineralogy/ Colorado
Plateau/ Placerville district/

King, R. U., Leonard, B. F., Moore, F. B., and
others, 1952

Front Range/ Boulder County/ Clear Creek County/
Garfield County/ Gilpin County/ Jefferson County/
Larimer County/ Moffat County/ Pitkin County/
pitchblende/ hydrocarbons/ Kiowa County/ Rio
Blanco County/ Routt County/ hot spring deposits/
limestone/ pegmatites/ sandstone/ veins/ breccia
pipes/ igneous-metamorphic/ Park County/ Lake
County/ geology/ mineralogy/ San Miguel County/
ore deposits/ metal-mining districts/ Huerfano
County/ Eagle County/

King, R. U., Leonard, B. F., Moore, F. B., and
others, 1953

Front Range/ Boulder County/ Clear Creek County/
Garfield County/ Gilpin County/ Jefferson County/
Larimer County/ Moffat County/ Pitkin County/
pitchblende/ hydrocarbons/ hot spring deposits/
limestone/ sandstone/ veins/ breccia pipes/
igneous-metamorphic/ Park County/ Lake County/
geology/ mineralogy/ San Miguel County/ ore
deposits/ metal-mining districts/ Kiowa County/
Rio Blanco County/ Routt County/ Huerfano County/
Eagle County/

King, R. U., Moore, F. B., and Hinrichs, E. N., 1952

veins/ Colorado/ uranium/ Central City district/
Front Range/ San Miguel County/ pitchblende/
ore deposits/ Larimer County/ Jefferson County/
Gilpin County/ Ralston Creek district/ igneous-metamorphic/
Jamestown district/ Caribou district/ Lawson
district/ Clear Creek County/

Kirkemo, Harold, 1954

Colorado Plateau/ sandstone/ exploration/ drilling/
Mesa County/ Montrose County/ San Miguel County/
Uravan district/ ore deposits/ Morrison Formation/
Colorado/ Utah/ Arizona/ Long Park district/
Dolores County/ Yellow Cat mine/ Slick Rock
district/

Kirkemo, Harold, 1954

ore deposits/ Morrison Formation/ Salt Wash
Member/ Colorado Plateau/ exploration/ sandstone/
Monogram Mesa/ Uravan district/ Jo Dandy area/
Mesa County/ Montrose County/ San Miguel County/
Garfield County/ Entrada Sandstone/ Moffat County/
Browns Park Formation/ Slick Rock district/
Long Park district/

Kirkpatrick, R. K., 1944

Utah/ Colorado/ ore deposits/ vanadium ores/
exploration/ mineralization/ lithology/ sampling/
analyses/ uranium/ geochemistry/Monticello district/
Dry Valley district/ Green River Desert area/
Colorado Plateau/ sandstone/ San Miguel County/

Kirkpatrick, R. K., 1945

stratigraphy/ mineralization/ exploration/ lithology/
Slick Rock district/ Dolores Plateau area/ Colorado
Plateau/ San Miguel County/ sandstone/ mine
maps/ ore deposits/ Veta Mad claim/ Georgetown
group/ Mercantile group/ Radium group/ Lower
group/ Upper group/ Goldenrod group/ Charles
T. group/ Middle group/

Kirkpatrick, R. K., 1946

geology/ stratigraphy/ vanadium/ geologic deposits/
reserves/ uranium/ exploration/ mineralization/
Gypsum Valley district/ Colorado Plateau/ San
Miguel County/ sandstone/ Dolores Plateau area/

Kithil, K. L., and Davis, J. A., 1917

ore deposits/ carnotite/ resources/ Colorado
Plateau/ production/ mining/ sandstone/ radium/
Montrose County/ San Miguel County/ Long Park
district/

Klaer, P., and Matthee, H., 1965

Colorado/ Utah/ Big Indian district/ mining/
geology/ technology/ ore deposits/ Colorado
Plateau/ sandstone/ San Miguel County/

- Kober, C. L., and Procter-Gregg, H. D., 1977
uranium/ alteration zones/ LANDSAT MSS imagery/
Jefferson County/ Boulder County/ Mesa County/
Montrose County/ San Miguel County/ Colorado
Plateau/ Douglas County/ sandstone/ Igneous-metamorphic/
Front Range/
- Koerberlin, F. R., 1938
copper/ vanadium/ uranium/ silver/ Colorado/
Utah/ genesis/ ore deposits/ discussion/ Montrose
County/ Colorado Plateau/ Mesa County/ Montezuma
County/ San Miguel County/ Dolores County/ sandstone/
- Langan, L. V., and Ash, H. O., 1955
Colorado Plateau/ ore deposits/ uranium/ field
trip/ New Mexico/ Utah/ Colorado/ stratigraphy/
Morrison Formation/ sandstone/ Entrada Sandstone/
Dolores County/ Montezuma County/ Montrose County/
San Miguel County/
- Langford, F. F., 1974
uranium/ Australia/ supergene/ genesis/ Front
Range/ veins/ calcrete/ carnotite/ ore deposits/
Igneous-metamorphic/ sandstone/ Colorado Plateau/
Jefferson County/ Montrose County/ San Miguel
County/
- Langford, F. F., 1977
genesis/ surficial origin/ pitchblende/ ore
deposits/ uranium/ Igneous-metamorphic/ surface
waters/ sandstone/ Colorado Plateau/ Front Range/
Jefferson County/ Montrose County/ San Miguel
County/
- Larsen, E. S., and Cross, C. W., 1956
geology/ petrology/ San Juan region/ Colorado
Plateau/ Igneous-metamorphic/ Montrose County/
Ouray County/ San Miguel County/ Dolores County/
La Plata County/ Gunnison County/ Hinsdale County/
Archuleta County/ Mineral County/ Saguache County/
Conejos County/ Alamosa County/ San Juan County/
Montezuma County/ Rio Grande County/
- Leaming, G. F., 1971
economic development/ Arizona/ economic analysis/
New Mexico/ Utah/ Colorado/ economic conditions/
minerals/ mining/ fuels/ Industries/ Iron/ uranium/
silver/ copper/ titanium/ coal/ natural gas/
oil shale/ sandstone/ ore deposits/ Colorado
Plateau/ Montezuma County/ Dolores County/ San
Miguel County/ Montrose County/
- Lindberg, M., Weeks, A. D., Thompson, M. E., and
others, 1962
hendersonite/ vanadium/ Colorado Plateau/ vanadates/
Paradox Valley/ Montrose County/ Morrison Formation/
sandstone/ San Miguel County/ Dolores County/
Montezuma County/ crystallography/ geochemistry/
- Lindgren, Waldemar, 1933
copper/ lead/ vanadium/ uranium/ sandstone/
shale/ carnotite/ roscoelite/ Colorado Plateau/
Dolores County/ San Miguel County/ Mesa County/
Montrose County/ Entrada Sandstone/ La Plata
Sandstone/ McElmo Formation/ genesis/ Gilpin
County/ Igneous-metamorphic/ ore deposits/ Front
Range/
- Madsen, J. W., 1954
Paradox Member/ Hermosa Formation/ Colorado
Plateau/ reserves/ exploration/ drilling/ sandstone/
limestone/ ore deposits/ uranium/ vanadium/
Pitchfork group of claims/ Gypsum Valley district/
San Miguel County/
- Maise, C. R., 1953
Colorado Plateau/ ore deposits/ genesis/ ground
water/ mineralization/ sandstone/ Jurassic/
syncline/ aquifers/ experimental simulation/
Morrison Formation/ Salt Wash Member/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/
- Malan, R. C., 1968
Colorado/ ore deposits/ genesis/ La Plata County/
San Juan County/ New Mexico/ metallogenesis/
San Miguel County/ structures/ Colorado Plateau/
San Juan-San Miguel-La Plata region/ veins/
Igneous-metamorphic/
- Mastrovich, A. M., 1945
vanadium/ uranium/ lithology/ stratigraphy/
geology/ exploration/ sandstone/ carbonaceous
materials/ mineralization/ ore deposits/ San
Miguel River district/ San Miguel Plateau area/
Colorado Plateau/ San Miguel County/ Montrose
County/ Entrada Sandstone/
- Maxwell, J. C., 1977
San Juan Mountains/ geology/ Archuleta County/
hydrogeochemistry/ stream sediments/ stream
waters/ ground waters/ Storm King Mountain/
Vallecito Creek/ Montrose County/ Gunnison County/
San Miguel County/ Dolores County/ Montezuma
County/ La Plata County/ San Juan County/ Ouray
County/ Hinsdale County/ Mineral County/
- McKelvey, V. E., 1953
Colorado Plateau/ Dolores County/ Mesa County/
exploration/ veins/ sandstone/ igneous-metamorphic/
pegmatites/ geobotany/ Front Range/ Gilpin County/
Clear Creek County/ coal/ Montrose County/ San
Miguel County/ ore deposits/ phosphates/ shale/
placers/
- McKelvey, V. E., 1953
veins/ Dolores County/ Mesa County/ exploration/
sandstone/ igneous-metamorphic/ Front Range/
pegmatites/ geobotany/ Gilpin County/ Clear
Creek County/ coal/ Montrose County/ San Miguel
County/ ore deposits/ Colorado Plateau/ phosphates/
shale/ placers/
- McKelvey, V. E., 1954
Dolores County/ Mesa County/ exploration/ carnotite/
veins/ sandstone/ igneous-metamorphic/ pegmatites/
geobotany/ Front Range/ Gilpin County/ Clear
Creek County/ coal/ Montrose County/ San Miguel
County/ ore deposits/ veins/ Colorado Plateau/
phosphates/ shale/ placers/
- McKelvey, V. E., 1955
ore deposits/ exploration/ veins/ bituminous
substances/ coal/ sandstone/ phosphates/ United
States/ Dolores County/ Mesa County/ Gilpin
County/ igneous-metamorphic/ Clear Creek County/

- Montrose County/ San Miguel County/ Front Range/ Colorado Plateau/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1955
genesis/ uranium/ ore deposits/ veins/ igneous-metamorphic/ bituminous substances/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ Montrose County/ San Miguel County/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1955
veins/ bituminous substances/ genesis/ uranium/ ore deposits/ igneous-metamorphic/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ San Miguel County/ Montrose County/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ ore deposits/ migmatites/ sandstone/ shale/ igneous-metamorphic/ Colorado/ Colorado Plateau/ San Juan County/ San Miguel County/ Jefferson County/ Montrose County/ Old Leyden mine/ coal/ Gilpin County/ Clear County/ uranium/ Front Range/ genesis/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ Colorado/ genesis/ uranium/ ore deposits/ pegmatites/ migmatites/ San Miguel County/ sandstone/ coal/ shale/ phosphorites/ igneous-metamorphic/ Front Range/ Colorado Plateau/ San Juan County/ replacement/ Jefferson County/ Montrose County/ Old Leyden mine/ Mesa County/ Gilpin County/ Clear Creek County/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/
- Mellin, R. E., 1955
bibliography/ annotated/ geology/ sandstone/ uranium/ ore deposits/ United States/ Colorado Plateau/ Morrison Formation/ Shinarump Member/ Chinle Formation/ Colorado/ Utah/ Montrose County/ Mesa County/ San Miguel County/ Missouri/ New Mexico/ Wyoming/
- Mellin, R. E., 1957
bibliography/ annotated/ sandstone/ uranium/ United States/ ore deposits/ Colorado Plateau/ geology/ Morrison Formation/ Colorado/ Utah/ Missouri/ New Mexico/ Wyoming/ Montrose County/ Mesa County/ San Miguel County/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Front Range/ exploration/ Morrison Formation/ phosphates/ shale/ sandstone/ igneous-metamorphic/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ Dolores County/ Gilpin County/ Clear Creek County/ Garfield County/ Boulder County/
- Merritt, P. L., 1950
uranium/ exploration/ Colorado Plateau/ sandstone/ Morrison Formation/ Entrada Sandstone/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Caribou district/ igneous-metamorphic/ Montrose County/ Clear Creek County/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Clear Creek County/ Caribou district/ igneous-metamorphic/
- Metal Mining Fund Board, 1961
vanadium/ mineralogy/ geochemistry/ Colorado Plateau/ sandstone/ uranium/ Rifle Creek district/ roscoelite/ San Miguel County/ Montrose County/ Mesa County/ Garfield County/ Placerville district/
- Miesch, A. T., 1954
statistics/ uranium/ vanadium/ ore deposits/ exploration/ ore guides/ Morrison Formation/ Legn mines/ sandstone/ Colorado Plateau/ San Miguel County/
- Miesch, A. T., 1957
Colorado Plateau/ ore deposits/ exploration/ Jurassic/ chemical composition/ size determination/ sandstone/ Morrison Formation/ zirconium/ uranium/ yttrium/ nickel/ analyses/ statistics/ ore guides/ San Miguel County/
- Miesch, A. T., 1958
Colorado Plateau/ ore deposits/ exploration/ chemical composition/ size determination/ Jurassic/ sandstone/ ore guides/ uranium/ statistics/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ Morrison Formation/
- Miesch, A. T., 1958
Colorado Plateau/ ore deposits/ exploration/ size determination/ sandstone/ Jurassic/ Morrison Formation/ ore guides/ uranium/ statistics/ San Miguel County/ Montrose County/ Mesa County/ chemical composition/ Dolores County/
- Miesch, A. T., 1961
Colorado Plateau/ ore deposits/ sandstone/ chemical composition/ genesis/ mineralization/ Morrison Formation/ uranium/ Legn area/ San Miguel County/ Salt Wash Member/
- Miesch, A. T., 1962
San Miguel County/ Frenchy Incline/ ore deposits/ geochemistry/ trace-element analyses/ genesis/ sandstone/ Morrison Formation/ Colorado Plateau/
- Miesch, A. T., 1963
Colorado Plateau/ ore deposits/ elements/ geology/

- Morrison Formation/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/ Dolores County/
- Miesch, A. T., and Shoemaker, E. M., 1957
uranium/ Colorado Plateau/ elements/ sandstone/ San Miguel County/ Montrose County/
- Miesch, A. T., Shoemaker, E. M., and Newman, W. L., 1958
elements/ Colorado Plateau/ sandstone/ Chinle Formation/ analyses/ uranium/ vanadium/ Morrison Formation/ Uravan district/ statistics/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/
- Miesch, A. T., Shoemaker, E. M., Newman, W. L., and others, 1959
chemical composition/ ore guides/ ore deposits/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ sandstone/ analyses/ statistics/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ geology/
- Miesch, A. T., Shoemaker, E. M., Newman, W. L., and others, 1960
Colorado Plateau/ ore deposits/ sandstone/ ore guides/ deposit size/ Jurassic/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ uranium/ chemical composition/ Morrison Formation/
- Milkey, R. G., 1952
Colorado Plateau/ age determination/ analyses/ methods/ carnotite/ age studies/ mineralogy studies/ sandstone/ San Miguel County/ Montrose County/
- Miller, D. S., 1960
Colorado Plateau/ ore deposits/ genesis/ research/ data/ isotopes/ lead/ sulfur/ uranium/ age dating/ Colorado/ sandstone/ limestone/ volcanics/ igneous-metamorphic/ San Miguel County/
- Miller, D. S., 1960
Colorado Plateau/ ore deposits/ genesis/ isotopes/ absolute age/ Colorado/ sandstone/ limestone/ San Miguel County/ uranium/ lead/ sulfur/
- Minerals Map Company, 1956
Colorado Plateau/ ore deposits/ maps/ sandstone/ Montrose County/ Dolores County/ Mesa County/ Delta County/ Garfield County/ Moffat County/ San Miguel County/
- Mobley, C. M., 1953
Pay Day group/ drilling/ exploration/ reserves/ Gypsum Valley district/ San Miguel County/ sandstone/ Morrison Formation/ Salt Wash Member/ ore deposits/ uranium/ vanadium/ Colorado Plateau/
- Moore, R. B., 1913
ore deposits/ carnotite/ Colorado/ Utah/ mining/ uranium/ radium/ vanadium/ North Carolina/ marketing/ San Miguel County/ Montrose County/ Mesa County/
- Gilpin County/ pitchblende/ Huerfano County/ Colorado Plateau/ Front Range/ sandstone/
- Morehouse, G. E., 1951
Placerville district/ ore deposits/ thucholite/ veins/ bituminous substances/ uraninite/ White Spar prospect/ faults/ sandstone/ Morrison Formation/ Colorado Plateau/ San Miguel County/ Black King prospect/ Dolores Formation/
- Motica, J. E., 1968
Uravan district/ genesis/ solutions/ Morrison Formation/ precipitation/ sandstone/ lenses/ Jurassic/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ geology/ uranium/ vanadium/ ore deposits/ Colorado Plateau/
- Mullens, T. E., and Freeman, V. L., 1952
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Colorado/ uranium/ vanadium/ Mesa County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Utah/ Arizona/ New Mexico/ San Miguel County/ Morrison Formation/
- Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/
- Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/
- Nash, A. L., 1953
Utah/ Colorado/ Montrose County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ Chinle Formation/ Mossback Member/ Cutler Formation/ San Miguel County/ Skeln Mesa/ reconnaissance/ sandstone/ siltstone/ shale/ stratigraphy/ geology/ airborne surveying/
- Nash, A. L., 1953
airborne surveying/ San Miguel County/ Utah/ Colorado/ geology/ Salt Wash Member/ stratigraphy/ Montrose County/ ore deposits/ Empire group/ Colorado Plateau/ sandstone/ conglomerate/ Morrison Formation/ Shinarump Member/ Cutler Formation/ Lisbon Valley district/ Indian Creek area/ Skeln Mesa/
- Nash, J. T., 1975
fluid inclusions/ veins/ breccia pipes/ replacement ores/ ore deposits/ San Juan Mountains/ igneous-metamorphic/ San Miguel County/ Ouray County/

- Newman, W. L., 1953
Colorado Plateau/ element distribution/ sedimentary rocks/ igneous-metamorphic/ Legln group area/ San Miguel County/ sandstone/ uranium/ vanadium/ oxides/ Ute Mountains/
- Newman, W. L., 1957
Colorado Plateau/ element distribution/ sedimentary rocks/ igneous-metamorphic/ sandstone/ uranium/ vanadium/ Morrison Formation/ Chinle Formation/ Uravan district/ San Miguel County/ Jo Dandy area/ Montrose County/ mudstone/
- Newman, W. L., 1959
Colorado Plateau/ ore deposits/ sandstone/ resources/ indicators/ ore guides/ chemical composition/ exploration/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/
- Newman, W. L., 1962
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ sandstone/ mudstone/ limestone/ Uravan district/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/
- Newman, W. L., Shoemaker, E. M., and Miesch, A. T., 1959
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ Morrison Formation/ Salt Wash Member/ sandstone/ Uravan district/ San Miguel County/
- Nininger, R. D., and Wentzel, Volkmar, 1954
exploration/ ore deposits/ Colorado Plateau/ Uravan district/ Dolores County/ San Miguel County/ Montrose County/ sandstone/
- Noble, E. A., 1959
Colorado Plateau/ uranium belts/ genesis/ ore deposits/ Uravan district/ Lisbon Valley district/ San Juan basin/ Colorado/ New Mexico/ Utah/ Mesa County/ San Miguel County/ Montrose County/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ Montezuma County/
- Noble, E. A., 1960
Colorado Plateau/ ore deposits/ uranium belts/ genesis/ Uravan district/ Lisbon Valley district/ San Juan basin/ Colorado/ New Mexico/ Utah/ Mesa County/ San Miguel County/ Montrose County/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ Chinle Formation/ Montezuma County/
- Notestein, F. B., 1918
ore deposits/ geochemistry/ genesis/ experimental studies/ uranium/ vanadium/ Colorado Plateau/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/
- Olson, J. C., Butler, A. P., Jr., Finch, W. I., and Fischer, R. P., 1973
resources/ uranium/ thorium/ production/ exploration/ veins/ sandstone/ San Miguel County/ Colorado Plateau/ Gunnison County/ Saguache County/
- Outerbridge, W. F., 1957
Slick Rock area/ San Miguel County/ minerals/ fluid inclusions/ thermometry/ mineralogy/ Colorado Plateau/ sandstone/
- Page, L. R., Stocking, H. E., and Smith, H. B., compilers, 1956
Colorado Plateau/ Front Range/ Gunnison County/ limestone/ Montrose County/ Jefferson County/ arkosa/ sandstone/ shale/ geology/ uranium/ thorium/ exploration/ igneous-metamorphic/ San Miguel County/ geochemistry/ mineralogy/ conglomerate/
- Palst, D. A., 1970
vanadium/ alloys/ compounds/ San Miguel County/ metallurgy/ history/ ore deposits/ geology/ sandstone/ Colorado Plateau/ Montrose County/ Mesa County/ Garfield County/ Uravan district/ Placerville district/ Rifle district/ carnotite/ roscoelite/
- Phillips, A. H., 1904
radium/ carnotite/ Montrose County/ San Miguel County/ Mesa County/ Colorado/ Utah/ uranium/ vanadium/ chemistry/ concentration/ sandstone/ Colorado Plateau/
- Phoenix, D. A., 1951
ground water/ Colorado Plateau/ analyses/ Colorado/ Utah/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Colorado Plateau/ Morrison Formation/
- Phoenix, D. A., 1952
Atkinson Mesa/ Calamity Mesa/ Slick Rock district/ Montrose County/ San Miguel County/ ground water/ carnotite/ sandstone/ Morrison Formation/ stratigraphy/ Brushy Basin Member/ Recapture Member/ Westwater Canyon Member/ Colorado Plateau/ Mesa County/ Salt Wash Member/
- Phoenix, D. A., 1955
Mesa County/ Montrose County/ San Miguel County/ ground water/ analyses/ Utah/ uranium/ vanadium/ ore deposits/ Colorado Plateau/ Morrison Formation/ sandstone/
- Phoenix, D. A., 1958
Colorado/ Utah/ ore deposits/ sandstone/ conglomerate/ Jurassic/ Morrison Formation/ Colorado Plateau/ uranium/ Brushy Basin Member/ stratigraphy/ Mesa County/ Montrose County/ San Miguel County/
- Phoenix, D. A., 1959
Colorado Plateau/ Colorado/ Morrison Formation/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ ground water/ analyses/ chemistry/ Utah/
- Phoenix, D. A., and Franks, P. C., 1956
geothermal/ sandstone/ Colorado Plateau/ drilling/ Utah/ Arizona/ Colorado/ San Miguel County/ Disappointment Valley/ stratigraphy/ ore deposits/ mineralogy/ paleontology/ geology/
- Phoenix, David A., 1955
Mesa County/ Montrose County/ San Miguel County/ theories of origin of sandstone-type uranium

deposits/ uranium deposits/ host rock: sandstone/ Morrison Formation/ stratigraphy of Morrison Formation/ ground water studies/

Pierson, C. T., 1953

San Juan Mountains/ ore deposits/ exploration/ analyses/ Lark mine/ San Juan County/ Smuggler mine/ San Miguel County/ Igneous-metamorphic/ veins/ sandstone/ Colorado Plateau/

Pierson, C. T., Burbank, W. S., and Singewald, Q. D., 1952

Colorado mineral belt/ ore deposits/ veins/ Igneous-metamorphic/ Pitkin County/ Park County/ Ouray County/ San Juan County/ San Miguel County/ uranium/ Colorado Plateau/

Pierson, C. T., Weeks, W. F., and Kleinhampl, F. J., 1956

San Juan Mountains/ Dolores County/ La Plata County/ pitchblende/ reconnaissance/ radioactivity/ mining districts/ fractures/ andesite/ San Miguel County/ hydrocarbons/ calcareous tufa/ hot springs/ ilmonite/ alteration/ diorite/ veins/ fault breccia/ shear zone materials/ San Juan tuff/ Uncompahgre Formation/ Igneous-metamorphic/ spring deposits/ Colorado Plateau/

Pierson, C. T., Weeks, W. F., and Kleinhampl, F. J., 1958

San Juan Mountains/ reconnaissance/ mining districts/ radioactivity/ Igneous-metamorphic/ San Juan County/ Ouray County/ San Miguel County/ La Plata County/ Hinsdale County/ Mineral County/ Saguache County/

Pommer, A. M., 1956

oxidation potential/ Colorado Plateau/ uranium/ vanadium/ sandstone/ Salt Wash Member/ Morrison Formation/ Utah/ Arizona/ Colorado/ New Mexico/ Montrose County/ Mesa County/ Dolores County/ Montezuma County/ Jo Dandy area/ ore deposits/ genesis/ Woody material/ San Miguel County/

Poole, F. G., and Williams, G. A., 1956

ore guides/ exploration/ uranium/ vanadium/ sandstone/ conglomerate/ transportation direction/ Morrison Formation/ Chinle Formation/ Entrada Sandstone/ sediments/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Triassic/ Colorado Plateau/ San Miguel County/

Ransome, F. L., and Hillebrand, W. F., 1905

ore deposits/ carnotite/ accessory minerals/ sandstone/ Placerville district/ San Miguel County/ Roc Creek area/ Montrose County/ Mesa County/ uranium/ vanadium/ genesis/ analyses/ Colorado Plateau/ veins/

Reinhardt, E. V., 1952

Colorado Plateau/ Igneous-metamorphic/ sandstone/ uranium/ vanadium/ Tertiary Intrusives/ La Plata County/ San Miguel County/ ore deposits/

Reinhardt, E. V., 1952

Colorado Plateau/ ore deposits/ ore guides/ uranium/ vanadium/ copper/ hydrocarbons/ limestone/

sandstone/ Morrison Formation/ Salt Wash Member/ Entrada Sandstone/ Shinarump Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/

Reinhardt, E. V., 1963

Colorado Plateau/ Uruvan district/ structure/ ore deposits/ genesis/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/

Riley, L. B., 1954

selenium/ uranium/ Colorado Plateau/ Uruvan district/ ore deposits/ sandstone/ San Miguel County/ Montrose County/

Riley, L. B., and Shoemaker, E. M., 1952

Colorado Plateau/ ore deposits/ elements/ Mesa County/ Montrose County/ San Miguel County/ spectrographic analyses/ sandstone/

Roach, C. H., and Wallace, R. M., 1957

Montrose County/ San Miguel County/ sandstone/ Bull Canyon district/ uranium/ ore deposits/ genesis/ Colorado Plateau/

Robeck, R. C., 1960

Colorado/ Utah/ ore deposits/ geology/ maps/ structure/ oil/ gas/ sandstone/ Colorado Plateau/ geology/ Lisbon Valley/ uranium/ Montrose County/ San Miguel County/

Rogers, A. S., 1950

San Miguel County/ minerals/ carnotite/ geology/ sandstone/ Morrison Formation/ Salt Wash Member/ Legln group/ drilling/ leaching/ ore deposits/ Colorado Plateau/

Rogers, W. B., and Shawe, D. R., 1962

Disappointment Valley/ ore deposits/ sandstone/ exploration/ uranium/ vanadium/ Slick Rock district/ San Miguel County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sections/ mineralization/ Lower group/ Middle group/ Georgetown group/ Burro group/ Veta Mad mine/ drilling/ Georgetown mine/

Rosenzweig, A., Gruner, J. W., and Gardiner, L., 1954

Colorado Plateau/ ore deposits/ uraninite/ characteristics/ Triassic/ Jurassic/ bituminous substances/ uranium/ sandstone/ paragenesis/ Montrose County/ San Miguel County/ Placerville district/ La Sal Creek district/ Chinle Formation/

Rosholt, J. N., Jr., 1960

Colorado Plateau/ ore deposits/ simulation/ uranium migration/ sandstone/ uranium/ San Miguel County/ age dating/ experimental studies/

Rosholt, J. N., Jr., Butler, A. P., Jr., Garner, E. L., and others, 1965

Colorado/ Wyoming/ genesis/ sandstone/ leaching/ geochemistry/ isotopes/ fractionation/ Powder River basin/ Slick Rock district/ San Miguel County/ uranium/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/

Ruckmick, J. C., 1953

heavy minerals/ simulation/ ore deposits/ placers/

- gravels/ sandstone/ Mesa County/ Montrose County/ Dolores County/ Montezuma County/ samarskite/ Shinarump Member/ conglomerate/ Colorado Plateau/ fluvial deposits/ San Miguel County/
- Russell, W. L., and Scherbatskoy, S. A., 1951
Colorado Plateau/ ore deposits/ genesis/ exploration/ gamma-ray detectors/ sandstone/ Front Range/ Instrumentation/ Morrison Formation/ Salt Wash Member/ Gilpin County/ Clear Creek County/ Boulder County/ San Miguel County/ Montrose County/ Igneous-metamorphic/ Entrada Sandstone/
- Sample, R. D., Albee, H. F., and Stephens, H. G., 1953
Montrose County/ San Miguel County/ claim map/ Anderson Mesa quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., Albee, H. F., and Stephens, H. G., 1953
San Miguel County/ claim map/ Hamm Canyon quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., Albee, H. F., and Stephens, H. G., 1953
claim map/ Colorado Plateau/ Horse Range Mesa/ ore deposits/ sandstone/ Charles A claims/ Apex claims/ Rio Grande claims/ Hot Foot claims/ Summit claims/ Radium claims/ Bean claims/ Charles T claims/ uranium/ vanadium/ San Miguel County/ Morrison Formation/
- Sample, R. D., and Albee, H. F., 1951
Montrose County/ San Miguel County/ claim map/ Bull Canyon quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1951
Montrose County/ San Miguel County/ claim map/ Naturita NW quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1952
San Miguel County/ claim map/ Gypsum Gap quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1953
San Miguel County/ claim map/ Joe Davis Hill quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1953
San Miguel County/ claim map/ Egnar quadrangle/ sandstone/ Colorado Plateau/
- Saum, N. M., and Link, J. M., 1969
uranium/ ore deposits/ exploration/ history/ Front Range/ Schwartzwalder mine/ Jefferson County/ igneous-metamorphic/ geochemistry/ genesis/ hydrothermal deposits/ sandstone/ Morrison Formation/ Uravan district/ Montrose County/ San Miguel County/ Mesa County/ New Mexico/ Utah/ Wyoming/ diatremes/ lignites/ phosphates/ remote sensing/ Colorado Plateau/
- Schultz, L. G., 1963
clay minerals/ Moenkopi Formation/ Chinle Formation/ x-ray diffraction/ Ouray County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Colorado Plateau/ sandstone/ La Plata County/
- Scott, J. B., 1952
Colorado Plateau/ Vanura group/ San Miguel County/ drilling/ exploration/ ore deposits/ sandstone/ Morrison Formation/ reserves/ uranium/ vanadium/
- Shawe, D. R., 1955
San Miguel County/ Dolores County/ Slick Rock district/ sandstone/ Colorado Plateau/ ore deposits/ geology/
- Shawe, D. R., 1955
Slick Rock district/ San Miguel County/ Dolores County/ sandstone/ Colorado Plateau/ ore deposits/ geology/
- Shawe, D. R., 1962
Colorado Plateau/ ore localization/ Uravan district/ sedimentation/uranium/ vanadium/ Morrison Formation/ sandstone/ carbonaceous materials/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/
- Shawe, D. R., 1968
fossils/ lithology/ Mancos Shale/ Slick Rock district/ San Miguel County/ shale/ Colorado Plateau/
- Shawe, D. R., 1968
Slick Rock district/ ore deposits/ Chinle Formation/ Morrison Formation/ San Miguel County/ Dolores County/ petrography/ sandstone/ uranium/ vanadium/ Colorado Plateau/
- Shawe, D. R., 1969
ore deposits/ minerals/ Utah/ Uravan district/ exploration/ Montrose County/ San Miguel County/ Dolores County/ uranium/ vanadium/ sandstone/ Morrison Formation/ Colorado Plateau/
- Shawe, D. R., 1970
geology/ tectonics/ ore deposits/ Slick Rock district/ structure/ San Miguel County/ Dolores County/ salt anticlines/ uranium/ vanadium/ sandstone/ Colorado Plateau/
- Shawe, D. R., 1973
Slick Rock district/ ore deposits/ red beds/ alteration/ deposition/ genesis/ vanadium/ uranium/ sandstone carbonaceous materials/ San Miguel County/ Mancos Shale/ Morrison Formation/ pore waters/ Colorado Plateau/
- Shawe, D. R., 1974
alteration/ red beds/ uranium/ vanadium/ ore deposits/ Colorado Plateau/ Slick Rock district/ San Miguel County/ sandstone/ Mancos Shale/ Morrison Formation/ carbonaceous material/ Dolores County/ genesis/ deposition/ pore waters/
- Shawe, D. R., 1976
alteration/ Slick Rock district/ San Miguel County/ Dolores County/ sandstone/ uranium/ vanadium/ Morrison Formation/ Chinle Formation/ Colorado Plateau/

SAN MIGUEL COUNTY

- Shawe, D. R., 1976
geologic history/ Slick Rock district/ Colorado Plateau/ Dolores County/ sandstone/ tectonics/ uranium/ San Miguel County/ vanadium/
- Shawe, D. R., and Archbold, N. L., 1958
San Miguel County/ sandstone/ Morrison Formation/ Summerville Formation/ Slick Rock district/ Colorado Plateau/ geology/ map/
- Shawe, D. R., and Granger, H. C., 1965
uranium ore/ rolls/ Rifle district/ Uravan district/ Colorado Plateau/ sandstone/ Entrada Sandstone/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Morrison Formation/
- Shawe, D. R., and others, 1956
San Miguel County/ Dolores County/ sandstone/ Cougar mine/ Slick Rock district/ Colorado Plateau/ ore deposits/ geology/
- Shawe, D. R., Archbold, N. L., Boudette, E. L., and others, 1954
Colorado Plateau/ reserves/ exploration/ sandstone/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Disappointment Valley/ Legn area/ Spud Patch area/ Slick Rock district/ San Miguel County/ ore deposits/
- Shawe, D. R., Archbold, N. L., and Simmons, G. C., 1958
Colorado Plateau/ geology/ uranium/ vanadium/ ore deposits/ Slick Rock district/ San Miguel County/ Dolores County/ County/ sandstone/ genesis/ Morrison Formation/
- Shawe, D. R., Archbold, N. L., and Simmons, G. C., 1959
Colorado Plateau/ geology/ uranium/ vanadium/ ore deposits/ Slick Rock district/ San Miguel County/ Dolores County/ sandstone/ genesis/ Morrison Formation/
- Shawe, D. R., Archbold, N. L., Boudette, E. L., and others, 1978
sandstone/ Colorado Plateau/ San Miguel County/ Slick Rock district/ uranium/ vanadium/ ore deposits/ Dolores County/
- Shawe, D. R., Simmons, G. C., and Rogers, William, 1956
San Miguel County/ Dolores County/ Slick Rock district/ sandstone/ Colorado Plateau/ geology/ ore deposits/
- Shawe, D. R., Simmons, G. C., and Archbold, N. L., 1957
San Miguel County/ Dolores County/ Slick Rock district/ sandstone/ Colorado Plateau/ ore deposits/
- Shawe, D. R., Simmons, G. C., and Archbold, N. L., 1968
stratigraphy/ Slick Rock district/ San Miguel County/ Dolores County/ sandstone/ Morrison Formation/ uranium/ vanadium/ Chinle Formation/ Colorado Plateau/

SAN MIGUEL COUNTY

- Shoemaker, E. M., 1954
Utah/ Colorado/ New Mexico/ Arizona/ Colorado Plateau/ structural features/ Uncompahgre uplift/ tectonics/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ Delta County/ diatremes/ La Plata County/ sandstone/ igneous-metamorphic/ geology/ guidebook/ Mesa County/
- Shoemaker, E. M., 1956
structural features/ Colorado Plateau/ ore deposits/ veins/ Moffat County/ Rio Blanco County/ La Plata County/ uranium/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ San Juan County/ Ouray County/ sandstone/ Montezuma County/ Dolores County/ Archuleta County/
- Shoemaker, E. M., and Luedke, R. G., 1952
Colorado Plateau/ map/ uranium/ ore deposits/ sandstone/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Ouray County/ Montezuma County/ La Plata County/ Garfield County/
- Shoemaker, E. M., and Newman, W. L., 1957
Moenkopi Formation/ salt anticlines/ sandstone/ Montrose County/ San Miguel County/ Dolores County/ geology/ Colorado Plateau/ Utah/ Mesa County/
- Shumway, G. L., 1970
uranium industry/ Colorado Plateau/ history/ sandstone/ San Miguel County/ Dolores County/ Montrose County/
- Simmons, G. C., 1957
Burro Canyon Formation/ Slick Rock district/ San Miguel County/ stratigraphy/ sandstone/ Colorado Plateau/
- Simmons, G. C., 1957
sandstone/ Burro Canyon Formation/ Dakota Sandstone/ formation contacts/ Slick Rock district/ correlation/ fossils/ Dolores County/ San Miguel County/ geology/ stratigraphy/ Colorado Plateau/
- Simmons, G. C., 1957
Dakota Sandstone/ stratigraphy/ Slick Rock district/ correlation/ Burro Canyon Formation/ sandstone/ San Miguel County/ Dolores County/ Colorado Plateau/ geology/
- Simmons, G. C., Shawe, D. R., and Rogers, W. B., 1956
Horse Range Mesa/ Hamm Canyon/ Colorado Plateau/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Slick Rock district/ San Miguel County/ Disappointment Valley area/
- Smith, C. T., 1946
geology/ geologic ore deposits/ Montrose County/ vanadium/ reserves/ exploration/ uranium/ stratigraphy/ mineralization/ Uravan district/ San Miguel Plateau/ San Miguel County/ sandstone/ Mesa County/ Colorado Plateau/
- Smith, C. T., 1955
Colorado Plateau/ ore deposits/ uranium/ San

SAN MIGUEL COUNTY

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- Miguel County/ Montrose County/ Mesa County/ sandstone/ geology/
- Stager, H. K., 1952
Colorado Plateau/ drilling/ sandstone/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ reserves/ La Sal Creek district/ Paradox Valley district/
- Stager, H. K., 1953
Gypsum Valley district/ La Sal Creek area/ Montrose County/ San Miguel County/ Colorado Plateau/ drilling/ exploration/ ore deposits/ reserves/ sandstone/ uranium/ vanadium/
- Stern, T. W., and Steff, L. R., 1956
age determination/ Colorado Plateau/ Mesa County/ uranium/ Montrose County/ San Miguel County/ Bob Tall mine/ Jo Dandy mines/ Radium No. 6 mine/ Calamity mines/ radionuclides/ radium/ genesis/ Club mines/ sandstone/ ore deposits/
- Stewart, J. H., and Wilson, R. F., 1960
Dolores County/ San Miguel County/ Montrose County/ Chinle Formation/ sandstone/ Moenkopi Formation/ Wingate Sandstone/ correlation/ Triassic/ Colorado Plateau/ salt anticlines/ Paradox basin/
- Stewart, J. H., Williams, G. A., Albee, H. F., and others, 1959
stratigraphy/ Triassic/ Colorado Plateau/ Chinle Formation/ sandstone/ ore deposits/ sedimentary structure/ lithofacies/ San Miguel County/ Dolores County/ sedimentary petrology/
- Steff, L. R., Stern, T. W., and Milkey, R. G., 1953
age dating/ uranium/ ore deposits/ Colorado Plateau/ sandstone/ lead-uranium ratios/ Mesa County/ Montrose County/ San Miguel County/ San Juan County/
- Steff, L. R., Stern, T. W., and Milkey, R. G., 1953
Colorado Plateau/ age determination/ sandstone/ uranium/ San Juan County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/
- Steff, L. R., Stern, T. W., and Milkey, R. G., 1955
Uravan district/ Jefferson County/ Larimer County/ Mesa County/ Montrose County/ San Miguel County/ coffinite/ Copper King mine/ La Sal No. 2 mine/ Matchless mine/ Old Leyden coal mine/ Peanut mine/ Robinson property/ pyrobitumens/ Weatherly property/ Wild Steer mine/ veins/ sandstone/ Cutler Formation/ Dolores Formation/ mineralogy/ Laramie Formation/ Morrison Formation/ Salt Wash Member/ igneous-metamorphic/ Colorado Plateau/ Front Range/
- Steff, L. R., Stern, T. W., and Milkey, R. G., 1956
Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Copper King mine/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ San Miguel County/ geochemistry/ x-ray analyses/ mineralogy/ igneous-metamorphic/ sandstone/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Copper King mine/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ San Miguel County/ x-ray analyses/ geochemistry/ igneous-metamorphic/ sandstone/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/ Copper King mine/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ x-ray analyses/ Montrose County/ San Miguel County/ igneous-metamorphic/ geochemistry/ Colorado Plateau/ sandstone/
- Stokes, W. L., 1948
Utah/ Colorado/ geology/ salt domes/ Gypsum Valley district/ structure/ sandstone/ Morrison Formation/ genesis/ road logs/ Colorado Plateau/ San Miguel County/
- Stokes, W. L., 1952
Colorado Plateau/ fossils/ stratigraphy/ Mesa County/ correlation/ San Miguel County/ sandstone/
- Stokes, W. L., 1958
Colorado Plateau/ sandstone/ continental sediments/ Montrose County/ sandstone/ lead-uranium ratios/ Mesa County/ San Miguel County/ San Juan County/
- Stokes, W. L., and Phoenix, D. A., 1948
Montrose County/ San Miguel County/ geology/ oil/ gas/ sections/ stratigraphy/ Egnar-Gypsum Valley area/ Salt Wash Member/ structure/ structural history/ sandstone/ Colorado Plateau/ Morrison Formation/
- Tavelli, J. A., 1951
Colorado Plateau/ sandstone/ airborne radiometrics/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ New Mexico/ Arizona/ Utah/ exploration/ instrumentation/ Mesa County/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R., 1957
simplotite/ vanadium/ Colorado Plateau/ San Miguel County/ Montrose County/ geochemistry/ Morrison Formation/ x-ray analyses/ Peanut mine/ Sundown claim/ mineralogy/ sandstone/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R., 1957
sherwoodite/ vanadium/ sandstone/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Matchless mine/ Peanut mine/ Fall Creek mine/ Morrison Formation/ Entrada Sandstone/ geochemistry/ x-ray analyses/ mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R., 1958
simplotite/ vanadium/ Colorado Plateau/ San Miguel County/ Montrose County/ geochemistry/ x-ray analyses/ analysis/ Peanut mine/ Sundown claim/ Morrison Formation/ sandstone/ mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R., 1958
sherwoodite/ vanadium/ sandstone/ Colorado Plateau/

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San Miguel County/ Mesa County/ Montrose County/
Matchless mine/ Peanut mine/ Fall Creek mine/
Morrison Formation/ Entrada Sandstone/ geochemistry/
x-ray analyses/ mineralogy/

Tom, C. W., 1966

Verdure quadrangle/ Utah/ San Miguel County/
Dolores County/ Montezuma County/ Colorado Plateau/
sandstone/ ore deposits/ economic map/ resources/

Trace, R. D., 1949

San Miguel County/ Radium claims/ Egnar area/
drilling/ Colorado Plateau/ sandstone/ Radium
group/

Trace, R. D., 1950

Colorado Plateau/ uranium/ vanadium/ Egnar area/
exploration/ drilling/ ore guides/ Radium group/
conglomerate/ carnotite/ Radium mines/ production/
reserves/ resources/ Brushy Basin Member/ sandstone/
Morrison Formation/ Salt Wash Member/ San Miguel
County/

Trace, R. D., 1950

Georgetown group/ San Miguel County/ Veta Glad
claim/ Veta Mad claim/ sandstone/ reserves/
resources/ Colorado Plateau/ ore deposits/ uranium/
vanadium/ Morrison Formation/

Trace, R. D., 1950

Georgetown group/ San Miguel County/ Morrison
Formation/ reserves/ resources/ Georgeto claim/
sandstone/ Colorado Plateau/ ore deposits/ uranium/
vanadium/

Trace, R. D., 1952

San Miguel County/ Slick Rock district/ uranium/
vanadium/ reserves/ resources/ sandstone/ Morrison
Formation/ geology/ Colorado Plateau/ drilling/
ore deposits/ Salt Wash Member/

U.S. Atomic Energy Commission, 1966

airborne reconnaissance/ Arkansas/ Colorado/
Montana/ Texas/ Utah/ Colorado Plateau/ Montezuma
County/ Moffat County/ San Miguel County/ sandstone/

U.S. Atomic Energy Commission, 1966

geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ San Miguel County/ sandstone/
Colorado Plateau/ ore deposits/ reconnaissance/

U.S. Atomic Energy Commission, 1972

Uravan district/ Colorado Plateau/ road logs/
maps/ stratigraphy/ historical notes/ sandstone/
Mesa County/ San Miguel County/ Montrose County/

U.S. Department of Energy, 1977

engineering assessment/ inactive uranium mill
tailings/ Slick Rock sites/ San Miguel County/
Colorado Plateau/ sandstone/

U.S. Geological Survey, 1953

geology/ San Miguel County/ Uravan district/
sandstone/ Colorado Plateau/ Powderhorn district/
Igneous-metamorphic/ exploration/ Slick Rock
district/ Gypsum Valley district/ Morrison Formation/
Gateway district/ Mesa County/ Montrose County/

Dolores County/ Spud Patch area/ Legin group/
Monogram Mesa/ Club Mesa/ carnotite/ ore deposits/
Gunnison County/

U.S. Geological Survey, 1953

sandstone/ Colorado Plateau/ Front Range/ veins/
Igneous-metamorphic/ thorium/ Powderhorn district/
natural waters/ Morrison Formation/ Mesa County/
San Miguel County/ Dolores County/ Gilpin County/
San Juan County/ La Plata County/ Ouray County/
geology/ Gunnison County/ Montrose County/ San
Juan Mountains/ Clear Creek County/ ore deposits/
geology/

U.S. Geological Survey, 1953

geologic mapping/ Colorado Plateau/ Front Range/
carbonaceous rocks/ geochemistry/ reconnaissance/
black shales/ sandstone/ Igneous-metamorphic/
geology/ ore deposits/ Gilpin County/ Clear
Creek County/ Jefferson County/ Montrose County/
Mesa County/ San Miguel County/ Gunnison County/

U.S. Geological Survey, 1954

Clear Creek County/ Gilpin County/ ore deposits/
reserves/ Colorado Plateau/ exploration/ sandstone/
Mesa County/ Montrose County/ San Miguel County/
Garfield County/ Moffat County/ Dolores County/
Rio Blanco County/ Front Range/ Igneous-metamorphic/
Jefferson County/ pitchblende/ hydrogeochemical
exploration/ stream sediments/ ground water/
mine waters/

U.S. Geological Survey, 1954

Colorado Plateau/ sandstone/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ ore
deposits/ Morrison Formation/ geology/ Chinle
Formation/ Shinarump Member/ reserves/ San Juan
Mountains/ snow/ surface water/ ground water/
Ouray County/ San Juan County/ conglomerate/
Igneous-metamorphic/ Front Range/

U.S. Geological Survey, 1954

Colorado Plateau/ Montrose County/ Mesa County/
Dolores County/ Montezuma County/ drilling/
logging/ data/ analyses/ sandstone/ maps/ Morrison
Formation/ San Miguel County/

U.S. Geological Survey, 1955

Beaver Mesa/ Disappointment Valley/ Front Range/
Jo Dandy area/ La Sal Creek area/ Monogram Mesa/
exploration/ drilling/ Ralston Buttes district/
Uravan district/ Montrose County/ San Miguel
County/ Mesa County/ Jefferson County/ Colorado
Plateau/ sandstone/ Igneous-metamorphic/

U.S. Geological Survey, 1955

Front Range/ Golden Gate Canyon area/ Uravan
district/ exploration/ drilling/ Colorado Plateau/
Jefferson County/ San Miguel County/ Montrose
County/ Mesa County/ Dolores County/ sandstone/
Igneous-metamorphic/ Ralston Buttes district/

U.S. Geological Survey, 1955

Colorado Plateau/ Front Range/ sandstone/ geologic
mapping/ veins/ carbonaceous rocks/ geochemistry/
reconnaissance/ analyses/ Igneous-metamorphic/
Mesa County/ Montrose County/ Dolores County/
San Miguel County/ Montezuma County/ Fremont
County/ Jefferson County/

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U.S. Geological Survey, 1956

Colorado Plateau/ Front Range/ veins/ geologic mapping/ mineralogy/ petrology/ geophysics/ carbonaceous rocks/ analyses/ sandstone/ Igneous-metamorphic/ San Miguel County/ Dolores County/ Montrose County/ Montezuma County/ Jefferson County/ Mesa County/

U.S. Geological Survey, 1956

Colorado Plateau/ mapping/ geology/ geophysics/ mineralogy/ vanadium/ carbonaceous rocks/ petrology/ San Miguel County/ sandstone/ Igneous-metamorphic/ Dolores County/ Montrose County/ Montezuma County/ Jefferson County/ Front Range/ Mesa County/ Fremont County/

U.S. Geological Survey, 1956

Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ sandstone/ San Miguel County/ Igneous-metamorphic/ Dolores County/ Montrose County/ Mesa County/ Montezuma County/ Jefferson County/ Fremont County/

U.S. Geological Survey, 1957

drilling/ Colorado Plateau/ sandstone/ reserves/ sections/ geology/ exploration/ ore deposits/ Mesa County/ Dolores County/ San Miguel County/ Montrose County/

U.S. Geological Survey, 1957

Colorado Plateau/ Front Range/ geology/ geophysics/ geochemistry/ geophysics/ thorium/ ore deposits/ sandstone/ Igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Gilpin County/ Clear Creek County/

U.S. Geological Survey, 1957

Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ San Miguel County/ Montrose County/ sandstone/ Igneous-metamorphic/ Mesa County/ Clear Creek County/ Gilpin County/ ore deposits/

U.S. Geological Survey, 1958

Colorado Plateau/ mapping/ geophysics/ Clear Creek County/ geochemistry/ Maybell-Lay area/ Front Range/ Gilpin County/ research/ thorium/ Moffat County/ sandstone/ Mesa County/ Igneous-metamorphic/ San Miguel County/ Montrose County/

U.S. Geological Survey, 1958

Colorado Plateau/ geophysics/ geochemistry/ Gilpin County/ research/ Front Range/ thorium/ reconnaissance/ Mesa County/ sandstone/ Igneous-metamorphic/ Clear Creek County/ Montrose County/ San Miguel County/

U.S. Geological Survey, 1959

Colorado Plateau/ geologic mapping/ geophysics/ sandstone/ ore deposits/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/

U.S. Geological Survey, 1959

Colorado Plateau/ Lisbon Valley district/ mapping/ research/ thorium/ sandstone/ geophysics/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/

U.S. Geological Survey, 1970

sandstone/ Gypsum Valley district/ Montrose County/ San Miguel County/ maps/ drilling/ exploration/ Colorado Plateau/

U.S. Geological Survey, 1971

maps/ exploration/ drilling/ Slick Rock district/ sandstone/ San Miguel County/ Colorado Plateau/

U.S. Geological Survey, 1971

map/ aeromagnetism/ Colorado Plateau/ sandstone/ Utah/ Colorado/ Arizona/ San Miguel County/ Montrose County/ Mesa County/

Umbach, P. H., 1952

exploration/ Colorado Plateau/ sandstone/ uranium/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/

Utah Geological Society, 1954

Colorado/ Utah/ ore deposits/ geology/ uranium/ sandstone/ New Mexico/ Arizona/ minerals/ Colorado Plateau/ Thompson district/ Lisbon Valley district/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Big Indian district/

Van Voorhis, B. W., Jr., 1945

ore deposits/ vanadium oxides/ vanadium/ geological surveys/ uranium/ prospecting/ reserves/ stratigraphy/ geology/ uranium oxides/ Dolores Plateau/ sandstone/ Dolores County/ San Miguel County/ Colorado Plateau/ Dolores River district/

Vogel, J. D., 1957

Klondike Ridge/ uranium/ vanadium/ copper/ manganese/ Colorado Plateau/ San Miguel County/ Gypsum Valley/ Morrison Formation/ sandstone/ veins/ limestone/

Vogel, J. D., 1960

geology/ ore deposits/ Klondike Ridge/ uranium/ vanadium/ copper/ manganese/ Colorado Plateau/ San Miguel County/ Gypsum Valley district/ Morrison Formation/ sandstone/ veins/ limestone/

Walker, G. W., 1963

alteration/ veins/ Igneous-metamorphic/ sandstone/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ Cochetopa district/ ore deposits/ Placerville district/ San Miguel County/ Larimer County/ Central City district/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/

Walker, G. W., and Adams, J. W., 1957

Boulder County/ Larimer County/ Clear Creek County/ Central City district/ Gilpin County/ Caribou mine/ Front Range/ Jefferson County/ Placerville district/ San Miguel County/ Colorado Plateau/ ore deposits/ Marshall Pass/ Saguache County/ Copper King mine/ sandstone/ Igneous-metamorphic/ mineralogy/ veins/ textures/ structures/ paragenesis/ Los Ochos mine/ Schwartzwalder mine/

Walker, G. W., and Adams, J. W., 1963

Boulder County/ Larimer County/ Placerville district/ Central City district/ Gilpin County/

- Clear Creek County/ Front Range/ Jefferson County/ Schwartwalder mine/ San Miguel County/ Colorado Plateau/ Copper King mine/ Saguache County/ ore deposits/ Caribou mine/ Los Ochos mine/ sandstone/ Colorado/ mineralogy/ igneous-metamorphic textures/ structures/ paragenesis/
- Walker, G. W., and Osterwald, F. W., 1956
ore deposits/ veins/ fluorite/ Front Range/ Gilpin County/ coal/ Jefferson County/ Placerville district/ San Miguel County/ Clear Creek County/ sandstone/ igneous-metamorphic/ Colorado Plateau/ Cochetopa district/ Saguache County/ Powderhorn district/ Custer County/ Chaffee County/
- Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ geology/ Front Range/ Gilpin County/ Jefferson County/ sandstone/ Boulder County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/ Saguache County/ Custer County/ Chaffee County/ Clear Creek County/ Jamestown district/ Cochetopa district/ Powderhorn district/ Placerville district/
- Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ genesis/ Placerville district/ transportation/ deposition/ depositional environments/ Clear Creek County/ Gilpin County/ Saguache County/ Jefferson County/ Cochetopa district/ Front Range/ San Miguel County/ Leyden coal mine/ Larimer County/ Boulder County/ igneous-metamorphic/ sandstone/
- Wallace, R. M., 1957
Monogram Mesa/ Jo Dandy area/ Bull Canyon district/ Colorado Plateau/ reserves/ drilling/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Montrose County/ San Miguel County/ Dry Creek basin/
- Wallace, R. M., and Roach, C. H., 1956
Dry Creek basin/ ore deposits/ exploration/ Jurassic/ Morrison Formation/ Bull Canyon district/ Montrose County/ San Miguel County/ Colorado Plateau/ sandstone/ geology/
- Wallace, R. M., and Santos, E. S., 1956
Colorado Plateau/ ore deposits/ exploration/ Montrose County/ San Miguel County/ Jurassic/ Morrison Formation/ diamond drilling/ Jo Dandy area/ Dry Creek basin/ sandstone/ Bull Canyon district/
- Wardwell, H. R., 1948
uranium/ ore deposits/ exploration/ geology/ stratigraphy/ mining/ mineralogy/ vanadium/ minerals/ reserves/ Coyote Mesa district/ Dolores Plateau/ sandstone/ Colorado Plateau/ San Miguel County/ Dolores County/
- Waters, A. C., and Granger, H. C., 1952
Colorado Plateau/ Uravan district/ Dolores mines/ volcanic debris/ sandstone/ genesis/ Georgetown group/ precipitation/ San Miguel County/ Montrose County/
- Weeks, A. D., 1952
Colorado Plateau/ alteration/ sandstone/ oxidation/ paragenesis/ ore deposits/ pitchblende/ roscoelite/ mineralogy/ Uravan district/ Chinle Formation/ Shinarump Member/ Morrison Formation/ uraninite/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/
- Weeks, A. D., 1956
Uravan district/ ore deposits/ mineralogy/ sandstone/ Colorado Plateau/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/
- Weeks, A. D., and Thompson, M. E., 1953
mineralogy/ ore deposits/ Colorado Plateau/ uranium/ vanadium/ copper/ Placerville district/ Rifle district/ Garfield County/ San Miguel County/ sandstone/
- Weeks, A. D., and Thompson, M. E., 1954
Colorado Plateau/ ore deposits/ uranium/ vanadium/ minerals/ mineralogy/ identification/ x-ray data/ Mesa County/ analyses/ Montrose County/ San Miguel County/ Dolores County/ sandstone/
- Weeks, A. D., and Truesdell, A. H., 1957
Uravan district/ sandstone/ Colorado Plateau/ mineralogy/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ ore deposits/
- Weeks, A. D., Coleman, R. G., and Thompson, M. E., 1956
Colorado Plateau/ asphaltic rocks/ Atkinson Mesa/ Club Mesa/ Flat Top Mesa/ Jo Dandy area/ Paradox district/ Placerville district/ Rifle district/ Slick Rock district/ Uravan/ Montrose County/ San Miguel County/ mineralogy/ petrology/ geochemistry/ vanadium/ ore deposits/ Garfield mine/ roscoelite/ chemical analyses/ sandstone/ Garfield County/
- Weeks, A. D., Coleman, R. G., and Thompson, M. E., 1959
Colorado Plateau/ ore deposits/ mineralogy/ oxidation/ vanadium/ sandstone/ uranium/ Moffat County/ Dolores County/ Garfield County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/
- Weeks, A. D., Thompson, M. E., and Thompson, R. B., Jr., 1954
Colorado Plateau/ minerals/ mineral associations/ ore classification/ uranium/ Placerville district/ San Miguel County/ sandstone/ ore deposits/ Rifle district/ Garfield County/ Entrada Sandstone/ Morrison Formation/
- Weir, D. B., 1951
Colorado Plateau/ sandstone/ carnotite/ ore guides/ exploration/ ore deposits/ Morrison Formation/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ geology/
- Weir, D. B., 1952
Colorado Plateau/ ore guides/ exploration/ carnotite/ ore deposits/ Morrison Formation/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ geology/
- Weir, G. W., 1954
Colorado Plateau/ sandstone/ Dolores anticline/

- San Miguel County/ Lisbon Valley area/ quadrangle mapping/ geology/ Utah/ ore deposits/
- Weir, G. W., 1955
Lisbon Valley area/ quadrangle mapping/ Colorado Plateau/ sandstone/ San Miguel County/ Utah/ geology/ ore deposits/
- Weir, G. W., 1955
Lisbon Valley area/ quadrangle mapping/ Colorado Plateau/ sandstone/ Dolores anticline/ San Miguel County/ Utah/ geology/ ore deposits/
- Weir, G. W., 1956
Utah/ Lisbon Valley area/ ore deposits/ mapping/ Colorado Plateau/ sandstone/ Dolores anticline/ geology/ San Miguel County/
- Weir, G. W., and Kennedy, V. C., Dodson, C. L., and Puffett, W. P., 1957
Utah/ Lisbon Valley area/ ore deposits/ geochemistry/ mineralization/ mapping/ Colorado Plateau/ Dolores anticline/ sandstone/ San Miguel County/ geology/
- Weir, G. W., and Puffett, W. P., 1958
Mount Peale quadrangle/ Lisbon Valley area/ mapping/ Colorado Plateau/ sandstone/ Dolores anticline/ San Miguel County/ geology/ ore deposits/
- Weir, G. W., and Puffett, W. P., 1960
uranium/ vanadium/ copper/ Lisbon Valley area/ Utah/ San Miguel County/ Cutler Formation/ Chino Formation/ Morrison Formation/ sandstone/ ore deposits/ Colorado Plateau/ Dolores anticline/ Igneous-metamorphic/
- Weir, G. W., and Puffett, W. P., 1960
Utah/ San Miguel County/ Mount Peale 4 SE quadrangle/ geology/ Burro Canyon Formation/ Morrison Formation/ Salt Wash Member/ sandstone/ uranium/ vanadium/ map/ Colorado Plateau/ stratigraphy/ section/
- Weir, G. W., Carter, W. D., Puffett, W. P., and others, 1960
Utah/ San Miguel County/ Montrose County/ Colorado Plateau/ Mount Peale 4 NE quadrangle/ geology/ stratigraphy/ section/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ sandstone/ map/
- Weir, G. W., Puffett, W. P., and Kennedy, V. C., 1957
Utah/ Lisbon Valley area/ ore deposits/ trace elements/ geochemistry/ zirconium/ sandstone/ mines/ Colorado Plateau/ Plateau/ Dolores anticline/ San Miguel County/
- Williams, P. L., 1964
Colorado/ Utah/ Moab quadrangle/ ore deposits/ uranium/ maps/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Ouray County/ geology/ structure/ sandstone/
- Wilmarth, V. R., 1951
thucholite/ Robinson property/ Placerville district/ weatherly property/ asphaltite/ hydrocarbons/ pyrobitumens/ base metals/ precious metals/ veins/ fault breccia/ shear zone material/ limestone/ Dolores Formation/ ore deposits/ Colorado Plateau/ San Miguel County/ structure/ Cutler Formation/ sandstone/
- Wilmarth, V. R., and Hawley, C. C., 1958
San Miguel County/ Placerville district/ vanadium/ sandstone/ geology/ ore deposits/ Colorado Plateau/ Entrada Sandstone/
- Wilmarth, V. R., and Vickers, R. C., 1953
Colorado Plateau/ geology/ organic material/ sandstone/ shale/ San Miguel County/ Placerville district/ minerals/ uranophane/ asphaltite/ hydrocarbons/ pyrobitumen/ thucholite/ Barbara J claim/ ore deposits/ New Discovery lode/ Robinson property/ Weatherly property/ White Spar claims/ Black King claims/ Cutler Formation/ economic geology/ Dolores Formation/
- Withington, C. F., 1950
minerals/ carnotite/ Colorado Plateau/ geology/ Slick Rock district/ San Miguel County/ Upper group area/ exploration/ drilling/ production/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ ore deposits/
- Withington, C. F., 1951
Colorado Plateau/ San Miguel County/ exploration/ drilling/ Upper group claims/ uranium/ production/ reserves/ resources/ vanadium/ Slick Rock/ geology/ minerals/ carnotite/ roscoelite/ sandstone/ Morrison Formation/ Salt Wash Member/
- Withington, C. F., and Bush, A. L., 1950
carnotite/ geology/ exploration/ Colorado Plateau/ San Miguel County/ drilling/ Burro claim/ Ellison claim/ production/ uranium/ vanadium/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/
- Withington, C. F., and Hasler, J. W., n.d.
Montrose County/ San Miguel County/ Gypsum Valley district/ exploration/ sandstone/ Colorado Plateau/
- Withington, C. F., and Scott, J. B., 1953
Colorado Plateau/ drilling/ exploration/ ore deposits/ reserves/ Contact No. 4 claim/ Gypsum Valley district/ San Miguel County/ sandstone/ Morrison Formation/ breccia/ uranium/ vanadium/
- Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/ ore deposits/ Jefferson County/ San Miguel County/ Saguache County/ Park County/ Boulder County/ Montrose County/ Moffat County/ sandstone/ Front Range/ coal/ Igneous-metamorphic/
- Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/ sandstone/ production/ geology/ Boulder County/ Jefferson County/ Saguache County/ Park County/ Montrose County/ San Miguel County/ Moffat County/ coal/ Igneous-metamorphic/ Front Range/
- Wood, H. B., 1968
geology/ ore deposits/ uranium/ Lisbon Valley area/ Utah/ Colorado Plateau/ sandstone/ San Miguel County/
- Wood, H. B., and Grundy, W. D., 1956
exploration guides/ exploration techniques/ Shinarump Formation/ channels/ Colorado Plateau/ uranium/ Moffat County/ Rio Blanco County/ Garfield

SAN MIGUEL COUNTY

- County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/
- Wood, H. B., and Lekas, M. A., 1958
uranium/ sandstone/ ore deposits/ Colorado Plateau/ Uravan district/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/
- Wood, H. B., and Lekas, M. A., 1958
Uravan district/ ore deposits/ sandstone/ uranium/ Colorado Plateau/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/
- Wright, J. C., Shawe, D. R., and Lohman, S. W., 1962
Jurassic/ Entrada Sandstone/ Utah/ Colorado/ sandstone/ Colorado Plateau/ Montrose County/ Mesa County/ San Miguel County/
- Wright, R. J., 1955
Colorado Plateau/ ore deposits/ ore controls/ lithology/ sandstone/ genesis/ Moffat County/ Dolores County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/ Archuleta County/
- Young, Neal, 1957
economic map/ ore deposits/ Mount Peale quadrangle/ Utah/ Colorado/ Montrose County/ San Miguel County/ sandstone/ Colorado Plateau/ geology/
- Zalinski, E. R., 1908
vanadium/ San Miguel County/ Igneous-metamorphic/ Colorado Plateau/ Telluride area/

SEDGWICK COUNTY

- Boberg, W. W., 1970
surface water/ streams/ transport/ precipitation/ South Platte River/ geochemistry/ shale/ Jefferson County/ Douglas County/ Denver County/ Arapahoe County/ uranium/ Adams County/ Weld County/ Morgan County/ Washington County/ Logan County/ Sedgwick County/
- Boberg, W. W., and Runnells, D. D., 1971
surface water/ rivers/ South Platte River/ geochemistry/ uranium/ analyses/ Jefferson County/ Douglas County/ Denver County/ Arapahoe County/ Adams County/ Weld County/ Morgan County/ Washington County/ Logan County/ Sedgwick County/ reconnaissance/
- Swanson, V. E., 1956
marine black shales/ uranium/ United States/ distribution/ shale/ Sedgwick County/ Colorado Plateau/ Pierre Shale/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/
- Swanson, V. E., 1956
marine black shales/ uranium/ United States/ distribution/ shale/ Sedgwick County/ Colorado Plateau/ Pierre Shale/ Sharon Springs Member/ Paradox Member/ Hermosa Formation/

SUMMIT COUNTY

SUMMIT COUNTY

- Burnside, S. S., and Wenrich-Verbeek, K. J., 1976
Colorado/ New Mexico/ surface water/ stream sediments/ Arizona/ analyses/ Douglas County/ exploration/ Huerfano County/ Summit County/ sampling techniques/ San Juan County/
- Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/
- Carter, W. D., and Gualtieri, J. L., 1958
map/ tectonics/ Colorado/ Utah/ Moffat County/ Logan County/ geology/ Larimer County/ Jackson County/ Boulder County/ Jefferson County/ Clear Creek County/ Glimp County/ Summit County/ Grand County/ Eagle County/ Routt County/ Garfield County/ Rio Blanco County/ sandstone/ ore deposits/ Igneous-metamorphic/
- Decker, E. R., 1969
geophysics/ geothermal/ radioactive materials/ heat flow/ Colorado/ New Mexico/ Summit County/ Jefferson County/ Clear Creek County/ La Plata County/ Igneous-metamorphic/ Roberts tunnel/
- Dings, M. G., 1952
Glacier Mountain area/ Tiptop Peak/ Summit County/ General Teller mine/ reconnaissance/ radioactive materials/ mining districts/ Igneous-metamorphic/ Montezuma area/ ore deposits/
- Dings, M. G., 1953
Glacier Mountain area/ Summit County/ ore deposits/ reconnaissance/ radioactive materials/ mining districts/ Montezuma area/ veins/ General Teller prospect/ Igneous-metamorphic/
- Dwornik, E. J., and Ross, M., 1955
Colorado Plateau/ uranium minerals/ bog iron deposit/ Summit County/ sandstone/ photomicrographs/ electron microscope/ Montrose County/ Jo Dandy mine/ Mesa County/ Matchless mine/ Colorado/ Utah/ South Dakota/ sandstone/ mineralogy/
- Dwornik, E. J., and Ross, M., 1955
Colorado Plateau/ minerals/ uranium/ electron microscope/ photomicrographs/ Montrose County/ Mesa County/ Matchless mine/ Colorado/ Utah/ bog iron deposit/ Summit County/ sandstone/ Jo Dandy mine/ South Dakota/
- Epis, R. C., and Chapin, C. E., 1974
stratigraphy/ Thirtynine Mile volcanic field/ Summit County/ Fremont County/ Igneous-metamorphic/ stratigraphic nomenclature/
- Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
pegmatites/ geology/ mineralogy/ Chaffee County/ Boulder County/ Clear Creek County/ Douglas County/ Fremont County/ Gunnison County/ Jefferson

- County/ Larimer County/ Montrose County/ Park County/ Summit County/ monazite/ thorium/ production/ Front Range/ El Paso County/ Igneous-metamorphic/ Colorado Plateau/ Wyoming/ Utah/
- Hickling, N. L., Phair, G., Moore, R., and others, 1970
Boulder Creek batholith/ uranium/ thorium/ age patterns/ allanite/ mineralogy/ genesis/ paragenesis/ Igneous-metamorphic/ Jefferson County/ Clear Creek County/ Gilpin County/ Boulder County/ Larimer County/ Summit County/ Grand County/ Front Range/ Silver Plume batholith/
- Hurley, P. M., and Fairbairn, H. W., 1957
uranium/ thorium/ zircon/ analyses/ Front Range/ sphene/ apatite/ epidote/ monazite/ granite/ minerals/ Igneous-metamorphic/ pegmatites/ mineralogy/ Climax/ Colorado/ Massachusetts/ Nova Scotia/ Canada/ Germany/ El Paso County/ Eagle County/ Lake County/ Summit County/
- King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ Igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/
- King, R. U., 1953
reconnaissance/ Front Range/ Igneous-metamorphic/ Clear Creek County/ Park County/ Summit County/ geology/ ore deposits/ Boulder County/
- Lovering, T. S., 1934
geology/ ore deposits/ Breckenridge mining district/ Summit County/ mineralogy/ Igneous-metamorphic/
- Lovering, T. S., and Goddard, E. N., 1938
Laramide/ tectonics/ differentiation/ Clear Creek County/ correlation/ geochemistry/ petrology/ Boulder County/ Grand County/ Summit County/ Gilpin County/ Park County/ Larimer County/ Teller County/ Jefferson County/ Front Range/ Igneous-metamorphic/
- Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ Igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/
- Osterwald, F. W., and Dean, B. G., 1956
bibliography/ structural geology/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ Clear Creek County/ Igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/ ore deposits/ tectonics/
- Osterwald, F. W., and Dean, B. G., 1958
ore deposits/ tectonics/ structural geology/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ Igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/
- Phair, George, 1953
Front Range/ Central City district/ ore deposits/ geochemistry/ petrology/ mineralogy/ bostonite/ pitchblende/ Wood mine/ Kirk mine/ Igneous-metamorphic/ Quartz Hill area/ Copper King mine/ Larimer County/ Jamestown district/ Boulder County/ Chalk Mountain rhyolite/ Climax/ beta-uranophane/ uraninite/ Lake County/ Eagle County/ Summit County/
- Phair, George, and Mela, Henry, Jr., 1955
Bergen Park/ Breckenridge district/ Caribou district/ age determination/ Front Range/ Cotopaxi/ Gold Hill/ Guffey/ Laramide/ isotopes/ Lawson-Dumont/ Silver Plume/ El Paso County/ mineralogy/ petrology/ geochemistry/ galena/ Summit County/ Boulder County/ Clear Creek County/ Gilpin County/ Fremont County/ Chaffee County/ Isotopic variation/ Igneous-metamorphic/
- Pierson, C. T., Singewald, Q. D., and Dings, M. G., 1953
Colorado mineral belt/ ore deposits/ exploration/ St. Kevin district/ Summit County/ Chaffee County/ Gunnison County/ Glacier Mountain/ Alma district/ Lake County/ Igneous-metamorphic/ Park County/
- Sims, P. K., 1963
geology/ uranium/ ore deposits/ Front Range/ Gilpin County/ production/ Summit County/ Clear Creek County/ Boulder County/ Grand County/ Central City district/ Idaho Springs district/ Lawson-Dumont-Fall River district/ Freedland-Lamartine district/ gneiss/ thorium/ pegmatites/ alaskite/ bostonite/ Chicago Creek district/ Igneous-metamorphic/ monazite/
- Tweto, Ogden, Bryant, Bruce, and Williams, F. E., 1970
minerals/ resources/ Gore Range-Eagles Nest Primitive Area/ Summit County/ Eagle County/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Summit County/ reconnaissance/ ore deposits/ Igneous-metamorphic/
- Wenrich-Verbeek, K. J., 1976
surface waters/ stream sediments/ exploration/ analyses/ ore deposits/ San Juan County/ Summit County/ Huerfano County/

TELLER COUNTY

- Adams, J. W., Hildebrand, F.A., and Havens, R. G., 1962

- thalenite/ thorium/ rare earths/ Teller County/
pegmatite/ igneous-metamorphic/ Front Range/
- Boos, C. M., and Boos, M. F., 1957
tectonics/ Front Range/ igneous-metamorphic/
Gilpin County/ Larimer County/ Boulder County/
Jefferson County/ geology/ Clear Creek County/
Park County/ Douglas County/ Teller County/
El Paso County/ Fremont County/ Pueblo County/
granite/ schist/ gneiss/ pegmatite/
- Brown, L. J., and Malan, R. C., 1954
ore deposits/ exploration/ Sangre de Cristo/
reconnaissance/ province/ Canyon City embayment/
City Slicker mine/ igneous-metamorphic/ El Paso
County/ Las Animas County/ La Veta Pass/ Alamosa
County/ Costilla County/ sandstone/ Fremont
County/ Huerfano County/ County/ Pueblo County/
Rio Grande County/ Saguache County/ Teller County/
Dakota Sandstone/ Morrison Formation/ Cripple
Creek-Victor district/
- Gallagher, G. L., 1976
Badger Flats area/ Elkhorn thrust area/ Park
County/ Teller County/ Precambrian rocks/ ore
deposits/ Front Range/ uranium favorability/
igneous-metamorphic/
- Gill, J. R., 1953
Colorado/ Montana/ Wyoming/ ore deposits/ carbonaceous
rocks/ coal/ Park County/ Gunnison County/ Delta
County/ Las Animas County/ El Paso County/ Teller
County/ La Plata County/ Montezuma County/ Denver
Basin/ Larimer County/ shale/ Crested Butte/
Laramie Formation/ Colorado Plateau/ Front Range/
- Hall, C. R., 1976
alkalic/ igneous rocks/ igneous-metamorphic/
Gilpin County/ Front Range/ bibliography/ San
Juan County/ Custer County/ Fremont County/
La Plata County/ Montezuma County/ Gunnison
County/ Saguache County/ El Paso County/ Rio
Grande County/ Jefferson County/ Larimer County/
Boulder County/ Colorado Plateau/ Clear Creek
County/ Teller County/
- Hanley, E. S., 1948
El Paso County/ Golden Cycle mill dump/ tailings/
Cripple Creek ore/ Teller County/ Front Range/
igneous-metamorphic/
- Harder, J. O., and Stead, F. W., 1945.
Boulder County/ Gilpin County/ Gunnison County/
Mesa County/ Teller County/ ore deposits/ sandstone/
igneous-metamorphic/ reconnaissance/ Front Range/
Colorado Plateau/ Jefferson County/
- Harder, J. O., and Wyant, D. G., 1944
Central City district/ Cripple Creek/ Jamestown
district/ Nederland district/ Boulder County/
Gilpin County/ Gunnison County/ Teller County/
Clear Creek County/ ore deposits/ igneous-metamorphic/
reconnaissance/ Precambrian rocks/ granite/
veins/ Brown Derby Pegmatite/ Calhoun mine/
Belcher mine/ trace elements/ Front Range/
- Heinrich, E. W., 1958
thorium/ pegmatites/ Lake George area/ South
Platte area/ Douglas County/ Teller County/
- Park County/ igneous-metamorphic/ mineralogy/
analyses/ rare earth minerals/
- King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/
pitchblende/ Boulder County/ Clear Creek County/
Gilpin County/ Chaffee County/ Custer County/
El Paso County/ Fremont County/ Huerfano County/
Jefferson County/ Larimer County/ Teller County/
veins/ igneous-metamorphic/ stream sediments/
spring deposits/ shear zones/ pegmatites/ sandstone/
coal/ Eagle County/ Grand County/ Gunnison County/
Lake County/ Moffat County/ ore deposits/ Douglas
County/ San Miguel County/ Summit County/
- Larsen, E. S., and Phair, George, 1954
uranium/ thorium/ igneous-metamorphic/ Front
Range/ dikes/ stocks/ minerals/ porphyry/ San
Juan Mountains/ calc-alkalic rocks/ San Juan
County/ Ouray County/ Hinsdale County/ Cripple
Creek/ Teller County/ quartz-bostonite/ geochemistry/
- Leonard, B. F., 3d, 1953
pitchblende/ ore deposits/ zoning/ Lake County/
Front Range/ Gilpin County/ Clear Creek County/
igneous-metamorphic/ Pitkin County/ Teller County/
San Juan County/ Coeur d'Alene/ Idaho/
- Lovering, T. S., and Goddard, E. N., 1938
Laramide/ tectonics/ differentiation/ Clear
Creek County/ correlation/ geochemistry/ petrology/
Boulder County/ Grand County/ Summit County/
Gilpin County/ Park County/ Larimer County/
Teller County/ Jefferson County/ Front Range/
igneous-metamorphic/
- Malan, R. C., 1969
intermontane basins/ North Park/ Tertiary/ Middle
Park/ South Park/ Raton basin/ Tallahassee Creek
district/ sandstone/ ore deposits/ Grand County/
Teller County/ Park County/ arkose/ Fremont
County/ mudstone/ Huerfano County/ conglomerate/
genesis/ geology/ Gunnison County/ Saguache
County/ exploration/ water sampling/ Wet Mountains/
High Park/ Cochetopa district/ Marshall Pass/
Thirty-nine Mile field/
- Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson
County/ ore deposits/ Routt County/ Jackson
County/ El Paso County/ Park County/ Grand County/
Front Range/ igneous-metamorphic/ Larimer County/
Eagle County/ Summit County/ Fremont County/
Saguache County/ Teller County/ Chaffee County/
tectonics/ Gilpin County/ Pueblo County/ Custer
County/ Precambrian/ genesis/ structures/
- Osterwald, F. W., 1956
veins/ structural geology/ Precambrian rocks/
Teller County/ structural controls/ ore deposits/
Cordilleran foreland/ igneous-metamorphic/ Gilpin
County/ Front Range/ tectonics/ El Paso County/
Larimer County/ Clear Creek County/
- Sharp, R. R., Jr., 1976
Wyoming/ uranium/ water/ stream sediments/ analyses/
sampling/ Teller County/ Park County/ geochemical
surveys/ NURE program/ hydrogeochemistry/

Sharp, R. R., Jr., and Aamodt, P. L., 1976
hydrogeochemistry/ springs/ South Platte River/
analyses/ natural waters/ South Park/ Tarryall
Creek/ West Fourmile Creek/ Currant Creek/ Badger
Creek/ surface water/ ground water/ Teller County/
Park County/ Badger Flats/ Boomer mine/ sandstone/
Garó deposit/ Igneous-metamorphic/

Sharp, R. R., Jr., and Aamodt, P. L., compilers, 1976
Alaska/ Colorado/ geochemical surveys/ hydrogeochemistry/
Montana/ New Mexico/ exploration/ sampling/
uranium/ Wyoming/ water/ stream sediments/ analyses/
Teller County/ Park County/ South Park/ surface
water/ ground water/

U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Teller County/ reconnaissance/
ore deposits/ sandstone/ Igneous-metamorphic/

Young, Patti, and Mickle, D. G., 1976
uranium/ favorability/ Tertiary rocks/ Badger
Flats/ Eikhorn thrust area/ Park County/ Teller
County/ Igneous-metamorphic/ Front Range/

WASHINGTON COUNTY

Boberg, W. W., 1970
surface water/ streams/ transport/ precipitation/
South Platte River/ geochemistry/ shale/ Jefferson
County/ Douglas County/ Denver County/ Arapahoe
County/ uranium/ Adams County/ Weld County/
Morgan County/ Washington County/ Logan County/
Sedgwick County/

Boberg, W. W., and Runnells, D. D., 1971
surface water/ rivers/ South Platte River/ geochemistry/
uranium/ analyses/ Jefferson County/ Douglas
County/ Denver County/ Arapahoe County/ Adams
County/ Weld County/ Morgan County/ Washington
County/ Logan County/ Sedgwick County/ reconnaissance/

Maxwell, J. C., 1977
elements/ analyses/ hydrogeochemistry/ stream
waters/ stream sediments/ Sterling area/ Fort
Morgan area/ South Platte drainage/ data/ Morgan
County/ Logan County/ Washington County/ sandstone/
ground water/

WELD COUNTY

Boberg, W. W., 1970
surface water/ streams/ transport/ precipitation/
South Platte River/ geochemistry/ shale/ Jefferson
County/ Douglas County/ Denver County/ Arapahoe
County/ uranium/ Adams County/ Weld County/
Morgan County/ Washington County/ Logan County/
Sedgwick County/

Boberg, W. W., and Runnells, D. D., 1971
surface water/ rivers/ South Platte River/ geochemistry/
uranium/ analyses/ Jefferson County/ Douglas

County/ Denver County/ Arapahoe County/ Adams
County/ Weld County/ Morgan County/ Washington
County/ Logan County/ Sedgwick County/ reconnaissance/

Childers, M. O., 1974
uranium/ ore deposits/ Cretaceous/ Tertiary/
sandstone/ Wyoming/ Colorado/ mudstone/ Laramie
Formation/ arkose/ Lance Formation/ Fox Hill
Formation/ Fort Union Formation/ Wind River
Formation/ Wasatch Formation/ Moffat County/
Battle Springs Formation/ Weld County/ stratigraphy/
Cheyenne Basin/ Sand Wash Basin/

De Voto, R. H., Land, C. B., Jr., Blazzard, T.
R., and others, 1972
Colorado/ Wyoming/ Utah/ field trip/ guidebook/
Tertiary/ Cretaceous/ energy resources/ uranium/
sandstone/ ore deposits/ oil/ gas/ oil shale/
coal/ Denver basin/ Dawson Formation/ Laramie
Formation/ Dakota Sandstone/ Morrison Formation/
Weld County/ Douglas County/ Arapahoe County/
Elbert County/ Rocky Mountains/

Denson, N. M., and others, 1959
uranium/ coal/ United States/ Denver basin/
Weld County/ Logan County/ Adams County/ Arapahoe
County/ organics/ sandstone/

Popenoe, Peter, 1965
arkose/ shale/ sandstone/ conglomerate/ Denver
basin/ Larimer County/ Boulder County/ Jefferson
County/ Douglas County/ Elbert County/ Arapahoe
County/ Denver County/ Adams County/ Weld County/
Morgan County/ geology/ aeroradioactivity survey/
conglomerate/ Front Range/

Popenoe, Peter, 1965
Laramie Formation/ Dawson arkose/ Pierre Shale/
Castle Rock Conglomerate/ Denver basin/ Larimer
County/ County/ Boulder County/ Jefferson County/
Douglas County/ Elbert County/ Arapahoe County/
Denver County/ Adams County/ Weld County/ Morgan
County/ gamma-ray logs/ airborne radioactivity/
Front Range/ Fox Hills Sandstone/

Read, H. L., Jr., 1976
Grover uranium deposit/ exploration/ sandstone/
Laramie Formation/ Weld County/ Denver basin/

Reimer, G. M., and Otton, J. K., 1976
helium/ soils/ gases/ ground water/ ore deposits/
Weld County/ sandstone/

Tripp, R. M., 1944
radon/ Fort Collins anticline/ Weld County/
Front Range/ Larimer County/ sandstone/

YUMA COUNTY

Landis, E. R., 1955
Cheyenne County/ Crowley County/ Kiowa County/
Las Animas County/ Pueblo County/ genesis/ Pierre
Shale/ Niobrara Formation/ shale/ Sharon Spring
Member/ black shales/ ore deposits/ radioactivity/
uranium/ Yuma County/ stratigraphy/ uraniferous/

Landis, E. R., 1959

Colorado/ Kansas/ ore deposits/ Cretaceous/
Pierre Shale/ Sharon Springs Member/ radioactivity/
Cheyenne County/ Crowley County/ Kiowa County/
Yuma County/ Las Animas County/ Pueblo County/
shale/ black shale/

Scott, R. C., and Barker, F. B., 1962

data/ uranium/ radium/ ground water/ analyses/
Logan County/ Phillips County/ Prowers County/
Yuma County/ Jefferson County/ Garfield County/
Kit Carson County/ Pitkin County/ Mesa County/
Huerfano County/ Baca County/ Montezuma County/
Front Range/ Colorado Plateau/

Host Rocks

COAL, SHALE

- Anderson, J. J., Feldmann, R. M., and Palmer, D. F., 1975
Colorado/ Kentucky/ maps/ Michigan/ resources/ Montana/ North Dakota/ Ohio/ oil shale/ South Dakota/ tables/ Tennessee/ Utah/ West Virginia/ Wyoming/ data/ coal/ uranium/
- Anonymous, 1975
United States/ energy resources/ coal gasification/ oil shale/ uranium resources/ Colorado/ New Mexico/ Utah/ Montana/ Nevada/ Idaho/ Arizona/ Wyoming/ U.S. Los Alamos Scientific Lab/ Rocky Mountains/
- Bachman, G. O., and Read, C. B., 1952
New Mexico/ reconnaissance/ Huerfano County/ sandstone/ volcanics/ igneous-metamorphic/ shale/ Colorado/
- Bain, G. W., 1956
uranium/ Phosphoria Formation/ Moffat County/ Colorado/ distribution/ analyses/ shale/ Colorado Plateau/ reconnaissance/
- Baker, Arthur, 3d, 1960
Pitch mine/ Saguache County/ limestone/ geology/ veins/ ore deposits/ shale/
- Baker, Arthur, 3d, and Scott, B. C., 1961
Pitch mine/ ore deposits/ ground control/ geology/ Saguache County/ limestone/ veins/ shale/
- Baltz, E. H., Jr., 1953
Colorado/ New Mexico/ ore deposits/ exploration/ occurrence/ carbonaceous rocks/ Paradox Formation/ San Miguel County/ shale/ sandstone/ siltstone/ coal/ Archuleta County/ La Plata County/ Montezuma County/ tuff/ igneous-metamorphic/ Colorado Plateau/ Bald Eagle prospect/
- Baltz, E. H., Jr., 1954
Colorado/ New Mexico/ ore deposits/ exploration/ Archuleta County/ Huerfano County/ radioactive deposits/ carbonaceous shale/ sandstone/ copper/ limestone/ Sangre de Cristo Formation/ Wanakah Formation/ tuff/ Wet Mountains/ Mesaverde Formation/
- Baltz, E. H., Jr., 1954
Colorado/ New Mexico/ ore deposits/ carbonaceous rocks/ shale/ siltstone/ Hermosa Formation/ San Miguel County/ Bald Eagle prospect/ Colorado Plateau/
- Baltz, E. H., Jr., 1955
Colorado/ New Mexico/ ore deposits/ exploration/ carbonaceous rocks/ sandstone/ Mesa County/ Delta County/ Montrose County/ Gunnison County/ Ouray County/ San Miguel County/ Hinsdale County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ coal/ shale/ reconnaissance/ Colorado Plateau/
- Bass, N. W., Eby, J. B., and Campbell, M. R., 1955
Routt County/ Moffat County/ Mount Harris/ Pilot Knob/ Elkhead Creek/ Dayton Peak/ coal/ gas/ oil/ geology/ mineral fuels/
- Bell, K. G., 1954
uranium/ thorium/ sedimentary rocks/ sandstone/ geology/ genesis/ placers/ stream deposits/ mudstone/ Chinle Formation/ Morrison Formation/ shale/ black shale/ carnotite/ uraninite/ Colorado Plateau/
- Bergin, M. J., 1957
Maybell-Lay area/ ore deposits/ Moffat County/ veins/ sandstone/ stratigraphy/ structure/ uranium/ Gertrude mine/ Margie mine/ minerals/ Sugarloaf mine/ conglomerate/ Wasatch Formation/ coal/ sources/ Browns Park Formation/
- Bergin, M. J., and Chisholm, W. A., 1956
Maybell-Lay area/ ore deposits/ Moffat County/ veins/ Browns Park Formation/ sandstone/ stratigraphy/ Gertrude mine/ Margie mine/ minerals/ structure/ uranium/ Sugarloaf mine/ conglomerate/ Wasatch Formation/ coal/ sources/ petrographic studies/ springs/ water/ wells/ streams/ ground water/ hot springs/
- Beroni, E. P., and King, R. U., 1950
Front Range/ minerals/ carnotite/ Mike Doyle mine/ continental carbonaceous shale/ Morrison Formation/ El Paso County/ geology/ ore deposits/ sandstone/
- Beroni, E. P., and King, R. U., 1952
Colorado Springs/ Mike Doyle mine/ ore deposits/ carnotite/ El Paso County/ sandstone/ Front Range/ carbonaceous shale/ Morrison Formation/ geology/
- Beroni, E. P., and McKeown, F. A., 1952
geology/ sandstone/ reconnaissance/ marine black shales/ Entrada Sandstone/ Curtis Formation/ igneous-metamorphic/ Skull Creek district/ Bozo claims/ Fair-U claim/ Lucky Strike claims/ Grand County/ Moffat County/ Routt County/ coal/ copper/ uranium/ limestone/ phosphates/ carnotite/ uraninite/ spring deposits/ migmatite/ granite/ Colorado/ Wyoming/ Utah/
- Berthoud, E. L., 1875
Jefferson County/ Leyden coal mine/ occurrence/ Tertiary/ uranium/ silver/ iron/ dikes/ coal/ Colorado territory/
- Bertrand, Didler, 1950
biogeochemistry/ vanadium/ rocks/ sediments/ water/ soil/ coal/ Jamestown district/ Front Range/ Gilpin County/ igneous-metamorphic/ plants/ animals/ oil/ asphalt/ Clear Creek County/
- Boberg, W. W., 1970
surface water/ streams/ transport/ precipitation/ South Platte River/ geochemistry/ shale/ Jefferson County/ Douglas County/ Denver County/ Arapahoe County/ uranium/ Adams County/ Weld County/ Morgan County/ Washington County/ Logan County/ Sedgwick County/
- Boyd, F. S., Jr., and Bromley, C. P., 1953
veins/ Aspen area/ Smuggler mine/ Pitkin County/ uranium/ breccia/ shale/ limestone/ Chaffee Formation/ Devonian/ Weber Formation/ production/ reconnaissance/

- Boyer, W. H., 1956
ore deposits/ sandstone/ stratigraphy/ Colorado Plateau/ vanadium/ mineralization/ exploration/ White River Plateau/ Rio Blanco County/ conglomerate/ siltstone/ mudstone/ Garfield County/ reconnaissance/ geology/ Morrison Formation/ Chinle Formation/ Burrell mines/ Last Day mine/ Coal Creek mine/ Uranium Peak/ Coal Creek anticline/ Sleepy Cat area/
- Breger, I. A., 1955
uranium/ coal/ Colorado Plateau/ Colorado/ analyses/ vanadium/ carbonaceous material/
- Breger, I. A., 1955
uranium/ vanadium/ coal/ carbonaceous material/ Colorado Plateau/ analyses/ Colorado/ general/
- Breger, I. A., 1956
fossil wood/ coalification/ ore deposits/ Colorado Plateau/ geochemistry/ organic/ uranium/ sandstone/ conglomeratic sandstone/ conglomerate/
- Breger, I. A., 1956
fossil wood/ coalification/ ore deposits/ Colorado Plateau/ geochemistry/ organic/ uranium/ sandstone/ conglomeratic sandstone/ conglomerate/
- Breger, I. A., 1956
coallified wood/ uranium/ ore deposits/ Colorado Plateau/ ash/ analyses/ geochemistry/ sandstone/ Morrison Formation/ Chinle Formation/ lignite/
- Breger, I. A., 1957
organic geochemistry/ coal/ uranium/ Colorado Plateau/ sandstone/ Wyoming/ Colorado/ New Mexico/ Utah/ peat/
- Breger, I. A., 1957
uranium/ carbonaceous materials/ sedimentary rocks/ coal/ South Dakota/ Wyoming/ Colorado Plateau/ Colorado/ sandstone/ New Mexico/ crude oil/ asphaltite/ organic geochemistry/
- Breger, I. A., 1957
uranium/ carbonaceous materials/ sedimentary rocks/ coal/ South Dakota/ Wyoming/ Colorado
- Breger, I. A., 1958
Colorado Plateau/ ore deposits/ exploration/ sandstone/ coallified logs/ organic materials/ fossil wood/ petroleum/ uranium/ geochemistry/ analyses/ sulfur/
- Breger, I. A., 1961
Colorado Plateau/ coal/ uranium/ carbonaceous material/ vanadium/ sandstone/ coallified wood/
- Breger, I. A., 1974
uranium/ ore deposits/ geochemistry/ organic compounds/ coal/ sandstone/ Colorado/ Colorado Plateau/
- Breger, I. A., and Chandler, J. C., 1959
humic substances/ coal/ geochemistry/ geothermometry/ Colorado Plateau/ sediments/ sandstone/ analyses/ Colorado/ coallified logs/ Morrison Formation/ Montrose County/
- Breger, I. A., and Chandler, J. C., 1960
geochemistry/ humic substances/ coal/ coallified logs/ Colorado/ Colorado Plateau/ Montrose County/ Morrison Formation/ analyses/ geothermometry/ sandstone/
- Breger, I. A., and Deul, Maurice, 1952
geochemistry/ mineralogy/ lignites/ uranium/ Leyden mine/ South Dakota/ coal/ chemistry/ Jefferson County/ sandstone/ Texas/ extraction/ Front Range/ Colorado/ Laramie Formation/
- Breger, I. A., and Deul, Maurice, 1953
Colorado Plateau/ ore deposits/ lignite/ coal/
- Berthoud, E. L., 1875
Jefferson County/ Leyden coal mine/ occurrence/ Tertiary/ uranium/ silver/ iron/ dikes/ coal/ Colorado territory/
- Bertrand, Didier, 1950
biogeochemistry/ vanadium/ rocks/ sediments/ water/ soil/ coal/ Jamestown district/ Front Range/ Gilpin County/ igneous-metamorphic/ plants/ animals/ oil/ asphalt/ Clear Creek County/
- Boberg, W. W., 1970
surface water/ streams/ transport/ precipitation/ South Platte River/ geochemistry/ shale/ Jefferson County/ Douglas County/ Denver County/ Arapahoe County/ uranium/ Adams County/ Weld County/ Morgan County/ Washington County/ Logan County/ Sedgwick County/
- Boyd, F. S., Jr., and Bromley, C. P., 1953
veins/ Aspen area/ Smuggler mine/ Pitkin County/ uranium/ breccia/ shale/ limestone/ Chaffee Formation/ Devonian/ Weber Formation/ production/ reconnaissance/
- Boyer, W. H., 1956
ore deposits/ sandstone/ stratigraphy/ Colorado Plateau/ vanadium/ mineralization/ exploration/ White River Plateau/ Rio Blanco County/ conglomerate/ siltstone/ mudstone/ Garfield County/ reconnaissance/ geology/ Morrison Formation/ Chinle Formation/

- uranium/ Colorado/ Wyoming/ South Dakota/ retorts/
asphaltite/ sandstone/
- Breger, I. A., and Deul, Maurice, 1955
Colorado Plateau/ uranium/ carbonaceous materials/
sandstone/ shale/ coalified wood/ asphaltites/
Utah/ New Mexico/ Colorado/ crude oil/
- Breger, I. A., and Deul, Maurice, 1955
carbonaceous rocks/ ore deposits/ Colorado Plateau/
geochemistry/ Temple Mountain/ Utah/ comparisons/
ash/ sandstone/ coal/
- Breger, I. A., and Deul, Maurice, 1956
organic materials/ ore deposits/ Colorado Plateau/
geochemistry/ Colorado/ coalified wood/ sandstone/
Black King mine/ Placerville district/ San Miguel
County/ Utah/ Arizona/ carbonaceous rocks/
- Breger, I. A., and Deul, Maurice, 1956
bituminous substances/ uranium/ coal/ San Miguel
County/ Colorado Plateau/ oil/ organics/ geochemistry/
sandstone/
- Breger, I. A., and Deul, Maurice, 1956
bituminous substances/ uranium/ coal/ San Miguel
County/ geochemistry/ Colorado Plateau/ oil/
organics/ sandstone/
- Breger, I. A., and Moore, R. T., 1955
El Paso County/ Montrose County/ Virgin mine/
coal/ uraninite/ uranyl ion/ geochemistry/ reduction/
Colorado Plateau/ Front Range/ sandstone/ carbonaceous
substances/
- Breger, I. A., and Schopf, J. M., 1956
geochemistry/ coal/ Colorado Plateau/ petrography/
analyses/ Colorado/ Morrison Formation/ sandstone/
coalified wood/
- Brown, L. J., and Easton, W. W., 1955
ore deposits/ reconnaissance/ airborne/ Huerfano
Embayment/ Intrusives/ volcanics/ Las Animas
Arch/ La Veta Pass area/ Huerfano County/ Las
Animas County/ Otero County/ Costilla County/
Pueblo County/ Crowley County/ Kiowa County/
Bent County/ Prowers County/ Baca County/ sandstone/
shale/ claystone/ Igneous-metamorphic/
- Cadigan, R. A., 1957
lithology/ Colorado/ Cutler Formation/ Dolores
Formation/ petrology/ arkose/ quartzite/ Utah/
Colorado Plateau/ ore deposits/ sandstone/ shale/
- Cadigan, R. A., 1972
geochemistry/ anomalies/ alteration/ Moenkopi
Formation/ Skull Creek area/ Moffat County/
shale/ sandstone/ Colorado Plateau/
- Cater, F. W., Jr., 1953
Uravan district/ Mesa County/ Gateway quadrangle/
geology/ carnotite/ Colorado Plateau/ Brushy
Basin member/ Morrison Formation/ Salt Wash
Member/ sandstone/ shale/ Mammoth mine/ Yanaking
No. 1 mine/ minerals/ map/ ore guides/ exploration/
ore deposits/
- Cater, F. W., Jr., 1955
Mesa County/ Gateway district/ sandstone/ Colorado
Plateau/ carnotite/ Morrison Formation/ Salt
Wash Member/ shale/ Mammoth mine/ Yanaking No.
1 mine/ ore deposits/ Gateway quadrangle/ geology/
map/ carnotite/ Brushy Basin Member/
- Chew, R. T., 3d, and Fischer, R. P., 1954
ore deposits/ Rifle district/ Rio Blanco County/
Colorado/ Moffat County/ Maybell-Lay district/
Coal Creek area/ Skull Creek district/ Browns
Park Formation/ Garfield County/ Meeker district/
Utah/ Entrada Sandstone/ sandstone/ Colorado
Plateau/
- Craig, L. C., Holmes, C. N., Freeman, V. L., and
others, 1977
Morrison Formation/ Salt Wash Member/ Brushy
Basin Member/ member/ sandstone/ shale/ Colorado
Plateau/ facies/ maps/ Montrose County/ Mesa
County/ San Miguel County/ Dolores County/
- Davidson, D. F., and Lankin, H. W., 1961
South Dakota/ Nevada/ Wyoming/ Utah/ black shale/
metal content/ analyses/ shale/ Colorado/
- Davidson, D. F., and Lankin, H. W., 1961
shale/ metal content/ United States/ South Dakota/
Nevada/ Wyoming/ Utah/ black shale/ Colorado/
- Davidson, D. F., and Lankin, H. W., 1962
metal content/ black shale/ United States/ Montana/
Idaho/ Utah/ Nevada/ Colorado/ shale/
- De Voto, R. H., Land, C. B., Jr., Blazzard, T.
R., and others, 1972
Colorado/ Wyoming/ Utah/ field trip/ guidebook/
Tertiary/ Cretaceous/ energy resources/ uranium/
sandstone/ ore deposits/ oil/ gas/ oil shale/
coal/ Denver basin/ Dawson Formation/ Laramie
Formation/ Dakota Sandstone/ Morrison Formation/
Weld County/ Douglas County/ Arapahoe County/
Eibert County/ Rocky Mountains/
- Denson, N. M., and others, 1959
uranium/ coal/ United States/ Denver basin/
Weld County/ Logan County/ Adams County/ Arapahoe
County/ organics/ sandstone/
- Deul, Maurice, 1957
geochemistry/ uranium/ shale/
- Deul, Maurice, 1957
- Deul, Maurice, and Ansell, C. S., 1952
mineralogy/ petrology/ geochemistry/ trace elements/
ash/ coal/ uranium/ Colorado/ analyses/ Texas/
North Dakota/ South Dakota/ Jefferson County/
- Deul, Maurice, and Ansell, C. S., 1952
mineralogy/ petrology/ geochemistry/ trace elements/
ash/ coal/ Texas/ Colorado/ North Dakota/ South
Dakota/ minor elements/ uranium/ analyses/ Jefferson
County/
- Deul, Maurice, and Ansell, C. S., 1956
coal/ minor elements/ Jefferson County/ vanadium/
uranium/ ash/ trace elements/ mineralogy/ petrology/
geochemistry/ Colorado/ Texas/ North Dakota/
South Dakota/ analyses/

- Dings, M. G., and Schafer, Max, 1953
veins/ Garfield quadrangle/ Taylor Park quadrangle/
Igneous-metamorphic/ geology/ ore deposits/
Gunnison County/ Chaffee County/ Mount Antero
region/ Bon Ton mine/ Madonna mine/ brannerite/
black (marine carbonaceous) shales/ pegmatites/
reconnaissance/ radiometrics/ Silent Friend
mine/
- Duncan, D. C., compiler, 1953
ore deposits/ black shale/ Weber Formation/
exploration/ shale/ reconnaissance/ Belden Formation/
Paradox Member/ Eagle County/ Garfield County/
Gunnison County/ Hermosa Formation/ San Juan
County/ La Plata County/ Lake County/ Pony Express
Limestone Member/ Ouray County/ Dakota Sandstone/
Archuleta County/ Pierre Shale/ Las Animas County/
Huerfano County/ Vermejo Formation/ Limestone/
sandstone/ Front Range/ Colorado Plateau/
- Ergun, Sabri, Donaldson, W. F., and Breger, I.
A., 1960
Colorado Plateau/ ore deposits/ mineral assemblages/
coal/ macerals/ vitrain/ physical properties/
chemical properties/ uranium/ organics/ sandstone/
- Erickson, R. L., Gott, G. B., Myers, A. T., and
others, 1953
uranium/ metals/ crude oil/ asphalt/ shale/
bituminous substances/ Moffat County/ Jefferson
County/ Rio Blanco County/ sandstone/
- Erickson, R. L., Myers, A. T., and Horr, C. A., 1952
uranium/ metals/ crude oil/ asphalt/ shale/
bituminous substances/ Moffat County/ Jefferson
County/ Rio Blanco County/ sandstone/
- Erickson, R. L., Myers, A. T., and Horr, C. A., 1954
uranium/ metals/ crude oil/ asphalt/ shale/
bituminous substances/ Moffat County/ Jefferson
County/ Rio Blanco County/ sandstone/
- Everhart, D. L., 1951
geology/ veins/ ore deposits/ minerals/ sandstone/
igneous-metamorphic/ mudstone/ Colorado Plateau/
phosphates/ pitchblende/ pegmatite/ carnotite/
Morrison Formation/ Entrada Sandstone/ Shinarump
Member/ Mesa County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ asphalt/
limestone/ black shale/ Belgian Congo/ Canadian
Shield/
- Fassett, J. E., and Hinds, J. S., 1971
geology/ fuel/ resources/ Fruitland Formation/
San Juan basin/ Montezuma County/ La Plata County/
Archuleta County/ Colorado/ uranium/ sandstone/
New Mexico/ shale/ Colorado Plateau/ Kirtland
Shale/
- Finch, W. I., 1956
Colorado Plateau/ ore deposits/ La Plata County/
production/ Triassic/ Chinle Formation/ shale/
sandstone/ conglomerate/ fossil wood/ minerals/
structures/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ Garfield County/ Rio Blanco County/
geology/
- Finch, W. I., 1959
Colorado Plateau/ ore deposits/ production/
Triassic/ Chinle Formation/ fossil wood/ minerals/
structures/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ La Plata County/ sandstone/ conglomerate/
shale/ Garfield County/ Rio Blanco County/ geology/
- Fischer, R. P., Luedke, R. G., Sheridan, M. J.,
and others, 1968
mineral industry/ resources/ minerals/ Ouray
County/ Hinsdale County/ San Miguel County/
production/ Gunnison County/ Beth claim/ veins/
rhyolite porphyry/ black shale/ Precambrian rocks/
pitchblende/ bituminous shale/ igneous-metamorphic/
Uncompahgre primitive area/
- Fix, C. E., 1956
Colorado/ black shale/ bibliography/ geology/
occurrences/ uranium/ shale/
- Fleischer, Michael, and Harder, J. O., 1945
niobium/ tantalum/ minerals/ annotated bibliography/
pegmatites/ placers/ uranium/ mineralogy/ Leyden
coal mine/ Jefferson County/ coal/ quartz-carnotite
veins/ indium/ sandstone/ veins/ igneous-metamorphic/
- Fraser, G. D., 1948
Coal Creek Quartzite/ igneous-metamorphic/ Jefferson
County/ Boulder County/ Front Range/
- Gabelman, J. W., and Boyer, W. H., 1974
exploration/ status/ uranium/ technology/ history/
pitchblende/ radium/ vanadium/ Colorado Plateau/
Front Range/ Montrose County/ Mesa County/ San
Miguel County/ Dolores County/ Moffat County/
Jefferson County/ sandstone/ igneous-metamorphic/
shale/
- Gale, H. S., 1907
Rio Blanco County/ Coal Creek district/ ore
deposits/ carnotite/ areal geology/ coal/ sandstone/
Colorado Plateau/
- George, D'Arcy, 1949
uranium/ thorium/ mineralogy/ hypogene/ supergene/
rare earth minerals/ chemistry/ pegmatites/
sandstone/ placers/ black shales/ igneous-metamorphic/
Colorado Plateau/ Front Range/
- Gill, J. R., 1953
Colorado/ Montana/ Wyoming/ ore deposits/ carbonaceous
rocks/ coal/ Park County/ Gunnison County/ Delta
County/ Las Animas County/ El Paso County/ Teller
County/ La Plata County/ Montezuma County/ Denver
Basin/ Larimer County/ shale/ Crested Butte/
Laramie Formation/ Colorado Plateau/ Front Range/
- Gott, G. B., 1950
Leyden Ridge/ Jefferson County/ Leyden uranium
prospect/ Old Leyden coal mine/ coal/ ore deposits/
geology/ genesis/ reserves/ sandstone/ Front
Range/
- Gott, G. B., Wyant, D. G., and Beroni, E. P., 1952
Front Range/ ore deposits/ shale/ black shale/
lignite/ limestone/ organics/ sandstone/ coal/
Leyden coal mine/ Jefferson County/ uranium/

- Grossman, E. L., 1957
Front Range/ ore deposits/ uranium/ Giplin County/
Clear Creek County/ Jefferson County/ Schwartzwalder
mine/ pitchblende/ igneous-metamorphic/ Ladwig
mine/ Leyden mine/ Boulder County/ coal/ sandstone/
Morrison Formation/ Park County/ Gem Dandy/
- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ genesis/ shale/
sandstone/ siltstone/ clays/ Morrison Formation/
Colorado/ Utah/ Arizona/ New Mexico/ Moenkopi
Formation/ Shinarump Member/ conglomerate/ Mesa
County/ Montrose County/ San Miguel County/
asphaltite/ uraninite/ copper/ Chinle Formation/
mineralization/
- Gruner, J. W., and Smith, D. K., Jr., 1954
South Dakota/ Wyoming/ ore deposits/ uranium/
Colorado Plateau/ sandstone/ siltstone/ shale/
coffinite/ uraninite/ organics/ Hopi Buttes/
diatremes/ Arizona/ Colorado/ New Mexico/ Utah/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/
- Gruner, J. W., Gardiner, L., and Smith, D. K.,
Jr., 1953
ore deposits/ black shale/ genesis/ carbonaceous
materials/ asphaltic materials/ Colorado Plateau/
Colorado/ Utah/ hydrocarbons/ asphaltite/ thucholite/
sandstone/ uranium/ vanadium/ Calamity Mesa/
Mesa County/ Montrose County/
- Gude, A. J., 3d, and McKeown, F. A., 1952
Jefferson County/ ore deposits/ Front Range/
coal/ exploration/ drilling/ Old Leyden coal
mine/ minerals/ carnotite/ Laramie Formation/
reserves/ sandstone/ shale/ veins/
- Gude, A. J., 3d, and McKeown, F. A., 1953
veins/ exploration/ Jefferson County/ Old Leyden
coal mine/ sandstone/ coal/ shale/ drilling/
core/ reserves/ Front Range/
- Gulliotte, G. B., 1944
minerals/ hydrocarbons/ Uinta basin/ Colorado/
Utah/ Garfield County/ Rio Blanco County/ uranium/
Colorado Plateau/ reconnaissance/ ore deposits/
sandstone/ Mesa County/ glauconite/ shale/ Green
River Formation/ oil shale/ native asphalt/
- Hendricks, T. A., 1948
Green River Formation/ shale/ oil shale/ radioactivity/
Garfield County/ analyses/ reconnaissance/ Colorado
Plateau/
- Hill, J. W., 1945
uranium/ reserves/ ore deposits/ exploration/
geology/ Coal Creek anticline/ White River uplift/
Colorado Plateau/ sandstone/ Urio mine/ Riland
N mine/ Riland S mine/ Hess mine/ Quin Burrell
prospect/ Uranium Peak prospect/ Rio Blanco
County/
- Hyden, H. J., 1956
uranium/ crude oil/ petroleum/ Moffat County/
conglomerate/ Triassic/ Jurassic/ Entrada Sandstone/
Morrison Formation/ Archuleta County/ Cretaceous/
Dakota Sandstone/ Mancos Shale/ Morgan County/
- Rio Blanco County/ sandstone/ trace elements/
Shinarump Member/ Fremont County/
- Jones, H. N., 1956
United States/ Colorado/ bibliography/ radioactivity/
organics/ non-coal/ uranium/ bitumens/ pyrobitumens/
uraniferous bituminous substances/
- Kahn, J. S., Groff, D. W., and Griffiths, J. C., 1953
lithology/ cores/ Colorado Plateau/ Morrison
Formation/ petrography/ Salt Wash Member/ sediments/
sandstone/ structure/ Mesa County/ Montrose
County/ San Miguel County/ shale/ siltstone/
Bull Canyon district/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and
others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/
Archuleta County/ Routt County/ Eagle County/
Pitkin County/ Gunnison County/ San Juan County/
Fremont County/ Huerfano County/ Ouray County/
Colorado Plateau/ ore deposits/ Moffat County/
Garfield County/ Mesa County/ Delta County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ La Plata County/ Larimer
County/ Boulder County/ Jefferson County/ Park
County/ Rio Blanco County/ igneous-metamorphic/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and
others, 1952
Front Range/ Jamestown district/ pitchblende/
bostonite/ Colorado Plateau/ sandstone/ coal/
shale/ Moffat County/ Garfield County/ La Plata
County/ Pitkin County/ Gunnison County/ San
Juan County/ Boulder County/ Jefferson County/
Park County/ Delta County/ Fremont County/ Rio
Blanco County/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ Archuleta County/ Routt County/ Huerfano
County/ Ouray County/ Larimer County/ Eagle
County/ igneous-metamorphic/
- Kehn, T. M., 1955
bibliography/ geology/ shale/ uranium/ coal/
lignite/ Leyden Coal mine/ Jefferson County/
carnotite/ Moffat County/ glauconite/ Jackson
County/ Front Range/ ore deposits/ Great Plains/
- Kehn, T. M., 1957
ore deposits/ coal/ shale/ lignite/ Great Plains/
bibliography/ uranium/ geology/ Jefferson County/
carnotite/ Moffat County/ glauconite/ Jackson
County/ Front Range/ Leyden coal mine/
- Kidman, R. B., 1975
Arizona/ energy consumption/ Colorado/ Idaho/
New Mexico/ buildings/ coal/ diagrams/ energy
sources/ energy supplies/ hydroelectric power/
industry/ natural gas/ petroleum/ power generation/
transportation systems/ uranium/ Utah/ Wyoming/
ore deposits/
- King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/
pitchblende/ Boulder County/ Clear Creek County/
Giplin County/ Chaffee County/ Custer County/
El Paso County/ Fremont County/ Huerfano County/
Jefferson County/ Larimer County/ Teller County/
veins/ igneous-metamorphic/ stream sediments/

- spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/
- Landis, E. R., 1954
Colorado/ Kansas/ exploration/ black shale/ Cretaceous/ Cheyenne County/ Kiowa County/ Crowley County/ Las Animas County/ map/ Pierre Shale/
- Landis, E. R., 1955
Cheyenne County/ Crowley County/ Kiowa County/ Las Animas County/ Pueblo County/ genesis/ Pierre Shale/ Niobrara Formation/ shale/ Sharon Spring Member/ black shales/ ore deposits/ radioactivity/ uranium/ Yuma County/ stratigraphy/ uraniferous/
- Landis, E. R., 1956
ground water/ surface water/ Kansas/ Colorado/ Oklahoma/ shale/ tuff/ sandstone/ Smoky Hill River valley/ Rule Creek basin/ Baca County/ siltstone/ uranium/ claystone/ Bent County/ Las Animas County/ Kiowa County/ Cheyenne County/ Crowley County/ Lincoln County/ springs/ wells/ Muddy Creek/ geochemistry/
- Landis, E. R., 1957
Colorado/ Kansas/ New Mexico/ Oklahoma/ exploration/ geochemistry/ ground water/ surface water/ tuff/ shale/ sandstone/ wells/ springs/ Cheyenne County/ Bent County/ Las Animas County/ Kiowa County/ Crowley County/ Lincoln County/ uranium/ Baca County/
- Landis, E. R., 1959
Colorado/ Kansas/ ore deposits/ Cretaceous/ Pierre Shale/ Sharon Springs Member/ radioactivity/ Cheyenne County/ Crowley County/ Kiowa County/ Yuma County/ Las Animas County/ Pueblo County/ shale/ black shale/
- Leaming, G. F., 1971
economic development/ Arizona/ economic analysis/ New Mexico/ Utah/ Colorado/ economic conditions/ minerals/ mining/ fuels/ industries/ iron/ uranium/ silver/ copper/ titanium/ coal/ natural gas/ oil shale/ sandstone/ ore deposits/ Colorado Plateau/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/
- Lindgren, Waldemar, 1933
copper/ lead/ vanadium/ uranium/ sandstone/ shale/ carnotite/ roscoelite/ Colorado Plateau/ Dolores County/ San Miguel County/ Mesa County/ Montrose County/ Entrada Sandstone/ La Plata Sandstone/ McElmo Formation/ genesis/ Gilpin County/ igneous-metamorphic/ ore deposits/ Front Range/
- McKelvey, V. E., 1953
Colorado Plateau/ Dolores County/ Mesa County/ exploration/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ phosphates/ shale/ placers/
- McKelvey, V. E., 1953
veins/ Dolores County/ Mesa County/ exploration/ sandstone/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ phosphates/ shale/ placers/
- McKelvey, V. E., 1954
Dolores County/ Mesa County/ exploration/ carnotite/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ veins/ Colorado Plateau/ phosphates/ shale/ placers/
- McKelvey, V. E., 1955
ore deposits/ exploration/ veins/ bituminous substances/ coal/ sandstone/ phosphates/ United States/ Dolores County/ Mesa County/ Gilpin County/ igneous-metamorphic/ Clear Creek County/ Montrose County/ San Miguel County/ Front Range/ Colorado Plateau/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1955
genesis/ uranium/ ore deposits/ veins/ bituminous substances/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ Montrose County/ San Miguel County/ Mesa County/ igneous-metamorphic/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1955
veins/ bituminous substances/ genesis/ uranium/ ore deposits/ igneous-metamorphic/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ San Miguel County/ Montrose County/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ ore deposits/ migmatites/ sandstone/ shale/ igneous-metamorphic/ Colorado/ Colorado Plateau/ San Juan County/ San Miguel County/ Jefferson County/ Montrose County/ Old Leyden mine/ coal/ Gilpin County/ Clear Creek County/ uranium/ Front Range/ genesis/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ Colorado/ genesis/ uranium/ ore deposits/ pegmatites/ migmatites/ San Miguel County/ sandstone/ coal/ shale/ Front Range/ Colorado Plateau/ San Juan County/ replacement/ Jefferson County/ Montrose County/ Old Leyden mine/ Mesa County/ Gilpin County/ igneous-metamorphic/ phosphorites/ Clear Creek County/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/

- McKelvey, V. E., Page, L. R., Fischer, R. P., 1952
uranium/ ore deposits/ igneous-metamorphic/
sandstone/ shale/ phosphorites/ Colorado Plateau/
Colorado/ Front Range/
- McKeown, F. A., and Gude, A. J., 3d, 1951
minerals/ carnotite/ clay/ coal/ lignite/ sandstone/
Laramie Formation/ Front Range/ Jefferson County/
ore deposits/ Old Leyden mine/ reserves/ geology/
structure/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Front Range/ exploration/
Morrison Formation/ phosphates/ shale/ sandstone/
igneous-metamorphic/ Mesa County/ Montrose County/
San Miguel County/ Montezuma County/ Dolores
County/ Gilpin County/ Clear Creek County/ Garfield
County/ Boulder County/
- Moore, G. W., 1953
Boulder County/ Centennial coal mine/ Crested
Butte/ Rio Blanco County/ uranium/ coal/ Gunnison
County/ aqueous solutions/ uranium extraction/
Kebler mine/
- Moore, G. W., 1954
uranium extraction/ uranium/ coal/ Boulder County/
Centennial coal mine/ Crested Butte/ Kebler
mine/ Rio Blanco County/ Gunnison County/ aqueous
solutions/
- Murray, D. K., 1976
energy resources/ map/ uranium/ coal/ oil/ gas/
geothermal/ Colorado/ Colorado Plateau/ Front
Range/ sandstone/ igneous-metamorphic/
- Narfen, P. F., Crawford, J. E., and Butler, A.
P., Jr., 1951
Clear Creek County/ Garfield County/ Jefferson
County/ Montrose County/ Rio Blanco County/
Dakota Sandstone/ Mesa County/ Fountain Formation/
Green River Formation/ Laramie Formation/ Hermosa
Formation/ Paradox Member/ shales/ sandstone/
Front Range/ Colorado Plateau/
- Nash, A. L., 1953
Utah/ Colorado/ Montrose County/ Colorado Plateau/
Morrison Formation/ Salt Wash Member/ Chinle
Formation/ Mossback Member/ Cutler Formation/
San Miguel County/ Skeln Mesa/ reconnaissance/
sandstone/ siltstone/ shale/ stratigraphy/ geology/
airborne surveying/
- Nash, A. L., and Brown, L. J., 1954
Canon City embayment/ airborne radiometrics/
Pueblo County/ shale/ clay/ George Avery Ranch/
Carnotite/ analyses/ Hoyt Adkins Ranch/ Burgess
prospect/ El Paso County/ Dawson Arkose/ sandstone/
Dakota Formation/ Fremont County/ geology/ Morrison
Formation/ Front Range/
- Noblinger, W. D., Gardner, C. L., Searl, M. F.,
and others, 1960
reserves/ resources/ uranium/ coal/ analyses/
United States/ Colorado/ energy/
- Noble, E. A., and Arnes, E. O., Jr., 1957
Utah basin/ ore deposits/ exploration/ Chinle
Formation/ Curtis Formation/ Morrison Formation/
Mesaverde Group/ Green River Formation/ Uinta
Formation/ Moffat County/ Rio Blanco County/
sandstone/ mudstone/ siltstone/ limestone/ shale/
Skull Creek district/ conglomerate/ Weber Sandstone/
Colorado Plateau/
- Olson, J. C., 1977
uranium/ Pitch mine/ Gunnison County/ Saguache
County/ Chaffee County/ map/ igneous-metamorphic/
limestone/ shale/ ore deposits/ geology/
- Page, L. R., Stocking, H. E., and Smith, H. B.,
compilers, 1956
Colorado Plateau/ Front Range/ Gunnison County/
limestone/ Montrose County/ Jefferson County/
arkosa/ sandstone/ shale/ geology/ uranium/
thorium/ exploration/ igneous-metamorphic/ San
Miguel County/ geochemistry/ mineralogy/ conglomerate/
- Piller, Richard, and Adams, J. A. S., 1959
ore deposits/ resources/ Cretaceous/ Mancos
Shale/ thorium/ Colorado Plateau/ uranium/ analyses/
shale/ geochemistry/
- Piller, Richard, and Adams, J. A. S., 1962
ore deposits/ resources/ Cretaceous/ Mancos
Shale/ thorium/ Colorado Plateau/ uranium/ analyses/
shale/ geochemistry/
- Pommer, A. M., 1958
Colorado Plateau/ ore deposits/ uraninite/ genesis/
simulation/ uranium/ Montrose County/ analyses/
coal/ sandstone/
- Popnoe, Peter, 1965
arkose/ shale/ sandstone/ conglomerate/ Denver
basin/ Larimer County/ Boulder County/ Jefferson
County/ Douglas County/ Elbert County/ Arapahoe
County/ Denver County/ Adams County/ Weld County/
Morgan County/ geology/ aeroradioactivity survey/
conglomerate/ Front Range/
- Popnoe, Peter, 1965
Laramie Formation/ Dawson arkose/ Pierre Shale/
Castle Rock Conglomerate/ Denver basin/ Larimer
County/ Boulder County/ Jefferson County/ Douglas
County/ Elbert County/ Arapahoe County/ Denver
County/ Adams County/ Weld County/ Morgan County/
gamma-ray logs/ airborne radioactivity/ Front
Range/ Fox Hills Sandstone/
- Raines, G. L., 1971
Gunnison County/ Saguache County/ sandstone/
limestone/ shale/ igneous-metamorphic/ Sargents
area/ geology/ veins/
- Rankama, Kalvero, and Sahama, T. G., 1950
uranium/ vanadium/ geochemistry/ igneous-metamorphic/
biogeochemistry/ coal/ shale/ sandstone/ Colorado/
ore deposits/ carnotite/ uraninite/ Utah/ Colorado
Plateau/
- Rankama, Kalvero, and Sahama, T. G., 1950
vanadium/ geochemistry/ igneous-metamorphic/
sediments/ sandstone/ carnotite/ clays/ shale/

- ore deposits/ Utah/ Colorado/ uranium/ Colorado Plateau/
- Ranspot, H. W., 1958
Indian Creek area/ ore deposits/ geology/ Gunnison County/ Saguache County/ uranium/ shale/ sandstone/ limestone/ igneous-metamorphic/ limestone/ Pitch mine/
- Schlottmann, J. D., and Brown, L. J., 1955
uranium/ ore deposits/ radioactivity/ stratigraphy/ geology/ drilling/ Troublesome area/ Middle Park/ Grand County/ exploration/ Beaver Creek area/ sandstone/ clay/ conglomerate/ mineralization/ Oligocene/ structure/ regolith/ Cretaceous/ Pierre Shale/ Precambrian rocks/ airborne reconnaissance/ Troublesome Formation/
- Schmidt-Collerus, J. J., 1967
uranium/ organic matter/ geochemistry/ literature review/ sandstone/ ore deposits/ coal/
- Schmidt-Collerus, J. J., 1969
uranium/ organic matter/ geochemistry/ sandstone/ coal/ ore deposits/
- Schnabel, R. W., 1955
veins/ marine black shales/ sandstone/ ore deposits/
- Schopf, J. M., and Gray, R. J., 1954
microscopic studies/ uranium/ coal/ organics/
- Shawe, D. R., 1968
fossils/ lithology/ Mancos Shale/ Slick Rock district/ San Miguel County/ shale/ Colorado Plateau/
- Shawe, D. R., 1973
Slick Rock district/ ore deposits/ red beds/ alteration/ deposition/ genesis/ vanadium/ uranium/ sandstone/ carbonaceous materials/ San Miguel County/ Mancos Shale/ Morrison Formation/ pore waters/ Colorado Plateau/
- Shawe, D. R., 1974
alteration/ red beds/ uranium/ vanadium/ ore deposits/ Colorado Plateau/ Slick Rock district/ San Miguel County/ sandstone/ Mancos Shale/ Morrison Formation/ carbonaceous material/ Dolores County/ genesis/ deposition/ pore waters/
- Slaughter, A. L., and Clabaugh, S. E., 1945
Jefferson County/ trace elements/ coal/ carnotite/ Front Range/ igneous-metamorphic/
- Stewart, J. H., Poole, F. G., and Wilson, R. F., 1958
stratigraphy/ genesis/ lithologic units/ Triassic/ Colorado Plateau/ shale/ sandstone/ limestone/
- Stewart, J. H., Poole, F. G., Wilson, R. F., and others, 1972
stratigraphy/ genesis/ Colorado Plateau/ Chinle Formation/ Triassic strata/ sandstone/ conglomerate/ petrology/ shale/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1955
Uravan district/ Jefferson County/ Larimer County/ Mesa County/ Montrose County/ San Miguel County/
- coffinite/ Copper King mine/ La Sal No. 2 mine/ Matchless mine/ Old Leyden coal mine/ Peanut mine/ Robinson property/ pyrobitumins/ Weatherly property/ Wild Steer mine/ veins/ sandstone/ Cutler Formation/ Dolores Formation/ mineralogy/ Laramie Formation/ Morrison Formation/ Salt Wash Member/ igneous-metamorphic/ Colorado Plateau/ Front Range/
- Swanson, V. E., 1956
marine black shales/ uranium/ United States/ distribution/ shale/ Sedgwick County/ Colorado Plateau/ Pierre Shale/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/
- Swanson, V. E., 1956
marine black shales/ uranium/ United States/ distribution/ shale/ Sedgwick County/ Colorado Plateau/ Pierre Shale/ Sharon Springs Member/ Paradox Member/ Hermosa Formation/
- Swanson, V. E., 1958
oil/ uranium/ black shales/
- Swanson, V. E., 1958
oil/ uranium/ black shales/
- Swanson, V. E., 1960
oil yield/ uranium/ black shale/ Green River Formation/ Moffat County/ Rio Blanco County/ shale/ Colorado Plateau/
- Tourtelot, H. A., 1955
Boulder County/ Cheyenne County/ Crowley County/ Jefferson County/ Kiowa County/ Larimer County/ Pueblo County/ mineralogy/ petrology/ geochemistry/ black shale/ alteration/ White River group/ uranium/ radioactivity/ Cretaceous shales/ Great Plains/ El Paso County/
- Tourtelot, H. A., 1956
marine black shales/ Boulder County/ Crowley County/ El Paso County/ Jefferson County/ Kiowa County/ Larimer County/ Pueblo County/ petrology/ geochemistry/ black shale/ alteration/ White River group/ uranium/ radioactivity/ Cretaceous shales/ Great Plains/ Cheyenne County/ mineralogy/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Jefferson County/ reconnaissance/ ore deposits/ Front Range/ sandstone/ sandstone/ coal/ igneous-metamorphic/
- U.S. Geological Survey, 1948
Green River Formation/ oil shale/ radioactivity/ Garfield County/ Colorado Plateau/
- U.S. Geological Survey, 1950
shales/ radioactivity/ carbonaceous shales/ Jefferson County/ Rio Blanco County/ oil shale/ Front Range/ Colorado Plateau/ bituminous shales/
- U.S. Geological Survey, 1953
geologic mapping/ Colorado Plateau/ Front Range/ carbonaceous rocks/ geochemistry/ reconnaissance/ black shales/ sandstone/ igneous-metamorphic/

- geology/ ore deposits/ Gilpin County/ Clear Creek County/ Jefferson County/ Montrose County/ Mesa County/ San Miguel County/ Gunnison County/
- U.S. Geological Survey, 1953
Colorado Plateau/ Front Range/ sandstone/ coal/ springs/ igneous-metamorphic/ shale/ Gilpin County/ Clear Creek County/ Jefferson County/ Boulder County/ Custer County/ thorum/ Gunnison County/ La Plata County/ San Juan County/ Ouray County/
- U.S. Geological Survey, 1954
Colorado Plateau/ geophysics/ Front Range/ sandstone/ mineralogy/ coal/ shales/ reconnaissance/ petrology/ stratigraphy/ sandstone/ igneous-metamorphic/ geology/ ore deposits/
- U.S. Geological Survey, 1954
Front Range/ Colorado Plateau/ stratigraphy/ botanical prospecting/ mineralogy/ Ralston Buttes district/ black shale/ reconnaissance/ analyses/ Jefferson County/ sandstone/ igneous-metamorphic/
- Vine, J. D., 1956
uranium/ coal/ Old Leyden coal mine/ Jefferson County/ Cretaceous/ Laramie Formation/ shale/ Front Range/
- Vine, J. D., 1962
geology/ uranium/ coal/ carbonaceous rocks/ Front Range/ Jefferson County/
- Vine, J. D., and Fløge, R. F., Jr., 1953
ore deposits/ exploration/ carbonaceous rocks/ Colorado/ Utah/ Idaho/ Wyoming/ coal/ Moffat County/ Garfield County/ Eagle County/ Mesa County/ Colorado Plateau/ sandstone/ coal/ shale/ Jackson County/ Montrose County/
- Vine, J. D., and Moore, G. W., 1952
Middle Park/ North Park/ Grand County/ Jackson County/ Moffat County/ Rio Blanco County/ Routt County/ coal/ Wyoming/ occurrences/ Idaho/ Colorado/ Colorado Plateau/ ore deposits/ sandstone/ carbonaceous rocks/
- Walker, G. W., 1956
ore deposits/ host rocks/ alteration/ veins/ sandstone/ igneous-metamorphic/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ dolomite/ Pitkin County/ Larimer County/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/
- Walker, G. W., 1963
alteration/ veins/ igneous-metamorphic/ sandstone/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ Cochetopa district/ ore deposits/ Placerville district/ San Miguel County/ Larimer County/ Central City district/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/
- Walker, G. W., and Osterwald, F. W., 1956
ore deposits/ veins/ fluorite/ Front Range/
- Gilpin County/ coal/ Jefferson County/ Placerville district/ San Miguel County/ Clear Creek County/ sandstone/ igneous-metamorphic/ Colorado Plateau/ Cochetopa district/ Saguache County/ Powderhorn district/ Custer County/ Chaffee County/
- Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ genesis/ Placerville district/ transportation/ deposition/ depositional environments/ Clear Creek County/ Gilpin County/ Saguache County/ Jefferson County/ Cochetopa district/ Front Range/ San Miguel County/ Leyden coal mine/ Larimer County/ Boulder County/ sandstone/ igneous-metamorphic/
- Webber, B. N., 1943
Colorado Plateau/ uranium/ ore deposits/ geology/ carnotite/ sandstone/ stratigraphy/ vanadium/ uranium/ reserves/ Coal Creek anticline/ White River uplift/ Rio Blanco County/ mineralization/ maps/ Coal Creek anticline district/
- Weir, J. E., and Dinwiddie, G. A., 1973
Green River Formation/ Piceance Creek basin/ drilling/ fluids/ ground water/ Rio Blanco County/ oil shale/ shale/ exploration/ hydraulic testing/ Colorado Plateau/
- Wells, J. D., Sheridan, P. M., and Albee, A. L., 1961
metamorphism/ structure/ geologic history/ Coal Creek area/ Front Range/ igneous-metamorphic/ Jefferson County/ Clear Creek County/
- Wells, J. D., Sheridan, P. M., and Albee, A. L., 1964
Precambrian/ quartzite/ schist/ Coal Creek/ Front Range/ igneous-metamorphic/ Jefferson County/ Clear Creek County/ Idaho Springs Formation/
- Western States Water Council, 1974
Arizona/ California/ coal/ Colorado/ consumption rates/ energy sources/ environmental effects/ geothermal energy/ hydroelectric power plants/ Idaho/ leasing/ Montana/ Nevada/ New Mexico/ Oregon/ petroleum/ processing/ regulations/ uranium/ Utah/ Washington/ water resources/ Wyoming/ natural gas/
- Wilmarth, V. R., and Vickers, R. C., 1953
Colorado Plateau/ geology/ organic material/ sandstone/ shale/ San Miguel County/ Placerville district/ minerals/ uranophane/ asphaltite/ hydrocarbons/ pyrobitumen/ thucholite/ Barbara J claim/ ore deposits/ New Discovery lode/ Robinson property/ Weatherly property/ White Spar claims/ Black King claims/ Cutler Formation/ economic geology/ Dolores Formation/
- Wilson, J. H., 1923
Denver area/ ore deposits/ carnotite/ sandstone/ Jefferson County/ Leyden coal mine/ Front Range/ Laramie Formation/
- Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/ ore deposits/ Jefferson County/ San Miguel County/ Saguache County/ Park County/ Boulder County/ Montrose County/ Moffat County/ sandstone/ Front Range/ coal/ igneous-metamorphic/

Wood, H. B., 1956

Colorado Plateau/ genesis/ host rocks/ uranium/
sandstone/ production/ geology/ Boulder County/
Jefferson County/ Saguache County/ Park County/
Montrose County/ San Miguel County/ Moffat County/
coal/ igneous-metamorphic/ Front Range/

Wyant, D. G., Beroni, E. P., and Granger, H. C., 1951

Colorado Plateau/ uranium/ ore deposits/ conglomerate/
shale/ sandstone/

Zareski, G. K., 1954

Colorado/ Utah/ Wray Mesa/ ore deposits/ Morrison
Formation/ exploration/ reconnaissance/ Montrose
County/ stratigraphy/ structure/ Brushy Basin
Member/ Salt Wash Member/ sandstone/ carnotite/
uranium/ vanadium/ shale/ mudstone/ Colorado
Plateau/

IGNEOUS, METAMORPHIC

- Adams, J. A. S., 1954
volcanic rocks/ uranium/ thorium/ analyses/
Larimer County/ igneous-metamorphic/ Grand County/
Rocky Mountain National Park/ Silverton/ San
Juan County/
- Adams, J. W., 1948
Chaffee County/ Gunnison County/ Mount Antero/
Igneous-metamorphic/ beryl/ beryllium/ White
Mountain/
- Adams, J. W., 1951
Chaffee County/ Carbonate Mountain/ Garfield
quadrangle/ Mount Antero region/ brannerite/
California mine/ veins/ molybdenum/ pegmatites/
Igneous-metamorphic/ aquamarine/ White Mountain/
granite/ quartz monzonite/ beryllium/
- Adams, J. W., 1953
veins/ pegmatite/ quartz/ beryllium/ Mount Antero/
White Mountain/ granite/ quartz monzonite/ California
mine/ brannerite/ aquamarine/ molybdenum/ Chaffee
County/ Igneous-metamorphic/
- Adams, J. W., 1953
Jefferson County/ ore deposits/ distribution/
gneiss/ genesis/ wallrock alteration/ Golden
Gate Canyon/ Ralston Creek/ igneous-metamorphic/
Front Range/
- Adams, J. W., 1953
Jefferson County/ ore deposits/ distribution/
uranium/ genesis/ wall rocks/ Golden Gate Canyon/
Ralston Buttes/ Schwartz mine (Schwartzwalder
Mine)/ Igneous-metamorphic/ Front Range/
- Adams, J. W., 1954
Jefferson County/ ore deposits/ distribution/
genesis/ wallrock alteration/ uranium/ paragenesis/
Golden Gate Canyon/ Ralston Creek area/ hornblende
gneiss/ Igneous-metamorphic/ Idaho Springs Formation/
copper/ Union Pacific prospect/ pitchblende/
Schwartzwalder mine/ Nigger shaft/ North Star
property/ Front Range/
- Adams, J. W., and Sharp, W. N., 1970
thalenite/ White Cloud pegmatite/ South Platte
district/ Jefferson County/ Igneous-metamorphic/
rare earths/ thorium/ Front Range/
- Adams, J. W., and Sharp, W. N., 1972
thalenite/ allanite/ yttrium/ Jefferson County/
rare earths/ thorium/ pegmatite/ White Cloud
pegmatite/ Igneous-metamorphic/ South Platte
district/ Front Range/
- Adams, J. W., and Staatz, M. H., 1973
rare earths/ thorium/ minerals/ resources/ Colorado/
Igneous-metamorphic/ Front Range/
- Adams, J. W., and Stugard, Frederick, Jr., 1953
Jefferson County/ ore deposits/ evaluation/
uranium/ Igneous-metamorphic/ Golden Gate Canyon/
hornblende gneiss/ paragenesis/ Front Range/
- Adams, J. W., and Stugard, Frederick, Jr., 1954
Front Range/ Golden Gate Canyon/ Jefferson County/
mineralogy/ petrology/ geochemistry/ breccia
reefs/ wall-rock control/ minerals/ pitchblende/
Buckman property/ Golden Gate property/ Union
Pacific prospect/ Laramide faults/ veins/ hornblende
gneiss/ Igneous-metamorphic/
- Adams, J. W., and Stugard, Frederick, Jr., 1956
veins/ Jefferson County/ wall-rock control/
pitchblende/ uranium/ Golden Gate Canyon/ Union
Pacific prospect/ Igneous-metamorphic/ Front
Range/ ore deposits/
- Adams, J. W., and Stugard, Frederick, Jr., 1956
Jefferson County/ wall-rock control/ pitchblende/
uranium/ Golden Gate Canyon/ veins/ Union Pacific
prospect/ Igneous-metamorphic/ ore deposits/
Front Range/
- Adams, J. W., and Stugard, Frederick, Jr., 1956
Golden Gate Canyon/ ore deposits/ wall-rock
alteration/ stratigraphic controls/ Jefferson
County/ veins/ igneous-metamorphic/ Front Range/
mineralogy/ petrology/ geochemistry/ breccia
reefs/ genesis/ wall-rock influence/ Buckman
property/ Union Pacific prospect/ hornblende
gneiss/ Laramide faults/
- Adams, J. W., Gude, A. J., 3d, and Beroni, E. P.,
1953
Jefferson County/ Golden Gate Canyon/ Ralston
Creek/ pitchblende/ torbernite/ Buckman property/
Hoffmeister prospect/ North Star mine/ Schwartz
mine (Schwartzwalder mine)/ Union Pacific prospect/
Ladwig properties/ shear zone/ geology/ ore
deposits/ Front Range/ Igneous-metamorphic/
Golden Gate property/ Nigger shaft/ fault breccia/
- Adams, J. W., Gude, A. J., 3d, and Beroni, E. P.,
1953
ore deposits/ Golden Gate Canyon area/ Ralston
Creek area/ Jefferson County/ Igneous-metamorphic/
uranium/ occurrence/ Front Range/ genesis/ hornblende
gneiss/ wall-rock alteration/ veins/ pitchblende/
- Adams, J. W., Hildebrand, F.A., and Havens, R.
G., 1962
thalenite/ thorium/ rare earths/ Teller County/
pegmatite/ Igneous-metamorphic/ Front Range/
- Aldorf, P. R., 1916
Gipin County/ ore deposits/ pitchblende/ occurrence/
properties/ areal geology/ economics/ veins/
uranium/ Igneous-metamorphic/ Clear Creek County/
gneiss/ schist/ pegmatite/ Front Range/
- Anonymous, 1873
Gipin County/ ore deposits/ pitchblende/ evaluation/
Igneous-metamorphic/ Front Range/
- Anonymous, 1913
carnotite/ pitchblende/ radium/ Gipin County/
Quartz Hill/ Meeker/ Skull Creek/ Utah/ Colorado/
Moffat County/ Paradox Valley/ Colorado Plateau/
uranium/ sandstone/ Igneous-metamorphic/ Rio
Blanco County/ Front Range/ San Miguel County/

- Anonymous, 1914
pitchblende/ Kirk mine/ Gilpin County/ carnotite/
igneous-metamorphic/ Chihuahua/ Mexico/ molybdenum/
tungsten/ Front Range/ uranium/ ore deposits/
- Anonymous, 1920
ore deposits/ resources/ pitchblende/ Boulder
County/ igneous-metamorphic/ Front Range/
- Anonymous, 1950
Pagosa Springs/ Mineral County/ Blanco Basin/
West Fork/ igneous-metamorphic/
- Anonymous, 1950
development/ Boulder County/ igneous-metamorphic/
Caribou mine/
- Anonymous, 1950
Boulder County/ igneous-metamorphic/ Caribou
mine/ development/ Front Range/
- Anonymous, 1950
Clear Creek County/ pitchblende/ igneous-metamorphic/
Front Range/
- Anonymous, 1950
Archuleta County/ Oil Creek Canyon/ Mineral
County/ igneous-metamorphic/ ore deposits/
- Anonymous, 1951
Gunnison County/ rare earths/ pegmatites/ Gold
Creek/ Brown Derby mine/ igneous-metamorphic/
- Anonymous, 1951
Gunnison County/ rare earths/ pegmatites/ beryllium/
igneous-metamorphic/
- Anonymous, 1951
milling/ general/ monazite/ igneous-metamorphic/
- Anonymous, 1951
Turret district/ rare earths/ igneous-metamorphic/
Pitkin County/
- Anonymous, 1951
Larimer County/ Copper King mine/ pitchblende/
igneous-metamorphic/ ore deposits/ Front Range/
- Antony, J., 1967
Front Range/ Jefferson County/ Tucker Gulch
area/ map/ geology/ igneous-metamorphic/
- Armbrustmacher, T. J., 1975
thorium/ Wet Mountains/ Fremont County/ Custer
County/ igneous-metamorphic/ veins/ ore deposits/
- Armbrustmacher, T. J., 1976
thorium/ Wet Mountains/ Fremont County/ Custer
County/ igneous-metamorphic/ veins/ ore deposits/
- Armstrong, F. C., 1952
pitchblende/ ore deposits/ Quartz Hill/ Gilpin
County/ Clear Creek County/ igneous-metamorphic/
uranium/ ore grade/ veins/ Front Range/ Central
City district/
- Armstrong, F. C., 1952
pitchblende/ ore deposits/ Quartz Hill/ Central
City district/ Gilpin County/ Clear Creek County/
igneous-metamorphic/ gneiss/ schist/ pegmatite/
Front Range/
- Armstrong, F. C., 1953
pitchblende/ Quartz Hill/ Central City district/
Gilpin County/ igneous-metamorphic/ uranium/
Front Range/ production/ geology/ ore deposits/
gneiss/ schist/ pegmatite/ veins/
- Armstrong, F. C., 1974
uranium/ resources/ "porphyry" uranium deposits/
ore deposits/ igneous-metamorphic/ uraninite/
Rossing/
- Armstrong, F. C., 1975
uranium/ distribution/ granite/ igneous-metamorphic/
Colorado/
- Bachman, G. O., and Read, C. B., 1952
New Mexico/ reconnaissance/ Huerfano County/
sandstone/ volcanics/ igneous-metamorphic/ shale/
Colorado/
- Ballile, W. N., 1962
pegmatites/ feldspar/ rare earths/ Boulder County/
Chaffee County/ Clear Creek County/ Douglas
County/ El Paso County/ Fremont County/ Gunnison
County/ Jefferson County/ Larimer County/ Park
County/ igneous-metamorphic/ Front Range/
- Bain, H. F., 1914
Idaho Springs/ Clear Creek County/ springs/
radium/ Front Range/ igneous-metamorphic/
- Baker, K. E., 1953
uranium/ Ralston Creek mine/ Schwartzwalder
mine/ Jefferson County/ igneous-metamorphic/
Front Range/
- Baltz, E. H., Jr., 1953
Colorado/ New Mexico/ ore deposits/ exploration/
occurrence/ carbonaceous rocks/ Paradox Formation/
San Miguel County/ shale/ sandstone/ siltstone/
coal/ Archuleta County/ La Plata County/ Montezuma
County/ tuff/ igneous-metamorphic/ Colorado
Plateau/ Bald Eagle prospect/
- Baltz, E. H., Jr., 1955
Colorado/ New Mexico/ Huerfano Park/ Spanish
Peaks/ ore deposits/ exploration/ Huerfano County/
sandstone/ volcanic/ igneous-metamorphic/
- Banks, P. O., and Silver, L. T., 1964
Front Range/ ore deposits/ isotopes/ age determination/
uranium/ igneous-metamorphic/ Gilpin County/
Larimer County/ pitchblende/ bostonite/ Central
City district/
- Barker, Fred, 1969
geology/ Needle Mountains/ igneous-metamorphic/
San Juan County/ petrology/ Precambrian/
- Bastin, E. S., 1915
ore deposits/ pitchblende/ veins/ geology/ uranium/
Gilpin County/ Quartz Hill/ Wood mine/ Front
Range/ igneous-metamorphic/

- Bastin, E. S., 1916
 Gilpin County/ ore deposits/ pitchblende/ uraninite/
 resources/ structure/ abundance/ veins/ economic
 geology/ Igneous-metamorphic/ uranium/ Front
 Range/
- Bastin, E. S., and Hill, J. M., 1915
 Gilpin County/ igneous-metamorphic/ Boulder
 County/ Quartz Hill/ gold/ silver/ uranium/
 copper/ tungsten/ Front Range/ ore deposits/
 Clear Creek County/
- Bastin, E. S., and Hill, J. M., 1915
 economic geology/ Gilpin County/ Central City
 district/ Hill/ uraninite/ pitchblende/ bostonite
 porphyry/ Igneous-metamorphic/ Front Range/
- Becke, F., 1909
 Gilpin County/ Bald Mountain/ ore deposits/
 pitchblende/ mineral assemblages/ Kirk mine/
 Igneous-metamorphic/ Front Range/
- Beroni, E. P., and McKeown, F. A., 1952
 reconnaissance/ marine black shales/ geology/
 sandstone/ Entrada Sandstone/ Curtis Formation/
 Igneous-metamorphic/ Skull Creek district/ Bozo
 claims/ Fair-U claim/ Lucky Strike claims/ Grand
 County/ Moffat County/ Routt County/ coal/ copper/
 uranium/ limestone/ phosphates/ carnotite/ uraninite/
 spring deposits/ migmatite/ granite/ Colorado/
 Wyoming/ Utah/
- Beroni, E. P., Granger, H. C., and King, R. U., 1950
 Jamestown district/ Boulder County/ fluorite
 deposits/ Argo mine/ Blue Jay mine/ Burlington
 mine/ Emmett mine/ General Chemical fluorite
 deposit/ Igneous-metamorphic/ radioactivity/
 ore deposits/ Front Range/ Williamson fluorite
 deposit/
- Bertrand, Didier, 1950
 biogeochemistry/ vanadium/ rocks/ sediments/
 water/ soil/ coal/ Jamestown district/ Front
 Range/ Gilpin County/ Igneous-metamorphic/ plants/
 animals/ oil/ asphalt/ Clear Creek County/
- Bever, J. E., 1952
 Park County/ Fremont County/ Igneous-metamorphic/
 geology/ petrology/ Guffey-Micanite region/
- Bienlewski, C. L., Porsse, F. H., and Brauch, E.
 F., 1971
 Colorado Plateau/ Rifle district/ Front Range/
 Garfield County/ Clear Creek County/ Jefferson
 County/ Boulder County/ resources/ price/ cost
 analysis/ sandstone/ Igneous-metamorphic/ Marshall
 Pass/
- Bird, A. G., 1956
 Ralston Creek mine/ pitchblende/ ore deposits/
 Schwartzwalder mine/ Igneous-metamorphic/ Front
 Range/ Jefferson County/
- Bird, A. G., 1957
 Golden Gate Canyon area/ Ralston Creek area/
 ore deposits/ Jefferson County/ Igneous-metamorphic/
 mineralization/ Schwartzwalder mine/ uranium/
 Front Range/ pitchblende/ Idaho Springs Formation/
- Bird, A. G., 1957
 Jefferson County/ Igneous-metamorphic/ Ralston
 Creek area/ Golden Gate Canyon area/ Front Range/
 Schwartzwalder mine/ pitchblende/ ore deposits/
- Bird, A. G., 1957
 pitchblende/ occurrences/ Golden Gate Canyon
 area/ Ralston Creek area/ Schwartzwalder mine/
 Jefferson County/ Front Range/ Igneous-metamorphic/
 ore deposits/
- Bird, A. G., 1958
 Schwartzwalder mine/ ore deposits/ petrology/
 Jefferson County/ metamorphic/ Igneous-metamorphic/
 uranium/ Front Range/
- Bird, A. G., 1966
 Jefferson County/ petrology/ Schwartzwalder
 mine/ metamorphic/ Igneous-metamorphic/ uranium/
 Front Range/ ore deposits/
- Bird, A. G., and Stafford, H. S., 1955
 Front Range/ foothills/ ore deposits/ veins/
 uranium/ Jefferson County/ Schwartzwalder mine/
 Igneous-metamorphic/
- Boos, C. M., and Boos, M. F., 1957
 tectonics/ Front Range/ Igneous-metamorphic/
 Gilpin County/ Larimer County/ Boulder County/
 Jefferson County/ geology/ Clear Creek County/
 Park County/ Douglas County/ Teller County/
 El Paso County/ Fremont County/ Pueblo County/
 granite/ schist/ gneiss/ pegmatite/
- Bowle, S. H. U., 1970
 Canada/ Ontario/ Blind River/ Colorado Plateau/
 ore deposits/ genesis/ reserves/ sedimentary
 rocks/ sandstone/ conglomerate/ metamorphic
 rocks/ exploration/ Igneous-metamorphic/ geology/
 uranium provinces/
- Boyer, R. E., 1961
 Badito Cone/ zirconium/ phonolite/ Huerfano
 County/ Dakota Sandstone/ Morrison Formation/
 Stumbling Stud claims/ Wet Mountains/ Pueblo
 County/ sandstone/ fluorite/ thorium/ uranium/
 cement/ rhyolite/ Igneous-metamorphic/
- Bozag, H. A., 1943
 Precambrian geology/ Golden Gate Canyon/ Jefferson
 County/ Igneous-metamorphic/ Front Range/
- Braddock, W. A., 1969
 geology/ ore deposits/ Empire quadrangle/ Grand
 County/ Gilpin County/ Clear Creek County/ Front
 Range/ Igneous-metamorphic/
- Bray, J. M., 1942
 fluorite/ Jamestown district/ Boulder County/
 Front Range/ veins/ Igneous-metamorphic/ chemistry/
 minor elements/
- Brinkworth, G. L., 1974
 geophysical investigations/ Front Range/ mineral
 belt/ Igneous-metamorphic/ Jefferson County/
 Boulder County/ Clear Creek County/ Gilpin County/
 geophysics/

- Brock, M. R., and Singewald, Q. D., 1968
geology/ Mount Tyndall quadrangle/ Custer County/
thorium/ igneous-metamorphic/ ore deposits/
Wet Mountains/
- Brown, Andrew, 1961
bibliography/ radioactive deposits/ geology/
uranium/ thorium/ mineralogy/ geochemistry/
reconnaissance/ Colorado/ Colorado Plateau/
sandstone/ geobotany/ geophysics/ United States/
veins/ igneous-metamorphic/ Front Range/ geologic
Investigations/
- Brown, H., and Silver, L. T., 1956
extraction/ processing/ low grade ores/ distribution/
igneous-metamorphic/ uranium/ thorium/ igneous
rocks/ reserves/ resources/
- Brown, L. J., and Easton, W. W., 1955
ore deposits/ reconnaissance/ alborne/ Huerfano
Embayment/ Intrusives/ volcanics/ Las Animas
Arch/ La Veta Pass area/ Huerfano County/ Las
Animas County/ Otero County/ Costilla County/
Pueblo County/ Crowley County/ Kiowa County/
Bent County/ Prowers County/ Baca County/ sandstone/
shale/ claystone/ igneous-metamorphic/
- Brown, L. J., and Malan, R. C., 1954
ore deposits/ exploration/ Sangre de Cristo/
reconnaissance/ province/ Canyon City embayment/
City Slicker mine/ igneous-metamorphic/ El Paso
County/ Las Animas County/ La Veta Pass/ Alamosa
County/ Costilla County/ sandstone/ Fremont
County/ Huerfano County/ Pueblo County/ Rio
Grande County/ Saguache County/ Teller County/
Dakota Sandstone/ Morrison Formation/ Cripple
Creek-Victor district/
- Brown, L. J., Easton, W. W., and Mallory, N. S., 1955
uranium/ ore deposits/ minerals/ aerial prospecting/
reconnaissance/ geology/ South Park/ Park County/
Garo district/ igneous-metamorphic/ Tertiary/
Precambrian/ trachyte/ granite/ sandstone/
- Buck, K. L., 1955
bibliography/ thorium/ rare earths/ Alaska/
Colorado/ United States/ El Paso County/ Custer
County/ Gunnison County/ igneous-metamorphic/
ore deposits/
- Buck, K. L., 1957
ore deposits/ bibliography/ thorium/ rare earths/
Alaska/ Colorado/ United States/ El Paso County/
Custer County/ Gunnison County/ igneous-metamorphic/
- Burbank, W. S., and Pierson, C. T., 1952
Gunnison County/ Ouray County/ San Juan County/
Dolores County/ radioactivity/ reconnaissance/
San Juan Mountains/ igneous-metamorphic/ Colorado
Plateau/ sandstone/ veins/ San Miguel County/
- Burbank, W. S., and Pierson, C. T., 1953
radioactivity/ reconnaissance/ San Juan Mountains/
Ouray County/ San Miguel County/ Gunnison County/
Dolores County/ igneous-metamorphic/ sandstone/
Colorado Plateau/ veins/ San Juan County/
- Bush, A. L., 1955
San Juan Mountains/ San Miguel County/ Dolores
County/ Placerville district/ vanadium/ uranium/
Entrada Sandstone/ sandstone/ ore deposits/
igneous-metamorphic/ Colorado Plateau/ veins/
geology/
- Bush, A. L., and Taylor, R. B., 1958
San Juan Mountains/ ore deposits/ Gray head
quadrangle/ San Miguel County/ uranium/ vanadium/
granodiorite/ Placerville district/ Pony Express
Limestone Member/ sandstone/ limestone/ Colorado
Plateau/ igneous-metamorphic/
- Bush, A. L., Bromfield, C. S., and Pierson, C.
T., 1956
Placerville quadrangle/ Entrada Sandstone/ sandstone/
uranium/ vanadium/ Leopard Vanadium mine/ San
Miguel County/ areal geology/ stratigraphy/
igneous-metamorphic/ structure/ geomorphology/
gold/ silver/ copper/ geology/ Colorado Plateau/
- Bush, A. L., Marsh, O. T., and Taylor, R. B., 1957
San Juan Mountains/ structure/ Placerville district/
San Miguel County/ igneous-metamorphic/ uranium/
vanadium/ selenium/ ore deposits/ Colorado Plateau/
San Juan County/ La Plata County/ Dolores County/
sandstone/ veins/
- Bush, A. L., Taylor, R. B., and Marsh, O. T., 1956
San Juan Mountains/ uranium/ vanadium/ Placerville
district/ San Miguel County/ Entrada Sandstone/
sandstone/ veins/ igneous-metamorphic/ Colorado
Plateau/ ore deposits/
- Bush, A. L., Taylor, R. B., Marsh, O. T., and others,
1956
San Juan Mountains/ uranium/ vanadium/ Placerville
district/ San Miguel County/ igneous-metamorphic/
stocks/ sandstone/ quartz monzonite/ ore deposits/
veins/ Colorado Plateau/
- Butler, A. P., Jr., 1947
thorium/ resources/ Front Range/ igneous-metamorphic/
- Butler, A. P., Jr., 1952
Front Range/ thorium/ Colorado Plateau/ Morrison
Formation/ igneous-metamorphic/ Chinle Formation/
Shinarump Member/ geology/ ore deposits/ pegmatites/
veins/ sandstone/ placers/ carnotite/ fresh
waters/ gases/ Gilpin County/ Clear Creek County/
Custer County/ Lake County/ San Miguel County/
Gunnison County/
- Butler, A. P., Jr., 1972
resources/ uranium/ ore deposits/ fluvioclastic
rocks/ sandstone/ conglomerate/ Tertiary volcanics/
igneous-metamorphic/ arkose/
- Butler, A. P., Jr., and Schnabel, R. W., 1956
veins/ Front Range/ uranium/ occurrences/ United
States/ Colorado/ Colorado Plateau/ sedimentary
rocks/ water/ igneous-metamorphic/ sandstone/
- Butler, A. P., Jr., and Schnabel, R. W., 1956
veins/ occurrences/ United States/ Colorado/
Front Range/ Colorado Plateau/ uranium/ sedimentary
rocks/ water/ igneous-metamorphic/ sandstone/
- Butler, A. P., Jr., and Stead, F. W., 1947
ore deposits/ investigations/ Colorado Plateau/

- Front Range/ sandstone/ igneous-metamorphic/
radioactive raw materials/ costs/
- Butler, A. P., Jr., Finch, W. I., and Twenhofel,
W. S., 1962
map/ uranium/ Colorado/ United States/ epigenetic
deposits/ ore deposits/ Colorado Plateau/ Front
Range/ sandstone/ igneous-metamorphic/
- Butler, A. P., Jr., Killeen, P. L., Page, G. B.,
and Rubey, W. W., 1947
ore deposits/ resources/ reconnaissance/ Front
Range/ reserves/ Colorado Plateau/ carnotite/
uranium/ vanadium/ igneous-metamorphic/ uraninite/
Iron Hill/ Gunnison County/ Gilpin County/ Clear
Creek County/ radioactive springs/ thorium/
mineralogy/ San Miguel County/ Montrose County/
Mesa County/ sandstone/ genesis/
- Campbell, R. H., 1953
Gold Hill district/ Boulder County/ zoning/
igneous-metamorphic/ Black Cloud mine/ pitchblende/
reconnaissance/ Front Range/ ore deposits/
- Campbell, R. H., 1955
Boulder County/ Gold Hill district/ mineralogy/
petrology/ geochemistry/ breccia reefs/ zoning/
Front Range/ pitchblende/ schroekingerite/
torbernite/ Black Cloud mine/ Goldsmith Maid
vein/ Snowbound mine/ reconnaissance/ veins/
igneous-metamorphic/
- Campbell, R. H., 1955
Boulder County/ Gold Hill district/ mineralogy/
petrology/ geochemistry/ breccia reefs/ zoning/
Front Range/ veins/ pitchblende/ schroekingerite/
torbernite/ Black Cloud mine/ Goldsmith Maid
vein/ Snowbound mine/ reconnaissance/ veins/
igneous-metamorphic/
- Campbell, R. H., and Schafer, M., 1953
Gilpin County/ mineralogy/ petrology/ geochemistry/
zoning/ Front Range/ uraninite/ Elliott mine/
reconnaissance/ radioactive materials/ igneous-metamorphic/
- Cannon, H. L., 1957
Colorado Plateau/ ore deposits/ exploration/
vegetation/ indicator plants/ Utah/ botanical
prospecting/ geobotany/ Colorado/ sandstone/
geochemistry/ Marshall Pass/ Saguache County/
Lookout No. 22 claim/ uraninite/ igneous-metamorphic/
Astragalus/ botanical studies/
- Cannon, R. S., Jr., 1952
isotope geology/ uranium/ thorium/ decay products/
Colorado Plateau/ Front Range/ Morrison Formation/
sandstone/ igneous-metamorphic/
- Carter, W. D., and Gualtieri, J. L., 1958
map/ tectonics/ Colorado/ Utah/ Moffat County/
Logan County/ geology/ Larimer County/ Jackson
County/ Boulder County/ Jefferson County/ Clear
Creek County/ Gilpin County/ Summit County/
Grand County/ Eagle County/ Routt County/ Garfield
County/ Rio Blanco County/ sandstone/ ore deposits/
igneous-metamorphic/
- Case, J. E., 1967
anomalies/ gravity surveys/ aeromagnetic surveys/
igneous-metamorphic/ ore guides/ geophysics/
Park County/ Lake County/ Park Range/ sandstone/
Colorado mineral belt/
- Case, J. E., Joesting, H. R., and Byerly, P. E., 1963
geophysical investigations/ La Sal Mountains/
geophysics/ Colorado Plateau/ geology/ aeromagnetic
surveys/ Mesa County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ sandstone/
igneous-metamorphic/
- Chapman, J. J., 1948
geology/ Clear Creek area/ Golden Gate Canyon
area/ Jefferson County/ igneous-metamorphic/
Front Range/
- Chenoweth, W. L., and Malan, R. C., 1969
uranium/ ore deposits/ geology/ classifications/
Canada/ sandstone/ igneous-metamorphic/ Colorado/
Colorado Plateau/ United States/
- Chenoweth, W. L., and Stehle, F. T., 1957
New Mexico/ Colorado/ ore deposits/ uranium/
stratigraphy/ aerial prospecting/ reconnaissance/
igneous-metamorphic/ topography/ natural radioactivity/
San Juan basin/ sandstone/ Montezuma County/
- Christ, C. L., and Chisholm, W. A., 1957
thermoluminescence/ radioactive minerals/ limestone/
ore deposits/ limestone/ Gilman district/ ore
guides/ hydrothermal alteration/ Eagle County/
Puerto Rico limestone/ igneous-metamorphic/
- Christman, R. A., Brock, M. R., and Singewald,
Q. D., 1954
Wet Mountains/ ore deposits/ exploration/ Custer
County/ thorium/ Fremont County/ Pueblo County/
veins/ igneous-metamorphic/
- Christman, R. A., Brock, M. R., Pearson, R. C.,
and Singewald, Q. D., 1954
Wet Mountains/ Haputa Ranch/ Silver Cliff district/
McKinley Mountain area/ Rosita district/ Tuttle
Ranch/ Westcliff area/ Custer County/ Fremont
County/ Pine Tree claim/ stratigraphy/ ore deposits/
structure/ Precambrian rocks/ rare earths/ veins/
thorium/ igneous-metamorphic/
- Christman, R. A., Brock, M. R., Pearson, R. C.,
and others, 1955
Wet Mountains/ ore deposits/ thorium/ Custer
County/ Fremont County/ veins/ igneous-metamorphic/
rare earths/ Pueblo County/
- Christman, R. A., Brock, M. R., Pearson, R. C.,
and others, 1960
Wet Mountains/ ore deposits/ resources/ production/
geology/ thorium/ Custer County/ Pueblo County/
Fremont County/ veins/ igneous-metamorphic/
- Christman, R. A., Heyman, A. M., Dellwig, L. F.,
and others, 1953
veins/ thorium/ Wet Mountains/ Custer County/
thorite/ shear zones/ metamorphic rocks/ ore
deposits/ igneous-metamorphic/
- Christman, R. A., Heyman, A. M., Dellwig, L. F.,
and others, 1953

- thorium/ Wet Mountains/ Custer County/ Fremont County/ metamorphic rocks/ thorite/ ore deposits/ veins/ igneous-metamorphic/ shear zones/
- Christman, R. A., Heyman, A. M., Dellwig, L. F., and others, 1953
thorium/ reconnaissance/ Wet Mountains/ Fremont County/ Custer County/ igneous-metamorphic/ exploration/ veins/ ore deposits/
- Christman, R. A., Heyman, A. M., Dellwig, L. F., 1953
drilling/ analyses/ igneous-metamorphic/ Wet Mountains/ structure/ geology/ mineralogy/ Custer County/ Fremont County/ Haputa Ranch/ Tuttle Ranch/ stratigraphy/ Precambrian rocks/ thorium/ rare earths/ ore deposits/ veins/ Atomic Mountain group/ Barite lode/ thorite/ Big Chief claim/ Darby extension/
- Coats, R. R., 1956
felsic volcanic rocks/ igneous-metamorphic/ uranium/ trace elements/ Cenozoic/ genesis/ Gunnison County/ Pitkin County/ Lake County/ Park County/ Chaffee County/ Ouray County/ Saguache County/ Hinsdale County/
- Coats, R. R., 1956
uranium/ trace elements/ felsic volcanic rocks/ Cenozoic/ genesis/ igneous-metamorphic/ Gunnison County/ Pitkin County/ Lake County/ Park County/ Chaffee County/ Ouray County/ Saguache County/ Hinsdale County/
- Cole, S. S., and Breitenstein, J. S., 1951
vanadium/ processing/ recovery/ titaniferous magnetite/ igneous-metamorphic/
- Collins, G. E., 1909
ore deposits/ milling/ vanadium/ uranium/ veins/ Gilpin County/ Belcher mine/ Quartz Hill district/ Wood vein/ Kirk vein/ German vein/ pitchblende/ Front Range/ igneous-metamorphic/
- Collins, G. E., 1914
carnotite/ sandstone/ San Miguel County/ Montrose County/ pitchblende/ igneous-metamorphic/ Gilpin County/ mining/ Colorado Plateau/ Front Range/
- Colorado Geological Survey, 1968
minerals/ water/ resources/ Colorado/ uranium/ thorium/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/
- Conroy, A. R., 1960
Wet Mountains/ ore deposits/ geology/ Custer County/ thorium/ igneous-metamorphic/
- Cooper, Margaret, 1953
Colorado/ Utah/ bibliography/ uranium/ thorium/ sandstone/ radioactive occurrences/ ore deposits/ Colorado Plateau/ Front Range/ igneous-metamorphic/
- Cooper, Margaret, 1954
Colorado/ Utah/ bibliography/ uranium/ thorium/ sandstone/ radioactive occurrences/ ore deposits/ Colorado Plateau/ Front Range/ igneous-metamorphic/
- Cross, C. W., 1915
Pueblo County/ Las Animas County/ Huerfano County/ petrology/ dike rocks/ igneous-metamorphic/ Aplshapa quadrangle/
- Cross, C. W., and Larsen, E. S., 1915
stratigraphy/ La Plata Sandstone/ unconformity/ Precambrian/ San Juan Mountains/ Montrose County/ Gunnison County/ igneous-metamorphic/ sandstone/ Colorado Plateau/ geology/
- Cross, C. W., and Larsen, E. S., 1935
geology/ San Juan region/ igneous-metamorphic/ ore deposits/ alkaline complex/ thorium/ Iron Hill/ Powderhorn area/ Gunnison County/
- Curran, T. F., 1913
Colorado Plateau/ ore deposits/ carnotite/ history/ Gilpin County/ Wood mine/ Montrose County/ sandstone/ pitchblende/ San Miguel County/ Mesa County/ Dolores County/ Routt County/ Paradox Valley/ Rio Blanco County/ Utah/ Australia/ Front Range/ igneous-metamorphic/
- Curran, T. F., 1913
ore deposits/ carnotite/ San Miguel County/ history/ Gilpin County/ Wood mine/ Montrose County/ Colorado Plateau/ sandstone/ pitchblende/ Mesa County/ Dolores County/ Routt County/ Rio Blanco County/ Paradox Valley/ Utah/ Australia/ Front Range/ igneous-metamorphic/
- Curtis, Diane, 1956
bibliography/ annotated/ uranium/ geology/ United States/ igneous-metamorphic/ Colorado/ Colorado Plateau/ Front Range/
- Dahlem, D. H., 1965
geology/ Lookout Mountain area/ Fremont County/ alkaline complex/ petrology/ McClure Mountains/ igneous-metamorphic/
- Damon, P. E., Green, W. D., Halva, C. J., and others, 1960
correlation/ chronology/ ore deposits/ volcanic rocks/ igneous-metamorphic/
- De Voto, R. H., 1976
geologic environments/ sandstone/ igneous-metamorphic/ uranium/ ore deposits/ environments of formation/ geology/
- Decker, E. R., 1969
geophysics/ geothermal/ radioactive materials/ heat flow/ Colorado/ New Mexico/ Summit County/ Jefferson County/ Clear Creek County/ La Plata County/ igneous-metamorphic/ Roberts tunnel/
- Del Rio, S. M., compiler, 1960
minerals/ resources/ Colorado/ uranium/ Colorado Plateau/ San Miguel County/ Montrose County/ Mesa County/ Front Range/ Jefferson County/ Fremont County/ sandstone/ igneous-metamorphic/ Moffat County/
- Dellwig, L. F., 1951
Willis Tuttle ranch/ Greenwood thorium property/ thorium/ rare earths/ ore deposits/ Wet Mountains/

- Custer County/ Fremont County/ igneous-metamorphic/ alkalic rocks/
- Dellwig, L. F., and Gott, G. B., 1951
Custer County/ rare earth minerals/ shear zone material/ veins/ Haputa Ranch/ ore deposits/ Wet Mountains/ thorium/ thorite/ fault breccia/ igneous-metamorphic/
- Denson, M. E., Jr., 1956
ore deposits/ exploration/ geophysics/ geochemistry/ Colorado/ Front Range/ South Dakota/ Wyoming/ uranium/ thorium/ geology/ Jefferson County/ igneous-metamorphic/
- Denson, M. E., Jr., 1956
Colorado/ Front Range/ geophysics/ geochemistry/ South Dakota/ Wyoming/ exploration/ uranium/ thorium/ Jefferson County/ igneous-metamorphic/ geology/ ore deposits/
- Denson, N. M., Zeller, H. D., and Stephens, J. G., 1956
hydrogeochemistry/ volcanics/ ground water/ springs/ surface water/ exploration guides/ evaluation/ exploration/ uranium/ Wyoming/ South Dakota/ igneous-metamorphic/ ore deposits/
- Denson, N. M., Zeller, H. D., and Stephens, J. G., 1956
hydrogeochemistry/ volcanics/ ground water/ springs/ surface water/ exploration guides/ evaluation/ exploration/ uranium/ Wyoming/ South Dakota/ igneous-metamorphic/ ore deposits/
- Derzay, R. C., 1953
Cherokee mine/ ore deposits/ Queen Mineral Ranch/ Gilpin County/ veins/ igneous-metamorphic/ pitchblende/ Precambrian rocks/ quartz-biotite schist/ schistose gneiss/ pegmatite/ drilling/ Front Range/
- Derzay, R. C., 1956
Los Ochos mine/ ore deposits/ Saguache County/ veins/ uranium/ geology/ mineralogy/ metamorphic rocks/ Cochetopa district/ igneous-metamorphic/ thorium/
- Derzay, R. C., 1956
veins/ geology/ mineralogy/ metamorphic rocks/ Cochetopa district/ Los Ochos mine/ uranium/ Saguache County/ igneous-metamorphic/ ore deposits/ thorium/
- Derzay, R. C., and Baker, K. E., 1953
Copper King mine/ ore deposits/ exploration/ Larimer County/ igneous-metamorphic/ veins/ pitchblende/ Precambrian rocks/ granite/ schist/ pegmatite/ copper/ zinc/ uranium/ Front Range/
- Derzay, R. C., and Bird, A. G., 1976
economic geology/ ore deposits/ uranium/ Ralston Creek area/ Jefferson County/ igneous-metamorphic/ Front Range/
- Dings, M. G., 1952
Glacier Mountain area/ Tiptop Peak/ Summit County/ General Teller mine/ reconnaissance/ radioactive materials/ mining districts/ igneous-metamorphic/ Montezuma area/ ore deposits/
- Dings, M. G., 1952
Garfield quadrangle/ Taylor Park quadrangle/ Chaffee County/ Gunnison County/ Bon Ton mine/ Little Jimmie prospect/ Madonna mine/ Silent Friend mine/ reconnaissance/ radioactive material/ mining districts/ fault breccia/ shear zone material/ ore deposits/ veins/ igneous-metamorphic/ geology/
- Dings, M. G., 1953
Glacier Mountain area/ Summit County/ ore deposits/ reconnaissance/ radioactive materials/ mining districts/ Montezuma area/ veins/ General Teller prospect/ igneous-metamorphic/
- Dings, M. G., and Robinson, C. S., 1952
geology/ ore deposits/ Quartz Creek district/ Gunnison County/ Tin Cup district/ production/ igneous-metamorphic/ Garfield quadrangle/ Chaffee County/
- Dings, M. G., and Robinson, C. S., 1957
geology/ ore deposits/ Gunnison County/ Chaffee County/ production/ volcanic rocks/ Quartz Creek district/ Tin Cup district/ Garfield quadrangle/ igneous-metamorphic/
- Dings, M. G., and Schafer, Max, 1953
veins/ Garfield quadrangle/ Taylor Park quadrangle/ igneous-metamorphic/ geology/ ore deposits/ Gunnison County/ Chaffee County/ Mount Antero region/ Bon Ton mine/ Madonna mine/ brannerite/ black (marine carbonaceous) shales/ pegmatites/ reconnaissance/ radiometrics/ Silent Friend mine/
- Dings, M. G., Robinson, C. S., and Brock, M. R., 1952
Garfield quadrangle/ Chaffee County/ Gunnison County/ igneous-metamorphic/ geology/ ore deposits/
- Doe, B. R., and Pearson, R. C., 1969
chronology/ age dating/ uranium/ thorium/ lead/ zircons/ granite/ Chaffee County/ Gunnison County/ analyses/ St. Kevin granite/ igneous-metamorphic/ Sawatch Range/
- Doolay, J. R., Jr., and Hathaway, J. C., 1961
mineralogy/ thorium/ rhabdophane/ veins/ Precambrian rock/ Gunnison County/ igneous-metamorphic/
- Downs, G. R., and Bird, A. G., 1965
Jefferson County/ Schwartzwalder mine/ ore deposits/ genesis/ production/ reserves/ pitchblende/ veins/ igneous-metamorphic/ Front Range/
- Drake, A. A., Jr., 1955
ore deposits/ Wood mine/ Central City district/ pitchblende/ Gilpin County/ uranium/ veins/ igneous-metamorphic/ Clear Creek County/ Front Range/
- Drake, A. A., Jr., 1955
Front Range/ igneous-metamorphic/ Central City district/ Gilpin County/ geology/ mineralogy/ petrology/ geochemistry/ pitchblende/ ore deposits/

- Calhoun mines/ Wood mine/ production/ veins/
Precambrian rocks/ Quartz Mill vein/ Wood vein/
Willowdale vein/ paragenesis/ alteration/ bostonite
porphyry/ Clear Creek County/
- Drake, A. A., Jr., 1957
veins/ Precambrian rock/ bostonite porphyry/
pitchblende/ production/ Central City district/
Gilpin County/ structure/ geology/ Wood-East
Calhoun area/ Igneous-metamorphic/ East Calhoun
mine/ Clear Creek County/ mineralogy/ Front
Range/ Wood mine/
- Dunn, J. E., 1957
Marshall Pass/ ore deposits/ Saguache County/
uranium/ Gunnison County/ Chester fault/ Harding
Sandstone/ Igneous-metamorphic/ pegmatite/ limestone/
Belden Formation/ Leadville Limestone/
- Eckel, E. B., 1949
geology/ ore deposits/ La Plata district/ economic
geology/ production/ Montezuma County/ La Plata
County/ Igneous-metamorphic/ sandstone/
- Eckel, E. B., 1961
description/ minerals/ Colorado/ uranium/ vanadium/
thorium/ Colorado Plateau/ Front Range/ sandstone/
Igneous-metamorphic/
- Edwards, C. L., Reiter, M. A., and Shearer, C., 1975
heat flow/ radioactivity/ crustal/ New Mexico/
Colorado/ volcanism/ Igneous-metamorphic/ Las
Animas County/
- Ekren, E. B., 1955
Ute Mountains/ ore deposits/ Montezuma County/
sandstone/ Igneous-metamorphic/ volcanics/ uranium/
vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1956
Ute Mountains/ ore deposits/ Montezuma County/
sandstone/ Igneous-metamorphic/ volcanics/ uranium/
vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1956
Ute Mountains/ ore deposits/ Montezuma County/
sandstone/ Igneous-metamorphic/ volcanics/ uranium/
vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1957
Ute Mountains/ Montezuma County/ sandstone/
Salt Wash Member/ Entrada Sandstone/ uranium/
vanadium/ Sentinel Peak NW quadrangle/ geology/
map/ ore deposits/ Morrison Formation/ Colorado
Plateau/ Igneous-metamorphic/
- Ekren, E. B., and Houser, F. N., 1957
Ute Mountains/ ore deposits/ Montezuma County/
sandstone/ Igneous-metamorphic/ volcanics/ uranium/
vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1957
Ute Mountains/ ore deposits/ Montezuma County/
sandstone/ Igneous-metamorphic/ volcanics/ uranium/
vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1958
Ute Mountains/ ore deposits/ porphyry/ petrology/
sandstone/ volcanics/ igneous-metamorphic/ uranium/
vanadium/ stratigraphy/ conglomerate/ Entrada
Sandstone/ Colorado Plateau/ Montezuma County/
- Ekren, E. B., and Houser, F. N., 1958
Ute Mountains/ Montezuma County/ stratigraphy/
structure/ ore deposits/ sandstone/ volcanics/
uranium/ vanadium/ Colorado Plateau/ geology/
Paradox basin/ Igneous-metamorphic/
- Ekren, E. B., and Houser, F. N., 1959
Ute Mountains/ Montezuma County/ sandstone/
Morrison Formation/ Salt Wash Member/ Entrada
Sandstone/ Colorado Plateau/ Igneous-metamorphic/
uranium/ vanadium/ Sentinel Peak NW quadrangle/
map/ geology/
- Ekren, E. B., and Houser, F. N., 1965
geology/ petrology/ Ute Mountains/ Montezuma
County/ sandstone/ Colorado Plateau/ Morrison
Formation/ uranium/ vanadium/ economic geology/
Salt Wash Member/ Entrada Sandstone/ ore deposits/
Igneous-metamorphic/
- Elmore, R. T., 1955
Gunnison County/ Jack's Cabin prospect/ sedimentary
rocks/ Igneous-metamorphic/ sandstone/ veins/
- Epis, R. C., and Chaplin, C. E., 1974
stratigraphy/ Thirtynine Mile volcanic field/
Summit County/ Fremont County/ stratigraphic
nomenclature/ Igneous-metamorphic/
- Epstein, Samuel, 1969
abundance/ age estimation/ crystals/ geochemistry/
geology/ Igneous rocks/ Isotopes/ North America/
radiation effects/ stability/ uranium/ Canada/
Colorado/ USA/ Wyoming/ minerals/ zirconium
silicates/ zircon/ feldspars/ Igneous-metamorphic/
- Evans, R. D., and Goodman, C., 1941
radioactivity/ rocks/ Colorado/ uranium/ thorium/
radium/ analyses/ Igneous-metamorphic/ sedimentary/
sandstone/
- Everhart, D. L., 1949
veins/ geologic environments/ geology/ uranium/
Igneous-metamorphic/ sandstone/
- Everhart, D. L., 1951
geology/ veins/ ore deposits/ minerals/ sandstone/
Igneous-metamorphic/ mudstone/ Colorado Plateau/
phosphates/ pitchblende/ pegmatite/ carnotite/
Morrison Formation/ Entrada Sandstone/ Shinarump
Member/ Mesa County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ asphalt/
limestone/ black shale/ Belgian Congo/ Canadian
Shield/
- Everhart, D. L., 1954
Colorado Plateau/ sandstone/ Colorado/ New Mexico/
Utah/ Wyoming/ veins/ Igneous-metamorphic/ San
Miguel County/ Montrose County/ Mesa County/
Jefferson County/ Australia/ South Africa/ Ontario/
- Everhart, D. L., 1954
classifications/ genesis/ uranium/ ore deposits/
sandstone/ Igneous-metamorphic/

- Everhart, D. L., 1956
sandstone/ Colorado Plateau/ Front Range/ Copper King mine/ veins/ Larimer County/ Los Ochos mine/ Saguache County/ Caribou mine/ Boulder County/ Schwartzwalder mine/ Carroll mine/ Placerville district/ San Miguel County/ alteration/ pitchblende/ igneous-metamorphic/ Jefferson County/ Carroll mine/ structural tension/
- Everhart, D. L., 1956
pitchblende/ Colorado Plateau/ igneous-metamorphic/ granite/ Front Range/ Copper King mine/ Larimer County/ alteration/ Los Ochos mine/ Saguache County/ Caribou mine/ Carroll mine/ Boulder County/ San Miguel County/ ore deposits/ sandstone/ Placerville district/ Schwartzwalder mine/ Jefferson County/ structural tension/ United States/ Tertiary/ veins/ alteration/
- Everhart, D. L., and Wright, R. J., 1951
veins/ pitchblende/ paragenesis/ igneous-metamorphic/ Colorado/
- Everhart, D. L., and Wright, R. J., 1953
veins/ pitchblende/ geologic features/ sulfides/ Precambrian rocks/ Canadian shield/ Paleozoic/ Tertiary/ paragenesis/ alteration/ sandstone/ Africa/ Idaho/ Front Range/ Gilpin County/ Clear Creek County/ Boulder County/ Utah/ Colorado Plateau/ igneous-metamorphic/
- Fenton, M. D., and Faure, G., 1970
Gunnison County/ Iron Hill complex/ Rb-Sr/ age determinations/ carbonatite/ alkalic complexes/ thorium/ Fremont County/ igneous-metamorphic/ McClure Mountain complex/
- Ferris, C. S., and Bennett, N., 1977
geochemistry/ exploration/ Ladwig mine/ Jefferson County/ Front Range/ igneous-metamorphic/ gneiss/ schist/ Schwartzwalder mine/ molybdenum/
- Ferris, C. S., and Rund, C. O., 1971
brannerite/ occurrence/ recognition/ microprobe/ igneous-metamorphic/
- Finch, W. I., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/
- Finch, W. I., 1973
uranium/ thorium/ environment/ resources/ deposit types/ prospecting techniques/ production/ ore deposits/ exploration/ sandstone/ igneous-metamorphic/
- Finch, W. I., Butler, A. P., Jr., Armstrong, F. C., and others, 1973
uranium/ geology/ ore deposits/ resources/ sandstone/ igneous-metamorphic/
- Fischer, R. P., 1936
copper/ vanadium/ uranium/ silver/ ore deposits/ sedimentary deposits/ veins/ hydrothermal/ sandstone/ igneous-metamorphic/ Entrada Sandstone/ San Miguel County/ Colorado/ Utah/ Colorado Plateau/
- Fischer, R. P., 1955
Colorado Plateau/ hot springs/ uranium/ vanadium/ geochemistry/ igneous-metamorphic/ sedimentary rocks/ veins/ sandstone/ ore deposits/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/
- Fischer, R. P., 1955
vanadium/ uranium/ geochemistry/ Colorado Plateau/ igneous-metamorphic/ sedimentary rocks/ veins/ sandstone/ ore deposits/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/ hot springs/
- Fischer, R. P., 1955
veins/ igneous-metamorphic/ sedimentary rocks/ sandstone/ vanadium/ uranium/ ore deposits/ Colorado Plateau/ geochemistry/ San Miguel County/ Mesa County/ Montrose County/ Dolores County/ Garfield County/ hot springs/
- Fischer, R. P., Burbank, W. S., Cannon, H. L., and others, 1946
Colorado/ mineral deposits/ map/ Colorado Plateau/ sandstone/ Front Range/ igneous-metamorphic/ ore deposits/
- Fischer, R. P., Luedke, R. G., Sheridan, M. J., and others, 1968
mineral industry/ resources/ minerals/ Ouray County/ Hinsdale County/ San Miguel County/ production/ Gunnison County/ Beth claim/ veins/ rhyolite porphyry/ black shale/ Precambrian rocks/ pitchblende/ bituminous shale/ igneous-metamorphic/ Uncompahgre primitive area/
- Fisher, F. G., and Meyrowitz, R., 1962
brockite/ thorium/ Wet Mountains/ Chemical properties/ igneous-metamorphic/ crystal chemistry/ Bassick mine/ Custer County/ phosphate/ ore deposits/
- Fisher, J. C., 1976
remote sensing/ exploration/ veins/ ore deposits/ Front Range/ igneous-metamorphic/
- Fix, P. F., 1954
Colorado Plateau/ natural waters/ streams/ snow/ ground water/ San Juan Mountains/ San Juan County/ Ouray County/ acid tuff/ igneous-metamorphic/ Front Range/ Colorado Plateau/ surface water/
- Fleck, Herman, 1908
pitchblende/ Gilpin County/ igneous-metamorphic/ uranium/ vanadium/ ore deposits/ Placerville district/ sandstone/ San Miguel County/ Front Range/ rare metals/ Entrada Sandstone/
- Fleck, Herman, 1908
rare elements/ vanadium/ uranium/ importance/ Gilpin County/ Front Range/ igneous-metamorphic/ Placerville district/ sandstone/ San Miguel County/ ore deposits/ Colorado Plateau/

- Fleck, Herman, 1909
 Gilpin County/ ore deposits/ pitchblende/ production/
 vanadium/ Placerville district/ San Miguel County/
 rare metals/ uranium/ Entrada Sandstone/ sandstone/
 igneous-metamorphic/ Front Range/ Colorado Plateau/
- Fleck, Herman, 1909
 ore deposits/ uranium/ vanadium/ Colorado/ sandstone/
 Colorado Plateau/ Front Range/ igneous-metamorphic/
- Fleck, Herman, 1916
 ore deposits/ production/ rare metals/ tungsten/
 molybdenum/ vanadium/ uranium/ Colorado Plateau/
 Placerville district/ San Miguel County/ sandstone/
 Front Range/ Gilpin County/ igneous-metamorphic/
- Fleischer, Michael, 1953
 abundances/ elements/ estimates/ uranium/ vanadium/
 sandstone/ igneous-metamorphic/
- Fleischer, Michael, and Harder, J. O., 1945
 niobium/ tantalum/ minerals/ annotated bibliography/
 pegmatites/ placers/ uranium/ mineralogy/ Leyden
 coal mine/ Jefferson County/ coal/ quartz-carnotite
 veins/ indium/ sandstone/ veins/ igneous-metamorphic/
- Fraser, G. D., 1948
 Coal Creek Quartzite/ igneous-metamorphic/ Jefferson
 County/ Boulder County/ Front Range/
- Gabelman, J. W., 1948
 geology/ Golden Gate area/ Van Bibber Creek
 area/ Jefferson County/ igneous-metamorphic/
 Front Range/
- Gabelman, J. W., and Boyer, W. H., 1974
 exploration/ status/ uranium/ technology/ history/
 pitchblende/ radium/ vanadium/ Colorado Plateau/
 Front Range/ Montrose County/ Mesa County/ San
 Miguel County/ Dolores County/ Moffat County/
 Jefferson County/ sandstone/ igneous-metamorphic/
 shale/
- Gable, D. J., 1968
 geology/ crystalline rocks/ Morrison quadrangle/
 Jefferson County/ igneous-metamorphic/ Front
 Range/
- Gable, D. J., 1969
 geology/ Nederland quadrangle/ Boulder County/
 Gilpin County/ igneous-metamorphic/ ore deposits/
 Caribou district/ veins/ map/ Caribou mine/
 Front Range/
- Gallagher, G. L., 1976
 Badger Flats area/ Elkhorn thrust area/ Park
 County/ Teller County/ Precambrian rocks/ ore
 deposits/ Front Range/ uranium favorability/
 igneous-metamorphic/
- Gallagher, G. L., Edmond, C. L., and D'Andrea,
 R. F., 1977
 uranium favorability/ Gunnison County/ ore deposits/
 igneous-metamorphic/
- George, D'Arcy, 1949
 uranium/ thorium/ mineralogy/ hypogene/ supergene/
 rare earth minerals/ chemistry/ pegmatites/
 sandstone/ placers/ black shales/ igneous-metamorphic/
 Colorado Plateau/ Front Range/
- George, R. D., 1917
 minerals/ rocks/ Colorado/ occurrences/ uses/
 Colorado Plateau/ sandstone/ igneous-metamorphic/
 uranium/ vanadium/ radium/ carnotite/ pitchblende/
 Jefferson County/ Gilpin County/ Front Range/
 Montrose County/ San Miguel County/ Dolores
 County/ Garfield County/ Rio Blanco County/
 Routt County/ Boulder County/
- Gerhard, L. C., and Mark, Anson, 1968
 Pueblo County/ Custer County/ Wet Mountains/
 Paleozoic/ Mesozoic/ geology/ sandstone/ guidebook/
 Fremont County/ igneous-metamorphic/ alkalic
 igneous rocks/
- Gilbert, R. E., 1972
 Jefferson County/ Schwartzwalder mine/ Front
 Range/ geology/ map/ igneous-metamorphic/
- Gillerman, Elliot, 1958
 thorium/ Wet Mountains/ igneous-metamorphic/
 Custer County/ ore deposits/
- Goddard, E. N., 1946
 Boulder County/ veins/ igneous-metamorphic/
 fluorite/ Tertiary intrusions/ Jamestown district/
 ore deposits/ fluorspar/ Front Range/
- Goddard, E. N., and Glass, J. J., 1940
 radioactive cerite/ Jamestown district/ ore
 deposits/ igneous-metamorphic/ uranium/ Boulder
 County/ geology/ mineralogy/ chemistry/ Front
 Range/ Precambrian rocks/
- Goldstein, E. H., 1957
 ore deposits/ uraninite/ Cretaceous/ Jefferson
 County/ Dakota Sandstone/ geology/ uranium/
 igneous-metamorphic/ sandstone/ genesis/ Morrison
 (town of)/
- Gott, G. B., and Erickson, R. L., 1952
 Colorado Plateau/ New Mexico/ Colorado/ Utah/
 Idaho/ Wyoming/ reconnaissance/ Montrose County/
 Cashin mine/ sandstone/ ore deposits/ fault
 breccia/ igneous-metamorphic/ uranium/ copper/
 exploration/ bituminous substances/ asphaltite/
 Shinarump Member/ Wingate Sandstone/ conglomerate/
- Gottfried, David, 1954
 Adams tunnel/ ore deposits/ exploration/ igneous
 complexes/ igneous-metamorphic/ granite/ injection
 gneiss/
- Gottfried, David, 1956
 Front Range/ ore deposits/ exploration/ Precambrian
 rocks/ igneous complexes/ granite/ uranium/
 Jefferson County/ Clear Creek County/ Gilpin
 County/ Pikes Peak batholith/ Log Cabin batholith/
 Boulder Creek batholith/ igneous-metamorphic/
 Boulder County/
- Gottfried, David, 1958
 San Juan Mountains/ ore deposits/ exploration/
 igneous-metamorphic/ volcanics/ Iceland/ New

- Jersey/ Oregon/ Hinsdale Formation/ Potosi volcanic series/ Ouray County/ Hinsdale County/ San Juan County/
- Gow, T. T., 1914
basalt/ Table Mountain/ igneous-metamorphic/ Jefferson County/ Conejos County/ Rio Grande County/ Gilmore/ Front Range/ radioactivity/
- Granger, H. C., and Beroni, E. P., 1950
Jefferson County/ Cook property/ igneous-metamorphic/ reconnaissance/ Front Range/
- Granger, H. C., and King, R. U., 1950
Larimer County/ Copper King mine/ Copper King shaft/ Black Hawk claim no. 1/ pitchblende/ analyses/ igneous-metamorphic/ data/ Front Range/ uranium/
- Granger, H. C., and King, R. U., 1951
Larimer County/ pitchblende/ Copper King mine/ Black Hawk no. 1 claim/ igneous-metamorphic/ pitchblende/ geology/ analyses/ Front Range/
- Grogan, R. M., 1959
Gunnison County/ Iron Hill/ Powderhorn/ carbonatite/ minerals/ thorium/ niobium/ igneous-metamorphic/
- Grogan, R. M., 1960
niobium/ Gunnison County/ Powderhorn/ Iron Hill/ igneous-metamorphic/ carbonatite/ minerals/ thorium/
- Gross, E. B., 1965
pitchblende/ Gunnison County/ ore deposits/ geology/ production/ geochemistry/ mineralogy/ uranium minerals/ Marshall Pass/ Saguache County/ igneous-metamorphic/
- Grossman, E. L., 1957
Front Range/ ore deposits/ uranium/ Gilpin County/ Clear Creek County/ Jefferson County/ Schwartzwalder mine/ pitchblende/ igneous-metamorphic/ Ladwig mine/ Leyden mine/ Boulder County/ coal/ sandstone/ Morrison Formation/ Park County/ Gem Dandy/
- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ intrusives/ ore sources/ sandstone/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/ extrusives/ Montezuma County/ ground water/ igneous-metamorphic/
- Gruner, J. W., and Knox, J. A., 1957
Colorado/ Arizona/ Montana/ New Mexico/ South Dakota/ minerals/ uranium/ ore deposits/ mines/ San Miguel County/ Colorado Plateau/ Fremont County/ Gunnison County/ Saguache County/ volcanics/ conglomerate/ Morrison Formation/ sandstone/ siltstone/ igneous-metamorphic/ Montrose County/ Mesa County/ Moffat County/ Browns Park Formation/
- Gulliotte, G. B., 1944
reconnaissance/ uranium/ ore deposits/ Front Range/ igneous-metamorphic/ Park County/ Boulder County/ Jamestown district/ Larimer County/ Masonville mines/ Chaffee County/ Trout Creek permatites/ Clear Creek County/ carnotite/
- Gulliotte, G. B., 1944
reconnaissance/ uranium/ ore deposits/ Gilpin County/ igneous-metamorphic/ Kirk mine/ Wood mine/ Belcher mine/ Front Range/ Central City district/ geology/ mining/ Quartz Hill area/
- Gulliotte, G. B., 1944
uranium/ ore deposits/ Grover pegmatite mine/ igneous-metamorphic/ Clear Creek County/ Front Range/ columbite/ North Beaver Brook area/
- Gulliotte, G. B., 1945
Gunnison County/ geology/ ore deposits/ Box Canyon mining district/ igneous-metamorphic/ microlite/ dikes/ schist/ granite/ lepidolite/ topaz/ albite/ Brown Derby pegmatite/
- Gustafson, J. K., 1949
uranium/ resources/ veins/ Gilpin County/ Front Range/ Boulder County/ igneous-metamorphic/ pitchblende/ vanadium/ Morrison Formation/ sandstone/ Montrose County/ Mesa County/ San Miguel County/ Colorado Plateau/
- Hall, C. R., 1976
alkalic/ igneous rocks/ igneous-metamorphic/ Gilpin County/ Front Range/ bibliography/ San Juan County/ Custer County/ Fremont County/ La Plata County/ Montezuma County/ Gunnison County/ Saguache County/ El Paso County/ Rio Grande County/ Jefferson County/ Larimer County/ Boulder County/ Colorado Plateau/ Clear Creek County/ Teller County/
- Hanley, E. S., 1948
El Paso County/ Golden Cycle mill dump/ tailings/ Cripple Creek ore/ Teller County/ Front Range/ igneous-metamorphic/
- Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
pegmatites/ geology/ mineralogy/ Chaffee County/ Boulder County/ Clear Creek County/ Douglas County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Montrose County/ Park County/ monazite/ thorium/ production/ Front Range/ El Paso County/ igneous-metamorphic/ Colorado Plateau/ Wyoming/ Utah/ Summit County/
- Hansen, W. R., and Peterman, Z. E., 1968
geochronology/ Black Canyon of the Gunnison/ basement rocks/ Gunnison County/ igneous-metamorphic/ Montrose County/
- Harder, J. O., and Stead, F. W., 1945
Boulder County/ Gilpin County/ Gunnison County/ Mesa County/ Teller County/ ore deposits/ sandstone/ igneous-metamorphic/ reconnaissance/ Front Range/ Colorado Plateau/ Jefferson County/
- Harder, J. O., and Wyant, D. G., 1944
Central City district/ Cripple Creek/ Jamestown district/ Nederland district/ Boulder County/ Gilpin County/ Gunnison County/ Teller County/ Clear Creek County/ ore deposits/ igneous-metamorphic/ reconnaissance/ Precambrian rocks/ granite/ veins/ Brown Derby Pegmatite/ Calhoun mine/ Belcher mine/ trace elements/ Front Range/

- Harrison, J. E., 1952
Clear Creek County/ ore deposits/ Front Range/
Spring Gulch/ Lawson-Dumont district/ pegmatite/
granite/ schist/ minerals/ autunite/ metatorbernite/
pitchblende/ Martha E prospect/ Igneous-metamorphic/
Idaho Springs area/
- Harrison, J. E., 1953
fracture patterns/ Freeland-Lamartine district/
Colorado/ Clear Creek County/ Igneous-metamorphic/
veins/ Gilpin County/ thorium/ hypogene zoning/
Front Range/
- Harrison, J. E., 1953
Freeland-Lamartine district/ Clear Creek County/
veins/ Igneous-metamorphic/ Gilpin County/ Front
Range/
- Harrison, J. E., 1955
fracture patterns/ Freeland-Lamartine district/
Clear Creek County/ Igneous-metamorphic/ Gilpin
County/ veins/ thorium/ hypogene zoning/ Front
Range/
- Harrison, J. E., and Leonard, B. F., 1952
Front Range/ Clear Creek County/ Lawson-Dumont
district/ pitchblende/ Jo Reynolds mine/ veins/
stratigraphy/ Idaho Springs Formation/ Precambrian
rocks/ Igneous-metamorphic/ structure/ ore deposits/
geology/ metamorphic rocks/ bostonite porphyry/
economic geology/
- Harrison, J. E., and Leonard, B. F., 1952
Front Range/ Clear Creek County/ Lawson-Dumont
district/ pitchblende/ Jo Reynolds mine/ veins/
stratigraphy/ Idaho Springs Formation/ Precambrian
rocks/ igneous-metamorphic/ structure/ ore deposits/
geology/ metamorphic rocks/ bostonite porphyry/
economic geology/
- Harrison, J. E., and Wells, J. D., 1953
Igneous-metamorphic/ Clear Creek County/ Freeland
district/ Chicago Creek area/ structure/ pitchblende/
Front Range/
- Harrison, J. E., and Wells, J. D., 1954
Freeland-Lamartine district/ Front Range/ autunite/
dumontite(?)/ Ariadne mine/ Belle Creole mine/
Invincible mine/ Golden Rod mine/ veins/ stratigraphy/
Idaho Springs Formation/ igneous-metamorphic/
geology/ ore deposits/ Lone Tree mine/ Clear
Creek County/ Belle of the West (mine) tunnel/
- Harrison, J. E., and Wells, J. D., 1956
Clear Creek County/ Chicago Creek area/ Front
Range/ mineralogy/ petrology/ geochemistry/
breccia reefs/ pitchblende/ igneous-metamorphic/
intrusive igneous rocks/ uranium/
- Harrison, J. E., and Wells, J. D., 1956
veins/ ore deposits/ production/ geology/ bostonite/
alaskite/ migmatite/ Freeland-Lamartine district/
Clear Creek County/ igneous-metamorphic/ metamorphic
rocks/ Front Range/
- Harrison, J. E., and Wells, J. D., 1959
Clear Creek County/ Chicago Creek area/ Front
Range/ mineralogy/ petrology/ geochemistry/
- breccia reefs/ minerals/ pitchblende/ intrusive
igneous rocks/ pegmatites/ veins/ uranium/ geology/
genesis/ production/ ore deposits/ igneous-metamorphic/
- Hart, S. R., 1964
petrology/ isotopes/ minerals/ contact zone/
Front Range/ Igneous-metamorphic/ age dating/
- Hawley, C. C., and Moore, F. B., 1955
Fall River area/ ore deposits/ genesis/ garnet/
quartz/ Clear Creek County/ veins/ uranium/
ore controls/ igneous-metamorphic/ pitchblende/
wall rocks/ Front Range/ geology/
- Hawley, C. C., and Moore, F. B., 1967
Clear Creek County/ ore deposits/ resources/
Front Range/ geology/ genesis/ Lawson-Dumont-Fall
River district/ veins/ Idaho Springs Formation/
Precambrian rocks/ igneous-metamorphic/
- Hedge, C. E., Peterman, Z. E., Case, J. E., and
others, 1968
Precambrian rocks/ geochronology/ Uncompahgre
Plateau/ Mesa County/ igneous-metamorphic/ Utah/
Colorado Plateau/
- Hedlund, D. C., and Olson, J. C., 1958
Gunnison County/ ore deposits/ thorium/ veins/
Gateview quadrangle/ igneous-metamorphic/ geology/
- Hedlund, D. C., and Olson, J. C., 1961
thorium/ rare earths/ niobium/ Powderhorn district/
Colorado/ Gunnison County/ igneous rocks/ carbonatite/
monazite/ pyrochlore/ veins/ thorite/ dikes/
igneous-metamorphic/ minerals/ ore deposits/
geology/
- Hedlund, D. C., and Olson, J. C., 1973
Gunnison County/ Carpenter Ridge quadrangle/
igneous-metamorphic/ thorium/ map/ geology/
ore deposits/ Black Canyon Schist/
- Hedlund, D. C., and Olson, J. C., 1974
Gunnison County/ Saguache County/ igneous-metamorphic/
thorium/ Iris NW quadrangle/ map/ geology/ ore
deposits/
- Hedlund, D. C., and Olson, J. C., 1975
geology/ Powderhorn quadrangle/ Gunnison County/
igneous-metamorphic/ ore deposits/ thorium/
map/ niobium/ carbonatite/ alkaline rocks/ Saguache
County/
- Heinicke, J. H., 1960
ore deposits/ resources/ reserves/ Gunnison
County/ production/ thorium/ Fremont County/
Custer County/ igneous-metamorphic/
- Heinrich, E. W., 1948
pegmatites/ thorium/ rare earth minerals/ Chaffee
County/ Fremont County/ monazite/ igneous-metamorphic/
ore deposits/ fluorite/
- Heinrich, E. W., 1958
thorium/ pegmatites/ Lake George area/ South
Platte area/ Douglas County/ Teller County/
Park County/ igneous-metamorphic/ mineralogy/
analyses/ rare earth minerals/

- Heinrich, E. W., and Bever, J. E., 1957
Guffey area/ igneous-metamorphic/ radioactive minerals/ pegmatites/ Park County/ Fremont County/
- Heinrich, E. W., and Dahlem, D. H., 1957
Brown Derby pegmatites/ pegmatite/ Gunnison County/ monazite/ thorium/ igneous-metamorphic/ mineralogy/ niobium (columbite)/ stibiotantalite/
- Heinrich, E. W., and Dahlem, D. H., 1966
Guffey area/ igneous-metamorphic/ radioactive minerals/ pegmatites/ Park County/ Fremont County/ carbonatite/ Arkansas River Canyon area/
- Heinrich, E. W., and Dahlem, D. H., 1967
carbonatites/ alkalic rocks/ Fremont County/ McClure Mountain/ Iron Mountain/ geology/ petrography/ genesis/ igneous-metamorphic/ Arkansas River area/
- Heinrich, E. W., and Dahlem, D. H., 1967
carbonatites/ alkalic rocks/ Fremont County/ McClure Mountain/ Iron Mountain/ geology/ petrography/ genesis/ igneous-metamorphic/ Arkansas River area/
- Heinrich, E. W., and Dahlem, D. H., 1970
Fremont County/ igneous-metamorphic/ dikes/ Iron Mountain alkalic complex/ alkalic rocks/ McClure Mountain alkalic complex/
- Heinrich, E. W., and Reuss, R. L., 1969
Fremont County/ Custer County/ igneous-metamorphic/ petrology/ carbonatites/ Gem Park/ gabbro/ intrusives/
- Heinrich, E. W., and Shappirio, J. R., 1966
alkaline rocks/ carbonatites/ Arkansas River Canyon/ Iron Mountain/ McClure Mountain/ geology/ mineralogy/ petrology/ amethyst carbonatites/ Fremont County/ igneous-metamorphic/
- Heinrich, E. W., Borup, R. A., and Levinson, A. A., 1958
thorium/ pegmatites/ monazite/ Colorado/ Brown Derby mine/ igneous-metamorphic/ analyses/ Gunnison County/ rare earth minerals/
- Heyse, J. V., 1971
uranium/ mineralogy/ petrology/ Schwartzwalder mine/ Jefferson County/ age estimation/ emission spectroscopy/ uraninite/ ore deposits/ Front Range/ geochemistry/ igneous-metamorphic/ paragenesis/ pitchblende/
- Hickling, N. L., 1965
Boulder Creek batholith/ allanite/ mineralogy/ epidote/ igneous-metamorphic/ Boulder County/ analyses/ geochemistry/ Precambrian rocks/ Front Range/
- Hickling, N. L., 1965
Boulder Creek batholith/ allanite/ mineralogy/ epidote/ igneous-metamorphic/ Boulder County/ analyses/ geochemistry/ Precambrian rocks/ Front Range/
- Hickling, N. L., Phair, G., Moore, R., and others, 1970
Boulder Creek batholith/ uranium/ thorium/ age patterns/ allanite/ mineralogy/ genesis/ paragenesis/
- Igneous-metamorphic/ Jefferson County/ Clear Creek County/ Gilpin County/ Boulder County/ Larimer County/ Summit County/ Grand County/ Front Range/ Silver Plume batholith/
- High, T. D., 1970
uranium/ vanadium/ mines/ sandstone/ reports/ Dolores County/ Gunnison County/ Little Indian property/ Mesa County/ Montrose County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/
- High, T. D., 1971
uranium/ vanadium/ mines/ sandstone/ Dolores County/ Montrose County/ Saguache County/ Pitch mine/ igneous-metamorphic/ San Miguel County/ Colorado Plateau/ Mesa County/
- High, T. D., 1972
uranium/ vanadium/ mines/ reports/ sandstone/ Montrose County/ San Miguel County/ Mesa County/ Saguache County/ igneous-metamorphic/ Pitch mine/ Colorado Plateau/ Dolores County/
- Hill, J. M., 1945
Gilpin County/ Kirk mine/ geology/ sampling/ unwatering/ igneous-metamorphic/ Front Range/ Quartz Hill area/
- Hill, N. P., 1873
pitchblende/ tellurium/ gold/ igneous-metamorphic/ Colorado/ ore deposits/
- Hillebrand, F. A., and Conklin, N. M., 1974
breccia dikes/ rare earths/ Iron Hill/ Custer County/ igneous-metamorphic/ thorium/ apatite/ molybdenite/ magnetite/
- Hillebrand, W. F., 1890
ore deposits/ geochemistry/ nitrogen/ uraninite/ Black Hawk mine/ analyses/ Gilpin County/ Front Range/ igneous-metamorphic/
- Hillebrand, W. F., 1890
ore deposits/ uraninite/ geochemistry/ nitrogen/ Black Hawk/ Gilpin County/ igneous-metamorphic/ analyses/ Front Range/
- Hirschl, H., 1923
igneous-metamorphic/ Clear Creek County/ volcanic rocks/ pitchblende/ Central City district/ genesis/ Front Range/
- Holmes, W. H., 1878
Dolores County/ San Miguel County/ La Plata County/ San Miguel Mountains/ geology/ Colorado Plateau/ igneous-metamorphic/ sandstone/ Sierra Abajo Mountains/
- Hunt, C. B., 1958
structural geology/ igneous geology/ La Sal Mountains/ Utah/ stratigraphy/ genesis/ economic geology/ Mesa County/ Montrose County/ Colorado/ igneous-metamorphic/ Colorado Plateau/
- Hurley, P. M., and Fairbairn, H. W., 1957
uranium/ thorium/ zircon/ analyses/ Front Range/ sphene/ apatite/ epidote/ monazite/ granite/

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IGNEOUS-METAMORPHIC

- minerals/ pegmatites/ mineralogy/ Climax/ Colorado/ Massachusetts/ Nova Scotia/ Canada/ Germany/ El Paso County/ Eagle County/ Lake County/ Summit County/ Igneous-metamorphic/
- International Atomic Energy Agency, 1970
uranium/ exploration/ geology/ ore deposits/ United States/ sandstone/ igneous-metamorphic/
- International Atomic Energy Agency, 1974
uranium/ ore deposits/ genesis/ United States/ sandstone/ igneous-metamorphic/
- Irving, J. D., and Bancroft, H., 1911
geology/ ore deposits/ igneous-metamorphic/ Hinsdale County/ San Juan Mountains/ production/ volcanic rocks/ Lake City area/
- Izett, G. A., and Hoover, D. L., 1963
geology/ map/ Hot Sulphur Springs SE quadrangle/ quartz monzonite/ igneous-metamorphic/ Grand County/ Middle Park Formation/ siltstone/ sandstone/ conglomerate/ arkose/ Lucky Jack mine/ Precambrian rocks/
- Izett, G. A., Denson, N. M., and Obradovich, J. D., 1970
Browns Park Formation/ sandstone/ Moffat County/ volcanic rocks/ igneous-metamorphic/ K-Ar age dating/ stratigraphy/ Colorado Plateau/
- Jensen, F. S., 1957
Fremont County/ Tallahassee Creek district/ ore deposits/ uranium/ sandstone/ arkose/ volcanic detritus/ igneous-metamorphic/ Dickson-Snooper mine/ Sunshine mine/
- Kaiser, E. P., and Page, L. R., 1952
ore deposits/ Colorado/ uranium/ United States/ sandstone/ Front Range/ igneous-metamorphic/ Colorado Plateau/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/
- Keevil, N. B., 1941
uranium/ exploration/ Gilman district/ Eagle County/ ore deposits/ radioactive aureoles/ veins/ igneous-metamorphic/
- Keevil, N. B., 1941
ore deposits/ resources/ production/ uranium/ exploration/ Gilman district/ Eagle County/ igneous-metamorphic/ veins/ radioactive aureoles/
- Keevil, N. B., 1942
radioactive aureoles/ ore deposits/ uranium/ exploration/ Gilman district/ Eagle County/ igneous-metamorphic/ veins/
- Kelly, F. N., 1962
thorium/ Wet Mountains/ Custer County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Park County/ mineralogy/ Powderhorn district/ rare earths/ resources/ igneous-metamorphic/ Colorado/ Wyoming/ New Mexico/ economics/ Front Range/ Gilpin County/
- Kerr, P. F., 1950
uraninite/ Canada/ Idaho/ Lake Superior/ Caribou mine/ Wood's Hole/ Colorado/ Radium vein/ Boulder County/ igneous-metamorphic/ Front Range/ mineralogy/ veins/ ore deposits/
- Kerr, P. F., 1956
veins/ alteration/ exploration/ uranium/ geology/ Jamestown district/ Colorado Plateau/ Colorado/ sandstone/ Front Range/ igneous-metamorphic/ fluorite/ Boulder County/
- Kerr, P. F., 1956
uranium/ thorium/ veins/ sediments/ Front Range/ ore deposits/ sandstone/ fluorite/ geology/ Colorado Plateau/ igneous-metamorphic/
- Kerr, P. F., 1956
veins/ alteration/ exploration/ uranium/ geology/ Colorado Plateau/ Colorado/ sandstone/ Jamestown district/ Front Range/ igneous-metamorphic/ fluorite/ Boulder County/
- Kerr, P. F., and Jacobs, M. B., 1964
Colorado Plateau/ ore deposits/ mineralization/ alteration/ argillization/ clay/ genesis/ sandstone/ uranium/ siltstone/ igneous-metamorphic/
- Kerr, P. F., Anderson, T. P., and Hamilton, Peggy-Kay, 1951
veins/ Bellevue-Rochester mine/ igneous-metamorphic/ Clear Creek County/ alteration/ Front Range/ geology/
- King, R. U., 1950
Boulder County/ pitchblende/ veins/ igneous-metamorphic/ Precambrian rocks/ Caribou mine/ geology/ ore deposits/ No Name vein/ Radium vein/ silver/ uranium/ lead/ zinc/ analyses/ Front Range/
- King, R. U., 1950
Gilpin County/ Apex claims/ Bates Creek/ Front Range/ ore deposits/ geology/ igneous-metamorphic/

- King, R. U., 1950
Central City district/ Gilpin County/ pitchblende/
Wood mine/ igneous-metamorphic/ Front Range/
ore deposits/ geology/
- King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/
pitchblende/ Boulder County/ Clear Creek County/
Gilpin County/ Chaffee County/ Custer County/
El Paso County/ Fremont County/ Huerfano County/
Jefferson County/ Larimer County/ Teller County/
veins/ igneous-metamorphic/ stream sediments/
spring deposits/ shear zones/ pegmatites/ sandstone/
coal/ Eagle County/ Grand County/ Gunnison County/
Lake County/ Moffat County/ ore deposits/ Douglas
County/ San Miguel County/ Summit County/
- King, R. U., 1951
Lawson area/ Clear Creek County/ Jo Reynolds
mine/ minerals/ pitchblende/ Precambrian rocks/
veins/ igneous-metamorphic/ ore deposits/ geology/
schist/ granite/ Eilda tunnel/ Front Range/
- King, R. U., 1951
Wood mine/ ore deposits/ pitchblende/ Gilpin
County/ igneous-metamorphic/ Front Range/ Central
City district/ geology/
- King, R. U., 1952
ore deposits/ Boulder County/ Caribou mine/
veins/ No Name vein/ Radium vein/ uranium/ geology/
igneous-metamorphic/ Front Range/ pitchblende/
- King, R. U., 1952
uranium/ veins/ Caribou mine/ Boulder County/
Front Range/ igneous-metamorphic/ pitchblende/
ore deposits/ geology/
- King, R. U., 1953
reconnaissance/ Front Range/ igneous-metamorphic/
Clear Creek County/ Park County/ Summit County/
geology/ ore deposits/ Boulder County/
- King, R. U., 1954
ore deposits/ exploration/ veins/ Raiston Creek
district/ Jefferson County/ Copperdale/ Lake
George/ Park County/ geology/ igneous-metamorphic/
Front Range/
- King, R. U., and Beroni, E. P., 1953
igneous-metamorphic/ reconnaissance/ Jefferson
County/ Park County/ El Paso County/ Clear Creek
County/ prospects/ uranium/ thorium/ Front Range/
ore deposits/ geology/
- King, R. U., and Granger, H. C., 1952
Clear Creek County/ torbernite/ George Peabody
claim/ Little MacGregor claim/ Robineau claims/
Front Range/ granite/ pegmatites/ veins/ Little
Mac claim/ ore deposits/ geology/ igneous-metamorphic/
- King, R. U., and Moore, F. B., 1951
pitchblende/ ore deposits/ Clear Creek County/
Colorado/ Boulder County/ Front Range/ sandstone/
igneous-metamorphic/ sedimentary rocks/ Jefferson
County/ geology/ Gilpin County/
- King, R. U., and Theobald, P. K., Jr., 1955
Canon City/ Idledale/ ore deposits/ exploration/
Jefferson County/ veins/ FMD mine/ Front Range/
geology/ igneous-metamorphic/ Fremont County/
- King, R. U., and Theobald, P. K., Jr., 1955
veins/ Gilpin County/ Blackhawk district/ Silver
Hill area/ igneous-metamorphic/ geology/ Front
Range/ ore deposits/
- King, R. U., Leonard, B. F., Moore, F. B., and
others, 1952
Front Range/ Boulder County/ Clear Creek County/
Garfield County/ Gilpin County/ Jefferson County/
Larimer County/ Moffat County/ Pitkin County/
pitchblende/ hydrocarbons/ Kiowa County/ Rio
Blanco County/ Routt County/ hot spring deposits/
limestone/ pegmatites/ sandstone/ veins/ breccia
pipes/ igneous-metamorphic/ Park County/ Lake
County/ geology/ mineralogy/ San Miguel County/
ore deposits/ metal-mining districts/ Huerfano
County/ Eagle County/
- King, R. U., Leonard, B. F., Moore, F. B., and
others, 1953
Front Range/ Boulder County/ Clear Creek County/
Garfield County/ Gilpin County/ Jefferson County/
Larimer County/ Moffat County/ Pitkin County/
pitchblende/ hydrocarbons/ hot spring deposits/
limestone/ sandstone/ veins/ breccia pipes/
igneous-metamorphic/ Park County/ Lake County/
geology/ mineralogy/ San Miguel County/ ore
deposits/ metal-mining districts/ Kiowa County/
Rio Blanco County/ Routt County/ Huerfano County/
Eagle County/
- King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/ Boulder County/ Clear Creek County/
Garfield County/ Gilpin County/ Jefferson County/
Kiowa County/ Larimer County/ Moffat County/
Pitkin County/ Rio Blanco County/ Routt County/
ore guides/ pitchblende/ hydrocarbons/ metal-mining
districts/ ore deposits/ limestone/ sandstone/
veins/ breccia pipes/ Eagle County/ hot spring
deposits/ fluorite/ igneous-metamorphic/
- King, R. U., Moore, F. B., and Hinrichs, E. N., 1952
veins/ Colorado/ uranium/ Central City district/
Front Range/ San Miguel County/ pitchblende/
ore deposits/ Larimer County/ Jefferson County/
Gilpin County/ Raiston Creek district/ Jamestown
district/ Caribou district/ Lawson district/
Clear Creek County/ igneous-metamorphic/
- Klepper, M. R., and Wyant, D. G., 1956
uranium/ United States/ Colorado/ geochemistry/
genesis/ exploration/ provinces/ ore deposits/
veins/ sandstone/ igneous-metamorphic/ Colorado
Plateau/ Front Range/
- Klepper, M. R., and Wyant, D. G., 1956
uranium/ provinces/ United States/ Colorado/
ore deposits/ geochemistry/ genesis/ exploration/
veins/ sandstone/ igneous-metamorphic/ Colorado
Plateau/ Front Range/

- Klepper, M. R., and Wyant, D. G., 1956
uranium/ geology/ geochemistry/ ore deposits/
genesis/ igneous-metamorphic/ sandstone/ exploration/
- Klepper, M. R., and Wyant, D. G., 1957
geology/ geochemistry/ genesis/ ore deposits/
sandstone/ exploration/ uranium/ igneous-metamorphic/
- Knox, M. S., 1947
Gilman district/ Colorado/ Santa Rita district/
New Mexico/ ore deposits/ alteration/ radioactivity/
Eagle County/ igneous-metamorphic/
- Knox-Bergman-Shearer Corp., 1970
geology/ structure/ map/ igneous-metamorphic/
Front Range/
- Kober, C. L., and Procter-Gregg, H. D., 1977
uranium/ alteration zones/ LANDSAT MSS imagery/
Jefferson County/ Boulder County/ Mesa County/
Montrose County/ San Miguel County/ Colorado
Plateau/ Douglas County/ sandstone/ Front Range/
igneous-metamorphic/
- Kruslewski, S. V., 1970
uranium/ bibliography/ geology/ geochemistry/
radioactivity/ mineralogy/ ore deposits/ Colorado
Plateau/ Front Range/ sandstone/ igneous-metamorphic/
- Lahr, M., 1974
Front Range/ map/ Schwartzwalder mine/ Jefferson
County/ igneous-metamorphic/ ore deposits/ Ralston
Buttes quadrangle/
- Langford, F. F., 1974
uranium/ Australia/ supergene/ genesis/ Front
Range/ veins/ calcrite/ carnotite/ ore deposits/
igneous-metamorphic/ sandstone/ Colorado Plateau/
Jefferson County/ Montrose County/ San Miguel
County/
- Langford, F. F., 1977
genesis/ surficial origin/ pitchblende/ ore
deposits/ uranium/ igneous-metamorphic/ surface
waters/ sandstone/ Colorado Plateau/ Front Range/
Jefferson County/ Montrose County/ San Miguel
County/
- Larsen, E. S., 1942
Iron Hill/ Gunnison County/ geology/ alkalic
rocks/ petrology/ igneous-metamorphic/
- Larsen, E. S., 3d, 1957
analyses/ Colorado/ Wyoming/ Montana/ quartz
monzonite/ granite/ Log Cabin batholith/ solubility/
uranium/ thorium/ Front Range/ Gilpin County/
Clear Creek County/ Boulder County/ Sherman
batholith/ igneous-metamorphic/
- Larsen, E. S., and Berman, Harry, 1926
gilpinite/ geochemistry/ Gilpin County/ uranium/
igneous-metamorphic/ johannite/ mineralogy/
Front Range/
- Larsen, E. S., and Brown, G. V., 1917
gilpinite/ uranium/ Gilpin County/ Front Range/
igneous-metamorphic/ geochemistry/ mineralogy/
- Larsen, E. S., and Cross, C. W., 1956
geology/ petrology/ San Juan region/ Colorado
Plateau/ igneous-metamorphic/ Montrose County/
Ouray County/ San Miguel County/ Dolores County/
La Plata County/ Gunnison County/ Hinsdale County/
Archuleta County/ Mineral County/ Saguache County/
Conejos County/ Alamosa County/ San Juan County/
Montezuma County/ Rio Grande County/
- Larsen, E. S., and Phair, George, 1954
uranium/ thorium/ igneous-metamorphic/ Front
Range/ dikes/ stocks/ minerals/ porphyry/ San
Juan Mountains/ calc-alkalic rocks/ San Juan
County/ Ouray County/ Hinsdale County/ Cripple
Creek/ Teller County/ quartz-bostonite/ geochemistry/
- Larsen, E. S., Gottfried, David, and Molloy, Marjorie,
1958
San Juan Mountains/ ore deposits/ Ouray County/
volcanic rocks/ San Juan County/ Hinsdale County/
igneous-metamorphic/
- Larsen, E. S., Jr., and Gottfried, David, 1961
uranium/ rocks/ minerals/ batholiths/ Mesozoic/
Colorado/ igneous-metamorphic/
- Lee, H. A., 1901
ore deposits/ uranium/ Colorado/ Colorado Plateau/
sandstone/ Front Range/ igneous-metamorphic/
- Lee, H. A., 1901
Colorado/ mining/ Colorado Plateau/ sandstone/
Front Range/ igneous-metamorphic/
- Leonard, B. F., 3d, 1952
Front Range/ ore deposits/ pitchblende/ hypogene
zoning/ veins/ uranium/ Larimer County/ Boulder
County/ Jefferson County/ Gilpin County/ Clear
Creek County/ igneous-metamorphic/
- Leonard, B. F., 3d, 1952
veins/ Front Range mineralogy/ petrology/ pitchblende/
geochemistry/ ore deposits/ uranium/ Central
City district/ bostonite/ Gilpin County/ Clear
Creek County/ Larimer County/ Boulder County/
Jefferson County/ hypogene zoning/ igneous-metamorphic/
- Leonard, B. F., 3d, 1952
Central City district/ Front Range/ pitchblende/
base metals/ precious metals/ Clear Creek County/
igneous-metamorphic/ Gilpin County/ zoning/
ore deposits/
- Leonard, B. F., 3d, 1953
ore deposits/ zoning/ pitchblende/ hypogene
zoning/ Front Range/ igneous-metamorphic/ Central
City district/ Gilpin County/ Clear Creek County/
- Leonard, B. F., 3d, 1953
pitchblende/ ore deposits/ zoning/ Lake County/
Front Range/ Gilpin County/ Clear Creek County/
igneous-metamorphic/ Pitkin County/ Teller County/
San Juan County/ Coeur d'Alene/ Idaho/
- LeRoy, L. W., 1969
Precambrian rocks/ stratigraphy/ Golden area/
Gilpin County/ Front Range/ igneous-metamorphic/
Jefferson County/

- Lickus, R. J., and LeRoy, L. W., 1968
Precambrian rocks/ structure/ stratigraphy/
Front Range/ reconnaissance/ Golden area/ Jefferson
County/ igneous-metamorphic/
- Lindgren, Waldemar, 1933
copper/ lead/ vanadium/ uranium/ sandstone/
shale/ carnotite/ roscoelite/ Colorado Plateau/
Dolores County/ San Miguel County/ Mesa County/
Montrose County/ Entrada Sandstone/ La Plata
Sandstone/ McElmo Formation/ genesis/ Gilpin
County/ igneous-metamorphic/ ore deposits/ Front
Range/
- Lipman, P. W., Bunker, C. M., and Bush, C. A., 1973
basalt/ spectroscopy/ Cenozoic rocks/ potassium/
thorium/ uranium/ Rio Grande depression/ New
Mexico/ geochemistry/ ore composition/ Baca
County/ Las Animas County/ igneous-metamorphic/
Conejos County/ Costilla County/ Rio Grande
County/ Alamosa County/
- Lovering, T. G., and Beroni, E. P., 1956
Diamond J Ranch/ Golden Gate Canyon/ Haputa
Ranch area/ Ouray hot springs/ Chaffee County/
Custer County/ Gunnison County/ Jefferson County/
Ouray County/ radioactive ilmonite/ Lucky Break
Iron mine/ sandstone/ thorium/ uranium/ spring
deposits/ Front Range/ conglomerate/ limestone/
tuff/ analyses/ igneous-metamorphic/ ore deposits/
El Paso County/
- Lovering, T. G., and Beroni, E. P., 1959
Diamond J Ranch/ Golden Gate Canyon/ Haputa
Ranch area/ Ouray hot springs/ Chaffee County/
Custer County/ Gunnison County/ Jefferson County/
Ouray County/ radioactive ilmonite/ Lucky Break
Iron mine/ thorium/ uranium/ spring deposits/
Front Range/ sandstone/ conglomerate/ limestone/
tuff/ El Paso County/ igneous-metamorphic/ ore
deposits/
- Lovering, T. S., 1934
geology/ ore deposits/ Breckenridge mining district/
Summit County/ mineralogy/ igneous-metamorphic/
- Lovering, T. S., 1942
Front Range/ mineral belt/ ore deposits/ Clear
Creek County/ structural features/ igneous-metamorphic/
Gilpin County/ Boulder County/ Jefferson County/
- Lovering, T. S., and Goddard, E. N., 1938
Laramide/ tectonics/ differentiation/ Clear
Creek County/ correlation/ geochemistry/ petrology/
Boulder County/ Grand County/ Summit County/
Gilpin County/ Park County/ Larimer County/
Teller County/ Jefferson County/ Front Range/
igneous-metamorphic/
- Lovering, T. S., and Goddard, E. N., 1950
veins/ Front Range/ economic geology/ production/
uranium/ Quartz Hill/ Clear Creek County/ geology/
ore deposits/ Gilpin County/ bostonite/ porphyry/
igneous-metamorphic/ Central City district/
- Lovering, T. S., Lakin, H. W., Ward, F. N., and
others, 1956
geochemical techniques/ exploration/ uranium/
analyses/ geochemistry/ Front Range/ cobalt/
niobium/ igneous-metamorphic/
- Lovering, T. S., Lakin, H. W., Ward, F. N., and
others, 1956
geochemical techniques/ exploration/ uranium/
analyses/ geochemistry/ Front Range/ molybdenum/
vanadium/ selenium/ copper/ cobalt/ niobium/
igneous-metamorphic/
- Ludwig, K. R., and Young, E. J., 1975
uranium/ geology/ age dating/ isotopes/ radioactivity/
Rossing uranium deposit/ monazite/ uraninite/
Wheeler Basin/ Grand County/ gneiss/ absolute
age/ pegmatite/ migmatite/ igneous-metamorphic/
- MacPherson, B. A., 1959
uranium/ ore deposits/ geology/ stratigraphy/
topography/ lithology/ mineralogy/ Fremont County/
igneous-metamorphic/ volcanics/ conglomerate/
arkose/ uraninite/ Sunshine mine/ genesis/ ore
controls/ Mary L mine/ Tallahassee Creek district/
Dickson-Snooper mine/
- Malan, R. C., 1956
uranium/ fluorite/ mineralization/ stratigraphy/
geology/ Jackson County/ igneous-metamorphic/
ore deposits/
- Malan, R. C., 1957
North Park/ Middle Park/ ore deposits/ Grand
County/ igneous-metamorphic/ Jackson County/
Routt County/ peat/ sandstone/ Pedad claims/
Northgate district/ Beaver Creek area/ Troublesome
Creek area/ Rabbit Ears Pass area/
- Malan, R. C., 1968
Colorado/ ore deposits/ genesis/ La Plata County/
San Juan County/ New Mexico/ metallogenesis/
San Miguel County/ structures/ Colorado Plateau/
San Juan-San Miguel-La Plata region/ veins/
igneous-metamorphic/
- Malan, R. C., 1972
Arizona/ California/ Colorado/ Nevada/ Wyoming/
geology/ ore deposits/ uranium/ thorium/ quantitative
chemical analysis/ sedimentary rocks/ chemical
composition/ Precambrian rocks/ igneous-metamorphic/
Front Range/
- Malan, R. C., and Ranspot, H. W., 1959
Cochetopa district/ ore deposits/ areal geology/
resources/ reserves/ Saguache County/ Gunnison
County/ uranium/ pitchblende/ igneous-metamorphic/
- Malan, R. C., and Sterling, D. A., 1969
ore deposits/ Precambrian rocks/ Colorado Plateau/
Nevada/ California/ New Mexico/ Arizona/ uranium/
geology/ thorium/ Colorado/ igneous-metamorphic/
resources/ Front Range/
- Malan, R. C., and Sterling, D. A., 1970
uranium/ thorium/ minerals/ ore deposits/ geology/
Colorado/ Utah/ Wyoming/ South Dakota/ Montana/
Idaho/ Washington/ ore composition/ potassium/
reserves/ Precambrian rocks/ igneous-metamorphic/
resources/ Front Range/

- Malan, R. C., Ranspot, H. W., and Spengler, R. G., 1957.
sandstone/ Saguache County/ Cochetopa district/ geology/ stratigraphy/ structure/ ore deposits/ Thornburg mine/ Los Ochos claims/ Kathy Jo claims/ LaRue claims/ veins/ igneous-metamorphic/ Morrison Formation/ Dakota Sandstone/ granite/ faults/ solutions/ mineralogy/
- Mallory, N. S., and Bird, A. G., 1953
exploration/ geology/ Jefferson County/ Ralston Creek area/ Dawson arkose/ James Peak area/ Boulder County/ Adams County/ Larimer County/ Gilpin County/ igneous-metamorphic/ Idaho Springs Formation/ sandstone/ Dakota Sandstone/ Morrison Formation/ Front Range/
- Marjanleml, D. K., and Basler, A. L., 1972
exploration/ quantitative chemical analysis/ uranium/ thorium/ potassium/ gamma spectroscopy/ geochemistry/ plutonic rocks/ veins/ ore deposits/ igneous-metamorphic/ Colorado/
- Marrs, L. F., 1970
ore treatment/ ion exchange/ Saguache County/ Pitch mine/ underground leaching/ igneous-metamorphic/ veins/ faults/ sandstone/ limestone/
- Marvin, R. F., Young, E. J., Mehnert, H. H., and others, 1974
radiometric ages/ Mesozoic/ Cenozoic/ uranium/ base metals/ ore deposits/ age dating/ Front Range/ igneous-metamorphic/
- Maxwell, C. H., 1955
bedrock geology/ Front Range/ igneous-metamorphic/ Jefferson County/
- McKelvey, V. E., 1953
Colorado Plateau/ Dolores County/ Mesa County/ exploration/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ phosphates/ shale/ placers/
- McKelvey, V. E., 1953
veins/ Dolores County/ Mesa County/ exploration/ sandstone/ igneous-metamorphic/ Front Range/ pegmatites/ geobotany/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ Colorado Plateau/ phosphates/ shale/ placers/
- McKelvey, V. E., 1954
Dolores County/ Mesa County/ exploration/ carnotite/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ veins/ Colorado Plateau/ phosphates/ shale/ placers/
- McKelvey, V. E., 1955
ore deposits/ exploration/ veins/ bituminous substances/ coal/ sandstone/ phosphates/ United States/ Dolores County/ Mesa County/ Gilpin County/ igneous-metamorphic/ Clear Creek County/
- Montrose County/ San Miguel County/ Front Range/ Colorado Plateau/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1955
genesis/ uranium/ ore deposits/ veins/ bituminous substances/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ Montrose County/ San Miguel County/ Mesa County/ igneous-metamorphic/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1955
veins/ bituminous substances/ genesis/ uranium/ ore deposits/ igneous-metamorphic/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ San Miguel County/ Montrose County/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ ore deposits/ migmatites/ sandstone/ shale/ igneous-metamorphic/ Colorado/ Colorado Plateau/ San Juan County/ San Miguel County/ Jefferson County/ Montrose County/ Old Leyden mine/ coal/ Gilpin County/ Clear County/ uranium/ Front Range/ genesis/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ Colorado/ genesis/ uranium/ ore deposits/ pegmatites/ migmatites/ San Miguel County/ sandstone/ coal/ shale/ Front Range/ Colorado Plateau/ San Juan County/ replacement/ Jefferson County/ Montrose County/ Old Leyden mine/ Mesa County/ Gilpin County/ igneous-metamorphic/ phosphorites/ Clear Creek County/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1952
uranium/ ore deposits/ igneous-metamorphic/ sandstone/ shale/ phosphorites/ Colorado Plateau/ Colorado/ Front Range/
- McQueen, K., 1958
Saguache County/ Iris SE quadrangle/ photogeologic map/ sandstone/ Los Ochos mine/ uranium/ ore deposits/ structure/ Dakota Sandstone/ Morrison Formation/ igneous-metamorphic/ Los Ochos fault/ Doyleville SW quadrangle/
- Merewether, E. A., 1960
ore deposits/ resources/ maps/ igneous-metamorphic/ geology/ Front Range/ Colorado Plateau/

- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Front Range/ exploration/
Morrison Formation/ phosphates/ shale/ sandstone/
Igneous-metamorphic/ Mesa County/ Montrose County/
San Miguel County/ Montezuma County/ Dolores
County/ Gilpin County/ Clear Creek County/ Garfield
County/ Boulder County/
- Merritt, P. L., 1950
uranium/ exploration/ Colorado Plateau/ sandstone/
Morrison Formation/ Entrada Sandstone/ Mesa
County/ San Miguel County/ Dolores County/ Montezuma
County/ Front Range/ Boulder County/ Gilpin
County/ Caribou district/ Igneous-metamorphic/
Montrose County/ Clear Creek County/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Morrison Formation/
Entrada Sandstone/ sandstone/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ Front Range/ Boulder County/ Gilpin
County/ Clear Creek County/ Caribou district/
Igneous-metamorphic/
- Merritt, R. C., and Pings, W. B., 1969
uranium ore treatment/ processing/ history/
mining/ Colorado Plateau/ sandstone/ Front Range/
Igneous-metamorphic/
- Merwin, S. S., 1956
Front Range/ ore deposits/ uranium/ Jefferson
County/ Gilpin County/ Clear Creek County/ Boulder
County/ Schwrtzwalder mine/ Caribou mine/ Wood
mine/ Igneous-metamorphic/
- Merwin, S. S., 1956
Front Range/ ore deposits/ ore controls/ Jefferson
County/ Boulder County/ Gilpin County/ Clear
Creek County/ Igneous-metamorphic/
- Miller, D. S., 1960
Colorado Plateau/ ore deposits/ genesis/ research/
data/ isotopes/ lead/ sulfur/ uranium/ age dating/
Colorado/ sandstone/ limestone/ volcanics/ San
Miguel County/ Igneous-metamorphic/
- Miller, D. S., and Kulp, J. L., 1963
Colorado Plateau/ Colorado/ uranium/ genesis/
ore deposits/ geochemistry/ age dating/ isotopes/
sandstone/ limestone/ volcanics/ Igneous-metamorphic/
- Moench, R. H., 1953
mapping/ Idaho Springs district/ Precambrian
rocks/ veins/ igneous-metamorphic/ mineralogy/
Stanley mines/ Lawrence L claim/ P. J. claim
(?)/ radioactivity/ Clear Creek County/ Gilpin
County/ Front Range/ geology/
- Moench, R. H., 1964
geology/ Precambrian rocks/ Idaho Springs district/
petrography/ Clear Creek County/ Gilpin County/
Igneous-metamorphic/ Front Range/
- Moench, R. H., and Drake, A. A., Jr., 1966
economic geology/ pitchblende/ coffinite/ uranophane/
Idaho Springs district/ Clear Creek County/
Gilpin County/ mineralogy/ ore deposits/ Front
Range/ production/ Igneous-metamorphic/
- Moench, R. H., Harrison, J. E., and Sims, P. K., 1954
Precambrian rocks/ structure/ Idaho Springs
district/ Front Range/ geology/ Gilpin County/
Jefferson County/ Igneous-metamorphic/ Clear
Creek County/
- Moench, R. H., Harrison, J. E., and Sims, P. K., 1962
Precambrian rocks/ structure/ Idaho Springs
district/ Central City district/ Front Range/
Gilpin County/ Clear Creek County/ Igneous-metamorphic/
- Moore, D. G., 1970
Custer County/ Fremont County/ Igneous-metamorphic/
thorium/ geology/ mineralogy/ genesis/ Wet Mountains/
feldspar rocks/ alkalic rocks/ carbonatite/
- Moore, F. B., 1953
Dumont-Fall River area/ Clear Creek County/
radioactivity/ veins/ Golden Calf mine/ Front
Range/ Igneous-metamorphic/
- Moore, F. B., and Butler, C. R., 1950
ore deposits/ Gilpin County/ Central City district/
pitchblende/ Calhoun (east and west) mines/
Wood mine/ base metals/ precious metals/ veins/
igneous-metamorphic/ Front Range/ geology/ reserves/
bostonite porphyry/
- Moore, F. B., and Butler, C. R., 1952
Gilpin County/ Central City district/ ore deposits/
pitchblende/ Wood mine/ Calhoun mine/ veins/
igneous-metamorphic/ Front Range/ bostonite/
porphyry/
- Moore, F. B., and Cavender, W. S., 1952
pitchblende/ Caribou mine/ Boulder County/ uranium/
igneous-metamorphic/ veins/ ore deposits/ Front
Range/
- Moore, F. B., and Cavender, W. S., 1952
veins/ Caribou mine/ Boulder County/ pitchblende/
igneous-metamorphic/ monzonite/ uranium/ Front
Range/ ore deposits/
- Moore, F. B., and Cavender, W. S., 1953
pitchblende/ Caribou mine/ Boulder County/ veins/
monzonite/ igneous-metamorphic/ ore deposits/
Front Range/
- Moore, F. B., and Hawley, C. C., 1952
geology/ ore deposits/ Lawson-Dumont-Fall River
district/ Clear Creek County/ Igneous-metamorphic/
Front Range/
- Moore, F. B., and Hawley, C. C., 1953
Dumont-Fall River district/ Clear Creek County/
igneous-metamorphic/ mapping/ veins/ radioactivity/
Front Range/
- Moore, F. B., Cavender, W. S., and Kaiser, E. P.,
1954
Boulder County/ Caribou area/ pitchblende/ ore
deposits/ geology/ igneous-metamorphic/ Belcher
mine/ Caribou mines/ Comstock mine/ Cross mine/
Great Northern mine/ Idaho mine/ No Name vein/
Poorman mine/ Potosi mine/ Radium vein/ Seven-thirty
mine/ Sherman mine/ Silver Point mine/ Socorro
mine/ Spencer mine/ Wigwam mine/ veins/ Front
Range/ St. Louis mine/

- Moore, F. B., Cavender, W. S., and Kaiser, E. P., 1957
Boulder County/ Caribou area/ pitchblende/ ore deposits/ geology/ igneous-metamorphic/ Belcher mine/ Caribou mines/ Comstock mine/ Cross mine/ Great Northern mine/ Idaho mine/ No Name vein/ Poorman mine/ Potosi mine/ Radium vein/ St. Louis mine/ Seven-thirty mine/ Sherman mine/ Silver Point mine/ Socorro mine/ Spencer mine/ Wigman mine/ veins/ Front Range/
- Moore, F. B., King, R. U., and Hinrichs, E. N., 1951
Caribou district/ Central City district/ Front Range/ Clear Creek County/ Gilpin County/ Boulder County/ ore deposits/ Grand Island district/ Jamestown district/ Lawson area/ Quartz Hill area/ fluorite deposits/ Calhoun mines/ Caribou mines/ Jo Reynolds mine/ Kirk mine/ Wood mine/ pitchblende/ breccia deposits/ igneous-metamorphic/ exploration/
- Moya, E. A., 1969
structure/ stratigraphy/ analyses/ Precambrian rocks/ North Clear Creek area/ Jefferson County/ Gilpin County/ igneous-metamorphic/ Front Range/
- Muench, O. B., 1940
Colorado/ pitchblende/ lead/ uranium/ pegmatites/ igneous-metamorphic/ Front Range/
- Murray, D. K., 1976
energy resources/ map/ uranium/ coal/ oil/ gas/ geothermal/ Colorado/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/
- Nash, J. T., 1975
fluid inclusions/ veins/ breccia pipes/ replacement ores/ ore deposits/ San Juan Mountains/ San Miguel County/ Ouray County/ igneous-metamorphic/
- Nash, W. P., 1970
mineralogy/ petrology/ Iron Hill complex/ carbonatite/ Powderhorn district/ Gunnison County/ thorium/ geothermometry/ igneous-metamorphic/
- Nash, W. P., 1972
mineralogy/ petrology/ Iron Hill complex/ carbonatite/ Powderhorn district/ Gunnison County/ thorium/ geothermometry/ igneous-metamorphic/
- Neuerburg, G. J., 1967
Boulder County/ Caribou stock/ accessory minerals/ magnetite/ zircon/ sulfides/ igneous-metamorphic/ uranium/ Front Range/
- Neuerburg, G. J., Antweiler, J. C., and Bieler, B. H., 1955
uranium/ leachability/ igneous-metamorphic/ geochemistry/ leaching studies/ analytical techniques/ Montana/ Arizona/ Front Range/ Colorado/ Wyoming/
- Newman, W. L., 1953
Colorado Plateau/ element distribution/ sedimentary rocks/ igneous-metamorphic/ Legln group area/ San Miguel County/ sandstone/ uranium/ vanadium/ oxides/ Ute Mountains/
- Newman, W. L., 1957
Colorado Plateau/ element distribution/ sedimentary rocks/ igneous-metamorphic/ sandstone/ uranium/ vanadium/ Morrison Formation/ Chinle Formation/ Uravan district/ San Miguel County/ Jo Dandy area/ Montrose County/ mudstone/
- Nishimori, R. K., Ragland, P. C., Rogers, J. J., and others, 1977
uranium/ ore deposits/ granite/ igneous-metamorphic/ Wheeler Basin/ Grand County/ Front Range/ Park County/ Clear Creek County/ Gilpin County/ Boulder County/ Jefferson County/ bostonite dikes/ Central City district/
- Olson, J. C., 1953
Powderhorn district/ Gunnison County/ thorium/ monazite/ igneous-metamorphic/ Little Johnny vein/ reserves/ ore deposits/
- Olson, J. C., 1953
Powderhorn district/ igneous-metamorphic/ thorium/ Gunnison County/ monazite/ ore deposits/ exploration/
- Olson, J. C., 1953
Gunnison County/ Powderhorn district/ Little Johnny deposit/ ore deposits/ thorium/ augite/ syenite/ shonkinite/ Iron Hill complex/ Lot mine/ igneous-metamorphic/
- Olson, J. C., 1973
geology/ Rudolph Hill quadrangle/ map/ Gunnison County/ thorium/ ore deposits/ Hinsdale County/ Saguache County/ igneous-metamorphic/
- Olson, J. C., 1974
map/ geology/ Rudolph Hill quadrangle/ Gunnison County/ thorium/ ore deposits/ Saguache County/ Hinsdale County/ igneous-metamorphic/
- Olson, J. C., 1975
uranium/ ore deposits/ Cochetopa district/ Oligocene erosion surface/ Gunnison County/ sandstone/ Saguache County/ volcanics/ veins/ igneous-metamorphic/
- Olson, J. C., 1975
Iris quadrangle/ map/ geology/ Gunnison County/ Saguache County/ uranium/ igneous-metamorphic/ ore deposit/
- Olson, J. C., 1975
Houston Gulch quadrangle/ geology/ map/ Gunnison County/ Saguache County/ igneous-metamorphic/ ore deposits/
- Olson, J. C., 1976
geology/ ore deposits/ Houston Gulch quadrangle/ Gunnison County/ igneous-metamorphic/ Saguache County/
- Olson, J. C., 1976
Cochetopa district/ uranium/ geomorphology/ ore deposits/ igneous-metamorphic/ Saguache County/ Gunnison County/ Oligocene erosion surface/
- Olson, J. C., 1976
Iris quadrangle/ map/ geology/ Gunnison County/ uranium/ igneous-metamorphic/ ore deposits/ Saguache County/

- Olson, J. C., 1977
uranium/ Pitch mine/ Gunnison County/ Saguache County/ Chaffee County/ map/ Igneous-metamorphic/ limestone/ shale/ ore deposits/ geology/
- Olson, J. C., and Adams, J. W., 1962
thorium/ rare earths/ United States/ Colorado/ Igneous-metamorphic/ Gunnison County/ Fremont County/ Custer County/ Larimer County/ Gilpin County/ Montezuma County/ Moffat County/ El Paso County/
- Olson, J. C., and Hedlund, D. C., 1956
Gunnison County/ Powderhorn district/ ore deposits/ exploration/ thorium/ alkalic igneous rocks/ Sapinero Mesa/ igneous-metamorphic/
- Olson, J. C., and Hedlund, D. C., 1957
Gunnison County/ Gateview quadrangle/ ore deposits/ exploration/ investigations/ thorium/ veins/ igneous-metamorphic/
- Olson, J. C., and Hedlund, D. C., 1957
Gunnison County/ ore deposits/ exploration/ investigations/ thorium/ veins/ igneous-metamorphic/
- Olson, J. C., and Hedlund, D. C., 1958
Gunnison County/ Cebolla quadrangle/ ore deposits/ exploration/ investigations/ thorium/ veins/ alkalic igneous rocks/ Powderhorn district/ Gateview district/ Iron Hill complex/ carbonatite/ igneous-metamorphic/
- Olson, J. C., and Hedlund, D. C., 1973
geology/ Gateview quadrangle/ Gunnison County/ ore deposits/ igneous-metamorphic/ thorium/
- Olson, J. C., and Overstreet, W. C., 1964
thorium/ igneous-metamorphic/ veins/ resources/ alkalic rocks/ bostonite/ Gunnison County/ Saguache County/ Hinsdale County/ ore deposits/
- Olson, J. C., and Steven, T. A., 1975
Sawtooth Mountain quadrangle/ geology/ map/ Saguache County/ igneous-metamorphic/ uranium/ thorium/ Cochetopa district/ ore deposits/
- Olson, J. C., and Steven, T. A., 1976
Razor Creek Dome quadrangle/ geology/ map/ Saguache County/ igneous-metamorphic/ uranium/ Cochetopa district/ ore deposits/
- Olson, J. C., and Wallace, S. R., 1953
Gunnison County/ Powderhorn district/ ore deposits/ titanium/ veins/ igneous-metamorphic/ Little Johnny deposit/ thortite/ thorium/
- Olson, J. C., and Wallace, S. R., 1954
ore deposits/ igneous-metamorphic/ geology/ Gunnison County/ Powderhorn district/ stratigraphy/ thorium/ rare earths/ Iron Hill complex/ mineralogy/ petrology/ geochemistry/ Little Johnny deposit/ thortite/ veins/ xenotime/ alkalic igneous rocks/ carbonate veins/ marble/
- Olson, J. C., and Wallace, S. R., 1956
Powderhorn district/ Gunnison County/ thorium/ rare earths/ veins/ igneous-metamorphic/ minerals/ ore deposits/
- Olson, J. C., Hedlund, D. C., and Hansen, W. R., 1968
Powderhorn district/ Black Canyon region/ Gunnison County/ Montrose County/ volcanics/ stratigraphy/ petrology/ Tertiary/ igneous-metamorphic/ Colorado Plateau/
- Olson, J. C., Marvin, R. F., Parker, R. L., and Mehnert, H. H., 1977
thorium/ alkalic rocks/ age dating/ carbonatite/ Gunnison County/ Saguache County/ Custer County/ Fremont County/ tectonics/ igneous-metamorphic/ mafic rocks/ Paleozoic/ veins/
- Olson, J. C., Steven, T. A., and Hedlund, D. C., 1975
Spring Hill Creek quadrangle/ geology/ map/ Saguache County/ igneous-metamorphic/ ore deposits/
- Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/
- Osterwald, F. W., 1956
veins/ structural geology/ Precambrian rocks/ Teller County/ structural controls/ ore deposits/ Cordilleran foreland/ igneous-metamorphic/ Gilpin County/ Front Range/ tectonics/ El Paso County/ Larimer County/ Clear Creek County/
- Osterwald, F. W., 1965
ore deposits/ genesis/ veins/ mining districts/ structural controls/ Moffat County/ pitchblende/ conglomerate/ Front Range/ igneous-metamorphic/ sandstone/ Jefferson County/ Boulder County/ Montrose County/ Clear Creek County/ Gilpin County/ Saguache County/ Fremont County/
- Osterwald, F. W., and Dean, B. G., 1956
bibliography/ structural geology/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/ ore deposits/ tectonics/
- Osterwald, F. W., and Dean, B. G., 1958
ore deposits/ tectonics/ structural geology/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/
- Osterwald, F. W., and Dean, B. G., 1961
Cordilleran foreland/ ore deposits/ genesis/ structural controls/ tectonic patterns/ Front Range/ Denver basin/ uranium/ igneous-metamorphic/

- Jefferson County/ Boulder County/ Clear Creek County/ Gilpin County/ Larimer County/
- Overstreet, W. C., 1967
monazite/ igneous-metamorphic/ placers/ heavy minerals/
- Page, L. R., 1950
Mount Antero region/ Crystal Mountain district/ San Juan Mountains/ Chaffee County/ Larimer County/ helvite/ pegmatites/ beryllium/ beryl/ Colorado Plateau/ igneous-metamorphic/ Devils Hole mine/ Fremont County/ Gunnison County/ Jefferson County/ San Juan County/ Front Range/ aquamarine/
- Page, L. R., 1950
beryllium/ beryl/ Colorado Plateau/ pegmatites/ Larimer County/ igneous-metamorphic/ San Juan County/ Devils Hole mine/ Fremont County/ Gunnison County/ Jefferson County/ Mount Antero/ Chaffee County/ aquamarine/ Front Range/ Crystal Mountain district/
- Page, L. R., 1950
pegmatite/ geochemistry/ igneous-metamorphic/ uranium/ mineralogy/ Gunnison County/ Larimer County/ Chaffee County/ Fremont County/ Front Range/
- Page, L. R., 1956
uranium/ thorium/ ore guides/ exploration/ Colorado/ sandstone/ igneous-metamorphic/ geology/ Colorado Plateau/
- Page, L. R., 1956
uranium/ thorium/ ore guides/ igneous-metamorphic/ exploration/ Colorado/ sandstone/ geology/ Colorado Plateau/
- Page, L. R., Stocking, H. E., and Smith, H. B., compilers, 1956
Colorado Plateau/ Front Range/ Gunnison County/ limestone/ Montrose County/ Jefferson County/ arkosa/ sandstone/ shale/ geology/ uranium/ thorium/ exploration/ igneous-metamorphic/ San Miguel County/ geochemistry/ mineralogy/ conglomerate/
- Parker, R. L., and Hildebrand, F. A., 1963
alkalic rocks/ intrusives/ Wet Mountains/ Fremont County/ Custer County/ igneous-metamorphic/ geology/ petrology/
- Parker, R. L., and Sharp, W. N., 1970
carbonatites/ mafic-ultramafic/ thorium/ monazite/ geology/ Gem Park complex/ Custer County/ Fremont County/ mineralogy/ geochemistry/ igneous-metamorphic/
- Payne, A. L., 1962
Colorado Plateau/ uranium/ vanadium/ copper/ silver/ sandstone/ gneiss/ geology/ ore deposits/ igneous-metamorphic/
- Payne, A. L., 1962
Colorado Plateau/ uranium/ vanadium/ copper/ silver/ sandstone/ gneiss/ geology/ ore deposits/ igneous-metamorphic/

- Pearce, Richard, 1896
ore deposits/ uraninite/ Gilpin County/ igneous-metamorphic/ veins/ Front Range/ Wood mine/
- Pearce, Richard, 1898
uraninite/ veins/ igneous-metamorphic/ Gilpin County/ Front Range/
- Pearce, Richard, 1898
uraninite/ veins/ igneous-metamorphic/ Gilpin County/ Front Range/ Wood mine/
- Pearce, Richard, 1916
veins/ uraninite/ igneous-metamorphic/ Gilpin County/ Front Range/ Wood mine/
- Phair, George, 1952
ore deposits/ porphyries/ radioactivity/ Gilpin County/ Central City district/ pitchblende/ Tertiary/ deposition/ Front Range/ mineralogy/ petrology/ geochemistry/ zircon/ veins/ uranium/ thorium/ analyses/ Quartz Hill/ Nigger Hill dike/ Clear Creek County/ igneous-metamorphic/ ore deposits/
- Phair, George, 1952
Front Range/ Central City district/ ore deposits/ Clear Creek County/ Gilpin County/ analyses/ quartz monzonite/ igneous-metamorphic/ Wood mine/ Kirk Mine/ Quartz Hill area/ pitchblende/ Copper King mine/ Larimer County/ paragenesis/
- Phair, George, 1953
Front Range/ veins/ igneous-metamorphic/ ore deposits/ Central City district/ Idaho Springs district/ Gilpin County/ Clear Creek County/ reserves/ Wood mine/ Kirk mine/ Bonanza mine/ German mine/ pitchblende/ Martha E mine/
- Phair, George, 1953
Front Range/ Central City district/ ore deposits/ geochemistry/ petrology/ mineralogy/ bostonite/ pitchblende/ Wood mine/ Kirk mine/ igneous-metamorphic/ Quartz Hill area/ Copper King mine/ Larimer County/ Jamestown district/ Boulder County/ Chalk Mountain rhyolite/ Climax/ beta-uranophane/ uraninite/ Lake County/ Eagle County/ Summit County/
- Phair, George, 1953
mineralogy/ geochemistry/ Copper King mine/ Larimer County/ pitchblende/ uraninite/ coffinite/ Front Range/ ore deposits/ igneous-metamorphic/
- Phair, George, 1954
uranium/ veins/ igneous-metamorphic/ Front Range/ pitchblende/ porphyries/ thorium/ ore deposits/
- Phair, George, 1955
ore deposits/ mineralization/ igneous-metamorphic/ thorium/ analyses/ granite/ Front Range/ Boulder Creek batholith/ Sherman granite/ Pikes Peak granite/ New Hampshire/ Boulder County/
- Phair, George, 1956
Colorado/ New Hampshire/ ore deposits/ geochemistry/ igneous rocks/ igneous-metamorphic/ Precambrian rocks/ granite/ Boulder Creek batholith/ Silver Plume granite/ Front Range/ Boulder County/

- Phair, George, 1957
Wet Mountains/ ore deposits/ Custer County/ thorium/ veins/ igneous-metamorphic/ Haputa Ranch/ Hardwick property/ Mystery Lode/ shear zones/
- Phair, George, 1958
uranium/ thorium/ Intrusives/ Laramide/ mineralogy/ geochemistry/ Caribou complex/ Boulder County/ Central City district/ Clear Creek County/ Gilpin County/ Jamestown district/ Gold Hill district/ Front Range/ igneous-metamorphic/
- Phair, George, 1958
Wet Mountains/ ore deposits/ wallrock alteration/ thorium/ Custer County/ igneous-metamorphic/ chemical properties/
- Phair, George, and Antweiler, J. C., 1954
Larimer County/ Copper King mine/ ore deposits/ geochemistry/ mineralogy/ uraninite/ coffinite/ pitchblende/ Front Range/ Central City district/ Gilpin County/ igneous-metamorphic/ absolute age/ Clear Creek County/
- Phair, George, and Fisher, F. G., 1961
Wet Mountains/ ore deposits/ genesis/ metasomatism/ processes/ potassic feldspathization/ thorium/ Custer County/ Powderhorn district/ Precambrian rocks/ thorite/ igneous-metamorphic/
- Phair, George, and Gilbert, F. L., 1959
igneous-metamorphic/ thorium/ ore deposits/ Wet Mountains/ Custer County/ Fremont County/ veins/ zoning/
- Phair, George, and Gottfried, David, 1955
Front Range/ Boulder Creek batholith/ Silver Plume/ ore deposits/ uranium/ Precambrian rocks/ granite/ igneous-metamorphic/ thorium/ Boulder County/
- Phair, George, and Gottfried, David, 1958
fractionation/ uranium/ rocks/ minerals/ Boulder Creek batholith/ igneous-metamorphic/ Front Range/ Boulder County/
- Phair, George, and Gottfried, David, 1958
zircon/ Boulder Creek batholith/ Front Range/ igneous-metamorphic/ granite/ uranium/ Precambrian rocks/ age dates/ ore deposits/ Boulder County/
- Phair, George, and Gottfried, David, 1964
Front Range/ ore province/ thorium/ uranium/ igneous-metamorphic/ Boulder County/ Clear Creek County/ Gilpin County/ Jefferson County/ Larimer County/
- Phair, George, and Herz, Norman, 1953
ore deposits/ pitchblende/ coffinite/ geochemistry/ Front Range/ igneous-metamorphic/ quartz bostonite dikes/ Central City district/ Clear Creek County/ Gilpin County/ mineralogy/ petrology/
- Phair, George, and Jenkins, L. B., 1975
uranium/ thorium/ data/ igneous-metamorphic/ intrusives/ Mesozoic/ Cenozoic/ Colorado/ Colorado Plateau/ Front Range/
- Phair, George, and Levine, Harry, 1952
Central City district/ Wood mine/ geochemistry/ uranium/ radium/ lead/ pitchblende/ solutions/ Katanga/ Great Bear Lake/ Russel Gulch/ Clear Creek County/ Gilpin County/ igneous-metamorphic/ Front Range/ differential leaching/
- Phair, George, and Levine, Harry, 1952
uranium/ radium/ lead/ pitchblende/ Wood mine/ Central City district/ Gilpin County/ analyses/ exploration/ igneous-metamorphic/ Clear Creek County/ Front Range/ differential leaching/
- Phair, George, and Levine, Harry, 1953
uranium/ radium/ lead/ pitchblende/ Central City district/ Gilpin County/ igneous metamorphic/ Front Range/ differential leaching/
- Phair, George, and Mela, Henry, Jr., 1955
Bergen Park/ Breckenridge district/ Caribou district/ age determination/ Front Range/ Cotopaxi/ Gold Hill/ Guffey/ Laramide/ isotopes/ Lawson-Dumont/ Silver Plume/ El Paso County/ mineralogy/ petrology/ geochemistry/ galena/ Summit County/ Boulder County/ Clear Creek County/ Gilpin County/ Fremont County/ Chaffee County/ isotopic variation/ igneous-metamorphic/
- Phair, George, and Onoda, Kiyoko, 1950
Boulder County/ Jamestown district/ ore deposits/ mineralogy/ petrology/ geochemistry/ uraninite/ Blue Jay mine/ igneous-metamorphic/ Front Range/ fluorite/ veins/ fluorite breccias/
- Phair, George, and Onoda, Kiyoko, 1951
Jamestown district/ Boulder County/ ore deposits/ hydrothermal uranothorite/ fluorite breccias/ mineralogy/ petrology/ geochemistry/ thorium/ haloes/ Blue Jay mine/ igneous-metamorphic/ Front Range/
- Phair, George, and Shimamoto, K. O., 1952
veins/ hydrothermal uranothorite/ Blue Jay mine/ Jamestown district/ Boulder County/ thin sections/ heavy minerals/ New Zealand/ Alaska/ comparisons/ fluorite breccias/ mineralogy/ petrology/ geochemistry/ haloes/ Front Range/ igneous-metamorphic/
- Phair, George, and Shimamoto, K. O., 1953
Front Range/ ore deposits/ mineralization/ mineralogy/ petrology/ geochemistry/ porphyries/ pitchblende/ Central City district/ igneous-metamorphic/ Clear Creek County/ Gilpin County/
- Phair, George, and Sims, P. K., 1954
Larimer County/ Copper King mine/ ore deposits/ paragenesis/ mineralization/ age dating/ uranium/ igneous-metamorphic/ Front Range/
- Pierson, C. T., 1953
San Juan Mountains/ ore deposits/ exploration/ analyses/ Lark mine/ San Juan County/ Smuggler mine/ San Miguel County/ veins/ sandstone/ Colorado Plateau/ igneous-metamorphic/
- Pierson, C. T., 1953
San Juan Mountains/ San Juan County/ La Plata County/ Ouray County/ Dolores County/ Bonanza

- district/ Saguache County/ Mineral County/ Hinsdale County/ La Plata district/ Upper Uncompahgre district/ Colorado Plateau/ Igneous-metamorphic/
- Pierson, C. T., 1954
San Juan Mountains/ minerals/ mineralogy/ petrology/ Ouray County/ slate/ pitchblende/ igneous-metamorphic/ Mickey Breen mine/
- Pierson, C. T., and Singewald, Q. D., 1953
reconnaissance/ radioactivity/ Alma district/ Park County/ veins/ uranium/ pitchblende/ ore deposits/ Precambrian rocks/ London vein/ Cooper Gulch/ Orphan Boy mine/ geology/ Igneous-metamorphic/
- Pierson, C. T., and Singewald, Q. D., 1953
Alma district/ Park County/ ore deposits/ reconnaissance/ veins/ Precambrian rocks/ London vein system/ Cooper Gulch/ Orphan Boy mine/ pitchblende/ geology/ igneous-metamorphic/
- Pierson, C. T., and Singewald, Q. D., 1953
Sugar Loaf district/ St. Kevin district/ Lake County/ igneous-metamorphic/ geology/ veins/ minerals/ autunite/ florencite/ metatorbernite/ torbernite/ Josie May mine/ Torquoise Chief mine/ granite/ turquoise/ Wilkesbarre adit/ mineralogy/ leaching/ Precambrian rocks/ Tertiary/ schist/
- Pierson, C. T., and Singewald, Q. D., 1954
St. Kevin district/ ore deposits/ mineralization/ ore minerals/ maps/ Lake County/ veins/ uranium/ igneous-metamorphic/ granite/ Sugar Loaf district/ Tertiary/ Josie May mine/ Precambrian rocks/ Torquoise Chief mine/ schist/
- Pierson, C. T., Burbank, W. S., and Singewald, Q. D., 1952
Colorado mineral belt/ ore deposits/ veins/ igneous-metamorphic/ Pitkin County/ Park County/ Ouray County/ San Juan County/ San Miguel County/ uranium/ Colorado Plateau/
- Pierson, C. T., Singewald, Q. D., and Dings, M. G., 1953
Colorado mineral belt/ ore deposits/ exploration/ St. Kevin district/ Summit County/ Chaffee County/ Gunnison County/ Glacier Mountain/ Alma district/ Lake County/ igneous-metamorphic/ Park County/
- Pierson, C. T., Weeks, W. F., and Kleinhampl, F. J., 1956
San Juan Mountains/ Dolores County/ La Plata County/ pitchblende/ reconnaissance/ radioactivity/ mining districts/ fractures/ andesite/ San Miguel County/ hydrocarbons/ calcareous tuff/ hot springs/ ilmonite/ alteration/ diorite/ veins/ fault breccia/ shear zone materials/ San Juan tuff/ Uncompahgre Formation/ igneous-metamorphic/ spring deposits/ Colorado Plateau/
- Pierson, C. T., Weeks, W. F., and Kleinhampl, F. J., 1958
San Juan Mountains/ reconnaissance/ mining districts/ radioactivity/ igneous-metamorphic/ San Juan County/ Ouray County/ San Miguel County/ La Plata County/ Hinsdale County/ Mineral County/ Saguache County/
- Piiler, Richard, and Adams, J. A. S., 1959
ore deposits/ resources/ Pennsylvanian/ thorium/ uranium/ Boulder County/ analyses/ Front Range/ geochemistry/ igneous-metamorphic/ weathering profile/
- Piiler, Richard, and Adams, J. A. S., 1962
weathering profiles/ pre-Pennsylvanian/ Pennsylvanian/ thorium/ uranium/ Boulder County/ geochemistry/ igneous-metamorphic/ analyses/ Front Range/
- Rabbitt, J. C., 1950
analyses/ geochemistry/ petrology/ Colorado Plateau/ sandstone/ trace elements/ Front Range/ igneous-metamorphic/
- Rabbitt, J. C., 1950
trace elements/ annual report/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/
- Rabbitt, J. C., 1951
Central City district/ Jamestown district/ ore deposits/ pitchblende/ Blue Jay mine/ bostonite/ fluorite/ veins/ breccia/ Colorado Plateau/ carnotite project/ sandstone/ igneous-metamorphic/ Boulder County/ Gilpin County/ Clear Creek County/ Front Range/
- Rabbitt, J. C., 1951
Blue Jay mine/ Jamestown district/ Colorado Plateau/ bostonite dikes/ Front Range/ Central City district/ mineralogy/ petrology/ geochemistry/ radioactivity/ fluorite/ Clear Creek County/ pitchblende/ ore deposits/ minerals/ Gilpin County/ veins/ breccia/ sandstone/ Boulder County/ igneous-metamorphic/
- Rabbitt, J. C., 1951
Front Range/ Central City district/ ore deposits/ ore guides/ exploration/ Clear Creek County/ Gilpin County/ Colorado Plateau/ Jamestown district/ mineralogy/ petrology/ geochemistry/ pitchblende/ Blue Jay mine/ bostonite/ fluorite/ veins/ breccia/ sandstone/ igneous-metamorphic/ Boulder County/
- Rabbitt, J. C., 1952
Colorado Plateau/ carnotite project/ Gilpin County/ Larimer County/ sandstone/ igneous-metamorphic/ Front Range/
- Rabbitt, J. C., 1952
Colorado Plateau/ Front Range/ Central City district/ ore deposits/ exploration/ trace elements/ sandstone/ igneous-metamorphic/ Gilpin County/ Clear Creek County/
- Raines, G. L., 1971
Gunnison County/ Saguache County/ sandstone/ limestone/ shale/ igneous-metamorphic/ Sargents area/ geology/ veins/
- Rankama, Kaivero, and Sahama, T. G., 1950
uranium/ vanadium/ geochemistry/ igneous-metamorphic/ biogeochemistry/ coal/ shale/ sandstone/ Colorado/ ore deposits/ carnotite/ uraninite/ Utah/ Colorado Plateau/

- Rankama, Kalvero, and Sahama, T. G., 1950
vanadium/ geochemistry/ igneous-metamorphic/
sediments/ sandstone/ carnotite/ clays/ shale/
ore deposits/ Utah/ Colorado/ uranium/ Colorado
Plateau/
- Ranspot, H. W., 1958
Indian Creek area/ ore deposits/ geology/ Gunnison
County/ Saguache County/ uranium/ shale/ sandstone/
limestone/ igneous-metamorphic/ limestone/ Pitch
mine/
- Ranspot, H. W., and Spengler, R. G., 1957
uranium/ ore deposits/ radioactivity/ stratigraphy/
geology/ exploration/ Marshall Pass area/ Gunnison
County/ Saguache County/ igneous-metamorphic/
sandstone/ limestone/ Pitch mine/
- Ray, E. D., 1975
mining/ Jefferson County/ Schwartzwalder mine/
Ladwig mine/ igneous-metamorphic/ district 1/
Front Range/
- Reinhardt, E. V., 1952
Colorado Plateau/ igneous-metamorphic/ sandstone/
uranium/ vanadium/ Tertiary intrusives/ La Plata
County/ San Miguel County/ ore deposits/
- Rich, R. A., and Barabas, A., 1976
mineralogy/ paragenesis/ fluid inclusions/ genesis/
Schwartzwalder mine/ ore deposits/ Jefferson
County/ Front Range/ igneous-metamorphic/
- Rich, R. A., Holland, H. D., and Peterson, U., 1975
veins/ uranium/ ore deposits/ mineralogy/ fluid
inclusions/ paragenesis/ hydrothermal/ pitchblende/
ground water/ Front Range/ Jefferson County/
Clear Creek County/ Gilpin County/ Gunnison
County/ Saguache County/ Marshall Pass district/
Schwartzwalder mine/ igneous-metamorphic/
- Rich, R. A., Holland, H. D., and Peterson, U., 1977
geology/ mineralogy/ geochemistry/ genetic models/
hydrothermal uranium deposits/ ore deposits/
igneous-metamorphic/ genesis/ Front Range/
- Rickard, Forbes, 1913
veins/ Quartz Hill area/ Gilpin County/ pitchblende/
Front Range/ igneous-metamorphic/
- Ridland, G. C., 1949
Caribou mine/ silver/ uranium/ pitchblende/
Boulder County/ geology/ igneous-metamorphic/
Idaho Springs biotite schist/ Precambrian rocks/
quartz monzonite property/ No Name vein/ Front
Range/ veins/
- Ridland, G. C., 1950
veins/ ore deposits/ pitchblende/ Boulder County/
Caribou mine/ radioactivity/ No Name vein/ Radium
vein/ igneous-metamorphic/ Front Range/ silver/
- Ridland, G. C., 1951
ore deposits/ pitchblende/ Boulder County/ Caribou
mine/ radioactivity/ No Name vein/ Radium vein/
veins/ igneous-metamorphic/ Front Range/ silver/
- Riley, L. B., and Owens, J. P., 1957
Saguache County/ Pitch mine/ Cashin mine/ Montrose
County/ Colorado Plateau/ mineralogy/ sandstone/
veins/ igneous-metamorphic/
- Rocky Mountain Association of Geologists, 1955
Front Range/ Jefferson County/ geology/ Deer
Creek area/ Ralston Creek area/ igneous-metamorphic/
- Rocky Mountain Energy Corporation, 1972
map/ geology/ Front Range/ Jefferson County/
igneous-metamorphic/
- Rove, O. N., 1946
trace elements/ reconnaissance/ Colorado Plateau/
Front Range/ sandstone/ igneous-metamorphic/
- Russell, W. L., and Scherbatskoy, S. A., 1951
Colorado Plateau/ ore deposits/ genesis/ exploration/
gamma-ray detectors/ sandstone/ Front Range/
Instrumentation/ Morrison Formation/ Salt Wash
Member/ Gilpin County/ Clear Creek County/ Boulder
County/ San Miguel County/ Montrose County/
igneous-metamorphic/ Entrada Sandstone/
- Salotti, C. A., 1961
Fremont County/ igneous-metamorphic/ sandstone/
Cotopaxi area/ Howard area/ geology/ petrology/
- Salotti, C. A., 1962
Fremont County/ igneous-metamorphic/ petrology/
structure/ Howard area/ metasediments/ Precambrian
rocks/
- Salotti, C. A., 1965
mineralogy/ paragenesis/ Cotopaxi area/ Chaffee
County/ Custer County/ Fremont County/ Park
County/ igneous-metamorphic/ petrology/ geology/
skarn/ ore deposits/ copper/ zinc/ uranium/
- Saum, N. M., and Link, J. M., 1969
uranium/ ore deposits/ exploration/ history/
Front Range/ Schwartzwalder mine/ Jefferson
County/ igneous-metamorphic/ geochemistry/ genesis/
hydrothermal deposits/ sandstone/ Morrison Formation/
Uravan district/ Montrose County/ San Miguel
County/ Mesa County/ New Mexico/ Utah/ Wyoming/
diatremes/ lignites/ phosphates/ remote sensing/
Colorado Plateau/
- Schlottmann, J. D., 1961
uranium/ ore deposits/ exploration/ mineralogy/
Foothills mine/ Idle Dale district/ Jefferson
County/ veins/ igneous-metamorphic/ paragenesis/
Wright lease/ quartz monzonite breccia/ Front
Range/
- Schlottmann, J. D., 1961
geology/ Schwartzwalder mine/ ore deposits/
Jefferson County/ igneous-metamorphic/ Front
Range/
- Seegerstrom, Kenneth, and Young, E. J., 1972
geology/ Hahn's Peak quadrangle/ Farwell Mountain
quadrangle/ Routt County/ Triassic/ Jurassic/
Precambrian rocks/ sedimentary rocks/ sandstone/
igneous-metamorphic/
- Sharp, R. R., Jr., and Aamodt, P. L., 1976
hydrogeochemistry/ springs/ South Platte River/
analyses/ natural waters/ South Park/ Tarryall

- Creek/ West Fourmile Creek/ Currant Creek/ Badger Creek/ surface water/ ground water/ Teller County/ Park County/ Badger Flats/ Boomer mine/ sandstone/ Garo deposit/ Igneous-metamorphic/
- Shawe, D. R., and Parker, R. L., 1967
Fremont County/ ultramafic layered intrusives/ Iron Mountain complex/ McClure Mountain complex/ Igneous-metamorphic/ mafic rocks/
- Sheridan, D. M., 1953
Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ Igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/ Ralston Buttes district/ Ascension mine/
- Sheridan, D. M., 1955
Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ Igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/ Ralston Buttes district/ Ascension mine/
- Sheridan, D. M., 1956
Jefferson County/ veins/ pitchblende/ Ascension mine/ Front Range/ uranium/ Igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ faults/ copper/ Ralston Buttes district/
- Sheridan, D. M., 1956
Jefferson County/ pitchblende/ Ralston Buttes district/ Front Range/ uranium/ Igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston creek area/ mineralogy/ faults/ copper/ paragenesis/ structure/ Ascension mine/
- Sheridan, D. M., and Maxwell, C. H., 1953
Ralston Buttes district/ ore deposits/ exploration/ Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ Igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ascension mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/
- Sheridan, D. M., and Maxwell, C. H., 1954
Jefferson County/ veins/ pitchblende/ Front Range/ uranium/ Igneous-metamorphic/ Schwartzwalder mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/ Ralston Buttes district/ Ascension mine/
- Sheridan, D. M., and Maxwell, C. H., 1954
Ralston Buttes district/ ore deposits/ exploration/ veins/ Jefferson County/ pitchblende/ Front Range/ uranium/ Igneous-metamorphic/ Schwartzwalder mine/ Ladwig lease/ Mena mine/ Ascension mine/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/
- Sheridan, D. M., and Maxwell, C. H., 1954
Front Range/ igneous-metamorphic/ Ralston Buttes district/ Jefferson County/ pitchblende/ Schwartzwalder mine/ Golden Gate Canyon area/ exploration/
- Sheridan, D. M., Maxwell, C. H., Albee, A. L., and others, 1958
Jefferson County/ veins/ pitchblende/ bedrock geology/ Front Range/ uranium/ Igneous-metamorphic/ Schwartzwalder mine/ Ladwig lease/ Mena mine/ Ascension mine/ Golden Gate Canyon area/ mineralogy/ paragenesis/ structure/ copper/ faults/ Ralston Buttes quadrangle/ Ralston Buttes district/ Ralston Creek area/
- Sheridan, D. M., Maxwell, C. H., Albee, A. L., and others, 1967
Ralston Buttes district/ ore deposits/ genesis/ geology/ maps/ Jefferson County/ Schwartzwalder mine/ Mena mine/ Ascension mine/ Ladwig lease/ structure/ Ralston Creek area/ mineralogy/ paragenesis/ copper/ faults/ uranium/ economic geology/ production/ Front Range/ veins/ breccia/ pitchblende/ gneiss/ pegmatite/ igneous-metamorphic/ Golden Gate Canyon area/
- Sheridan, D. M., Maxwell, C. H., Albee, A. L., and others, n.d.
Jefferson County/ Juanita Arch quadrangle/ veins/ pitchblende/ Ralston Buttes district/ Front Range/ uranium/ Igneous-metamorphic/ Schwartzwalder mine/ Ascension mine/ Ladwig lease/ Mena mine/ Golden Gate Canyon area/ Ralston Creek area/ mineralogy/ paragenesis/ structure/ copper/ faults/
- Shoemaker, E. M., 1954
Utah/ Colorado/ New Mexico/ Arizona/ Colorado Plateau/ structural features/ Uncompahgre uplift/ tectonics/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ Delta County/ diatremes/ La Plata County/ sandstone/ geology/ guidebook/ Mesa County/ Igneous-metamorphic/
- Shoemaker, E. M., 1954
Colorado Plateau/ ore deposits/ geochemistry/ sandstone/ Colorado/ elements/ Igneous-metamorphic/ laccoliths/
- Shoemaker, E. M., and Newman, W. L., 1953
Montezuma County/ La Plata County/ laccolith/ stratigraphy/ Colorado Plateau/ Igneous-metamorphic/ Ute Mountains/
- Sims, P. K., 1953
Front Range/ ore deposits/ exploration/ Clear Creek County/ Gilpin County/ Igneous-metamorphic/
- Sims, P. K., 1953
ore deposits/ Central City district/ Georgetown district/ Front Range/ Clear Creek County/ Gilpin County/ Igneous-metamorphic/
- Sims, P. K., 1954
veins/ Igneous-metamorphic/ Clear Creek County/ Gilpin County/ Front Range/ ore deposits/

- Sims, P. K., 1954
Front Range/ ore deposits/ mineralogy/ petrology/
Igneous-metamorphic/ Gilpin County/ Clear Creek
County/
- Sims, P. K., 1955
Gilpin County/ Central City district/ mineralogy/
petrology/ geochemistry/ pitchblende/ ore deposits/
veins/ Front Range/ Igneous-metamorphic/ paragenesis/
structure/
- Sims, P. K., 1955
paragenesis/ structure/ pitchblende/ veins/
igneous-metamorphic/ Gilpin County/ uranium/
mineralogy/ Front Range/ ore deposits/ Buckhorn
mica mine/ Bucky claim/ Opportunity No. 1 claim/
Trilo claims/ White Spar claim/ Quartz Creek
district/ uranium/ thorium/ Colorado/ gneiss/
origin/ Sharon Springs Member/ Hermosa Formation/
Paradox Member/
- Sims, P. K., 1955
veins/ Tertiary/ Igneous-metamorphic/ Front
Range/ ore deposits/
- Sims, P. K., 1955
ore deposits/ veins/ Igneous-metamorphic/ Front
Range/ Precambrian rocks/ pegmatites/
- Sims, P. K., 1955
Front Range/ ore deposits/ trace elements/ Clear
Creek County/ Gilpin County/ Igneous-metamorphic/
- Sims, P. K., 1956
veins/ Front Range/ Igneous-metamorphic/ geology/
ore deposits/ Gilpin County/ Clear Creek County/
- Sims, P. K., 1956
Front Range/ ore deposits/ uranium/ Larimer
County/ Boulder County/ Gilpin County/ Clear
Creek County/ Jefferson County/ Fremont County/
Igneous-metamorphic/
- Sims, P. K., 1956
Gilpin County/ ore deposits/ pitchblende/ genesis/
structural controls/ veins/ Front Range/ Clear
Creek County/ geology/ uranium/ Igneous-metamorphic/
Central City district/ mineralogy/ paragenesis/
- Sims, P. K., 1956
Front Range/ Gilpin County/ Central City district/
mineralogy/ petrology/ geochemistry/ pitchblende/
ore deposits/ zoning/ tennantite/ Calhoun (East
and West) mines/ Carroll mine/ J.P. Whitney
mine/ genesis/ host rocks/ Intrusive structures/
veins/ stratigraphy/ Precambrian rocks/ uranium/
Igneous-metamorphic/ paragenesis/ structure/
pitchblende-bearing vein
- Sims, P. K., 1957
Front Range/ Igneous-metamorphic/ veins/ geology/
ore deposits/ Gilpin County/ Clear Creek County/
- Sims, P. K., 1960
mineralogy/ hypogene zoning/ Central City district/
Gilpin County/ Clear Creek County/ Igneous-metamorphic/
Front Range/

- Sims, P. K., 1960
hypogene zoning/ mineralogy/ Gilpin County/
Clear Creek County/ Central City district/ Front
Range/ Igneous-metamorphic/
- Sims, P. K., 1960
Clear Creek County/ Gilpin County/ geology/
igneous-metamorphic/ Central City district/
Front Range/ Idaho Springs district/ guidebook/
- Sims, P. K., 1963
geology/ uranium/ ore deposits/ Front Range/
Gilpin County/ production/ Summit County/ Clear
Creek County/ Boulder County/ Grand County/
Central City district/ Idaho Springs district/
Lawson-Dumont-Fall River district/ Freeland-Lamarline
district/ gneiss/ thorium/ pegmatites/ alaskite/
bostonite/ Chicago Creek district/ Igneous-metamorphic/
monazite/
- Sims, P. K., 1964
Gilpin County/ Clear Creek County/ Igneous-metamorphic/
Central City quadrangle/ Russell Gulch/ geology/
Front Range/
- Sims, P. K., and Barton, P. B., Jr., 1962
Gilpin County/ Central City district/ hypogene
zoning/ ore genesis/ ore deposits/ Igneous-metamorphic/
Front Range/ petrology/
- Sims, P. K., and Drake, A. A., Jr., 1953
Front Range/ Central City district/ Gilpin County/
Clear Creek County/ Igneous-metamorphic/ Jefferson
County/ geology/ ore deposits/
- Sims, P. K., and Gable, D. J., 1963
cordierite/ gneiss/ Central City quadrangle/
Gilpin County/ Clear Creek County/ Front Range/
minerals/ Central City district/ geology/ Precambrian
rocks/ Igneous-metamorphic/
- Sims, P. K., and Gable, D. J., 1964
geology/ Precambrian rocks/ Central City district/
Gilpin County/ Clear Creek County/ uranium/
thorium/ monazite/ Igneous-metamorphic/ pegmatites/
gneiss/ granite/ Front Range/
- Sims, P. K., and Gable, D. J., 1967
petrology/ structure/ Precambrian rocks/ Gilpin
County/ Clear Creek County/ Igneous-metamorphic/
pegmatites/ gneiss/ granite/ uranium/ thorium/
Front Range/ geology/ map/ Central City district/
Trilo claims/ White Spar claim/ Quartz Creek
district/ uranium/ thorium/ Colorado/ gneiss/
origin/ Sharon Springs Member/ Hermosa Formation/
Paradox Member/
- Sims, P. K., and others, 1959
Front Range/ Igneous-metamorphic/ uranium/ ore
deposits/ geology/ Clear Creek County/ Gilpin
County/
- Sims, P. K., and Phair, George, 1952
age determination/ Front Range/ Larimer County/
mineralogy/ petrology/ geochemistry/ mines/
minerals/ pitchblende/ Copper King mine/ fault
breccia/ shear zones/ veins/ stratigraphy/ Precambrian
rocks/ veins/ geology/ Prairie Divide area/
Igneous-metamorphic/

- Sims, P. K., and Phair, George, 1953
pitchblende/ ore deposits/ Copper King mine/
Larimer County/ uranium/ igneous-metamorphic/
Front Range/
- Sims, P. K., and Sheridan, D. M., 1964
geology/ ore deposits/ Front Range/ genesis/
mineralogy/ analyses/ emission spectroscopy/
uranium/ veins/ igneous-metamorphic/ Clear Creek
County/ Gilpin County/ Boulder County/ Larimer
County/
- Sims, P. K., and Tooker, E. W., 1954
Eureka Gulch area/ Central City district/ Gilpin
County/ igneous-metamorphic/ maps/ Front Range/
geology/
- Sims, P. K., and Tooker, E. W., 1955
metatorbernite/ alteration/ wall rocks/ Gilpin
County/ uranium/ igneous-metamorphic/ veins/
Front Range/ Central City district/
- Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/
pitchblende/ Central City district/ veins/ uranium/
igneous-metamorphic/ bostonite/ production/
pegmatites/ gneiss/ genesis/ Front Range/
- Sims, P. K., and Toulmin, Priestley, 3d, 1961
temperature of formation/ Precambrian rocks/
Copper King mine/ Front Range/ Larimer County/
igneous-metamorphic/ uranium/ granite/ ore deposits/
uranium/ thorium/ Colorado/ gneiss/ origin/
Sharon Springs Member/ Hermosa Formation/ Paradox
Member/
- Sims, P. K., Drake, A. A., Jr., and Moench, R.
H., 1953
Gilpin County/ Clear Creek County/ igneous-metamorphic/
Central City district/ Front Range/ geology/
ore deposits/
- Sims, P. K., Drake, A. A., Jr., and Moench, R.
H., 1953
Gilpin County/ Clear Creek County/ Central City
district/ geology/ maps/ ore deposits/ Iron
mine/ veins/ Russell Gulch area/ Quartz Hill
area/ Nevada Gulch area/ pitchblende/ Wood mine/
Calhoun mine/ Gold King claim/ Kirk mine/ Ross
shaft/ Belcher claims/ Front Range/ German claims/
Pewabic mine/ igneous-metamorphic/
- Sims, P. K., Drake, A. A., Jr., and Moench, R.
H., 1954
veins/ maps/ Central City district/ Gilpin County/
igneous-metamorphic/ Front Range/ geology/
- Sims, P. K., Drake, A. A., Jr., and Tooker, E.
W., 1963
economic geology/ Central City district/ Gilpin
County/ igneous-metamorphic/ production/ geology/
ore deposits/ mineralogy/ uranium/ pitchblende/
veins/ Front Range/ granite/ gneiss/ pegmatites/
- Sims, P. K., Harrison, J. E., and Moore, F. B., 1952
Central City district/ Dumont district/ Fall
River district/ Eureka Gulch district/ Front
Range/ Georgetown area/ Clear Creek County/
pitchblende/ Diamond Mountain (Lanagan) mine/
Gomer mine/ Golden Calf mine/ Golden Glen mine/
Martha E. mine/ veins/ Old Town mine/ Spread
Eagle mine/ reconnaissance/ Gilpin County/ ore
deposits/ base metals/ Freeland-Lamarline district/
igneous-metamorphic/ precious metals/
- Sims, P. K., Moench, R. H., Drake, A. A., Jr.,
and others, 1963
uranium/ ore deposits/ Central City district/
Idaho Springs district/ mining/ Gilpin County/
Clear Creek County/ Front Range/ igneous-metamorphic/
- Sims, P. K., Osterwald, F. W., and Tooker, E. W.,
1954
Gilpin County/ igneous-metamorphic/ Wood mine/
Nigger Hill/ Uinta Mountains/ Central City district/
mineralogy/ petrology/ geochemistry/ pitchblende/
ore deposits/ veins/ minerals/ kasolite/ metatorbernite/
Buckley mine/ Bullion mine/ Carroll mine/ Rara
Avis mine/ R.H.D. mine/ Two Sisters mine/ stratigraphy/
Precambrian rocks/ genesis/ Front Range/ Claire
Marie mine/
- Sims, P. K., Osterwald, F. W., and Tooker, E. W.,
1955
Gilpin County/ ore deposits/ petrology/ Eureka
Gulch area/ veins/ geology/ Central City district/
pitchblende/ metatorbernite/ igneous-metamorphic/
uranium/ Front Range/
- Sims, P. K., Phair, George, and Moench, R. H., 1955
age determination/ Front Range/ Larimer County/
mineralogy/ petrology/ geochemistry/ pitchblende/
ore deposits/ wall rock/ geology/ Copper King
mine/ minerals/ coffinite/ uraninite/ Precambrian
rocks/ base metals/ stratigraphy/ precious metals/
metamorphic rocks/ veins/ genesis/ igneous-metamorphic/
- Sims, P. K., Phair, George, and Moench, R. H., 1958
Larimer County/ Copper King mine/ ore deposits/
petrology/ geology/ Front Range/ igneous-metamorphic/
- Sims, P. K., Tooker, E. W., and Osterwald, F. W.,
1954
Central City district/ Gilpin County/ Eureka
Gulch area/ geology/ igneous-metamorphic/ uranium/
ore deposits/ Front Range/ maps/
- Sims, P. K., Young, E. J., and Sharp, W. N., 1961
coffinite/ uranium/ veins/ Front Range/ Boulder
County/ Larimer County/ Jefferson County/ Clear
Creek County/ igneous-metamorphic/ ore deposits/
- Singewald, Q. D., 1955
map/ thorium/ Wet Mountains/ Custer County/
igneous-metamorphic/ ore deposits/
- Singewald, Q. D., 1955
Sugarloaf district/ St. Kevin district/ Lake
County/ geology/ ore deposits/ production/ petrography/
economic geology/ veins/ torbenite/ granite/
igneous-metamorphic/

- Singewald, Q. D., 1966
thorium/ faults/ Ilse fault zone/ Wet Mountains/
structure/ Igneous-metamorphic/ gneiss/ ore
deposits/ Fremont County/
- Singewald, Q. D., and Brock, M. R., 1956
thorium/ faults/ Ilse fault zone/ Wet Mountains/
Fremont County/ structures/ Igneous-metamorphic/
gneiss/ ore deposits/ geology/
- Singewald, Q. D., and Brock, M. R., 1956
thorium/ Wet Mountains/ Custer County/ Fremont
County/ Precambrian rocks/ Tertiary rocks/ dikes/
metasediments/ Igneous-metamorphic/ gneiss/
veins/ pegmatites/ ore deposits/
- Singewald, Q. D., and Christman, R. A., 1953
Wet Mountains/ ore deposits/ Custer County/
thorium/ Igneous-metamorphic/
- Singewald, Q. D., and Christman, R. A., 1953
Wet Mountains/ ore deposits/ exploration/ Custer
County/ thorium/ Igneous-metamorphic/
- Singewald, Q. D., Christman, R. A., and Brock,
M. R., 1953
Haputa Ranch area/ Custer County/ Fremont County/
veins/ thorium/ rare earths/ ore deposits/ Wet
Mountains/ Precambrian rocks/ Sewell property/
Anna Lee property/ Igneous-metamorphic/
- Singewald, Q. D., Christman, R. A., and others, 1956
Custer County/ Fremont County/ McKinlay Mountain
area/ Igneous-metamorphic/ geology/ radiometrics/
maps/ City/ Colorado Plateau/ Gilpin County/
metamorphic/ ore deposits/ Colorado/ sandstone/
Front Range/
- Singewald, Q. D., Wilmarth, V. R., Pierson, C.
T., and others, n.d.
Lake County/ Chalk Mountain rhyolite/ radioactive
inclusions/ radioactivity/ Igneous-metamorphic/
- Slaughter, A. L., and Ciabaugh, S. E., 1945
Jefferson County/ trace elements/ coal/ carnotite/
Front Range/ Igneous-metamorphic/
- Smith, E. E., 1974
ore deposits/ veins/ Igneous-metamorphic/ concepts/
uranium/
- Solster, P. E., Conklin, D. R., and Bowman, M.
D., 1956
Colorado/ New Mexico/ Utah/ Arizona/ United
States/ bibliography/ trace element reports/
uranium/ vanadium/ thorium/ sandstone/ Colorado
Plateau/ Front Range/ Igneous-metamorphic/
- Soule, J. H., 1960
Jefferson County/ ore deposits/ resources/ production/
mining/ methods/ economics/ Schwartzwaldler mine/
uranium/ Igneous-metamorphic/ Front Range/ development/
Ralston Creek district/ geology/ history/
- Staatz, M. H., 1964
ore deposits/ resources/ thorium/ Custer County/
Fremont County/ Gunnison County/ Igneous-metamorphic/
- Staatz, M. H., 1973
veins/ thorium/ Igneous-metamorphic/ Custer
County/ Fremont County/ Gunnison County/
- Staatz, M. H., 1974
ore deposits/ veins/ mineralogy/ geochemistry/
minerals/ thorite/ monazite/ genesis/ controls/
ore controls/ structural controls/ thorium/
Igneous-metamorphic/ Wet Mountains/ Powderhorn
district/ Gunnison County/ carbonatite/ alkaline
complexes/ Custer County/ Fremont County/
- Staatz, M. H., 1975
thorium/ ore deposits/ Igneous-metamorphic/
Custer County/ Fremont County/ Gunnison County/
deposits/ Colorado/ Igneous-metamorphic/ sandstone/
Front Range/
- Staatz, M. H., 1976
thorium/ Igneous-metamorphic/ alkalic igneous
rocks/ Fremont County/ Custer County/ Gunnison
County/
- Staatz, M. H., 1976
thorium/ resources/ Igneous-metamorphic/ Custer
County/ Fremont County/ Gunnison County/ Front
Range/
- Staatz, M. H., Adams, J. W., and Wahlberg, J. S.,
1976
thorite/ Seerie pegmatite/ Igneous-metamorphic/
fluorite/ mineralogy/ geochemistry/ uraninite/
Jefferson County/ Front Range/ thorium/ pegmatites/
- Staatz, M. H., and Conklin, N. M., 1966
thorium/ veins/ carbonate/ Road Gulch area/
Wet Mountains/ rare-earths/ Igneous-metamorphic/
thorite/ geology/ mineralogy/ Fremont County/
Custer County/
- Staatz, M. H., and Olson, J. C., 1973
thorium/ Igneous-metamorphic/ resources/ Custer
County/ Fremont County/ Gunnison County/
- Staatz, M. H., and Trites, A. F., Jr., 1952
Front Range/ granite/ pegmatites/ geology/ structure/
mineralogy/ Gunnison County/ Wood Gulch/ beryllium/
petrology/ geochemistry/ minerals/ allanite/
monazite/ pyrochlore-microlite/ Brown Derby
claim/ Black Wonder claim/ Beryl and Rare Minerals
Lode claim/ Buckhorn mica mine/ Bucky claim/
Opportunity No. 1 claim/ Trio claims/ White
Spur claim/ Quartz Creek district/ uranium/
thorium/ gneiss/ origin/ Sharon Springs Member/
Hermosa Formation/ Paradox Member/ Igneous-metamorphic/
- Staatz, M. H., and Trites, A. F., Jr., 1955
Front Range/ granite/ pegmatites/ geology/ structure/
mineralogy/ Gunnison County/ Wood Gulch/ beryllium/
petrology/ geochemistry/ minerals/ gneiss/ allanite/
monazite/ pyrochlore-microlite/ uranium/ thorium/
origin/ Black Wonder claim/ Brown Derby claim/
Buckhorn mica mine/ Bucky claim/ Opportunity
No. 1 claim/ Trio claims/ White Spur claim/
Quartz Creek district/ Beryl and Rare Minerals
Lode claim/ Igneous-metamorphic/

- Stahl, R. L., 1974
Schwartzwalder mine/ Jefferson County/ Front Range/ igneous-metamorphic/ surface resistivity/ faults/ fault detection/ fault delineation/ structure/
- Stern, T. W., and Stieff, L. R., 1953
Colorado Plateau/ Larimer County/ Mesa County/ minerals/ coffinite/ Copper King mine/ La Sal No. 2 mine/ sandstone/ Front Range/ igneous-metamorphic/
- Stern, T. W., Stieff, L. R., and Sherwood, A. M., 1955
coffinite/ uranium/ ore deposits/ Colorado Plateau/ sandstone/ Larimer County/ Copper King mine/ mineralogy/ chemistry/ Front Range/ veins/ Montrose County/ igneous-metamorphic/
- Steven, T. A., Lipman, P. W., Fisher, F. S., and others, 1973
San Juan Mountains/ mineral resources/ uranium/ Lake City/ Hinsdale County/ igneous-metamorphic/ Uncompahgre primitive area/
- Steven, T. A., Schmitt, L. J. Jr., Sheridan, M. J., and Williams, F. E., 1969
minerals/ resources/ San Juan primitive area/ Iron/ Irving Formation/ igneous-metamorphic/ La Plata County/ San Juan County/ Hinsdale County/ Mineral County/ Elk Park area/ metasediments/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1955
Uravan district/ Jefferson County/ Larimer County/ Mesa County/ Montrose County/ San Miguel County/ coffinite/ Copper King mine/ La Sal No. 2 mine/ Matchless mine/ Old Leyden coal mine/ Peanut mine/ Robinson property/ pyrobitumens/ Weatherly property/ Wild Steer mine/ veins/ sandstone/ Cutler Formation/ Dolores Formation/ mineralogy/ Laramie Formation/ Morrison Formation/ Salt Wash Member/ igneous-metamorphic/ Colorado Plateau/ Front Range/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1956
Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Copper King mine/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ San Miguel County/ geochemistry/ x-ray analyses/ mineralogy/ sandstone/ igneous-metamorphic/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ x-ray analyses/ San Miguel County/ sandstone/ Copper King mine/ geochemistry/ igneous-metamorphic/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/ Copper King mine/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ x-ray analyses/ Montrose County/ San Miguel County/ geochemistry/ Colorado Plateau/ sandstone/ igneous-metamorphic/
- Stugard, Frederick, Jr., Wyant, D. G., and Gude, A. J., 3d, 1951
uranium/ ore deposits/ United States/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/
- Stugard, Frederick, Jr., Wyant, D. G., and Gude, A. J., 3d, 1952
veins/ uranium/ secondary deposits/ United States/ Central City district/ Colorado Plateau/ Gilpin County/ ore deposits/ igneous-metamorphic/ sandstone/ Front Range/
- Taylor, R. B., 1975
geology/ map/ Black Hawk quadrangle/ Gilpin County/ Jefferson County/ Clear Creek County/ Front Range/ igneous-metamorphic/
- Temple, A. K., and Grogan, R. M., 1963
Gunnison County/ Powderhorn district/ carbonatite/ pyroxenite/ alkalic rocks/ igneous-metamorphic/ niobium/ Iron Hill/ thorium/ columbium/
- Temple, A. K., and Grogan, R. M., 1963
carbonatite/ alkaline complex/ Powderhorn district/ igneous-metamorphic/ thorium/ veins/ alkalic rocks/ Iron Hill/ Gunnison County/ niobium/
- Temple, A. K., and Grogan, R. M., 1965
carbonatite/ alkalic complex/ igneous-metamorphic/ Powderhorn district/ Gunnison County/ thorium/ veins/ geochemistry/ petrology/ Iron Hill/ niobium/ alkalic rocks/
- Theobald, P. K., and Gullinger, R. R., 1955
veins/ FMD mine/ Jefferson County/ shear zones/ copper/ radioactivity/ igneous-metamorphic/ geology/ Front Range/
- Thurston, W. R., 1950
beryllium/ pegmatites/ Larimer County/ Big Boulder prospect/ igneous-metamorphic/ exploration/ Front Range/ beryl/
- Thurston, W. R., 1950
beryllium/ pegmatites/ Larimer County/ Hyatt mica mine/ pegmatite/ beryl/ igneous-metamorphic/ exploration/ Front Range/ Hyatt pegmatite/
- Thurston, W. R., 1950
beryllium/ pegmatites/ Larimer County/ Buckhorn mica mine/ drilling/ sections/ igneous-metamorphic/ Front Range/ exploration/
- Thurston, W. R., 1952
igneous-metamorphic/ Buckhorn mica mine/ schist/ Hyatt area/ Front Range/ beryllium/ pegmatites/ Crystal Mountain district/ mineralogy/ petrology/ geochemistry/ minerals/ autunite/ gummite/ uraninite/ Big Boulder prospect/ Hyatt mica pegmatite/ reserves/ resources/ uranium/ thorium/ beryl/ Larimer County/ metatorbernite/
- Thurston, W. R., 1955
Front Range/ Larimer County/ igneous-metamorphic/ schist/ granite/ diorite/ pegmatites/ Crystal Mountain district/ uraninite/ structure/ alteration/ Hyatt pegmatite/ Big Boulder prospect/ Buckhorn mica mine/ Idaho Springs Formation/

IGNEOUS-METAMORPHIC

- Tooker, E. W., 1953
wall rock alteration/ Front Range/ Igneous-metamorphic/
Gilpin County/ Clear Creek County/
- Tooker, E. W., 1955
Gilpin County/ Clear Creek County/ Central City
district/ Idaho Springs district/ mineralogy/
petrology/ alteration/ geochemistry/ wall rock/
Igneous-metamorphic/ uranium/ veins/ Front Range/
- Tooker, E. W., 1956
Central City district/ Idaho Springs district/
igneous-metamorphic/ alteration/ veins/ wall
rocks/ sulfides/ structures/ ore deposits/ Front
Range/ Gilpin County/ Clear Creek County/
- Tooker, E. W., 1963
alteration/ wall rocks/ Front Range/ Gilpin
County/ Clear Creek County/ Igneous-metamorphic/
- Tovote, W. L., 1906
Gilpin County/ pitchblende/ Igneous-metamorphic/
Front Range/
- Tovote, W. L., 1906
Boulder County/ Igneous-metamorphic/ Front Range/
- Trautwein, C. M., 1975
Precambrian rocks/ stratigraphy/ structure/
metamorphic petrology/ Eldorado Springs quadrangle/
Ralston Buttes quadrangle/ Jefferson County/
Boulder County/ Front Range/ Igneous-metamorphic/
- Twenhofel, W. S., and Buck, K. L., 1956
thorium/ Powderhorn district/ Gunnison County/
veins/ Custer County/ Fremont County/ Colorado/
Idaho/ Wyoming/ Precambrian rocks/ Montana/
California/ geology/ New Mexico/ Wisconsin/
New York/ Michigan/ Wet Mountains/ ore deposits/
Igneous-metamorphic/
- Twenhofel, W. S., and Buck, K. L., 1956
geology/ thorium/ Powderhorn district/ Gunnison
County/ Wet Mountains/ Custer County/ Fremont
County/ veins/ Precambrian rocks/ Colorado/
Wyoming/ Idaho/ Montana/ California/ New Mexico/
Wisconsin/ New York/ Michigan/ ore deposits/
Igneous-metamorphic/
- U.S. Atomic Energy Commission, and U.S. Geological
Survey, 1956
prospecting/ sandstone/ Colorado Plateau/ uranium/
thorium/ techniques/ geology/ exploration/ Front
Range/ Igneous-metamorphic/ Colorado/ United
States/
- U.S. Atomic Energy Commission, 1959
uranium/ geology/ exploration/ United States/
mining/ uranium mines/ mineralogy/ Colorado
Plateau/ bibliography/ guidebook/ sandstone/
Colorado/ ore deposits/ Igneous-metamorphic/
Front Range/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Boulder County/ Front Range/
ore deposits/ reconnaissance/ Igneous-metamorphic/
sandstone/

IGNEOUS-METAMORPHIC

- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Chaffee County/ reconnaissance/
ore deposits/ sandstone/ Igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Clear Creek County/ Igneous-metamorphic/
veins/ Front Range/ reconnaissance/ ore deposits/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Custer County/ reconnaissance/
ore deposits/ Front Range/ sandstone/ Igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ El Paso County/ reconnaissance/
ore deposits/ Front Range/ sandstone/ Igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Gilpin County/ reconnaissance/
ore deposits/ Front Range/ Igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Gunnison County/ reconnaissance/
ore deposits/ veins/ Igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Hinsdale County/ reconnaissance/
ore deposits/ San Juan Mountains/ Igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Jackson County/ reconnaissance/
ore deposits/ Igneous-metamorphic/ spring deposits/
sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Jefferson County/ reconnaissance/
ore deposits/ Front Range/ sandstone/ sandstone/
coal/ Igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Lake County/ reconnaissance/
Igneous-metamorphic/ ore deposits/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ La Plata County/ reconnaissance/
ore deposits/ sandstone/ Igneous-metamorphic/

IGNEOUS-METAMORPHIC

IGNEOUS-METAMORPHIC

- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Larimer County/ reconnaissance/ ore deposits/ Front Range/ igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Mineral County/ reconnaissance/ ore deposits/ San Juan Mountains/ igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Ouray County/ reconnaissance/ ore deposits/ spring deposits/ igneous-metamorphic/ Colorado Plateau/ San Juan Mountains/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Park County/ reconnaissance/ ore deposits/ sandstone/ igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Pitkin County/ reconnaissance/ igneous-metamorphic/ ore deposits/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Routt County/ reconnaissance/ ore deposits/ sandstone/ igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Saguache County/ reconnaissance/ ore deposits/ limestone/ sandstone/ igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ San Juan County/ reconnaissance/ ore deposits/ San Juan Mountains/ igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Summit County/ reconnaissance/ ore deposits/ igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Teller County/ reconnaissance/ ore deposits/ sandstone/ igneous-metamorphic/
- U.S. Energy Research and Development Administration, 1976
resources/ United States/ uranium districts/ sandstone/ igneous-metamorphic/ Colorado Plateau/ geology/ veins/ Great Plains/ Front Range/ Rocky Mountains/ NURE program/
- U.S. Geological Survey, 1950
Front Range/ igneous-metamorphic/ sandstone/
- U.S. Geological Survey, 1952
Colorado Plateau/ isotopes/ geology/ sandstone/ geophysical investigations/ ground water/ Triassic rocks/ reserves/ resources/ igneous-metamorphic/ uranium/ vanadium/ stratigraphy/ Cenozoic rocks/ Morrison Formation/ trace elements/
- U.S. Geological Survey, 1953
geology/ San Miguel County/ Uravan district/ sandstone/ Colorado Plateau/ Powderhorn district/ igneous-metamorphic/ exploration/ Slick Rock district/ Gypsum Valley district/ Morrison Formation/ Gateway district/ Mesa County/ Montrose County/ Dolores County/ Spud Patch area/ Legln group/ Monogram Mesa/ Club Mesa/ carnotite/ ore deposits/ Gunnison County/
- U.S. Geological Survey, 1953
sandstone/ Colorado Plateau/ Front Range/ veins/ igneous-metamorphic/ thorium/ Powderhorn district/ natural waters/ Morrison Formation/ Mesa County/ San Miguel County/ Dolores County/ Gilpin County/ San Juan County/ La Plata County/ Ouray County/ geology/ Gunnison County/ Montrose County/ San Juan Mountains/ Clear Creek County/ ore deposits/
- U.S. Geological Survey, 1953
geologic mapping/ Colorado Plateau/ Front Range/ carbonaceous rocks/ geochemistry/ reconnaissance/ black shales/ sandstone/ igneous-metamorphic/ geology/ ore deposits/ Gilpin County/ Clear Creek County/ Jefferson County/ Montrose County/ Mesa County/ San Miguel County/ Gunnison County/
- U.S. Geological Survey, 1953
Colorado Plateau/ Front Range/ sandstone/ coal/ springs/ igneous-metamorphic/ shale/ Gilpin County/ Clear Creek County/ Jefferson County/ Boulder County/ Custer County/ thorium/ Gunnison County/ La Plata County/ San Juan County/ Ouray County/
- U.S. Geological Survey, 1953
Colorado Plateau/ veins/ Front Range/ Morrison Formation/ Triassic studies/ mineralogy/ petrology/ analyses/ sandstone/ igneous-metamorphic/ permeability/ geophysics/ gamma-ray logs/ ground water studies/ trace elements/
- U.S. Geological Survey, 1954
Clear Creek County/ Gilpin County/ ore deposits/ reserves/ Colorado Plateau/ exploration/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Moffat County/ Dolores County/ Rio Blanco County/ Front Range/ igneous-metamorphic/ Jefferson County/ pitchblende/ hydrogeochemical exploration/ stream sediments/ ground water/ mine waters/
- U.S. Geological Survey, 1954
Colorado Plateau/ geophysics/ Front Range/ sandstone/ mineralogy/ coal/ shales/ reconnaissance/ petrology/ stratigraphy/ sandstone/ igneous-metamorphic/ geology/ ore deposits/

- U.S. Geological Survey, 1954
Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ Morrison Formation/ geology/ Chinle Formation/ Shinarump Member/ reserves/ San Juan Mountains/ snow/ surface water/ ground water/ Ouray County/ San Juan County/ conglomerate/ Igneous-metamorphic/ Front Range/
- U.S. Geological Survey, 1954
Front Range/ Colorado Plateau/ stratigraphy/ botanical prospecting/ mineralogy/ Ralston Buttes district/ black shale/ reconnaissance/ analyses/ Jefferson County/ sandstone/ Igneous-metamorphic/
- U.S. Geological Survey, 1955
Beaver Mesa/ Disappointment Valley/ Front Range/ Jo Dandy area/ La Sal Creek area/ Monogram Mesa/ exploration/ drilling/ Ralston Buttes district/ Uravan district/ Montrose County/ San Miguel County/ Mesa County/ Jefferson County/ Colorado Plateau/ sandstone/ Igneous-metamorphic/
- U.S. Geological Survey, 1955
Front Range/ Golden Gate Canyon area/ Uravan district/ exploration/ drilling/ Colorado Plateau/ Jefferson County/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ sandstone/ Igneous-metamorphic/ Ralston Buttes district/
- U.S. Geological Survey, 1955
Colorado Plateau/ Front Range/ sandstone/ geologic mapping/ veins/ carbonaceous rocks/ geochemistry/ reconnaissance/ analyses/ Igneous-metamorphic/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ Montezuma County/ Fremont County/ Jefferson County/
- U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ veins/ geologic mapping/ mineralogy/ petrology/ geophysics/ carbonaceous rocks/ analyses/ sandstone/ San Miguel County/ Dolores County/ Montrose County/ Montezuma County/ Jefferson County/ Mesa County/ Igneous-metamorphic/
- U.S. Geological Survey, 1956
Colorado Plateau/ mapping/ geology/ geophysics/ mineralogy/ vanadium/ carbonaceous rocks/ petrology/ San Miguel County/ sandstone/ Igneous-metamorphic/ Dolores County/ Montrose County/ Montezuma County/ Jefferson County/ Front Range/ Mesa County/ Fremont County/
- U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ sandstone/ San Miguel County/ Igneous-metamorphic/ Dolores County/ Montrose County/ Mesa County/ Montezuma County/ Jefferson County/ Fremont County/
- U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geochemistry/ geophysics/ thorium/ ore deposits/ sandstone/ Igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Gilpin County/ Clear Creek County/
- U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ San Miguel County/ Montrose County/ sandstone/ Igneous-metamorphic/ Mesa County/ Clear Creek County/ Gilpin County/ ore deposits/
- U.S. Geological Survey, 1958
Colorado Plateau/ mapping/ geophysics/ Clear Creek County/ geochemistry/ Maybell-Lay area/ Front Range/ Gilpin County/ research/ thorium/ Moffat County/ sandstone/ Mesa County/ San Miguel County/ Montrose County/ Igneous-metamorphic/
- U.S. Geological Survey, 1958
Colorado Plateau/ geophysics/ geochemistry/ Gilpin County/ research/ Front Range/ thorium/ reconnaissance/ Mesa County/ sandstone/ Clear Creek County/ Montrose County/ San Miguel County/ Igneous-metamorphic/
- U.S. Geological Survey, 1971
Colorado/ minerals/ Colorado Plateau/ Front Range/ sandstone/ Igneous-metamorphic/ map/
- United Nations, 1956
uranium/ thorium/ geology/ ore deposits/ geochemistry/ isotope geology/ Front Range/ Colorado Plateau/ sandstone/ Igneous-metamorphic/
- Van Horn, Richard, 1976
geology/ Golden quadrangle/ Jefferson County/ Igneous-metamorphic/ Front Range/
- Vanderpool, J. S., 1957
paragenesis/ structure/ pitchblende/ veins/ Igneous-metamorphic/ Gilpin County/ Front Range/ Central City district/
- Vanderwilt, J. W., 1947
minerals/ resources/ Colorado/ uranium/ thorium/ sandstone/ Colorado Plateau/ Front Range/ Igneous-metamorphic/
- Vickers, R. C., compiler, 1951
bibliography/ trace element reports/ uranium/ vanadium/ thorium/ beryllium/ Colorado Plateau/ Front Range/ sandstone/ Igneous-metamorphic/
- Walker, G. W., 1956
ore deposits/ host rocks/ alteration/ veins/ sandstone/ Igneous-metamorphic/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ dolomite/ Pitkin County/ Larimer County/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/
- Walker, G. W., 1957
Marysvale/ leaching/ uranium/ ore deposits/ supergene alteration/ veins/ Marshall Pass/ Colorado/ Utah/ Saguache County/ Nigger shaft/ North Star mine/ Jefferson County/ Gilpin County/ Front Range/ sandstone/ Igneous-metamorphic/ zoning/ Madonna mine/ Chaffee County/
- Walker, G. W., 1963
alteration/ veins/ Igneous-metamorphic/ sandstone/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson

- County/ Saguache County/ coal/ Cochetopa district/ ore deposits/ Placerville district/ San Miguel County/ Larimer County/ Central City district/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/
- Walker, G. W., 1963
Marysvale/ leaching/ uranium/ ore deposits/ supergene alteration/ veins/ Marshall Pass/ Colorado/ Utah/ Saguache County/ Nigger Shaft/ North Star mine/ Jefferson County/ Gilpin County/ Front Range/ sandstone/ igneous-metamorphic/ zoning/ Madonna mine/ Chaffee County/
- Walker, G. W., 1963
age determination/ ore deposits/ veins/ Tertiary/ Cretaceous/ Front Range/ Wood mine/ Iron mine/ Gilpin County/ German mine/ Copper King mine/ Larimer County/ igneous-metamorphic/ Schwartzwalder mine/ Jefferson County/ Los Ochos mine/ Saguache County/ Isotopes/
- Walker, G. W., and Adams, J. W., 1957
Boulder County/ Larimer County/ Clear Creek County/ Central City district/ Gilpin County/ Caribou mine/ Front Range/ Jefferson County/ Placerville district/ San Miguel County/ Colorado Plateau/ ore deposits/ Marshall Pass/ Saguache County/ Copper King mine/ sandstone/ mineralogy/ veins/ textures/ structures/ paragenesis/ Los Ochos mine/ Schwartzwalder mine/ igneous-metamorphic/
- Walker, G. W., and Adams, J. W., 1963
Boulder County/ Larimer County/ Placerville district/ Central City district/ Gilpin County/ Clear Creek County/ Front Range/ Jefferson County/ Schwartzwalder mine/ San Miguel County/ Colorado Plateau/ Copper King mine/ Saguache County/ ore deposits/ Caribou mine/ Los Ochos mine/ sandstone/ Colorado/ mineralogy/ igneous-metamorphic/ textures/ structures/ paragenesis/
- Walker, G. W., and Osterwald, F. W., 1956
ore deposits/ veins/ fluorite/ Front Range/ Gilpin County/ coal/ Jefferson County/ Placerville district/ San Miguel County/ Clear Creek County/ sandstone/ igneous-metamorphic/ Colorado Plateau/ Cochetopa district/ Saguache County/ Powderhorn district/ Custer County/ Chaffee County/
- Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ geology/ Front Range/ Gilpin County/ Jefferson County/ sandstone/ Boulder County/ San Miguel County/ igneous-metamorphic/ Colorado Plateau/ Saguache County/ Custer County/ Chaffee County/ Clear Creek County/ Jamestown district/ Cochetopa district/ Powderhorn district/ Placerville district/
- Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ genesis/ Placerville district/ transportation/ deposition/ depositional environments/ Clear Creek County/ Gilpin County/ Saguache County/ Jefferson County/ Cochetopa district/ Front Range/ San Miguel County/ Leyden coal mine/ Larimer County/ Boulder County/ sandstone/ igneous-metamorphic/
- Wallace, S. R., and Campbell, R. H., 1953
Gold Hill/ ore deposits/ zoning/ Boulder County/ metalliferous districts/ igneous-metamorphic/ Front Range/
- Wallace, S. R., and Campbell, R. H., 1954
ore deposits/ zoning/ Gold Hill/ Boulder County/ igneous-metamorphic/ Front Range/
- Wallace, S. R., and Laub, D. C., 1954
veins/ Colorado/ Arizona/ ore deposits/ exploration/ zoning/ metalliferous deposits/ Gold Hill/ Boulder County/ igneous-metamorphic/ Front Range/
- Wallace, S. R., and Olson, J. C., 1956
Powderhorn district/ thorium/ Gunnison County/ Iron Hill/ carbonatite/ igneous-metamorphic/ geology/ mineralogy/ analyses/ ore deposits/ alkalic igneous rocks/
- Wallace, S. R., and Olson, J. C., 1956
Gunnison County/ Powderhorn district/ ore deposits/ thorium/ alkalic igneous rocks/ Iron Hill/ carbonatite/ igneous-metamorphic/ geology/ mineralogy/ analyses/
- Wallace, S. R., Leonard, B. F., 3d, and Campbell, R. H., 1955
Breckenridge district/ Caribou district/ Central City district/ Summit County/ Gold Hill district/ Freeland-Lamarine district/ Front Range/ Georgetown district/ Silver Plume district/ Idaho Springs district/ Lawson - Dumont district/ igneous-metamorphic/ Gilpin county/ Ward district/ Boulder County/ Clear Creek County/ hypogene mineral zoning/ Idaho Springs district/
- Waring, C. L., and Ansell, C. S., 1952
Larimer County/ Hyatt mica-beryl/ pegmatites/ spectrographic analyses/ pegmatite samples/ Front Range/ igneous-metamorphic/ chemical analyses/
- Weir, G. W., and Puffett, W. P., 1960
uranium/ vanadium/ copper/ Lisbon Valley area/ Utah/ San Miguel County/ Cutler Formation/ Chinle Formation/ Morrison Formation/ sandstone/ ore deposits/ Colorado Plateau/ Dolores anticline/ igneous-metamorphic/
- Wells, J. D., 1955
structure/ granodiorite/ Ute Creek/ Clear Creek County/ Front Range/ igneous-metamorphic/ petrology/
- Wells, J. D., 1960
petrology/ Tertiary rocks/ igneous-metamorphic/ thorium/ Front Range/ radioactivity/ bostonite porphyry/ Gilpin County/ Clear Creek County/ volcanic rocks/ uranium/ petrography/
- Wells, J. D., 1967
geology/ Eldorado Springs quadrangle/ Boulder County/ Jefferson County/ igneous-metamorphic/ Front Range/
- Wells, J. D., n.d.
geology/ Tertiary rocks/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/

- Wells, J. D., and Harrison, J. E., 1953
Clear Creek County/ reconnaissance/ radioactivity/
Igneous-metamorphic/ Front Range/
- Wells, J. D., and Harrison, J. E., 1954
Clear Creek County/ ore deposits/ exploration/
veins/ radioactivity/ reconnaissance/ Front
Range/ Igneous-metamorphic/
- Wells, J. D., Sheridan, P. M., and Albee, A. L., 1961
metamorphism/ structure/ geologic history/ Coal
Creek area/ Front Range/ Igneous-metamorphic/
Jefferson County/ Clear Creek County/
- Wells, J. D., Sheridan, P. M., and Albee, A. L., 1964
Precambrian/ quartzite/ schist/ Coal Creek/
Front Range/ igneous-metamorphic/ Jefferson
County/ Clear Creek County/ Idaho Springs Formation/
- Wemlinger, C. A., 1950
Gunnison County/ Willow Creek/ pegmatites/ beryl/
mica/ ore deposits/ rare earth minerals/ igneous-metamorphic/
- Williams, G. A., 1953
stratigraphy/ Colorado Plateau/ sandstone/ Morrison
Formation/ geology/ ore deposits/
- Wilmarth, V. R., Bauer, H. L., Jr., Staatz, M.
H., and Wyant, D. G., 1951
uranium/ fluorite/ ore deposits/ ore classification/
Front Range/ Boulder County/ Igneous-metamorphic/
veins/
- Wilmarth, V. R., Bauer, H. L., Jr., Staatz, M.
H., and others, 1952
veins/ fluorite/ uranium/ Front Range/ Boulder
County/ ore deposits/ igneous-metamorphic/ mineral
association/
- Winterhalter, E. C., 1953
veins/ reconnaissance/ North Park/ Jackson County/
uranium/ Sheep Mountain prospect/ Padad prospect/
Igneous-metamorphic/ fluorite/ ore deposits/
Dakota Sandstone/ sandstone/ conglomerate/ chert/
breccia breccia zones/ geology/ Precambrian rocks/
- Wollenberg, H. A., and Smith, A. R., 1970
potassium/ radiogenic heat production/ radioactivity/
rocks/ thorium/ uranium/ Sierra Nevada/ Colorado/
geography/ mountains/ igneous-metamorphic/
- Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/
ore deposits/ Jefferson County/ San Miguel County/
Saguache County/ Park County/ Boulder County/
Montrose County/ Moffat County/ sandstone/ Front
Range/ coal/ Igneous-metamorphic/
- Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/
sandstone/ production/ geology/ Boulder County/
Jefferson County/ Saguache County/ Park County/
Montrose County/ San Miguel County/ Moffat County/
coal/ Igneous-metamorphic/ Front Range/
- Wood, H. E., 1913
radium/ pitchblende/ Gilpin County/ chemical
separation/ igneous-metamorphic/ Front Range/
- Wood, J. R., 1912
vanadium/ Boulder County/ igneous-metamorphic/
Front Range/
- Wright, H. D., 1950
Caribou mine/ ore deposits/ radium/ mineralogy/
Boulder County/ Radium vein/ Igneous-metamorphic/
uraninite/ sampling/ analyses/ paragenesis/
Front Range/ veins/
- Wright, H. D., 1950
ore deposits/ radium/ veins/ wall-rock alteration/
Caribou mine/ Radium vein/ Igneous-metamorphic/
uraninite/ Front Range/ Boulder County/
- Wright, H. D., 1951
ore deposits/ paragenesis/ Boulder County/ Caribou
district/ Radium vein/ Igneous-metamorphic/
uraninite/ silver/ Caribou mine/ Front Range/
veins/
- Wright, H. D., 1951
Canada/ Ontario/ ore deposits/ uraninite/ Caribou
mine/ alteration/ Boulder County/ paragenesis/
Front Range/ igneous-metamorphic/
- Wright, H. D., 1954
ore deposits/ uraninite/ mineralogy/ Boulder
County/ silver/ Radium vein/ uranium/ veins/
wall-rock/ igneous-metamorphic/ geochemistry/
Caribou mine/ Front Range/ Caribou district/
- Wright, H. D., and Shulhof, W. P., 1957
veins/ sulfide minerals/ Front Range/ Boulder
County/ igneous-metamorphic/ ore deposits/
- Wright, H. D., Hutta, J. J., Shulhof, W. P., and
Smith, C. M., 1957
veins/ Igneous-metamorphic/ Clear Creek County/
sulfide minerals/ base metals/ mineral associations/
analyses/ paragenesis/ trace elements/ Idaho/
Arizona/ Central City district/ Carroll mine/
pitchblende/ solid solution/ ore deposits/ Front
Range/
- Wyant, D. G., 1949
Larimer County/ Treasure Hill area/ schist/
granite/ igneous-metamorphic/ reconnaissance/
Front Range/ Precambrian rocks/
- Wyant, D. G., 1949
Boulder County/ Wheelman (mine) tunnel/ pegmatites/
Igneous-metamorphic/ Precambrian rocks/ granite/
gold/ wolframite/ veins/ Front Range/ analyses/
- Wyant, D. G., 1949
Larimer County/ Spaulding-Woodhams prospects/
scheelite/ igneous-metamorphic/ Front Range/
- Wyant, D. G., Fischer, W. A., O'Sullivan, R. B.,
and others, 1951
Larimer County/ igneous-metamorphic/ Treasure
Hill area/ Front Range/
- Young, E. J., 1972
Laramide/ Tertiary/ intrusive rocks/ Colorado/
igneous-metamorphic/ Front Range/

IGNEOUS-METAMORPHIC

IGNEOUS-METAMORPHIC

- Young, E. J., 1977
 geology/ maps/ radiometric maps/ mineralogic
 maps/ underground workings/ Schwartzwalder mine/
 Igneous-metamorphic/ Front Range/ uranium/ Jefferson
 County/
- Young, E. J., and Hauff, P. L., 1975
 Colorado/ isotopes/ radioactivity/ age dating/
 uranium/ lead/ uraninite/ pegmatite/ gneiss/
 Wheeler basin/ Grand County/ Rossing uranium
 deposit/ Precambrian rocks/ igneous-metamorphic/
 ore deposits/
- Young, E. J., and Lahr, M., 1975
 Schwartzwalder mine/ Jefferson County/ Front
 Range/ Igneous-metamorphic/ uranium/ ore deposits/
- Young, E. J., and Sims, P. K., 1958
 Front Range/ xenotime/ monazite/ biotite gneiss/
 migmatite/ igneous-metamorphic/ Gilpin County/
 thorium/ Central City district/ Precambrian rocks/
- Young, E. J., and Sims, P. K., 1961
 Central City district/ Gilpin County/ petrography/
 monazite/ xenotime/ Precambrian rocks/ gneiss/
 genesis/ Igneous-metamorphic/ Front Range/
- Young, Patti, and Mickle, D. G., 1976
 uranium/ favorability/ Tertiary rocks/ Badger
 Flats/ Elkhorn thrust area/ Park County/ Teller
 County/ Igneous-metamorphic/ Front Range/
- Zalinski, E. R., 1908
 vanadium/ San Miguel County/ Colorado Plateau/
 Telluride area/ Igneous-metamorphic/
- Zogg, William, 1976
 Lake County/ geology/ Colorado Gulch area/ Sawatch
 Range/ Turquoise Lake area/ St. Kevin district/
 Igneous-metamorphic/

LIMESTONE, PHOSPHORITE

- Baker, Arthur, 3d, 1960
Pitch mine/ Saguache County/ limestone/ geology/
veins/ ore deposits/ shale/
- Baker, Arthur, 3d, and Scott, B. C., 1961
Pitch mine/ ore deposits/ ground control/ geology/
Saguache County/ limestone/ veins/ shale/
- Baltz, E. H., Jr., 1954
Colorado/ New Mexico/ ore deposits/ exploration/
Archuleta County/ Huerfano County/ radioactive
deposits/ carbonaceous shale/ sandstone/ copper/
limestone/ Sangre de Cristo Formation/ Wanakah
Formation/ tuff/ Wet Mountains/ Mesaverde Formation/
- Barge, E. M., 1953
limestone/ sandstone/ Colorado Plateau/ Hermosa
Formation/ reserves/ exploration/ drilling/
ore deposits/ uranium/ vanadium/ Morrison Formation/
Early Morn group/ Gypsum Valley district/ San
Miguel County/
- Barge, E. M., 1953
Colorado Plateau/ drilling/ ore deposits/ reserves/
exploration/ Gypsum Valley district/ Sunset
claim/ San Miguel County/ sandstone/ Morrison
Formation/ carnotite/ uranium/ vanadium/ Early
Morn group/ limestone/ Salt Wash Member/
- Berglof, W. R., 1970
Colorado Plateau/ absolute age/ ore deposits/
age estimation/ Colorado/ isotope dating/ lead/
New Mexico/ uranium/ uranium-235/ uranium-238/
Utah/ Morrison Formation/ Chinle Formation/
Todilto Limestone/ sandstone/
- Berglof, W. R., 1973
Colorado Plateau/ absolute age/ ore deposits/
Utah/ age estimation/ Colorado/ isotope dating/
lead/ New Mexico/ uranium/ uranium-235/ uranium-238/
Morrison Formation/ Chinle Formation/ Todilto
Limestone/ sandstone/
- Beroni, E. P., and McKeown, F. A., 1952
geology/ sandstone/ reconnaissance/ marine black
shales/ Entrada Sandstone/ Curtis Formation/
Igneous-metamorphic/ Skull Creek district/ Bozo
claims/ Fair-U claim/ Lucky Strike claims/ Grand
County/ Moffat County/ Routt County/ coal/ copper/
uranium/ limestone/ phosphates/ carnotite/ uraninite/
spring deposits/ migmatite/ granite/ Colorado/
Wyoming/ Utah/
- Boyd, F. S., Jr., and Bromley, C. P., 1953
veins/ Aspen area/ Smuggler mine/ Pitkin County/
uranium/ breccia/ shale/ limestone/ Chaffee
Formation/ Devonian/ Weber Formation/ production/
reconnaissance/
- Bush, A. L., and Bryner, Leonid, 1953
carnotite/ roscoelite/ stratigraphy/ Entrada
Sandstone/ minerals/ Pony Express Limestone
Member/ Wanakah Formation/ limestone/ sandstone/
Colorado Plateau/ uranium/ vanadium/ San Juan
Mountains/ San Miguel County/ ore deposits/
- San Juan County/ Dolores County/ La Plata County/
Lightner Creek district/ Placerville district/
resources/
- Bush, A. L., and Taylor, R. B., 1958
San Juan Mountains/ ore deposits/ Gray head
quadrangle/ San Miguel County/ uranium/ vanadium/
granodiorite/ Placerville district/ Pony Express
Limestone Member/ sandstone/ limestone/ Colorado
Plateau/ igneous-metamorphic/
- Cadigan, R. A., 1954
correlation/ stratigraphy/ San Rafael group/
sandstone/ Colorado Plateau/ Colorado/ Entrada
Sandstone/ limestone/ Todilto Limestone/ siltstone/
- Cadigan, R. A., 1955
Dolores County/ Garfield County/ Mesa County/
sandstone/ Montrose County/ Rio Blanco County/
San Miguel County/ Entrada Sandstone/ Morrison
Formation/ stratigraphy/ Todilto Limestone/
Chinle Formation/ limestone/ host rocks/ conglomerate/
Colorado Plateau/ Triassic/ Jurassic/
- Campbell, G. C., and Schlottmann, J. D., 1957
uranium/ ore deposits/ stratigraphy/ mineralization/
geology/ geological surveys/ meteoric water/
siltstone/ Eagle County/ sandstone/ limestone/
Minturn Formation/ Vall Pass area/
- Cater, F. W., Jr., 1955
San Miguel County/ Gypsum Gap quadrangle/ sandstone/
Colorado Plateau/ Morrison Formation/ Salt Wash
Member/ Hermosa Formation/ Pitchfork mines/
Bald Eagle mines/ Long Ridge mines/ limestone/
geology/ map/ carnotite/
- Cater, F. W., Jr., 1955
San Miguel County/ Colorado Plateau/ Morrison
Formation/ Salt Wash Member/ sandstone/ carnotite/
Hermosa Formation/ limestone/ Pitchfork mines/
geology/ Bald Eagle mines/ Long Ridge mines/
map/ ore deposits/ Gypsum Gap quadrangle/
- Christ, C. L., and Chisholm, W. A., 1957
thermoluminescence/ radioactive minerals/ limestone/
ore deposits/ limestone/ Gliman district/ ore
guides/ hydrothermal alteration/ Eagle County/
Puerto Rico limestone/ igneous-metamorphic/
- Craig, L. C., and Koteff, C., 1956
stratigraphy/ Colorado Plateau/ Paleozoic/ Cretaceous/
sandstone/ limestone/ ore deposits/
- Craig, L. C., and Mytton, J. W., 1958
stratigraphy/ Colorado Plateau/ Paleozoic/ Mesozoic/
sandstone/ limestone/ ore deposits/
- Duncan, D. C., compiler, 1953
ore deposits/ black shale/ Weber Formation/
exploration/ shale/ reconnaissance/ Belden Formation/
Paradox Member/ Eagle County/ Garfield County/
Gunnison County/ Hermosa Formation/ San Juan
County/ La Plata County/ Lake County/ Pony Express
Limestone Member/ Ouray County/ Dakota Sandstone/
Archuleta County/ Pierre Shale/ Las Animas County/
Huerfano County/ Vermejo Formation/ limestone/
sandstone/ Front Range/ Colorado Plateau/

LIMESTONE, PHOSPHORITE

- Dunn, J. E., 1957
Marshall Pass/ ore deposits/ Saguache County/
uranium/ Gunnison County/ Chester fault/ Harding
Sandstone/ Igneous-metamorphic/ pegmatite/ limestone/
Belden Formation/ Leadville Limestone/
- Dutro, H. B., and Blvens, N. W., 1953
Paradox Member/ Hermosa Formation/ Colorado
Plateau/ reserves/ exploration/ drilling/ sandstone/
limestone/ ore deposits/ uranium/ vanadium/
Spectacle Point claims/ Gypsum Valley district/
San Miguel County/
- Everhart, D. L., 1951
geology/ veins/ ore deposits/ minerals/ sandstone/
igneous-metamorphic/ mudstone/ Colorado Plateau/
phosphates/ pitchblende/ pegmatite/ carnotite/
Morrison Formation/ Entrada Sandstone/ Shinarump
Member/ Mesa County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ asphalt/
limestone/ black shale/ Belgian Congo/ Canadian
Shield/
- Finch, W. I., 1955
Colorado Plateau/ ore deposits/ uranium/ sandstone/
copper/ conglomerate/ ore-bearing formation/
limestone/ vanadium/ Rio Blanco County/ Garfield
County/ Mesa County/ geology/ Delta County/
San Miguel County/ Dolores County/ Rifle mine/
Montezuma County/ La Plata County/ Greysill
mine/ Placerville district/ Uravan district/
Gateway district/ map/ geology/
- Gabelman, J. W., 1956
uranium/ ore deposits/ limestone/ Colorado Plateau/
Gypsum Valley area/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/ Wanakah
Formation/
- Gabelman, J. W., 1956
uranium/ ore deposits/ limestone/ Colorado Plateau/
Gypsum Valley area/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/ Wanakah
Formation/
- Gott, G. B., Wyant, D. G., and Beroni, E. P., 1952
Front Range/ ore deposits/ shale/ black shale/
lignite/ limestone/ organics/ sandstone/ coal/
Leyden coal mine/ Jefferson County/ uranium/
- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ syngenetic processes/
hydrothermal processes/ ground water/ genesis/
Shinarump Member/ Morrison Formation/ sandstone/
conglomerate/ mudstone/ limestone/ Todilto Limestone/
Mesa County/ Montrose County/ Dolores County/
San Miguel County/ Montezuma County/ Chinle
Formation/
- Gruner, J. W., 1954
Colorado Plateau/ ore deposits/ genesis/ mineralogy/
Utah/ Colorado/ sandstone/ siltstone/ conglomerate/
limestone/ uranium/ vanadium/ New Mexico/ geology/
San Miguel County/ Montrose County/ Mesa County/
- Gruner, J. W., and Gardiner, L., 1952
mineral associations/ Shinarump Member/ Todilto
Limestone/ Utah/ New Mexico/ Colorado Plateau/
Salt Wash Member/ Morrison Formation/ Colorado/

LIMESTONE, PHOSPHORITE

- Montrose County/ San Miguel County/ Calamity
Mesa/ Placerville district/ sandstone/ Chinle
Formation/ ore deposits/
- Gruner, J. W., and Smith, D. K., Jr., 1955
Colorado Plateau/ ore deposits/ mineralization/
Utah/ Arizona/ New Mexico/ Horseshoe diatreme/
sandstone/ limestone/ mineralogy/
- Gruner, J. W., Gardiner, L., and Smith, D. K.,
Jr., 1954
Colorado Plateau/ ore deposits/ mineral assemblages/
Calamity Mesa/ Placerville district/ New Mexico/
conglomerate/ Chinle Formation/ Morrison Formation/
sandstone/ limestone/ asphaltite/ thucholite/
Montrose County/ San Miguel County/ Salt Wash
Member/ Dolores Formation/ Shinarump Member/
Todilto Limestone/
- Gruner, J. W., Rosenzweig, A., and Smith, D. K.,
Jr., 1954
Colorado Plateau/ ore deposits/ mineralogy/
uraninite/ coffinite/ vanadium/ uranium/ Colorado/
Utah/ New Mexico/ Todilto Limestone/ limestone/
Morrison Formation/ sandstone/ Entrada Sandstone/
Dolores County/ San Miguel County/ Greysill
mine/ Mesa County/ Montrose County/ San Juan
County/
- Kholodov, V. N., Lisitsin, A. K., Komarova, G.
V., and others, 1961
zoning/ uranium/ mineralogy/ petroliferous carbonate
rocks/ limestone/
- King, R. U., Leonard, B. F., Moore, F. B., and
others, 1952
Front Range/ Boulder County/ Clear Creek County/
Garfield County/ Gilpin County/ Jefferson County/
Larimer County/ Moffat County/ Pitkin County/
pitchblende/ hydrocarbons/ Kiowa County/ Rio
Blanco County/ Routt County/ hot spring deposits/
limestone/ pegmatites/ sandstone/ veins/ breccia
pipes/ igneous-metamorphic/ Park County/ Lake
County/ geology/ mineralogy/ San Miguel County/
ore deposits/ metal-mining districts/ Huerfano
County/ Eagle County/
- King, R. U., Leonard, B. F., Moore, F. B., and
others, 1953
Front Range/ Boulder County/ Clear Creek County/
Garfield County/ Gilpin County/ Jefferson County/
Larimer County/ Moffat County/ Pitkin County/
pitchblende/ hydrocarbons/ hot spring deposits/
limestone/ sandstone/ veins/ breccia pipes/
igneous-metamorphic/ Park County/ Lake County/
geology/ mineralogy/ San Miguel County/ ore
deposits/ metal-mining districts/ Kiowa County/
Rio Blanco County/ Routt County/ Huerfano County/
Eagle County/
- King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/ Boulder County/ Clear Creek County/
Garfield County/ Gilpin County/ Jefferson County/
Kiowa County/ Larimer County/ Moffat County/
Pitkin County/ Rio Blanco County/ Routt County/
ore gullies/ pitchblende/ hydrocarbons/ metal-mining
districts/ ore deposits/ limestone/ sandstone/
veins/ breccia pipes/ Eagle County/ hot spring
deposits/ fluorite/ igneous-metamorphic/

- Lovering, T. G., and Beroni, E. P., 1956
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive ilmonite/ Lucky Break Iron mine/ sandstone/ thorium/ uranium/ spring deposits/ Front Range/ conglomerate/ limestone/ tufa/ analyses/ igneous-metamorphic/ ore deposits/ El Paso County/
- Lovering, T. G., and Beroni, E. P., 1959
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive ilmonite/ Lucky Break Iron mine/ thorium/ uranium/ spring deposits/ Front Range/ sandstone/ conglomerate/ limestone/ tufa/ El Paso County/ igneous-metamorphic/ ore deposits/
- Madsen, J. W., 1954
Paradox Member/ Hermosa Formation/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ limestone/ ore deposits/ uranium/ vanadium/ Pitchfork group of claims/ Gypsum Valley district/ San Miguel County/
- Marrs, L. F., 1970
ore treatment/ ion exchange/ Saguache County/ Pitch mine/ underground leaching/ igneous-metamorphic/ veins/ faults/ sandstone/ limestone/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1955
genesis/ uranium/ ore deposits/ veins/ bituminous substances/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ Montrose County/ San Miguel County/ Mesa County/ igneous-metamorphic/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1955
veins/ bituminous substances/ genesis/ uranium/ ore deposits/ igneous-metamorphic/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ San Miguel County/ Montrose County/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ Colorado/ genesis/ uranium/ ore deposits/ pegmatites/ migmatites/ San Miguel County/ sandstone/ coal/ shale/ Front Range/ Colorado Plateau/ San Juan County/ replacement/ Jefferson County/ Montrose County/ Old Leyden mine/ Mesa County/ Gilpin County/ igneous-metamorphic/ phosphorites/ Clear Creek County/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1952
uranium/ ore deposits/ igneous-metamorphic/ sandstone/ shale/ phosphorites/ Colorado Plateau/ Colorado/ Front Range/
- Miller, D. S., 1959
Colorado Plateau/ ore deposits/ genesis/ isotopes/ absolute age/ Colorado/ sandstone/ limestone/
- Miller, D. S., 1960
Colorado Plateau/ ore deposits/ genesis/ research/ data/ isotopes/ lead/ sulfur/ uranium/ age dating/ Colorado/ sandstone/ limestone/ volcanics/ San Miguel County/ igneous-metamorphic/
- Miller, D. S., 1960
Colorado Plateau/ ore deposits/ genesis/ isotopes/ absolute age/ Colorado/ sandstone/ limestone/ San Miguel County/ uranium/ lead/ sulfur/
- Miller, D. S., and Kulp, J. L., 1963
Colorado Plateau/ Colorado/ uranium/ genesis/ ore deposits/ geochemistry/ age dating/ isotopes/ sandstone/ limestone/ volcanics/ igneous-metamorphic/
- Newman, W. L., 1962
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ sandstone/ mudstone/ limestone/ Uravan district/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/
- Noble, E. A., and Annes, E. C., Jr., 1957
Uinta basin/ ore deposits/ exploration/ Chino Formation/ Curtis Formation/ Morrison Formation/ Mesaverde Group/ Green River Formation/ Uinta Formation/ Moffat County/ Rio Blanco County/ sandstone/ mudstone/ siltstone/ limestone/ shale/ Skull Creek district/ conglomerate/ Weber Sandstone/ Colorado Plateau/
- Olson, J. C., 1977
uranium/ Pitch mine/ Gunnison County/ Saguache County/ Chaffee County/ map/ igneous-metamorphic/ limestone/ shale/ ore deposits/ geology/
- Page, L. R., Stocking, H. E., and Smith, H. B., compilers, 1956
Colorado Plateau/ Front Range/ Gunnison County/ limestone/ Montrose County/ Jefferson County/ arkose/ sandstone/ shale/ geology/ uranium/ thorium/ exploration/ igneous-metamorphic/ San Miguel County/ geochemistry/ mineralogy/ conglomerate/
- Raines, G. L., 1971
Gunnison County/ Saguache County/ sandstone/ limestone/ shale/ igneous-metamorphic/ Sargents area/ geology/ veins/
- Ranspot, H. W., 1958
Indian Creek area/ ore deposits/ geology/ Gunnison County/ Saguache County/ uranium/ shale/ sandstone/ limestone/ igneous-metamorphic/ limestone/ Pitch mine/
- Ranspot, H. W., and Spengler, R. G., 1957
uranium/ ore deposits/ radioactivity/ stratigraphy/ geology/ exploration/ Marshall Pass area/ Gunnison

- County/ Saguache County/ Igneous-metamorphic/ sandstone/ limestone/ Pitch mine/
- Reinhardt, E. V., 1952
Colorado Plateau/ ore deposits/ ore guides/ uranium/ vanadium/ copper/ hydrocarbons/ limestone/ sandstone/ Morrison Formation/ Salt Wash Member/ Entrada Sandstone/ Shinarump Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/
- Stewart, J. H., Poole, F. G., and Wilson, R. F., 1958
stratigraphy/ genesis/ lithologic units/ Triassic/ Colorado Plateau/ shale/ sandstone/ limestone/
- Theobald, P. K., Jr., and Chew, R. T., 3d, 1955
Maybell-Lay area/ Moffat County/ limestone/ sandstone/ stratigraphy/ Browns Park Formation/ geology/ ore deposits/ Colorado/ Wyoming/ Utah/ Miller Hill/ Baggs/ Colorado Plateau/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Eagle County/ reconnaissance/ ore deposits/ sandstone/ limestone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Saguache County/ reconnaissance/ ore deposits/ limestone/ sandstone/ igneous-metamorphic/
- Vargas, F. H., 1961
Fremont County/ sediments/ geology/ sandstone/ limestone/ Cotopaxi Inlier/ Sangre de Cristo Range/
- Vogel, J. D., 1957
Klondike Ridge/ uranium/ vanadium/ copper/ manganese/ Colorado Plateau/ San Miguel County/ Gypsum Valley/ Morrison Formation/ sandstone/ veins/ limestone/
- Vogel, J. D., 1960
geology/ ore deposits/ Klondike Ridge/ uranium/ vanadium/ copper/ manganese/ Colorado Plateau/ San Miguel County/ Gypsum Valley district/ Morrison Formation/ sandstone/ veins/ limestone/
- Walker, G. W., 1956
ore deposits/ host rocks/ alteration/ veins/ sandstone/ igneous-metamorphic/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ dolomite/ Pitkin County/ Larimer County/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/
- Walker, G. W., 1963
alteration/ veins/ igneous-metamorphic/ sandstone/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ Cochetopa district/ ore deposits/ Placerville district/ San Miguel County/ Larimer County/ Central City district/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/
- Weeks, A. D., Lindberg, M., and Mayrowitz, R., 1961
granite/ vanadium/ mineral properties/ mineralogy/ sandstone/ limestone/ Colorado Plateau/ Club Mesa/ Montrose County/ Atkinson Mesa/ Golden Cycle mine/ Morrison Formation/ ore deposits/
- Wilmarth, V. R., 1951
thucholite/ Robinson property/ Placerville district/ Weatherly property/ asphaltite/ hydrocarbons/ pyrobitumens/ base metals/ precious metals/ veins/ fault breccia/ shear zone material/ limestone/ Dolores Formation/ ore deposits/ Colorado Plateau/ San Miguel County/ structure/ Cutler Formation/ sandstone/

SANDSTONE, SILTSTONE

- Abdel-Gawad, A. M., 1960
Colorado Plateau/ ore deposits/ alteration/
sandstone/ Chinle Formation/
- Abdel-Gawad, A. M., and Kerr, P. F., 1959
Chinle Formation/ silicification/ Colorado Plateau/
Colorado/ sandstone/ uranium/
- Abdel-Gawad, A. M., and Kerr, P. F., 1959
Chinle Formation/ silicification/ Colorado Plateau/
Colorado/ sandstone/
- Adler, H. H., 1963
genesis/ sandstone/ ore deposits/ Jefferson
County/ Pueblo County/ Gunnison County/ Moffat
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ Colorado Plateau/ Front Range/
Rio Blanco County/
- Adler, H. H., 1964
uranium/ roll ore/ exploration/ sandstone/ ore
deposits/ Jefferson County/ Pueblo County/ Gunnison
County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
San Miguel County/ Montezuma County/ La Plata
County/ Archuleta County/ Moffat County/ Colorado
Plateau/ Front Range/ Dolores County/
- Adler, H. H., 1974
reducing environments/ sandstone/ sediments/
uranium/ ore deposits/ formations/
- Adler, H. H., and Sharp, B. J., 1967
ore rolls/ uranium/ occurrence/ genesis/ chemical
characteristics/ Utah/ sandstone/ New Mexico/
Colorado Plateau/ Entrada Sandstone/ physical
characteristics/ Morrison Formation/
- Albee, H. F., 1956
sandstone/ pebbles/ size/ Shinarump Member/
Moss Back Member/ Chinle Formation/ conglomerate/
Colorado Plateau/
- Alfen, M. A., and Butler, G. M., 1921
Colorado/ Utah/ Arizona/ vanadium/ Placerville
district/ San Miguel County/ sandstone/ Eagle
County/ carnotite/ uranium/ Paradox Valley/
production/ uses/ ore treatment/ geology/ Colorado
Plateau/
- Alvord, D. C., 1953
Colorado Plateau/ reserves/ ore deposits/ sandstone/
Montrose County/ Morrison Formation/ uranium/
vanadium/ San Miguel Bench/
- Alvord, D. C., 1953
Colorado Plateau/ reserves/ ore deposits/ sandstone/
San Miguel Bench/ Montrose County/ uranium/
vanadium/ Morrison Formation/
- Alvord, D. C., 1953
Spring Creek Mesa/ Colorado Plateau/ reserves/
exploration/ sandstone/ ore deposits/ uranium/
vanadium/ Montrose County/ Morrison Formation/
Salt Wash Member/ San Miguel Bench/
- Alvord, D. C., 1955
Montrose County/ San Miguel Bench/ exploration
guides/ minerals/ carnotite/ sandstone/ Salt
Wash Member/ Morrison Formation/ Colorado Plateau/
ore deposits/ ore guides/ geology/ uranium/
vanadium/ drilling/ reserves/ resources/
- Anonymous, 1904
radium/ Colorado Plateau/ sandstone/
- Anonymous, 1908
Colorado Plateau/ Colorado/ carnotite/ sandstone/
- Anonymous, 1913
carnotite/ pitchblende/ radium/ Gilpin County/
Quartz Hill/ Meeker/ Skull Creek/ Utah/ Colorado/
Moffat County/ Paradox Valley/ Colorado Plateau/
uranium/ sandstone/ igneous-metamorphic/ Rio
Blanco County/ Front Range/ San Miguel County/
- Anonymous, 1913
carnotite/ Long Park/ Montrose County/ Colorado
Plateau/ Huerfano County/ sandstone/ San Juan
region/
- Anonymous, 1913
radium/ uranium/ vanadium/ economics/ business/
carnotite/ Colorado Plateau/ sandstone/
- Anonymous, 1914
politics/ economics/ radium/ Colorado Plateau/
sandstone/
- Anonymous, 1950
McElmo Canyon/ sandstone/ Montezuma County/
Colorado Plateau/ ore deposits/
- Anonymous, 1950
South Park/ Park County/ sandstone/
- Anonymous, 1950
San Miguel County/ sandstone/ Colorado Plateau/
mines/ uranium/
- Anonymous, 1950
Rifle plant/ milling/ Garfield County/ Colorado
Plateau/ ores/ sandstone/ vanadium/
- Anonymous, 1950
Colorado Plateau/ refining/ San Miguel County/
Mesa County/ sandstone/
- Anonymous, 1951
Colorado Plateau/ Grand County/ sandstone/ bonus
payments/ uranium/ mines/
- Anonymous, 1951
Colorado Plateau/ San Miguel County/ Montrose
County/ Mesa County/ vanadium/ sandstone/
- Anonymous, 1951
Colorado/ Utah/ processing/ sandstone/ San Miguel
County/ Colorado Plateau/
- Anonymous, 1952
Colorado Plateau/ Uruan belt/ sandstone/ mill/
exploration/ Mesa County/ San Miguel County/
Dolores County/

- Archbold, N. L., 1955
lithology/ vanadium/ uranium/ ore deposits/
Morrison Formation/ Salt Wash Member/ Colorado
Plateau/ sandstone/ analyses/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ calcium
carbonate/
- Archbold, N. L., 1955
vanadium/ uranium/ sandstone/ mudstone/ calcium
carbonate/ Morrison Formation/ Salt Wash Member
ore deposits/ geochemistry/ lithology/ Colorado
Plateau/
- Archbold, N. L., 1956
uranium/ vanadium/ Colorado Plateau/ Salt Wash
Member/ Morrison Formation/ sandstone/ Mesa
County/ Montrose County/ Dolores County/ Montezuma
County/ ore deposits/ lithology/ San Miguel
County/
- Archbold, N. L., 1958
carbonate cement/ lithology/ vanadium/uranium/
sandstone/ Morrison Formation/ Colorado Plateau/
Salt Wash Member/ Slick Rock district/ Uravan/
geochemistry/ ore deposits/ weathering/ alteration/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ Cougar mine/ Golden Cycle mine/
Virgin mine/ Upper Group/
- Archbold, N. L., 1959
carbonate cement/ lithology/ vanadium/ uranium/
sandstone/ Morrison Formation/ Colorado Plateau/
Salt Wash Member/ Slick Rock district/ Uravan/
geochemistry/ ore deposits/ weathering/ alteration/
Mesa County/ Montrose County/ Dolores County/
Cougar mine/ Golden Cycle mine/ Virgin mine/
Upper group/
- Argall, G. O., Jr., 1943
vanadium ores/ carnotite/ occurrences/ production/
Colorado/ Colorado Plateau/ sandstone/
- Bachman, G. O., and Read, C. B., 1952
New Mexico/ reconnaissance/ Huerfano County/
sandstone/ volcanics/ igneous-metamorphic/ shale/
Colorado/
- Bachmann, H. G., 1957
Colorado Plateau/ vanadium/ mineralogy/ crystal
chemistry/ Colorado/ sandstone/ calcium-sodium
vanadates/
- Bain, G. W., 1950
genesis/ ore deposits/ fisslonable materials/
geochemistry/ geology/ sandstone/ Colorado Plateau/
- Bain, G. W., 1952
Colorado Plateau/ southwest/ ore deposits/ evaluation/
sandstone/ Shinarump Member/ Arizona/ Utah/
conglomerate/ uranium/ vanadium/ mines/ prospects/
Chinle Formation/
- Bain, G. W., 1952
Colorado Plateau/ geologic history/ uranium/
ore deposits/ sandstone/
- Bain, G. W., 1953
Colorado Plateau/ ore deposits/ sediments/ sandstone/
stratigraphy/ Dakota Group/ Morrison Formation/
structure/ topography/ geologic history/ Mesa
County/ Montrose County/ San Miguel County/
geology/ Montezuma County/ reconnaissance/ Colorado
Plateau/ Dolores County/
- Bain, G. W., 1953
Colorado Plateau/ ore deposits/ observations/
sedimentation/ Shinarump Member/ carnotite/
Morrison Formation/ tectonic structure/ sandstone/
fluvial sediments/ simulation/ precipitation/
Mesa County/ Montrose County/ San Miguel County/
Montezuma County/ conglomerate/ Chinle Formation/
Dolores County/ experimental studies/ Salt Wash
Member/
- Bain, G. W., 1957
Colorado Plateau/ ore deposits/ organic ores/
genesis/ Colorado/ general/ Mesa County/ Delta
County/ sandstone/ Montrose County/ San Miguel
County/ Dolores County/ Archuleta County/ Garfield
County/ La Plata County/
- Bain, G. W., Eastman, H. P., Ruckmick, J. C., and
others, 1953
Colorado Plateau/ ore deposits/ experimental
studies/ sandstone/ fluvial sediments/ field
observations/ heavy minerals/ Shinarump Member/
Morrison Formation/ Dakota Sandstone/ geology/
sedimentation/ ground water/ stratigraphy/ Mesa
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ Chinle Formation/
- Baker, A. A., Dane, C. H., and Reeside, J. B.,
Jr., 1936
Colorado/ Utah/ Arizona/ New Mexico/ Jurassic
formations/ correlation/ Morrison Formation/
sandstone/Colorado Plateau/
- Baker, A. A., Dane, C. H., and Reeside, J. B.,
Jr., 1947
Colorado/ Arizona/ New Mexico/ Utah/ Jurassic
formations/ correlation/ Morrison Formation/
sandstone/ Montezuma County/ La Plata County/
Archuleta County/ Colorado Plateau/
- Ball, M. M., 1954
Colorado Plateau/ ore deposits/ carnotite/ sedimentary
occurrence/ sandstone/
- Baltz, E. H., Jr., 1953
Colorado/ New Mexico/ ore deposits/ exploration/
occurrence/ carbonaceous rocks/ Paradox Formation/
San Miguel County/ shale/ sandstone/ siltstone/
coal/ Archuleta County/ La Plata County/ Montezuma
County/ tuff/ igneous-metamorphic/ Colorado
Plateau/ Bald Eagle prospect/
- Baltz, E. H., Jr., 1954
Colorado/ New Mexico/ ore deposits/ exploration/
Archuleta County/ Huerfano County/ radioactive
deposits/ carbonaceous shale/ sandstone/ copper/
limestone/ Sangre de Cristo Formation/ Wanakah
Formation/ tuff/ Wet Mountains/ Mesaverde Formation/
- Baltz, E. H., Jr., 1954
Colorado/ New Mexico/ ore deposits/ carbonaceous
rocks/ shale/ siltstone/ Hermosa Formation/

- San Miguel County/ Bald Eagle prospect/ Colorado Plateau/
- Baltz, E. H., Jr., 1955
Colorado/ New Mexico/ ore deposits/ exploration/ carbonaceous rocks/ sandstone/ Mesa County/ Delta County/ Montrose County/ Gunnison County/ Ouray County/ San Miguel County/ Hinsdale County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ coal/ shale/ reconnaissance/ Colorado Plateau/
- Baltz, E. H., Jr., 1955
Colorado/ New Mexico/ Huerfano Park/ Spanish Peaks/ ore deposits/ exploration/ Huerfano County/ sandstone/ volcanic/ Igneous-metamorphic/
- Baltz, E. H., Jr., 1957
stratigraphy/ structure/ salt/ salt anticlines/ Colorado/ Utah/ Hermosa Formation/ Colorado Plateau/ evaporites/ general/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ sandstone/ Paradox Basin/
- Barge, E. M., 1953
limestone/ sandstone/ Colorado Plateau/ Hermosa Formation/ reserves/ exploration/ drilling/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Early Morn group/ Gypsum Valley district/ San Miguel County/
- Barge, E. M., 1953
Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Tiny claim/ Gypsum Valley district/ San Miguel County/ Morrison Formation/
- Barge, E. M., 1953
Colorado Plateau/ drilling/ ore deposits/ reserves/ exploration/ Gypsum Valley district/ Sunset claim/ San Miguel County/ sandstone/ Morrison Formation/ carnotite/ uranium/ vanadium/ Early Morn group/ limestone/ Salt Wash Member/
- Barton, P. B., Jr., 1957
carnotite/ synthesis/ properties/ alkali analogues/ experimental/ Colorado Plateau/ sandstone/
- Bates, R. C., 1959
Colorado Plateau/ ore deposits/ resources/ exploration/ statistical analysis/ uranium/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Morrison Formation/ sandstone/
- Bell, Henry, 3d, 1950
minerals/ carnotite/ Colorado Plateau/ ore deposits/ geology/ San Miguel County/ Legln group area/ exploration/ drilling/ ore production/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/
- Bell, Henry, 3d, 1950
uranium/ vanadium/ carnotite/ geology/ reserves/ ore deposits/ Colorado Plateau/ San Miguel County/ exploration/ Cougar claim/ Helen claim/ Last Chance claim/ Lower group/ Rainbow claim/ Cougar
- mine/ ore production/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/
- Bell, Henry, 3d, 1951
Colorado Plateau/ ore deposits/ reserves/ sandstone/ San Miguel County/ drilling/ exploration/ carnotite/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ Legln group area/
- Bell, Henry, 3d, 1951
drilling/ exploration/ Legln group area/ San Miguel County/ ore deposits/ sandstone/ Colorado Plateau/ geology/ reserves/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Bell, Henry, 3d, 1951
reserves/ Legln group/ San Miguel County/ sandstone/ Colorado Plateau/ ore deposits/ uranium/ vanadium/ Morrison Formation/
- Bell, Henry, 3d, 1951
reserves/ Legln group/ San Miguel County/ sandstone/ Colorado Plateau/ ore deposits/ uranium/ vanadium/ Morrison Formation/
- Bell, Henry, 3d, 1952
ore deposits/ Egnar district/ San Miguel County/ minerals/ exploratory drilling/ carnotite/ U.S. Vanadium Co. property/ Vanadium Corp. of America property/ Morrison Formation/ geology/ Colorado Plateau/ uranium/ vanadium/ sandstone/ Salt Wash Member/ Spud Patch area/
- Bell, Henry, 3d, 1952
Colorado Plateau/ ore deposits/ ore guides/ Uravan/ geology/ San Miguel County/ exploration/ drilling/ minerals, carnotite/ Legln group/ uranium/ ore production/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/
- Bell, Henry, 3d, 1953
ore deposits/ Colorado Plateau/ geology/ ore guides/ San Miguel County/ minerals/ carnotite/ Vanadium Corp. of America property/ uranium/ vanadium/ Spud Patch area/ ore production/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/ U.S. Vanadium Co. property/
- Bell, Henry, 3d, and Cramer, M. A., 1951
Colorado Plateau/ ore deposits/ reserves/ sandstone/ Legln group area/ San Miguel County/ Morrison Formation/ Salt Wash Member/
- Bell, Henry, 3d, and Cramer, M. A., 1951
reserves/ Legln group area/ San Miguel County/ sandstone/ Colorado Plateau/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Bell, Henry, 3d, and Cramer, M. A., 1952
Colorado Plateau/ sandstone/ ore deposits/ reserves/ Spud Patch area/ San Miguel County/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Bell, Henry, 3d, and Icke, H. M., 1950
minerals/ carnotite/ Colorado Plateau/ geology/ San Miguel County/ Spud Patch area/ exploration/ drilling/ ore production/ sandstone/ Morrison Formation/ Salt Wash Member/ reserves/ uranium/ vanadium/ ore deposits/

- Bell, K. G., 1949
analyses/ carnotite/ uranium/ stratigraphic correlation/ gamma-ray logging/ drilling/ Colorado Plateau/ sandstone/ Morrison Formation/ ore deposits/
- Bell, K. G., 1954
uranium/ thorium/ sedimentary rocks/ sandstone/ geology/ genesis/ placers/ stream deposits/ mudstone/ Chinle Formation/ Morrison Formation/ shale/ black shale/ carnotite/ uraninite/ Colorado Plateau/
- Bell, K. G., and Rogers, A. S., 1950
Mesa County/ Calamity Mesa area/ gamma-ray logging/ Maverick claims/ Morrison Formation/ sandstone/ drilling/ stratigraphic correlation/ leaching/ ore deposits/ reserves/ geophysics/ "Barnaby" logs/ Schlumberger logs/ carnotite/ Colorado Plateau/ Calamity claims/
- Benicke, A., 1911
ore deposits/ occurrence/ vanadium/ sandstone/ uranium/ Colorado/ Colorado Plateau/ sandstone/
- Bergin, M. J., 1955
Colorado/ Wyoming/ Maybell-Lay area/ ore deposits/ sandstone/ Washakie Basin/ Moffat County/ Gertrude claims/ Margle claims/ conglomerate/ uranium/ Browns Park Formation/
- Bergin, M. J., 1956
Maybell-Lay area/ ore deposits/ Moffat County/ veins/ sandstone/ Margle claims/ Gertrude claims/ Wasatch Formation/ uranium/ Browns Park Formation/
- Bergin, M. J., 1957
Maybell-Lay area/ ore deposits/ Moffat County/ veins/ sandstone/ stratigraphy/ structure/ uranium/ Gertrude mine/ Margle mine/ minerals/ Sugarloaf mine/ conglomerate/ Wasatch Formation/ coal/ sources/ Browns Park Formation/
- Bergin, M. J., and Chisholm, W. A., 1956
Maybell-Lay area/ ore deposits/ Moffat County/ veins/ Browns Park Formation/ sandstone/ stratigraphy/ Gertrude mine/ Margle mine/ minerals/ structure/ uranium/ Sugarloaf mine/ conglomerate/ Wasatch Formation/ coal/ sources/ petrographic studies/ springs/ water/ wells/ streams/ ground water/ hot springs/
- Berglof, W. R., 1970
Colorado Plateau/ absolute age/ ore deposits/ age estimation/ Colorado/ isotope dating/ lead/ New Mexico/ uranium/ uranium-235/ uranium-238/ Utah/ Morrison Formation/ Chinle Formation/ Todilto Limestone/ sandstone/
- Berglof, W. R., 1973
Colorado Plateau/ absolute age/ ore deposits/ Utah/ age estimation/ Colorado/ isotope dating/ lead/ New Mexico/ uranium/ uranium-235/ uranium-238/ Morrison Formation/ Chinle Formation/ Todilto Limestone/ sandstone/
- Beroni, E. P., and King, R. U., 1950
Front Range/ minerals/ carnotite/ Mike Doyle mine/ continental carbonaceous shale/ Morrison Formation/ El Paso County/ geology/ ore deposits/ sandstone/
- Beroni, E. P., and King, R. U., 1952
Colorado Springs/ Mike Doyle mine/ ore deposits/ carnotite/ El Paso County/ sandstone/ Front Range/ carbonaceous shale/ Morrison Formation/ geology/
- Beroni, E. P., and McKeown, F. A., 1952
geology/ sandstone/ reconnaissance/ marine black shales/ Entrada Sandstone/ Curtis Formation/ igneous-metamorphic/ Skull Creek district/ Bozo claims/ Fair-U claim/ Lucky Strike claims/ Grand County/ Moffat County/ Routt County/ coal/ copper/ uranium/ limestone/ phosphates/ carnotite/ uraninite/ spring deposits/ migmatite/ granite/ Colorado/ Wyoming/ Utah/
- Bethke, P. M., 1953
uranyl salts/ Colorado Plateau/ simulation/ precipitation/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ ground water/ Morrison Formation/ Salt Wash Member/ uraninite/ carnotite/
- Bieber, P. P., 1954
Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Long Park/ Montrose County/
- Bieber, P. P., and Bowers, H. E., 1954
Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Long Park area/ Montrose County/
- Bieniewski, C. L., Persse, F. H., and Brauch, E. F., 1971
Colorado Plateau/ Rifle district/ Front Range/ Garfield County/ Clear Creek County/ Jefferson County/ Boulder County/ resources/ price/ cost analysis/ sandstone/ igneous-metamorphic/ Marshall Pass/
- Black, R. A., 1953
Colorado Plateau/ geophysics/ mining districts/ logging/ Spud Patch area/ San Miguel County/ sandstone/ Long Park area/ Montrose County/ Morrison Formation/ ore deposits/
- Black, R. A., 1953
Colorado Plateau/ ore deposits/ exploration/ geophysics/ methods/ uranium/ sandstone/
- Black, R. A., 1953
Colorado Plateau/ reserves/ geophysics/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Gramlich group/ Paradox district/ Montrose County/
- Black, R. A., 1954
geophysics/ mining districts/ logging/ Monogram Mesa/ Arizona/ Utah/ Peanut Group/ Bull Canyon/ Morrison Formation/ sandstone/ Mesa County/ Colorado/ Colorado Plateau/ ore deposits/
- Black, R. A., 1954
Colorado Plateau/ geophysics/ mining districts/

- Long Park area/ Montrose County/ electrical logging/ ore deposits/ sandstone/
- Black, R. A., 1956
Colorado/ Utah/ Wyoming/ ore deposits/ exploration/ uranium/ geophysics/ Maybell district/ Browns Park Formation/ sandstone/ Moffat County/ geology/
- Black, R. A., 1956
Colorado Plateau/ geophysics/ exploration/ Colorado/ electrical logging/ seismic logging/ gravity surveys/ sandstone/ ore deposits/
- Black, R. A., 1956
Colorado Plateau/ geophysics/ exploration/ Colorado/ electrical logging/ seismic logging/ gravity surveys/ sandstone/ ore deposits/
- Black, R. A., and Davis, W. E., 1953
Colorado Plateau/ geophysical investigations/ ore deposits/ uranium/ geophysics/ exploration/ sandstone/
- Blackman, D. H., 1950
Colorado Plateau/ ore guides/ sandstone/ uranium/ ore deposits/ Mesa County/ minerals/ carnotite/ Calamity claims/
- Blackman, D. H., 1950
Colorado Plateau/ sandstone/ uranium/ ore deposits/ ore guides/ carnotite/
- Blackman, D. H., 1950
Colorado Plateau/ ore deposits/ carnotite/ exploration/ ore guides/ sandstone/ geology/
- Blackman, D. H., 1951
Calamity Mesa/ exploration/ drilling/ Calamity claims/ sandstone/ Morrison Formation/ Colorado Plateau/ ore guides/ uranium/ Mesa County/ geology/ vanadium/ ore deposits/ carnotite/ carbonaceous materials/
- Boardman, R. L., 1954
Guadalcanal mine/ Colorado Plateau/ reserves/ exploration/ ore deposits/ sandstone/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Long Park area/ Montrose County/
- Boardman, R. L., 1954
King Solomon #5 claim/ U.S. Vanadium Co. property/ reserves/ Golden Cycle mine/ Colorado Plateau/ exploration/ sandstone/ ore deposits/ uranium/ Morrison Formation/ vanadium/ Salt Wash Member/ Atkinson Mesa/ Dolores Bench/ Montrose County/
- Boardman, R. L., 1955
Uravan district/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ exploration/ drilling/ Montrose County/ uranium/ vanadium/ Colorado Plateau/ ore deposits/
- Boardman, R. L., 1955
Uravan district/ Montrose County/ sandstone/ Club Mesa/ Long Park/ drilling/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ uranium/ vanadium/
- Boardman, R. L., 1955
Long Park/ Third Park/ Second Park Bench/ Uravan district/ Montrose County/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Boardman, R. L., Bowers, H. E., Litsey, L. R., and others, 1955
Colorado Plateau/ drilling/ Third Park/ Second Park Bench/ exploration/ uranium/ vanadium/ ore deposits/ Long Park/ Uravan district/ Montrose County/ sandstone/ geology/ stratigraphy/ Morrison Formation/ Salt Wash Member/ structure/ mineralogy/ ore guides/ reserves/ uraninite/ coffinite/ carnotite/
- Boardman, R. L., Ekren, E. B., and Bowers, H. E., 1956
sedimentary features/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ ore deposits/ Uravan district/ Montrose County/ Colorado Plateau/ geology/ Jurassic/
- Boardman, R. L., Litsey, L. R., and Bowers, H. E., 1957
Montrose County/ Club Mesa area/ Uravan district/ vanadium/ exploration/ sandstone/ Morrison Formation/ La Salle mine/ Salt Wash Member/ Club group mines/ Tramp No. 2 mine/ uranium/ Bunker mines/ ore deposits/ Colorado Plateau/
- Boardman, R. L., Litsey, L. R., and Bowers, H. E., 1958
Montrose County/ Club Mesa area/ Uravan district/ uranium/ vanadium/ exploration/ Morrison Formation/ La Salle mine/ Salt Wash Member/ sandstone/ Club group mines/ Tramp No. 2 mine/ Bunker mines/ ore deposits/ Colorado Plateau/
- Botinelly, Theodore, 1955
Peanut mine/ J. J. mine/ Jo Dandy group/ uranium/ vanadium/ geology/ mineralogy/ Montrose County/ sandstone/ carnotite/ Colorado Plateau/ Bull Canyon district/ ore deposits/ Morrison Formation/ Salt Wash Member/
- Botinelly, Theodore, 1955
J. J. mine/ Jo Dandy group/ Bull Canyon district/ geology/ mineralogy/ Montrose County/ sandstone/ carnotite/ uranium/ vanadium/ ore deposits/ Rifle mine/ Garfield County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/

- Botinelly, Theodore, 1956
Colorado Plateau/ ore deposits/ Jurassic/ Salt Wash Member/ Morrison Formation/ sandstone/ Montrose County/ geology/ mineralogy/ carnotite/ uranium/ uraninite/ vanadium/
- Botinelly, Theodore, and Fischer, R. P., 1955
Garfield County/ mineralogy/ petrology/ geochemistry/ Garfield mine/ Colorado Plateau/ galena/ Rifle mine/ minerals/ clauthalite/ montrosite/ roscoelite/ sandstone/ geology/ uranium/ vanadium/ Entrada Sandstone/ Wingate Sandstone/ ore deposits/ stratigraphy/ structure/ chromium/
- Botinelly, Theodore, and Fischer, R. P., 1959
mineralogy/ geology/ Rifle mine/ Garfield mine/ sandstone/ uranium/ vanadium/ Entrada Sandstone/ Chinle Formation/ ore deposits/ stratigraphy/ structure/ chromium/ petrology/ geochemistry/ galena/ minerals/ Garfield County/ clauthalite/ montrosite/ roscoelite/
- Botinelly, Theodore, and Weeks, A. D., 1954
Jo Dandy area/ Montrose County/ sandstone/ mineralogic/ clays/ Peanut mine/ Colorado Plateau/
- Botinelly, Theodore, and Weeks, A. D., 1954
mineralogy/ ore deposits/ minerals/ Colorado Plateau/ sandstone/ Montrose County/ Jo Dandy area/ Rifle mine/ Garfield County/ clay minerals/
- Botinelly, Theodore, and Weeks, A. D., 1957
sandstone/ uranium/ vanadium/ Colorado Plateau/ Mesa County/ Montrose County/ minerals/ Dolores County/ San Miguel County/ ore deposits/ mineralogic classification/
- Botinelly, Theodore, and Weeks, A. D., 1957
Colorado Plateau/ mineralogic classification/ uranium/ vanadium/ composition/ oxidation/ mineralogy/ sandstone/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/
- Botinelly, Theodore, Weeks, A. D., and Johnson, D. H., 1953
Colorado Plateau/ South Dakota/ Wyoming/ mineralogy/ petrology/ ore deposits/ vanadium/ Uravan/ Montrose County/ sandstone/ Long Park/ La Salle Creek/ Mesa County/ Utah/ Arizona/ uranium/
- Boudette, E. L., 1956
Colorado Plateau/ aerial photographs/ regional fracture pattern/ sandstone/
- Boutwell, J. M., 1904
Colorado/ Utah/ ore deposits/ vanadium/ uranium/ Colorado Plateau/ sandstone/
- Bowers, H. E., 1954
Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ Morrison Formation/ Salt Wash Member/ Long Park area/ vanadium/ Montrose County/
- Bowers, H. E., 1955
Montrose County/ Long Park area/ exploration/ drilling/ uranium/ reserves/ resources/ sandstone/ vanadium/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/
- Bowers, H. E., 1955
Guadalcanal claims/ Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Long Park area/ Montrose County/
- Bowers, H. E., and Shawe, D. R., 1961
Slick Rock district/ Disappointment Valley/ ore deposits/ exploration/ heavy minerals/ uranium/ vanadium/ sandstone/ Morrison Formation/ San Miguel County/ Salt Wash Member/ Dolores County/ ore guides/ Colorado Plateau/
- Bowie, S. H. U., 1970
Canada/ Ontario/ Blind River/ Colorado Plateau/ ore deposits/ genesis/ reserves/ sedimentary rocks/ sandstone/ conglomerate/ metamorphic rocks/ exploration/ igneous-metamorphic/ geology/ uranium provinces/
- Bowie, S. H. U., 1970
South Africa/ ore deposits/ occurrences/ sedimentary rocks/ genesis/ absolute age/ dates/ applications/ exploration/ Colorado/ sandstone/
- Boyer, R. E., 1961
Badito Cone/ zirconium/ phonolite/ Huerfano County/ Dakota Sandstone/ Morrison Formation/ Stumbling Stud claims/ Wet Mountains/ Pueblo County/ sandstone/ fluorite/ thorium/ uranium/ cement/ rhyolite/ igneous-metamorphic/
- Boyer, W. H., 1956
ore deposits/ sandstone/ stratigraphy/ Colorado Plateau/ vanadium/ mineralization/ exploration/ White River Plateau/ Rio Blanco County/ conglomerate/ siltstone/ mudstone/ Garfield County/ reconnaissance/ geology/ Morrison Formation/ Chinle Formation/ Burrell mines/ Last Day mine/ Coal Creek mine/ Uranium Peak/ Coal Creek anticline/ Sleepy Cat area/
- Bradley, W. H., 1945
Colorado/ Wyoming/ Moffat County/ sections/ sandstone/ Green River Formation/ Wasatch Formation/ stratigraphy/ structure/ oil/ gas/ Washakie basin/ Colorado Plateau/ Browns Park Formation/
- Bradley, W. H., 1950
uranium/ Colorado Plateau/ sandstone/ occurrences/ San Miguel County/ Montrose County/ Mesa County/ ore deposits/
- Brady, F. W., 1911
vanadium/ occurrences/ properties/ metallurgy/ Colorado Plateau/ sandstone/
- Brasher, G. K., 1951
Colorado Plateau/ ore deposits/ reserves/ sandstone/ Mesa County/ uranium/ vanadium/ Morrison Formation/ Outlaw Mesa/
- Brasher, G. K., 1952
Colorado Plateau/ ore deposits/ geology/ Mesa County/ exploration/ drilling/ minerals/ carnotite/ production/ Outlaw Mesa/ uranium/ vanadium/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/

- Brasher, G. K., and Douglas, R. F., 1952
Colorado Plateau/ Gramlich group/ Paradox district/
drilling/ exploration/ sandstone/ ore deposits/
reserves/ Montrose County/ Morrison Formation/
Salt Wash Member/ uranium/ vanadium/
- Brasher, G. K., and Jobin, D. A., 1951
reserves/ resources/ Colorado Plateau/ sandstone/
Outlaw Mesa/ Morrison Formation/ ore deposits/
drilling/ exploration/ uranium/ vanadium/ Salt
Wash Member/ Mesa County/
- Brasher, G. K., and Jobin, D. A., 1951
Colorado Plateau/ Mesa County/ reserves/ resources/
Outlaw Mesa/ sandstone/ ore deposits/ Salt Wash
Member/ uranium/ vanadium/ Morrison Formation/
- Brasher, G. K., and Jobin, D. A., 1951
Outlaw Mesa area/ Mesa County/ reserves/ resources/
Mineral Channel claims/ Colorado Plateau/ ore
deposits/ sandstone/ uranium/ vanadium/ Salt
Wash Member/ Morrison Formation/
- Breger, I. A., 1956
fossil wood/ coalification/ ore deposits/ Colorado
Plateau/ geochemistry/ organic/ uranium/ sandstone/
conglomeratic sandstone/ conglomerate/
- Breger, I. A., 1956
coalified wood/ uranium/ ore deposits/ Colorado
Plateau/ ash/ analyses/ geochemistry/ sandstone/
Morrison Formation/ Chinle Formation/ lignite/
- Breger, I. A., 1956
Colorado Plateau/ sandstone/ fossil plant debris/
uranium/
- Breger, I. A., 1957
organic geochemistry/ coal/ uranium/ Colorado
Plateau/ sandstone/ Wyoming/ Colorado/ New Mexico/
Utah/ peat/
- Breger, I. A., 1957
uranium/ carbonaceous materials/ sedimentary
rocks/ coal/ South Dakota/ Wyoming/ Colorado
Plateau/ Colorado/ sandstone/ New Mexico/ crude
oil/ asphaltite/ organic geochemistry/
- Breger, I. A., 1958
Colorado Plateau/ ore deposits/ exploration/
sandstone/ coalified logs/ organic materials/
fossil wood/ petroleum/ uranium/ geochemistry/
analyses/ sulfur/
- Breger, I. A., 1961
Colorado Plateau/ coal/ uranium/ carbonaceous
material/ vanadium/ sandstone/ coalified wood/
- Breger, I. A., 1974
uranium/ ore deposits/ geochemistry/ organic
compounds/ coal/ sandstone/ Colorado/ Colorado
Plateau/
- Breger, I. A., and Chandler, J. C., 1959
humic substances/ coal/ geochemistry/ geothermometry/
Colorado Plateau/ sediments/ sandstone/ analyses/
Colorado/ coalified logs/ Morrison Formation/
Montrose County/
- Breger, I. A., and Chandler, J. C., 1960
geochemistry/ humic substances/ coal/ coalified
logs/ Colorado/ Colorado Plateau/ Montrose County/
Morrison Formation/ analyses/ geothermometry/
sandstone/
- Breger, I. A., and Deul, Maurice, 1952
geochemistry/ mineralogy/ lignites/ uranium/
Leyden mine/ South Dakota/ coal/ chemistry/
Jefferson County/ sandstone/ Texas/ extraction/
Front Range/ Colorado/ Laramie Formation/
- Breger, I. A., and Deul, Maurice, 1953
Colorado Plateau/ ore deposits/ lignite/ coal/
uranium/ Colorado/ Wyoming/ South Dakota/ retorts/
asphaltite/ sandstone/
- Breger, I. A., and Deul, Maurice, 1955
Colorado Plateau/ uranium/ carbonaceous materials/
sandstone/ shale/ coalified wood/ asphaltites/
Utah/ New Mexico/ Colorado/ crude oil/
- Breger, I. A., and Deul, Maurice, 1955
carbonaceous rocks/ ore deposits/ Colorado Plateau/
geochemistry/ Temple Mountain/ Utah/ comparisons/
ash/ sandstone/ coal/
- Breger, I. A., and Deul, Maurice, 1956
organic materials/ ore deposits/ Colorado Plateau/
geochemistry/ Colorado/ coalified wood/ sandstone/
Black King mine/ Placerville district/ San Miguel
County/ Utah/ Arizona/ carbonaceous rocks/
- Breger, I. A., and Deul, Maurice, 1956
bituminous substances/ uranium/ coal/ San Miguel
County/ Colorado Plateau/ oil/ organics/ geochemistry/
sandstone/
- Breger, I. A., and Deul, Maurice, 1956
bituminous substances/ uranium/ coal/ San Miguel
County/ geochemistry/ Colorado Plateau/ oil/
organics/ sandstone/
- Breger, I. A., and Moore, R. T., 1955
El Paso County/ Montrose County/ Virgin mine/
coal/ uraninite/ uranyl ion/ geochemistry/ reduction/
Colorado Plateau/ Front Range/ sandstone/ carbonaceous
substances/
- Breger, I. A., and Schopf, J. M., 1956
geochemistry/ coal/ Colorado Plateau/ petrography/
analyses/ Colorado/ Morrison Formation/ sandstone/
coalified wood/
- Brew, D. A., 1953
drilling/ exploration/ Colorado Plateau/ ore
deposits/ American Eagle group/ Gypsum Valley
district/ Montrose County/ sandstone/ Morrison
Formation/ reserves/ Salt Wash Member/ Mary
Jane claims/ uranium/ vanadium/
- Brew, D. A., 1953
Colorado Plateau/ reserves/ ore deposits/ sandstone/
Atkinson Mesa/ Montrose County/ Morrison Formation/
uranium/ vanadium/
- Brew, D. A., 1953
U.S. Vanadium Co. property/ Colorado Plateau/
sandstone/ ore deposits/ reserves/ Atkinson

- Mesa area/ Montrose County/ exploration/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Brew, D. A., 1954
exploration/ ore deposits/ Colorado Plateau/ ore guides/ Montrose County/ Atkinson Mesa area/ minerals/ carnotite/ coffinite/ corvusite/ montrosite/ sandstone/ vanadium/ Morrison Formation/ Salt Wash Member/ drilling/ uranium/
- Broding, R. A., and Rummerfeld, B. F., 1956
Colorado Plateau/ exploration/ techniques/ uranium/ methods/ ore deposits/ petroleum/ geophysics/ logging/ sandstone/
- Broding, R. A., and Rummerfeld, B. F., 1956
Colorado Plateau/ ore deposits/ exploration/ Utah/ uranium/ petroleum/ sandstone/ logging/ geophysics/ techniques/
- Bromfield, C. S., 1967
San Miguel County/ Dolores County/ Mount Wilson quadrangle/ San Juan Mountains/ vanadium/ uranium/ Entrada Sandstone/ sandstone/ gold/ silver/ geology/ Colorado Plateau/
- Bromfield, C. S., and Conroy, A. R., 1964
San Miguel County/ Dolores County/ Mount Wilson quadrangle/ vanadium/ San Juan Mountains/ uranium/ Entrada Sandstone/ sandstone/ gold/ silver/ geology/ Colorado Plateau/
- Bromfield, C. S., and Williams, F. E., 1972
resources/ Wilson Mountains Primitive area/ uranium/ San Miguel County/ Dolores County/ vanadium/ sediments/ sandstone/ Colorado Plateau/ geophysics/
- Brooks, R. A., and Campbell, J. A., 1976
elements/ variation/ analyses/ diagenesis/ ore deposits/ tabular uranium deposits/ La Sal mines/ Utah/ Rajah 49 mine/ Uravan district/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ Mesa County/ sandstone/
- Brooks, R. A., and Campbell, J. A., 1976
elements/ variation/ analyses/ diagenesis/ sandstone/ tabular uranium deposit/ La Sal mine/ Utah/ Rajah 49 mine/ ore deposits/ Morrison Formation/ Colorado Plateau/ Uravan district/ Salt Wash Member/ Mesa County/
- Brown, Andrew, 1961
bibliography/ radioactive deposits/ geology/ uranium/ thorium/ mineralogy/ geochemistry/ reconnaissance/ Colorado/ Colorado Plateau/ sandstone/ geobotany/ geophysics/ United States/ veins/ Igneous-metamorphic/ Front Range/ geologic investigations/
- Brown, L. J., 1955
ore deposits/ uranium/ geology/ exploration/ lithology/ Julesburg basin/ reconnaissance/ Logan County/ sandstone/
- Brown, L. J., and Easton, W. W., 1955
ore deposits/ reconnaissance/ airborne/ Huerfano Embayment/ Intrusives/ volcanics/ Las Animas Arch/ La Veta Pass area/ Huerfano County/ Las Animas County/ Otero County/ Costilla County/ Pueblo County/ Crowley County/ Kiowa County/ Bent County/ Prowers County/ Baca County/ sandstone/ shale/ claystone/ igneous-metamorphic/
- Brown, L. J., and Malan, R. C., 1954
ore deposits/ exploration/ Sangre de Cristo/ reconnaissance/ province/ Canyon City embayment/ City Slicker mine/ Igneous-metamorphic/ El Paso County/ Las Animas County/ La Veta Pass/ Alamosa County/ Costilla County/ sandstone/ Fremont County/ Huerfano County/ County/ Pueblo County/ Rio Grande County/ Saguache County/ Teller County/ Dakota Sandstone/ Morrison Formation/ Cripple Creek-Victor district/
- Brown, L. J., and Stehle, F. T., 1956
arkose/ uranium/ ore deposits/ exploration/ aerial prospecting/ reconnaissance/ El Paso County/ Denver basin/ Dawson Arkose/ sandstone/ Arapahoe County/ Elbert County/ Douglas County/
- Brown, L. J., Easton, W. W., and Mallory, N. S., 1955
uranium/ ore deposits/ minerals/ aerial prospecting/ reconnaissance/ geology/ South Park/ Park County/ Garo district/ igneous-metamorphic/ Tertiary/ Precambrian/ trachyte/ granite/ sandstone/
- Bruyn, Kathleen, 1955
Colorado Plateau/ ore deposits/ sandstone/ Dolores County/ history/ San Miguel County/ Montrose County/ Mesa County/
- Bryner, Leonid, 1950
Colorado Plateau/ geology/ ore deposits/ uranium/ vanadium/ Club Mesa area/ minerals/ carnotite/ Uravan district/ Montrose County/ exploration/ drilling/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/
- Bryner, Leonid, 1952
uranium/ vanadium/ geology/ stratigraphy/ ore deposits/ Club Mesa/ Montrose County/ exploration/ drilling/ Colorado Plateau/ carnotite/ Buckshot claim/ Club mines/ Shamrock mines/ Tramp mines/ Morrison Formation/ production/ reserves/ resources/ sandstone/ Salt Wash Member/
- Bryner, Leonid, 1971
Club Mesa area/ drilling/ Montrose County/ map/ Colorado Plateau/ sandstone/ exploration/ reserves/
- Bryner, Leonid, and Cramer, M. A., 1951
Colorado Plateau/ ore deposits/ sandstone/ reserves/ Montrose County/ Club Mesa area/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Bryner, Leonid, and Cramer, M. A., 1952
Club Mesa area/ Montrose County/ Tramp mine/ uranium/ Colorado Plateau/ ore deposits/ reserves/ sandstone/ vanadium/ Morrison Formation/ Salt Wash Member/
- Bryner, Leonid, and Cramer, M. A., 1952
Colorado Plateau/ ore deposits/ reserves/ sandstone/ Club Mesa area/ Montrose County/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/

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Bryner, Leonid, and Douglas, R. F., 1952
Colorado Plateau/ Club Mesa area/ Montrose County/
ore deposits/ exploration/ sandstone/ geology/
reserves/ carnotite/ Morrison Formation/ Salt
Wash Member/ vanadium/ uranium/ Uravan district/

Bryner, Leonid, and Withington, C. F., 1951
drilling/ exploration/ Club Mesa area/ Montrose
County/ sandstone/ ore deposits/ Colorado Plateau/
reserves/ Uravan district/ carnotite/ Morrison
Formation/ Salt Wash Member/

Bunker, C. M., and Hamontre, H. C., 1955
Jo Dandy area/ Montrose County/ sandstone/ well
logs/ drill data/ gamma-ray logs/ caliper log/
Colorado Plateau/ drilling/ geophysics/

Bunker, C. M., and Hamontre, H. C., 1959
caliper log/ gamma-ray log/ Colorado Plateau/
drill data/ Jo Dandy area/ Montrose County/
drilling/ well logs/ geophysics/ sandstone/

Burbank, W. S., and Pierson, C. T., 1952
Gunnison County/ Ouray County/ San Juan County/
Dolores County/ radioactivity/ reconnaissance/
San Juan Mountains/ igneous-metamorphic/ Colorado
Plateau/ sandstone/ veins/ San Miguel County/

Burbank, W. S., and Pierson, C. T., 1953
radioactivity/ reconnaissance/ San Juan Mountains/
Ouray County/ San Miguel County/ Gunnison County/
Dolores County/ igneous-metamorphic/ sandstone/
Colorado Plateau/ veins/ San Juan County/

Burwell, Blair, 1920
ore deposits/ resources/ mining/ carnotite/
Mesa County/ Dolores County/ San Miguel County/
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Burwell, Blair, 1932
Rifle mine/ Garfield County/ McElmo Sandstone/
sandstone/ ore deposits/ mining methods/ mining
costs/ uranium/ vanadium/ exploration/ geology/
history/ Entrada Sandstone/

Busch, P. M., 1961
vanadium/ Colorado Plateau/ uranium/ Placerville
district/ Garfield County/ San Miguel County/
Dolores County/ San Juan County/ sandstone/
Uravan district/ Rico district/ metallurgy/
Rifle district/

Bush, A. L., 1950
Legin group area/ San Miguel County/ Eloisa
claim/ reserves/ resources/ sandstone/ Colorado
Plateau/ ore deposits/ vanadium/ Morrison Formation/
Salt Wash Member/ Otero claim/

Bush, A. L., 1950
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B claim/ Golden Rod claim/ Ownbey claim/ Charles
T. area/ vanadium/ production/ sandstone/ carnotite/
geology/ ore deposits/ ore guides/ Morrison
Formation/ Salt Wash Member/ reserves/ resources/
uranium/

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Bush, A. L., 1953
veins/ uranium/ Placerville district/ vanadium/
Entrada Sandstone/ sandstone/ San Miguel County/
San Juan Mountains/ Colorado Plateau/ ore deposits/

Bush, A. L., 1953
San Juan Mountains/ uranium/ vanadium/ Entrada
Sandstone/ San Miguel County/ ore deposits/
Colorado Plateau/ veins/ Placerville district/
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Bush, A. L., 1954
San Juan Mountains/ San Miguel County/ mapping/
uranium/ vanadium/ sandstone/ Colorado Plateau/
veins/ Entrada Sandstone/ geology/ ore deposits/
Placerville district/ Dolores County/

Bush, A. L., 1954
San Juan Mountains/ Placerville district/ San
Miguel County/ uranium/ vanadium/ Entrada Sandstone/
sandstone/ structure/ geology/ ore deposits/
Dolores County/ Colorado Plateau/ veins/

Bush, A. L., 1955
mapping/ Placerville district/ San Juan Mountains/
San Miguel County/ Entrada Sandstone/ sandstone/
uranium/ vanadium/ ore deposits/ geology/ veins/
Colorado Plateau/

Bush, A. L., 1955
San Juan Mountains/ San Miguel County/ Dolores
County/ Placerville district/ vanadium/ uranium/
Entrada Sandstone/ sandstone/ ore deposits/
igneous-metamorphic/ Colorado Plateau/ veins/
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Bush, A. L., 1956
vanadium/ uranium/ ore deposits/ Entrada Sandstone/
veins/ sandstone/ San Juan Mountains/ San Miguel
County/ Dolores County/ mineralogy/ Placerville
district/ geology/ Colorado Plateau/

Bush, A. L., and Bromfield, C. S., 1966
Dolores Peak quadrangle/ Dolores County/ San
Miguel County/ geology/ sandstone/ Colorado
Plateau/

Bush, A. L., and Bryner, Leonid, 1953
carnotite/ roscoelite/ stratigraphy/ Entrada
Sandstone/ minerals/ Pony Express Limestone
Member/ Wanakah Formation/ limestone/ sandstone/
Colorado Plateau/ uranium/ vanadium/ San Juan
Mountains/ San Miguel County/ ore deposits/
San Juan County/ Dolores County/ La Plata County/
Lightner Creek district/ Placerville district/
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Bush, A. L., and Stager, H. K., 1954
minerals/ carnotite/ Calamity claims/ Calamity
mines/ uranium/ Charles T. claims/ Club Mesa
claims/ Legin mines/ sandstone/ Morrison Formation/
vanadium/ Mesa County/ Colorado Plateau/ reserves/
Uravan district/ Montrose County/ San Miguel
County/ ore deposits/

Bush, A. L., and Stager, H. K., 1954
reserves/ uranium/ vanadium/ ore deposits/ Colorado
Plateau/ Colorado/ sandstone/

- Bush, A. L., and Stager, H. K., 1954
estimation/ reserves/ uranium/ vanadium/ Colorado Plateau/ Colorado/ sandstone/ ore deposits/
- Bush, A. L., and Stager, H. K., 1955
Mesa County/ Montrose County/ San Miguel County/ Uravan district/ reserves/ uranium/ vanadium/ carnotite/ sandstone/ Colorado Plateau/ Morrison Formation/
- Bush, A. L., and Stager, H. K., 1956
Mesa County/ Montrose County/ San Miguel County/ Uravan district/ reserves/ uranium/ vanadium/ carnotite/ sandstone/ Colorado Plateau/ Morrison Formation/
- Bush, A. L., and Taylor, R. B., 1958
San Juan Mountains/ ore deposits/ Gray head quadrangle/ San Miguel County/ uranium/ vanadium/ granodiorite/ Placerville district/ Pony Express Limestone Member/ sandstone/ limestone/ Colorado Plateau/ igneous-metamorphic/
- Bush, A. L., Bromfield, C. S., and Pierson, C. T., 1956
San Miguel County/ Placerville quadrangle/ geology/ map/ sandstone/ uranium/ vanadium/ Leopard Vanadium mine/ Entrada Sandstone/ Colorado Plateau/
- Bush, A. L., Bromfield, C. S., and Pierson, C. T., 1956
Placerville quadrangle/ Entrada Sandstone/ sandstone/ uranium/ vanadium/ Leopard Vanadium mine/ San Miguel County/ areal geology/ stratigraphy/ igneous-metamorphic/ structure/ geomorphology/ gold/ silver/ copper/ geology/ Colorado Plateau/
- Bush, A. L., Bromfield, C. S., and Pierson, C. T., 1956
Placerville quadrangle/ Entrada Sandstone/ sandstone/ uranium/ vanadium/ Black King mine/ Leopard Vanadium mine/ San Miguel County/ geology/ map/ Colorado Plateau/ ore deposits/
- Bush, A. L., Bromfield, C. S., and Pierson, C. T., 1959
Colorado Plateau/ uranium/ vanadium/ ore deposits/ San Miguel County/ sediments/ Entrada Sandstone/ geology/ Jurassic/ areal geology/ uranium/ sandstone/ Placerville quadrangle/
- Bush, A. L., Bromfield, C. S., Marsh, O. T., and others, 1961
San Miguel County/ Gray Head quadrangle/ Entrada Sandstone/ sandstone/ uranium/ vanadium/ Colorado Plateau/ map/
- Bush, A. L., Hilpert, L. S., and Trace, R. D., 1950
sandstone/ ore deposits/ ore guides/ Colorado Plateau/ San Miguel County/ exploration/ drilling/ carnotite/ uranium/ Georgetown group claims/ Georgeto claim/ vanadium/ Veta Mad claim/ ore production/ reserves/ resources/ Morrison Formation/ Salt Wash Member/
- Bush, A. L., Marsh, O. T., and Taylor, R. B., 1957
San Juan Mountains/ structure/ Placerville district/ San Miguel County/ igneous-metamorphic/ uranium/ vanadium/ selenium/ ore deposits/ Colorado Plateau/
- San Juan County/ La Plata County/ Dolores County/ sandstone/ veins/
- Bush, A. L., Marsh, O. T., and Taylor, R. B., 1958
San Miguel County/ Little Cone quadrangle/ structure/ sandstone/ vanadium/ uranium/ areal geology/ ore deposits/ Colorado Plateau/ Entrada Sandstone/
- Bush, A. L., Marsh, O. T., and Taylor, R. B., 1959
San Miguel County/ sandstone/ vanadium/ uranium/ Entrada Sandstone/ geology/ ore deposits/ Colorado Plateau/ Little Cone quadrangle/
- Bush, A. L., Marsh, O. T., and Taylor, R. B., 1960
areal geology/ Little Cone quadrangle/ San Miguel County/ Entrada Sandstone/ Jurassic/ vanadium/ uranium/ sandstone/ geology/ ore deposits/ Colorado Plateau/
- Bush, A. L., Taylor, R. B., and Marsh, O. T., 1956
San Juan Mountains/ uranium/ vanadium/ Placerville district/ San Miguel County/ Entrada Sandstone/ sandstone/ veins/ igneous-metamorphic/ Colorado Plateau/ ore deposits/
- Bush, A. L., Taylor, R. B., Marsh, O. T., and others, 1956
San Juan Mountains/ uranium/ vanadium/ Placerville district/ San Miguel County/ igneous-metamorphic/ stocks/ sandstone/ quartz monzonite/ ore deposits/ veins/ Colorado Plateau/
- Butler, A. P., Jr., 1952
Front Range/ thorium/ Colorado Plateau/ Morrison Formation/ igneous-metamorphic/ Chinle Formation/ Shinarump Member/ geology/ ore deposits/ pegmatites/ veins/ sandstone/ placers/ carnotite/ fresh waters/ gases/ Gilpin County/ Clear Creek County/ Custer County/ Lake County/ San Miguel County/ Gunnison County/
- Butler, A. P., Jr., 1956
ground water/ genesis/ uranium ore deposits/ sandstone/ exploration/
- Butler, A. P., Jr., 1972
resources/ uranium/ ore deposits/ fluvioclastic rocks/ sandstone/ conglomerate/ Tertiary volcanics/ igneous-metamorphic/ arkose/
- Butler, A. P., Jr., and Schnabel, R. W., 1956
veins/ Front Range/ uranium/ occurrences/ United States/ Colorado/ Colorado Plateau/ sedimentary rocks/ water/ igneous-metamorphic/ sandstone/
- Butler, A. P., Jr., and Schnabel, R. W., 1956
veins/ occurrences/ United States/ Colorado/ Front Range/ Colorado Plateau/ uranium/ sedimentary rocks/ water/ igneous-metamorphic/ sandstone/
- Butler, A. P., Jr., and Stead, F. W., 1947
ore deposits/ investigations/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/ radioactive raw materials/ costs/
- Butler, A. P., Jr., Finch, W. I., and Twenhofel, W. S., 1962
map/ uranium/ Colorado/ United States/ epigenetic

- deposits/ ore deposits/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/
- Butler, A. P., Jr., Killien, P. L., Page, G. B., and Rubey, W. W., 1947
ore deposits/ resources/ reconnaissance/ Front Range/ reserves/ Colorado Plateau/ carnotite/ uranium/ vanadium/ igneous-metamorphic/ uraninite/ Iron Hill/ Gunnison County/ Gilpin County/ Clear Creek County/ radioactive springs/ thorium/ mineralogy/ San Miguel County/ Montrose County/ Mesa County/ sandstone/ genesis/
- Byerly, P. E., and Joesting, H. R., 1958
geophysical investigations/ Lisbon Valley area/ Utah/ Colorado/ Paradox Basin/ stratigraphy/ salt anticlines/ Montrose County/ geophysics/ Colorado Plateau/ sandstone/
- Byerly, P. E., and Joesting, H. R., 1959
Lisbon Valley area/ Colorado/ Colorado Plateau/ geophysical investigations/ uranium/ Mesa County/ San Miguel County/ Dolores County/ gravity/ aeromagnetism/ sandstone/ geophysics/ Montrose County/
- Cadigan, R. A., 1954
Colorado Plateau/ sandstone/ tuff/ alteration/ tuff estimation/ petrology/ stratigraphy/ ore deposits/ geochemistry/
- Cadigan, R. A., 1954
correlation/ stratigraphy/ San Rafael group/ sandstone/ Colorado Plateau/ Colorado/ Entrada Sandstone/ limestone/ Todilto Limestone/ siltstone/
- Cadigan, R. A., 1955
Dolores County/ Garfield County/ Mesa County/ sandstone/ Montrose County/ Rio Blanco County/ San Miguel County/ Entrada Sandstone/ Morrison Formation/ stratigraphy/ Todilto Limestone/ Chinle Formation/ limestone/ host rocks/ conglomerate/ Colorado Plateau/ Triassic/ Jurassic/
- Cadigan, R. A., 1955
sedimentary petrology/ Colorado Plateau/ Morrison Formation/ sandstone/ stratigraphy/ heavy minerals/ sources/
- Cadigan, R. A., 1956
lithology/ Colorado Plateau/ petrology/ sediments/ Morrison Formation/ sandstone/ Montrose County/ ore deposits/ San Miguel County/ geochemistry/
- Cadigan, R. A., 1957
lithology/ Colorado/ Cutler Formation/ Dolores Formation/ petrology/ arkose/ quartzite/ Utah/ Colorado Plateau/ ore deposits/ sandstone/ shale/
- Cadigan, R. A., 1959
Colorado Plateau/ ore deposits/ sandstone/ host rock/ Garfield County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Morrison Formation/ Entrada Sandstone/
- Cadigan, R. A., 1963
tuffaceous sandstone/ sandstone/ Chinle Formation/ Colorado Plateau/ petrography/ analyses/ Triassic strata/
- Cadigan, R. A., 1967
petrology/ Morrison Formation/ Colorado Plateau/ sandstone/ Gunnison County/ La Plata County/ Archuleta County/ San Miguel County/ Mesa County/ Delta County/ Eagle County/ Montrose County/ Montezuma County/ mineralogy/ Rio Blanco County/ Salt Wash Member/
- Cadigan, R. A., 1971
petrology/ Moenkopi Formation/ Colorado Plateau/ mineralogy/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ stratigraphy/
- Cadigan, R. A., 1971
geochemical distribution/ Colorado Plateau/ red beds/ vanadium/ sandstone/ La Plata County/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Rio Blanco County/ geochemistry/ Garfield County/ Moenkopi Formation/
- Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Triassic strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/
- Cadigan, R. A., 1972
geochemistry/ anomalies/ alteration/ Moenkopi Formation/ Skull Creek area/ Moffat County/ shale/ sandstone/ Colorado Plateau/
- Cadigan, R. A., and Miesch, A. T., 1958
Morrison Formation/ Salt Wash Member/ sandstone/ lithology/ ore deposits/ mineralogy/ uranium/ statistics/ Colorado Plateau/
- California Division of Mines, 1955
uranium/ occurrence/ California/ Colorado Plateau/ comparisons/ sandstone/ geology/
- Campbell, G. C., and Schlottmann, J. D., 1957
uranium/ ore deposits/ stratigraphy/ mineralization/ geology/ geological surveys/ meteoric water/ siltstone/ Eagle County/ sandstone/ limestone/ Minturn Formation/ Vall Pass area/
- Campbell, J. A., 1975
uranium potential/ Permian rocks/ Colorado Plateau/ sandstone/ ore deposits/
- Campbell, J. A., and Steele, B. A., 1976
uranium potential/ Permian rocks/ Colorado Plateau/ sandstone/ ore deposits/
- Cannon, H. L., 1951
Colorado Plateau/ botanical studies/ uranium/ geobotany/ vanadium/ indicator plants/ Colorado/ Utah/ Salt Wash Member/ sandstone/ Astragalus/

- geology/ analyses/ ore deposits/ Mesa County/ Montrose County/ Morrison Formation/ San Miguel County/ Dolores County/
- Cannon, H. L., 1951
Colorado Plateau/ botanical studies/ ore deposits/ sandstone/ geobotany/
- Cannon, H. L., 1952
Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/ vegetation/ uranium/ vanadium/ sandstone/ botanical studies/ Dolores County/ Colorado/ indicator plants/ Utah/ Morrison Formation/ Astragalus/ Salt Wash Member/ geology/ analyses/ ore deposits/ geobotany/
- Cannon, H. L., 1953
geobotanical studies/ indicator plants/ carnotite/ Colorado Plateau/ New Mexico/ experimental garden/ sandstone/ uranium/ vanadium/ selenium/ absorber plants/ ore deposits/ geobotany/
- Cannon, H. L., 1954
Colorado Plateau/ botanical studies/ uranium/ geobotany/ ore deposits/ soils/ ground water/ exploration/ absorber plants/ indicator plants/ Astragalus/ sandstone/ plant descriptions/
- Cannon, H. L., 1954
Colorado Plateau/ sandstone/ exploration/ vegetation/ indicator plants/ geobotany/
- Cannon, H. L., 1955
Colorado Plateau/ botanical studies/ experimental garden/ New Mexico/ Arizona/ Utah/ Wyoming/ uranium/ ore deposits/ geobotany/ sandstone/
- Cannon, H. L., 1955
Colorado Plateau/ sandstone/ vegetation/ exploration/ geobotany/ indicator plants/
- Cannon, H. L., 1956
Colorado Plateau/ botanical studies/ Astragalus/ indicator plants/ radium/ New Mexico/ equipment/ sandstone/ analysis methods/ ore deposits/ geobotany/
- Cannon, H. L., 1957
Colorado Plateau/ ore deposits/ exploration/ vegetation/ indicator plants/ Utah/ botanical prospecting/ geobotany/ Colorado/ sandstone/ geochemistry/ Marshall Pass/ Saguache County/ Lookout No. 22 claim/ uraninite/ igneous-metamorphic/ Astragalus/ botanical studies/
- Cannon, H. L., 1957
plant descriptions/ Colorado Plateau/ sandstone/ exploration/ uranium/ Astragalus/ vanadium/ Utah/ ore deposits/ New Mexico/ Arizona/ Colorado/ Wyoming/ San Miguel County/ Montrose County/ Mesa County/ geobotany/ Dolores County/ botanical studies/ indicator plants/
- Cannon, H. L., 1960
Colorado Plateau/ ore deposits/ botanical prospecting/

- exploration/ indicator plants/ sandstone/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ geobotany/
- Cannon, H. L., 1963
vanadium/ sandstone/ geochemistry/ Colorado Plateau/ biochemistry/
- Cannon, H. L., and Kleinhampl, F. J., 1956
Colorado Plateau/ botanical methods/ exploration/ geobotany/ prospecting/ uranium/ analyses/ indicator plants/ Colorado/ biogeochemistry/ sandstone/
- Cannon, H. L., and Kleinhampl, F. J., 1956
botanical methods/ exploration/ uranium/ geobotany/ analyses/ indicator plants/ Colorado/ biogeochemistry/ sandstone/ Colorado Plateau/
- Cannon, R. S., Jr., 1952
isotope geology/ uranium/ thorium/ decay products/ Colorado Plateau/ Front Range/ Morrison Formation/ sandstone/ igneous-metamorphic/
- Carlthers, L. W., and Clinton, N. J., 1956
Colorado Plateau/ ore deposits/ sedimentary rocks/ sandstone/ terrestrial rocks/ marine rocks/ Moffat County/ Skull Creek district/ Montezuma County/ uranium/ Curtis Formation/ shoreline sandstone/
- Carr, W. J., 1948
Rangely area/ Skull Creek district/ Moffat County/ Morrison Formation/ sandstone/ Colorado Plateau/ uranium/ ore deposits/
- Carter, W. D., 1953
Colorado Plateau/ reserves/ drilling/ exploration/ vanadium/ sandstone/ ore deposits/ uranium/ Morrison Formation/ Salt Wash Member/ Long Park area/ Montrose County/ La Sal Creek area/ Paradox district/ Colorado/ Utah/ geology/
- Carter, W. D., 1955
La Sal Creek area/ Paradox district/ Montrose County/ Colorado/ Utah/ Colorado Plateau/ sandstone/ ore deposits/ exploration/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Carter, W. D., 1956
Colorado/ Utah/ Cretaceous/ sandstone/ disconformity/ Dakota Sandstone/ Montrose County/ Colorado Plateau/ Burro Canyon Member/ stratigraphy/
- Carter, W. D., 1956
Burro Canyon Member/ Mount Peale No. 1 quadrangle/ Colorado/ Utah/ sandstone/ Montrose County/ stratigraphy/ ore deposits/ geology/ Colorado Plateau/ Dakota Sandstone/
- Carter, W. D., 1956
disconformity/ stratigraphy/ Cretaceous/ Colorado Plateau/ Dakota Sandstone/ Burro Canyon Member/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/ sandstone/
- Carter, W. D., 1957
disconformity/ stratigraphy/ Cretaceous/ Colorado/

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- Utah/ Colorado Plateau/ Dakota Sandstone/ Burro Canyon Member/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ sandstone/
- Carter, W. D., and Gualtieri, J. L., 1956
Montrose County/ Colorado/ Utah/ La Sal Creek area/ Morrison Formation/ sandstone/ Salt Wash Member/ drilling/ ore deposits/ Colorado Plateau/ Paradox district/
- Carter, W. D., and Gualtieri, J. L., 1957
Colorado Plateau/ La Sal Creek area/ Paradox district/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado/ Utah/ drilling/ stratigraphy/ structure/ Montrose County/ ore deposits/
- Carter, W. D., and Gualtieri, J. L., 1957
Mount Peale 1 SE quadrangle/ geology/ map/ Montrose County/ Colorado/ Utah/ sandstone/ uranium/ Colorado Plateau/
- Carter, W. D., and Gualtieri, J. L., 1958
map/ tectonics/ Colorado/ Utah/ Moffat County/ Logan County/ geology/ Larimer County/ Jackson County/ Boulder County/ Jefferson County/ Clear Creek County/ Gilpin County/ Summit County/ Grand County/ Eagle County/ Routt County/ Garfield County/ Rio Blanco County/ sandstone/ ore deposits/ Igneous-metamorphic/
- Carter, W. D., and Gualtieri, J. L., 1965
Colorado/ Utah/ La Sal quadrangle/ ore deposits/ areal geology/ Montrose County/ vanadium/ uranium/ sandstone/ Colorado Plateau/ Morrison Formation/ geology/
- Carter, W. D., and Gualtieri, J. L., 1970
maps/ drilling/ exploration/ La Sal Creek area/ Montrose County/ Colorado/ Utah/ sandstone/ Paradox district/ Colorado Plateau/
- Carter, W. D., Gualtieri, J. L., and Hedlund, D. C., 1954
Colorado Plateau/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ La Sal Creek area/ Paradox district/ Montrose County/ Colorado/ Utah/
- Carter, W. D., Gualtieri, J. L., and Warman, J., 1954
Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Paradox district/ Montrose County/ Colorado/ Utah/ La Sal Creek area/
- Carter, W. D., Gualtieri, J. L., and Warman, J., 1955
La Sal Creek area/ Montrose County/ Utah/ Colorado/ Morrison Formation/ Salt Wash Member/ sandstone/ structure/ Colorado Plateau/ ore deposits/ exploration/ Paradox district/
- Carter, W. D., Gualtieri, J. L., and Shoemaker, E. M., 1958
Colorado/ Montrose County/ Mount Peale 1 NE quadrangle/ Utah/ Morrison Formation/ sandstone/ geology/ map/ uranium/ vanadium/ Colorado Plateau/
- Case, J. E., 1967
anomalies/ gravity surveys/ aeromagnetic surveys/ igneous-metamorphic/ ore guides/ geophysics/

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- Park County/ Lake County/ Park Range/ sandstone/ Colorado mineral belt/
- Case, J. E., and Joesting, H. R., 1972
geophysical investigations/ Colorado Plateau/ stratigraphy/ gravity surveys/ aeromagnetic surveys/ exploration/ Montezuma County/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ geophysics/ geology/
- Case, J. E., Joesting, H. R., and Byerly, P. E., 1963
geophysical investigations/ La Sal Mountains/ geophysics/ Colorado Plateau/ geology/ aeromagnetic surveys/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ igneous-metamorphic/
- Cashion, W. B., 1973
geology/ structure/ map/ Grand Junction quadrangle/ Colorado/ Utah/ Colorado Plateau/ Mesa County/ sandstone/ Rio Blanco County/ Garfield County/
- Cater, F. W., Jr., 1953
Uravan district/ Montrose County/ San Miguel County/ quadrangle/ geology/ ore guides/ exploration/ minerals/ carnotite/ Colorado Plateau/ Morrison Formation/ map/ sandstone/ Gyp mine/ Raven mine/ Sliveys Pocket/ structure/ ore deposits/ Anderson Mesa quadrangle/ Salt Wash Member/
- Cater, F. W., Jr., 1953
Uravan district/ Montrose County/ San Miguel County/ map/ geology/ ore guides/ exploration/ minerals/ ore deposits/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado Plateau/ Jo Dandy group/ Monogram group/ Wild Steer mine/ Tea Pot Dome mine/ Bull Canyon quadrangle/
- Cater, F. W., Jr., 1953
geology/ map/ ore guides/ exploration/ minerals/ carnotite/ ore deposits/ Morrison Formation/ Salt Wash member/ sandstone/ Maverick mines/ Arrowhead mines/ Calamity mines/ G-1 mine/ Ronnie mine/ Blue Creek mines/ mines/ Colorado Plateau/ Uravan district/ Mesa County/ Calamity Mesa quadrangle/
- Cater, F. W., Jr., 1953
Montrose County/ Davis Mesa quadrangle/ geology/ ore guides/ exploration/ minerals/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Club mines/ Long Park/ Tramp No. 2 mine/ mines/ Colorado Plateau/ Uravan district/ ore deposits/ map/
- Cater, F. W., Jr., 1953
Uravan district/ Mesa County/ Gateway quadrangle/ geology/ carnotite/ Colorado Plateau/ Brushy Basin member/ Morrison Formation/ Salt Wash Member/ sandstone/ shale/ Mammoth mine/ Vanaking No. 1 mine/ minerals/ map/ ore guides/ exploration/ ore deposits/
- Cater, F. W., Jr., 1953
San Miguel County/ Gypsum Gap quadrangle/ geology/ ore guides/ exploration/ minerals/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Hermosa Formation/ Pitchfork mines/ Bald Eagle

mines/ Long Ridge mines/ Uravan district/ ore deposits/ map/ Colorado Plateau/

Cater, F. W., Jr., 1953

San Miguel County/ Hamm Canyon quadrangle/ geology/ ore guides/ exploration/ minerals/ carnotite/ map/ Salt Wash Member/ sandstone/ Colorado Plateau/ ore deposits/ Rambler claim/ Mexico mines/ Lookout mine/ Riverview claim/ Morrison Formation/ Uravan district/

Cater, F. W., Jr., 1953

San Miguel County/ Horse Range Mesa quadrangle/ geology/ minerals/ carnotite/ Uravan district/ ore guides/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ Radium group/ Charles T. mines/ ore deposits/ Georgeto mine/ Veta Mad mine/ Lower group of mines/ map/ Upper group of mines/

Cater, F. W., Jr., 1953

Uravan district/ Montrose County/ geology/ ore guides/ exploration/ minerals/ ore deposits/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado Plateau/ Thunderbolt mine/ Oversight claim/ map/ Jo Dandy area/ mines/ Naturita NW quadrangle/ San Miguel County/

Cater, F. W., Jr., 1953

Uravan district/ Mesa County/ Pine Mountain quadrangle/ ore guides/ exploration/ minerals/ carnotite/ geology/ Sunflower claim/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ ore deposits/ maps/

Cater, F. W., Jr., 1953

Colorado/ carnotite/ Mesa County/ Montrose County/ sandstone/ ore deposits/ Morrison Formation/ salt anticlines/ Salt Wash Member/ stratigraphy/ structure/ Colorado Plateau/ geology/ exploration/ mapping/ San Miguel County/

Cater, F. W., Jr., 1954

Uravan district/ Dolores County/ San Miguel County/ Egnar quadrangle/ geology/ ore guides/ exploration/ minerals/ carnotite/ Colorado Plateau/ Salt Wash Member/ Morrison Formation/ sandstone/ Charles T. mines/ map/ Golden Rod mines/ Ownbey group/ Spud Patch group/ Legln mines/ ike group of mines/ mines/ ore deposits/

Cater, F. W., Jr., 1954

Bull Canyon quadrangle/ Montrose County/ sandstone/ San Miguel County/ Uravan district/ geology/ carnotite/ Salt Wash Member/ Colorado Plateau/ map/ Morrison Formation/

Cater, F. W., Jr., 1955

Dolores County/ San Miguel County/ Egnar quadrangle/ Colorado Plateau/ carnotite/ Morrison Formation/ sandstone/ Charles T. mines/ Golden Rod mines/ ore deposits/ Ownbey group of mines/ Spud Patch group/ Legln mines/ ike group of mines/ geology/ map/ mines/ Salt Wash Member/

Cater, F. W., Jr., 1955

Mesa County/ Gateway district/ sandstone/ Colorado Plateau/ carnotite/ Morrison Formation/ Salt Wash Member/ shale/ Mammoth mine/ Vanaking No.

1 mine/ ore deposits/ Gateway quadrangle/ geology/ map/ carnotite/ Brushy Basin Member/

Cater, F. W., Jr., 1955

San Miguel County/ Gypsum Gap quadrangle/ sandstone/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ Hermosa Formation/ Pitchfork mines/ Bald Eagle mines/ Long Ridge mines/ limestone/ geology/ map/ carnotite/

Cater, F. W., Jr., 1955

Pine Mountain quadrangle/ sandstone/ Mesa County/ carnotite/ Uravan district/ Colorado Plateau/ Morrison Formation/ sandstone/ Sunflower claim/ geology/ map/ ore deposits/ Salt Wash Member/

Cater, F. W., Jr., 1955

Mesa County/ carnotite/ Morrison Formation/ sandstone/ Maverick mines/ Arrowhead mines/ ore deposits/ Calamity mines/ G-1 mine/ Ronnie mine/ Blue Creek mines/ Calamity Mesa quadrangle/ Colorado Plateau/ geology/ map/ mines/ Salt Wash Member/

Cater, F. W., Jr., 1955

San Miguel County/ Colorado Plateau/ ore deposits/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Radium group mines/ Charles T. mines/ Georgeto mine/ Veta Mad mine/ Lower group mines/ Upper group mines/ mines/ geology/ map/ Horse Range Mesa quadrangle/

Cater, F. W., Jr., 1955

Montrose County/ San Miguel County/ Naturita NW quadrangle/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ sandstone/ carnotite/ Thunderbolt mine/ Oversight claim/ Jo Dandy area/ geology/ map/ mines/ ore deposits/

Cater, F. W., Jr., 1955

Dolores County/ San Miguel County/ Colorado Plateau/ Joe Davis Hill quadrangle/ Morrison Formation/ ore deposits/ sandstone/ carnotite/ geology/ map/ Salt Wash Member/

Cater, F. W., Jr., 1955

San Miguel County/ Hamm Canyon quadrangle/ sandstone/ Morrison Formation/ Salt Wash member/ Colorado Plateau/ carnotite/ Rambler claim/ Mexico mines/ Lookout mine/ Riverview claim/ geology/ map/ ore deposits/

Cater, F. W., Jr., 1955

Davis Mesa quadrangle/ Salt Wash member/ sandstone/ Morrison Formation/ Club mines/ Long Park/ carnotite/ Montrose County/ Colorado Plateau/ geology/ map/ mines/ ore deposits/

Cater, F. W., Jr., 1955

San Miguel County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ carnotite/ Hermosa Formation/ limestone/ Pitchfork mines/ geology/ Bald Eagle mines/ Long Ridge mines/ map/ ore deposits/ Gypsum Gap quadrangle/

Cater, F. W., Jr., 1955

San Miguel County/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado Plateau/ carnotite/ Rambler claim/ Mexico mines/ Lookout mine/ Riverview

- claim/ geology/ map/ ore deposits/ Hamm Canyon quadrangle/
- Cater, F. W., Jr., 1955
Montrose County/ San Miguel County/ ore deposits/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado Plateau/ Gyp mine/ Raven mine/ Silveys Pocket/ geology/ map/ Anderson Mesa quadrangle/
- Cater, F. W., Jr., 1955
Dolores County/ San Miguel County/ Egnar quadrangle/ Colorado Plateau/ carnotite/ Morrison Formation/ sandstone/ Charles T. mines/ Ike group mines/ ore deposits/ Ownbey group/ Spud Patch group/ Legln mines/ geology/ map/ mines/ Golden Rod mines/ Salt Wash Member/
- Cater, F. W., Jr., 1955
Dolores County/ San Miguel County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ map/ mines/ carnotite/ Joe Davis Hill quadrangle/ geology/ ore deposits/
- Cater, F. W., Jr., 1955
San Miguel County/ Colorado Plateau/ ore deposits/ map/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Radium group/ Charles T. mines/ Georgeto mine/ Lower group of mines/ Upper group of mines/ mines/ geology/ Veta Mad mine/ Horse Range Mesa quadrangle/
- Cater, F. W., Jr., 1955
Naturita NW quadrangle/ Morrison Formation/ ore deposits/ sandstone/ Colorado Plateau/ carnotite/ Thunderbolt mine/ Oversight claim/ Jo Dandy area/ Montrose County/ San Miguel County/ geology/ map/ mines/ Salt Wash Member/
- Cater, F. W., Jr., 1955
Calamity Mesa quadrangle/ Colorado Plateau/ Mesa County/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Maverick mines/ Arrowhead mines/ Calamity mines/ G-1 mine/ Ronnie mine/ Blue Creek mines/ mines/ geology/ ore deposits/ map/
- Cater, F. W., Jr., 1955
geology/ Dolores County/ salt anticlines/ Montrose County/ San Miguel County/ sandstone/ Utah/ Paradox Basin/ Colorado Plateau/ carnotite/ San Juan Basin/ Archuleta County/ La Plata County/
- Cater, F. W., Jr., 1955
Colorado Plateau/ Colorado/ mapping/ maps published/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ sandstone/ carnotite/ ore deposits/
- Cater, F. W., Jr., 1955
Colorado Plateau/ Mesa County/ Pine Mountain quadrangle/ quadrangle/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Sunflower claim/ geology/ map/ Uravan district/ ore deposits/
- Cater, F. W., Jr., 1956
Montrose County/ San Miguel County/ Morrison Formation/ Anderson Mesa quadrangle/ carnotite/ ore deposits/ Salt Wash Member/ sandstone/ Colorado Plateau/ Gyp mine/ Silveys Pocket/ geology/ map/ mines/ Raven mine/
- Cater, F. W., Jr., 1964
Gypsum Valley/ salt anticlines/ San Miguel County/ structure/ geology/ Colorado Plateau/ history/ sandstone/
- Cater, F. W., Jr., 1967
salt anticlines/ Paradox Basin/ Utah/ Colorado/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ structure/ Colorado Plateau/ geology/
- Cater, F. W., Jr., 1970
salt anticlines/ geology/ Colorado/ Mesa County/ San Miguel County/ Colorado Plateau/ stratigraphy/ structure/ sandstone/ Montrose County/
- Cater, F. W., Jr., and Bell, H., 3d, 1953
Uravan district/ Dolores County/ San Miguel County/ geology/ ore guides/ exploration/ minerals/ carnotite/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ Norma Jean mine/ Mucho Grande mine/ ore deposits/ map/ Joe Davis Hill quadrangle/
- Cater, F. W., Jr., and Elston, D. P., 1961
salt anticlines/ tectonics/ Colorado/ Mesa County/ San Miguel County/ Colorado Plateau/ structural development/ geology/ Utah/ sandstone/ Montrose County/
- Cater, F. W., Jr., and Elston, D. P., 1963
salt anticlines/ tectonics/ Colorado/ Mesa County/ Montrose County/ San Miguel County/ geology/ structural development/ Utah/ sandstone/ Colorado Plateau/
- Cater, F. W., Jr., and McKay, E. J., 1955
Montrose County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ carnotite/ Club mines/ Long Park area/ Davis Mesa quadrangle/ geology/ map/ mines/ ore deposits/
- Cater, F. W., Jr., and McKay, E. J., 1955
Montrose County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ carnotite/ map/ mines/ Long Park No. 6 mine/ Uravan district/ Black Dinah mine/ Bitter Creek mines/ Uravan quadrangle/ geology/ ore deposits/
- Cater, F. W., Jr., Butler, A. P., Jr., and McKay, E. J., 1954
Uravan district/ Montrose County/ Uravan quadrangle/ exploration/ minerals/ carnotite/ Bitter Creek mines/ Black Dinah mine/ Long Park No. 6 mine/ genesis/ ore deposits/ sandstone/ map/ mines/ Salt Wash Member/ Morrison Formation/ geology/ ore guides/ Colorado Plateau/
- Cater, F. W., Jr., Butler, A. P., Jr., and McKay, E. J., 1955
Montrose County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ carnotite/ Long Park No. 6 mine/ Black Dinah mine/ Bitter Creek mines/ ore deposits/ genesis/ map/ Uravan quadrangle/ geology/

- Cater, F. W., Jr., Craig, L. C., and Phoenix, D. A., 1950
sandstone/ Morrison Formation/ Salt Wash Member/ geology/ Colorado Plateau/ ground water studies/ carnotite/ stratigraphy/ structure/ ore deposits/ Colorado/ New Mexico/ Utah/ Arizona/ San Miguel County/ Montrose County/ Mesa County/ Garfield County/ Rio Blanco County/
- Chapman, E. P., Jr., 1958
Colorado Plateau/ ore deposits/ exploration/ rotary drilling/ sampling/ logging/ sandstone/
- Chenoweth, W. L., 1957
Montezuma County/ San Juan basin/ Colorado/ heavy minerals/ titanium/ sandstone/ radioactivity/ ore deposits/ palae-placers/ New Mexico/
- Chenoweth, W. L., 1975
Utah/ Colorado/ uranium/ ore deposits/ Canyonlands area/ La Sal Creek area/ sandstone/ Montrose County/ Colorado Plateau/
- Chenoweth, W. L., 1975
Utah/ Colorado/ uranium/ ore deposits/ Canyonlands area/ La Sal Creek area/ sandstone/ Montrose County/ Colorado Plateau/
- Chenoweth, W. L., 1977
Colorado Plateau/ sandstone/ Garfield County/ San Miguel County/ Mesa County/ Dolores County/ Montezuma County/ Montrose County/
- Chenoweth, W. L., and Malan, R. C., 1969
uranium/ ore deposits/ geology/ classifications/ Canada/ sandstone/ Igneous-metamorphic/ Colorado/ Colorado Plateau/ United States/
- Chenoweth, W. L., and Stehle, F. T., 1957
New Mexico/ Colorado/ ore deposits/ uranium/ stratigraphy/ aerial prospecting/ reconnaissance/ Igneous-metamorphic/ topography/ natural radioactivity/ San Juan basin/ sandstone/ Montezuma County/
- Chentsov, I. G., 1962
mineralogy/ geochemistry/ problems/ uranium/ ore deposits/ sediments/ sandstone/
- Chew, R. T., 3d, 1955
Colorado Plateau/ Rifle mine/ Uravan district/ map/ Uranium Peak/ sandstone/ production/ uranium/ vanadium/ Morrison Formation/ La Plata County/ ore deposits/ Entrada Sandstone/ Rio Blanco County/ Mesa County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Gateway district/
- Chew, R. T., 3d, 1955
sandstone/ Mesa County/ Utah/ stream sediments/ exploration/ radioactivity/ Delta County/ Montrose County/ gravels/ San Miguel County/ Dolores County/ Ouray County/ San Juan County/ Montezuma County/ La Plata County/ Colorado Plateau/
- Chew, R. T., 3d, 1956
Mesa County/ Delta County/ Montrose County/ sandstone/ Dolores County/ Ouray County/ San Juan County/ gravels/ Montezuma County/ La Plata County/ Colorado Plateau/ exploration/ stream sediments/ radioactivity/ San Miguel County/
- Chew, R. T., 3d, 1956
Rifle mine/ Uravan district/ Uranium Peak/ vanadium/ production/ Colorado Plateau/ uranium/ sandstone/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Entrada Sandstone/ ore deposits/ Garfield County/ Morrison Formation/
- Chew, R. T., 3d, and Fischer, R. P., 1954
ore deposits/ Rifle district/ Rio Blanco County/ Colorado/ Moffat County/ Maybell-Lay district/ Coal Creek area/ Skull Creek district/ Browns Park Formation/ Garfield County/ Meeker district/ Utah/ Entrada Sandstone/ sandstone/ Colorado Plateau/
- Childers, M. O., 1974
uranium/ ore deposits/ Cretaceous/ Tertiary/ sandstone/ Wyoming/ Colorado/ mudstone/ Laramie Formation/ arkose/ Lance Formation/ Fox Hill Formation/ Fort Union Formation/ Wind River Formation/ Wasatch Formation/ Moffat County/ Battle Springs Formation/ Weld County/ stratigraphy/ Cheyenne Basin/ Sand Wash Basin/
- Clinton, N. J., and Carlithers, L. W., 1956
Colorado Plateau/ sandstone/ marginal marine rocks/ uranium/ Curtis Formation/ genesis/ geology/ Moffat County/ ore deposits/ Montezuma County/ terrestrial rocks/ Skull Creek district/ Shoreline Sandstone/
- Coffin, R. C., 1921
resources/ structure/ composition/ sandstone/ carnotite/ radium/ uranium/ vanadium/ Colorado Plateau/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ ore deposits/
- Coffin, R. C., 1921
carnotite/ Colorado Plateau/ radium/ uranium/ Mesa County/ vanadium/ sandstone/ ore deposits/ San Miguel County/ Dolores County/ Montrose County/
- Cohenour, R. E., 1967
Colorado Plateau/ ore deposits/ production/ history/ Utah/ mineral economics/ Placerville district/ Uravan district/ sandstone/ San Miguel County/ development/ Montrose County/
- Coleman, R. G., 1956
thermometry/ radioactive minerals/ Colorado Plateau/ sulfides/ sandstone/ uranium/ San Miguel County/ geology/ ore deposits/ geothermometry/
- Coleman, R. G., 1957
mineralogy/ temperature of formation/ uranium/ ore deposits/ Colorado Plateau/ San Miguel County/ geothermometry/ sandstone/
- Coleman, R. G., Leo, G. W., and Stewart, D. B., 1957
Colorado Plateau/ ore deposits/ genesis/ geologic thermometry/ radioactive minerals/ sphalerite/ pyrite/ sulfides/ Good Hope mine/ Lytner (Lightner)

- Creek/ Wyoming/ sandstone/ Colorado/ Utah/ La Plata County/ Dolores County/ geothermometry/
- Collins, G. E., 1914
carnotite/ sandstone/ San Miguel County/ Montrose County/ pitchblende/ igneous-metamorphic/ Gilpin County/ mining/ Colorado Plateau/ Front Range/
- Colorado Geological Survey, 1968
minerals/ water/ resources/ Colorado/ uranium/ thorium/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/
- Columbia University, 1968
Colorado Plateau/ uranium/ geology/ minerals/ Colorado/ ore deposits/ environment/ precipitation/ reduction/ sulfides/ Arizona/ copper/ geography/ genesis/ Utah/ mineralization/ alteration/ sandstone/
- Columbia University, 1968
Colorado/ geology/ precipitation/ genesis/ reduction/ sulfides/ uranium/ hydrogen sulfide/ Arizona/ Colorado Plateau/ copper/ geography/ Utah/ ore deposits/ mineralization/ alteration/ sandstone/
- Columbia University, 1971
plants/ uranium/ Colorado Plateau/ ore deposits/ sandstone/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/
- Comstock, S. S., 1951
radioactivity/ exploration/ drilling/ Arizona/ Utah/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ gamma-ray logging/ Colorado Plateau/
- Cooper, Margaret, 1951
bibliography/ uranium/ thorium/ carbonaceous deposits/ Colorado/ Colorado Plateau/ Mesa County/ sandstone/ San Miguel County/ Dolores County/ Montezuma County/ ore deposits/ Montrose County/
- Cooper, Margaret, 1951
bibliography/ uranium/ thorium/ carbonaceous deposits/ Colorado/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ Dolores County/ organics/ sandstone/
- Cooper, Margaret, 1953
Colorado/ Utah/ bibliography/ uranium/ thorium/ sandstone/ radioactive occurrences/ ore deposits/ Colorado Plateau/ Front Range/ igneous-metamorphic/
- Cooper, Margaret, 1954
Colorado/ Utah/ bibliography/ uranium/ thorium/ sandstone/ radioactive occurrences/ ore deposits/ Colorado Plateau/ Front Range/ igneous-metamorphic/
- Craig, L. C., 1953
Colorado Plateau/ genesis/ relation/ ground water/ sandstone/ geology/
- Craig, L. C., 1953
Colorado Plateau/ mapping/ stratigraphy/ Morrison Formation/ sandstone/ geology/
- Craig, L. C., 1953
Colorado Plateau/ stratigraphy/ Morrison Formation/ ore deposits/ sandstone/ conglomerate/
- Craig, L. C., 1955
stratigraphy/ Colorado Plateau/ sandstone/ ore deposits/ Morrison Formation/
- Craig, L. C., 1958
stratigraphy/ Colorado Plateau/ Mesa County/ Colorado/ New Mexico/ sandstone/ Triassic/ Mesozoic/
- Craig, L. C., and Cadigan, R. A., 1958
Morrison Formation/ Colorado Plateau/ ore deposits/ stratigraphy/ sandstone/ Colorado/ Utah/ Paradox basin/ San Miguel County/ Montrose County/
- Craig, L. C., and Dickey, D. D., 1956
Jurassic/ stratigraphy/ Colorado/ Utah/ sandstone/ Morrison Formation/ ore deposits/ Colorado Plateau/
- Craig, L. C., and Dickey, D. D., 1956
stratigraphy/ Colorado Plateau/ ore deposits/ sandstone/
- Craig, L. C., and Holmes, C. N., 1951
Morrison Formation/ Colorado Plateau/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Mesa County/ stratigraphy/ Glen Canyon group/ San Rafael group/
- Craig, L. C., and Holmes, C. N., 1951
Colorado/ Utah/ Jurassic/ stratigraphy/ Morrison Formation/ Glen Canyon group/ San Rafael group/ sandstone/ San Juan basin/ Montezuma County/ La Plata County/ Colorado Plateau/
- Craig, L. C., and Koteff, C., 1956
stratigraphy/ Colorado Plateau/ Paleozoic/ Cretaceous/ sandstone/ limestone/ ore deposits/
- Craig, L. C., and Koteff, C., 1957
stratigraphy/ Colorado Plateau/ sandstone/ ore deposits/
- Craig, L. C., and Mytton, J. W., 1957
Cretaceous/ sandstone/ stratigraphy/ Colorado Plateau/ ore deposits/
- Craig, L. C., and Mytton, J. W., 1958
stratigraphy/ Colorado Plateau/ Paleozoic/ Mesozoic/ sandstone/ limestone/ ore deposits/
- Craig, L. C., and Weir, G. W., 1953
ore deposits/ geology/ Colorado Plateau/ Morrison Formation/ sandstone/ conglomerate/ uranium/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951
Colorado Plateau/ Morrison Formation/ Mesa County/ stratigraphy/ Glen Canyon group/ Montezuma County/ Delta County/ San Rafael group/ Dolores County/ Gunnison County/ Montrose County/ sandstone/ Moffat County/ Ouray County/ San Juan County/ San Miguel County/ La Plata County/ Rio Blanco County/ Garfield County/ Archuleta County/

- Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1955
stratigraphy/ Morrison Formation/ Colorado Plateau/ sandstone/ Recapture Member/ Mesa County/ Ouray County/ Delta County/ Gunnison County/ Montrose County/ San Juan County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Salt Wash Member/
- Craig, L. C., Holmes, C. N., Freeman, V. L., and others, 1977
Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ member/ sandstone/ shale/ Colorado Plateau/ facies/ maps/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/
- Cross, C. W., 1907
Colorado/ Utah/ stratigraphy/ reconnaissance/ sandstone/ Colorado Plateau/
- Cross, C. W., and Larsen, E. S., 1915
stratigraphy/ La Plata Sandstone/ unconformity/ Precambrian/ San Juan Mountains/ Montrose County/ Gunnison County/ Igneous-metamorphic/ sandstone/ Colorado Plateau/ geology/
- Cumenge, E., and Friedel, C., 1899
carnotite/ mineralogy/ sandstone/ Colorado Plateau/
- Cumenge, E., and Friedel, C., 1899
carnotite/ mineralogy/ sandstone/ Colorado Plateau/
- Curran, T. F., 1911
Paradox Valley/ ore deposits/ carnotite/ Colorado Plateau/ sandstone/ Montrose County/
- Curran, T. F., 1913
Colorado Plateau/ ore deposits/ carnotite/ history/ Gilpin County/ Wood mine/ Montrose County/ sandstone/ pitchblende/ San Miguel County/ Mesa County/ Dolores County/ Routt County/ Paradox Valley/ Rio Blanco County/ Utah/ Australia/ Front Range/ Igneous-metamorphic/
- Curran, T. F., 1913
ore deposits/ carnotite/ San Miguel County/ history/ Gilpin County/ Wood mine/ Montrose County/ Colorado Plateau/ sandstone/ pitchblende/ Mesa County/ Dolores County/ Routt County/ Rio Blanco County/ Paradox Valley/ Utah/ Australia/ Front Range/ igneous-metamorphic/
- Dalrymple, J. W., Jr., Young, N. B., and Ullbarri, A., 1957
uranium/ ore deposits/ fracture properties/ fractures/ sandstone/ Bull Canyon district/ Montrose County/ San Miguel County/ Colorado Plateau/
- Dane, C. H., 1935
Morrison Formation/ uranium/ vanadium/ sandstone/ Colorado/ Colorado Plateau/ Utah/ Salt Valley anticline/ salt anticlines/ geology/
- Dare, W. L., 1959
Salt Wash Member/ ore deposits/ production/ methods/ economics/ costs/ Jurassic formations/ Morrison Formation/ Mesa County/ Montrose County/ sandstone/ mining/ Colorado Plateau/
- Dare, W. L., 1959
Montrose County/ Mesa County/ Mineral Joe mine/ G-1 mine/ sandstone/ mining methods/ mining costs/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/
- Dare, W. L., Lindblom, R. A., and Soule, J. H., 1955
Colorado Plateau/ ore deposits/ production/ geology/ mining/ sandstone/ costs/ uranium/
- Dare, W. L., Lindblom, R. A., and Soule, J. H., 1961
Mesa County/ Montrose County/ San Miguel County/ sandstone/ mining methods/ mining costs/ mine maps/ Colorado Plateau/ Veta Mad mine/
- Davidson, C. F., 1955
bituminous substances/ uranium/ concentration/ thucholite/ Colorado Plateau/ Colorado/ sandstone/ carbon compounds/ carbonaceous materials/
- Davidson, D. F., 1963
ore deposits/ oxidized/ sandstone/ composition/ selenium/ geochemistry/ Baggs area/ uranium/ Moffat County/ Colorado Plateau/
- Davis, W. E., 1951
Colorado Plateau/ Mesa County/ Montrose County/ carnotite/ exploration/ electrical resistivity/ sandstone/ geophysics/ ore deposits/
- Davis, W. E., 1953
Colorado Plateau/ geophysics/ exploration/ Salt Wash Member/ sandstone/ Gramlich mine/ Spud Patch area/ La Sal Creek area/ San Miguel County/ Mesa County/ Montrose County/ Colorado/ Utah/ Arizona/ Morrison Formation/
- Davis, W. E., 1953
Colorado Plateau/ geophysics/ exploration/ carnotite/ sandstone/ Morrison Formation/ Salt Wash Member/ drilling/ Mesa County/ San Miguel County/ Montrose County/
- Davis, W. E., Swartz, J. H., and Shuler, R. M., 1949
Calamity Mesa area/ Outlaw Mesa area/ Sage Flat area/ Mesa County/ geophysical investigations/ Calamity claims/ carnotite/ sandstone/ ore deposits/ geology/ Morrison Formation/ Salt Wash Member/ geophysics/ Colorado Plateau/
- Davis, W. T., 1956
Colorado Plateau/ ore deposits/ uranium/ vanadium/ drilling/ sandstone/ exploration/ Tenderfoot Mesa/ Mesa County/
- De Voto, R. H., 1961
South Park/ Park County/ sandstone/ Chaffee County/ geology/ ore deposits/
- De Voto, R. H., 1971
South Park/ Park County/ Chaffee County/ sandstone/ geology/ geologic history/ Antero Reservoir quadrangle/ ore deposits/
- De Voto, R. H., 1976
geologic environments/ sandstone/ igneous-metamorphic/ uranium/ ore deposits/ environments of formation/ geology/

- De Voto, R. H., and Mead, R. H., 1976
helium/ exploration/ guides/ uranium/ sandstone/
- De Voto, R. H., Land, C. B., Jr., Blizzard, T. R., and others, 1972
Colorado/ Wyoming/ Utah/ field trip/ guidebook/
Tertiary/ Cretaceous/ energy resources/ uranium/
sandstone/ ore deposits/ oil/ gas/ oil shale/
coal/ Denver basin/ Dawson Formation/ Laramie
Formation/ Dakota Sandstone/ Morrison Formation/
Weld County/ Douglas County/ Arapahoe County/
Elbert County/ Rocky Mountains/
- Del Rio, S. M., compiler, 1960
minerals/ resources/ Colorado/ uranium/ Colorado
Plateau/ San Miguel County/ Montrose County/
Mesa County/ Front Range/ Jefferson County/
Fremont County/ sandstone/ Igneous-metamorphic/
Moffat County/
- Denson, N. M., and others, 1959
uranium/ coal/ United States/ Denver basin/
Weld County/ Logan County/ Adams County/ Arapahoe
County/ organics/ sandstone/
- Dickson, R. E., Blair, R. G., Hart, H. R., and
others, 1955
ore deposits/ exploration/ Bull Canyon/ Montrose
County/ San Miguel County/ drilling/ sandstone/
ore favorability/ Colorado Plateau/
- Dodd, P. H., 1956
Jurassic/ Morrison Formation/ Colorado Plateau/
Wedding Bell mines/ Montrose County/ San Miguel
County/ County/ sandstone/ uranium/ vanadium/
ore controls/ ore deposits/
- Dodd, P. H., 1956
Jurassic/ Morrison Formation/ Colorado Plateau/
ore deposits/ Wedding Bell mines/ Montrose County/
County/ sandstone/ uranium/ vanadium/ ore controls/
San Miguel County/
- Doelling, H. H., 1969
Colorado/ Utah/ ore deposits/ mining/ Montrose
County/ sandstone/ Colorado Plateau/ uranium/
mineral resources/
- Douglas, R. F., 1953
Colorado Plateau/ ore deposits/ reserves/ Club
Mesa/ Montrose County/ sandstone/ Morrison Formation/
Salt Wash Member/ uranium/ vanadium/
- Downs, W. F., and Runnells, D. D., 1975
trace elements/ pyrite/ uranium/ ore deposits/
sandstone/ Colorado Plateau/ Colorado/
- Doyle, J. W., 1975
Garfield County/ Garfield mine/ Rifle mine/
sandstone/ uranium/ vanadium/ Colorado Plateau/
Entrada Sandstone/
- Duncan, D. C., compiler, 1953
ore deposits/ black shale/ Weber Formation/
exploration/ shale/ reconnaissance/ Belden Formation/
Paradox Member/ Eagle County/ Garfield County/
Gunnison County/ Hermosa Formation/ San Juan
County/ La Plata County/ Lake County/ Pony Express
- Limestone Member/ Ouray County/ Dakota Sandstone/
Archuleta County/ Pierre Shale/ Las Animas County/
Huerfano County/ Vermejo Formation/ limestone/
sandstone/ Front Range/ Colorado Plateau/
- Dunn, J. E., 1957
Marshall Pass/ ore deposits/ Saguache County/
uranium/ Gunnison County/ Chester fault/ Harding
Sandstone/ Igneous-metamorphic/ pegmatite/ limestone/
Belden Formation/ Leadville Limestone/
- Dutro, H. B., 1953
Pooch claims/ Rattlesnake claims/ Golden Eagle
claims/ Ute claims/ Colorado Plateau/ reserves/
exploration/ drilling/ sandstone/ ore deposits/
uranium/ vanadium/ Morrison Formation/ Salt
Wash Member/ Gypsum Valley district/ Montrose
County/
- Dutro, H. B., and Bivens, N. W., 1953
Pond claim/ Colorado Plateau/ reserves/ exploration/
drilling/ sandstone/ ore deposits/ uranium/
vanadium/ Morrison Formation/ Salt Wash Member/
Long Ridge group/ Gypsum Valley district/ San
Miguel County/
- Dutro, H. B., and Bivens, N. W., 1953
Paradox Member/ Hermosa Formation/ Colorado
Plateau/ reserves/ exploration/ drilling/ sandstone/
limestone/ ore deposits/ uranium/ vanadium/
Spectacle Point claims/ Gypsum Valley district/
San Miguel County/
- Dwornik, E. J., and Ross, M., 1955
Colorado Plateau/ uranium minerals/ bog iron
deposit/ Summit County/ sandstone/ photomicrographs/
electron microscope/ Montrose County/ Jo Dandy
mine/ Mesa County/ Matchless mine/ Colorado/
Utah/ South Dakota/ sandstone/ mineralogy/
- Dwornik, E. J., and Ross, M., 1955
Colorado Plateau/ minerals/ uranium/ electron
microscope/ photomicrographs/ Montrose County/
Mesa County/ Matchless mine/ Colorado/ Utah/
bog iron deposit/ Summit County/ sandstone/
Jo Dandy mine/ South Dakota/
- Eastman, H. P., 1953
detritus/ sandstone/ sphericity/ simulation/
transportation/ Shinarump Member/ river channels/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ Colorado Plateau/
- Ebbley, Norman, 1949
drilling/ Colorado Plateau/ uranium/ vanadium/
sandstone/ ore deposits/
- Ebbley, Norman, 1950
Colorado Plateau/ mines/ uranium/ Colorado/
Utah/ vanadium/ production problems/ Uravan
district/ Gateway district/ Rio Blanco County/
Mesa County/ Montrose County/ San Miguel County/
sandstone/ Garfield County/ Rifle mine/ Morrison
Formation/ Entrada Sandstone/ Dolores County/
- Eckel, E. B., 1949
geology/ ore deposits/ La Plata district/ economic
geology/ production/ Montezuma County/ La Plata
County/ Igneous-metamorphic/ sandstone/

- Eckel, E. B., 1961
description/ minerals/ Colorado/ uranium/ vanadium/
thorium/ Colorado Plateau/ Front Range/ sandstone/
Igneous-metamorphic/
- Elcher, L. J., 1953
drilling/ exploration/ ore deposits/ sandstone/
Montrose County/ minerals/ carnotite/ uranium/
vanadium/ Vanadium Co. property/ San Miguel
Bench/ Morrison Formation/ Salt Wash Member/
reserves/ Colorado Plateau/
- Elcher, L. J., 1953
exploration/ drilling/ Colorado Plateau/ sandstone/
reserves/ Spring Creek Mesa area/ Montrose County/
Morrison Formation/ Salt Wash Member/ geology/
uranium/ vanadium/ ore deposits/ Uravan district/
- Elcher, L. J., 1955
Mesa County/ Colorado/ Utah/ Gateway district/
Morrison Formation/ Salt Wash Member/ sandstone/
conglomerate/ uranium/ vanadium/ Colorado Plateau/
ore deposits/ Beaver Mesa area/ Brushy Basin
Member/
- Elcher, L. J., 1955
Mesa County/ Colorado/ Utah/ Gateway district/
Morrison Formation/ Salt Wash Member/ sandstone/
conglomerate/ uranium/ vanadium/ Colorado Plateau/
ore deposits/ Beaver Mesa area/ Brushy Basin
Member/
- Elcher, L. J., 1956
Mesa County/ Colorado/ Utah/ Gateway district/
Ajax mine/ uranium/ vanadium/ Morrison Formation/
Salt Wash Member/ Brushy Basin Member/ sandstone/
conglomerate/ La Sal mines/ Pack Rat No. 1 mine/
Lost Indian No. 2 mine/ Lumsden mines/ Colorado
Plateau/ ore deposits/ Beaver Mesa area/
- Elcher, L. J., and Bivens, N. W., 1955
Cedar Point mines/ Lumsden #1 and 2 mines/ Pack
Rat mine/ Rae Marie mines/ Colorado Plateau/
reserves/ exploration/ sandstone/ ore deposits/
uranium/ vanadium/ Salt Wash Member/ Beaver
Mesa area/ Mesa County/ Colorado/ Utah/ Morrison
Formation/
- Elcher, L. J., and Miller, G. A., 1956
Mesa County/ Colorado/ Utah/ Gateway district/
uranium/ vanadium/ Morrison Formation/ Brushy
Basin Member/ sandstone/ conglomerate/ Lumsden
mines/ Colorado Plateau/ ore deposits/ Beaver
Mesa area/ Salt Wash Member/
- Elcher, L. J., and Myers, A. R., 1954
Colorado Plateau/ exploration/ sandstone/ ore
deposits/ uranium/ vanadium/ Morrison Formation/
Salt Wash Member/ Beaver Mesa area/ Mesa County/
Colorado/ Utah/ Gateway district/
- Elcher, L. J., and Myers, A. R., 1970
maps/ drilling/ exploration/ Beaver Mesa area/
Mesa County/ Colorado/ Utah/ sandstone/ Colorado
Plateau/ Gateway district/ ore deposits/
- Elcher, L. J., Hedlund, D. C., and Miller, G. A.,
1957
- Beaver Mesa area/ Mesa County/ Colorado/ Utah/
Morrison Formation/ Salt Wash Member/ Brushy
Basin Member/ sandstone/ conglomerate/ Ajax
mine/ La Sal mines/ Pack Rat No. 1 mine/ Lumsden
mines/ map/ geology/ Colorado Plateau/ ore deposits/
Gateway district/
- Elcher, L. J., Hedlund, Donald C., and Miller,
G. A., 1956
Mesa County/ Colorado/ Utah/ Gateway district/
Salt Wash Member/ Brushy basin Member/ sandstone/
conglomerate/ Ajax mine/ La Sal mines/ Pack
Rat No. 1 mine/ Lost Indian No. 1 mine/ Lumsden
mines/ uranium/ vanadium/ geology/ map/ sections/
Colorado Plateau/ ore deposits/ Morrison Formation/
- Ekren, E. B., 1954
Bitter Creek mines/ Colorado Plateau/ reserves/
exploration/ sandstone/ ore deposits/ uranium/
vanadium/ Salt Wash Member/ Long Park area/
Montrose County/ Morrison Formation/
- Ekren, E. B., 1955
Ute Mountains/ ore deposits/ Montezuma County/
sandstone/ igneous-metamorphic/ volcanics/ uranium/
vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1956
Ute Mountains/ ore deposits/ Montezuma County/
sandstone/ igneous-metamorphic/ volcanics/ uranium/
vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1956
Ute Mountains/ ore deposits/ Montezuma County/
sandstone/ igneous-metamorphic/ volcanics/ uranium/
vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1957
Ute Mountains/ Montezuma County/ sandstone/
Salt Wash Member/ Entrada Sandstone/ uranium/
vanadium/ Sentinel Peak NW quadrangle/ geology/
map/ ore deposits/ Morrison Formation/ Colorado
Plateau/ igneous-metamorphic/
- Ekren, E. B., and Houser, F. N., 1957
Ute Mountains/ ore deposits/ Montezuma County/
sandstone/ igneous-metamorphic/ volcanics/ uranium/
vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1957
Ute Mountains/ ore deposits/ Montezuma County/
sandstone/ igneous-metamorphic/ volcanics/ uranium/
vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1958
Ute Mountains/ ore deposits/ porphyry/ petrology/
sandstone/ volcanics/ igneous-metamorphic/ uranium/
vanadium/ stratigraphy/ conglomerate/ Entrada
Sandstone/ Colorado Plateau/ Montezuma County/
- Ekren, E. B., and Houser, F. N., 1958
Ute Mountains/ Montezuma County/ stratigraphy/
structure/ ore deposits/ sandstone/ volcanics/
uranium/ vanadium/ Colorado Plateau/ geology/
Paradox basin/ igneous-metamorphic/
- Ekren, E. B., and Houser, F. N., 1959
Morrison Formation/ Salt Wash Member/ Montezuma
County/ Ute Mountains/ sandstone/ Colorado Plateau/

SANDSTONE, SILTSTONE

- uranium/ vanadium/ Sentinel Peak NE quadrangle/ map/ geology/
- Ekren, E. B., and Houser, F. N., 1959
Junction Creek Sandstone/ Morrison Formation/ Entrada Sandstone/ Montezuma County/ Ute Mountains/ sandstone/ Colorado Plateau/ uranium/ vanadium/ Moqui SE quadrangle/ map/ geology/ Salt Wash Member/
- Ekren, E. B., and Houser, F. N., 1959
Morrison Formation/ Salt Wash Member/ Montezuma County/ Ute Mountains/ sandstone/ Colorado Plateau/ uranium/ vanadium/ Cortez SW quadrangle/ map/ geology/
- Ekren, E. B., and Houser, F. N., 1959
Ute Mountains/ Montezuma County/ sandstone/ Morrison Formation/ Salt Wash Member/ Entrada Sandstone/ Colorado Plateau/ Igneous-metamorphic/ uranium/ vanadium/ Sentinel Peak NW quadrangle/ map/ geology/
- Ekren, E. B., and Houser, F. N., 1959
stratigraphy/ Cretaceous/ Jurassic/ sandstone/ conglomerate/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/ San Juan basin/
- Ekren, E. B., and Houser, F. N., 1965
geology/ petrology/ Ute Mountains/ Montezuma County/ sandstone/ Colorado Plateau/ Morrison Formation/ uranium/ vanadium/ economic geology/ Salt Wash Member/ Entrada Sandstone/ ore deposits/ Igneous-metamorphic/
- Elmore, R. T., 1955
Gunnison County/ Jack's Cabin prospect/ sedimentary rocks/ Igneous-metamorphic/ sandstone/ veins/
- Elston, D. P., and Botinelly, T., 1955
Montrose County/ Jo Dandy area/ mineralogy/ petrology/ geochemistry/ J. J. mine/ genesis/ geology/ uranium/ vanadium/ sandstone/ Morrison Formation/ Uravan district/ Colorado Plateau/ stratigraphy/ structure/ ore deposits/ paragenesis/
- Elston, D. P., and Botinelly, T., 1959
geology/ mineralogy/ J. J. mine/ Montrose County/ uranium/ vanadium/ sandstone/ Morrison Formation/ Uravan district/ Colorado Plateau/ ore deposits/ Jo Dandy area/
- Elston, D. P., and Haynes, D. D., 1955
Colorado Plateau/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Jo Dandy area/ Montrose County/ Uravan district/
- Elston, D. P., and Landis, E. R., 1960
sandstone/ unconformities/ Paradox Valley/ Gypsum Valley/ salt anticlines/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Dolores County/ Hermosa Formation/ stratigraphy/
- Elston, D. P., Flint, A. E., Haynes, D. D., and others, 1970
maps/ drilling/ exploration/ Jo Dandy area/

SANDSTONE, SILTSTONE

- Bull Canyon district/ Montrose County/ sandstone/ Colorado Plateau/ ore deposits/ Monogram Mesa area/
- Emerick, W. L., 1953
uranium/ vanadium/ drilling/ exploration/ Colorado Plateau/ Lost group area/ Gypsum Valley district/ San Miguel County/ sandstone/ Morrison Formation/ Salt Wash Member/ reserves/ Lost claims/ Rattlesnake claims/ Blue Raven claims/ ore deposits/
- Emerick, W. L., and Gaultier, J. L., 1953
Colorado Plateau/ reserves/ exploration/ sandstone/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ South Radium group area/ Slick Rock district/ San Miguel County/ ore deposits/
- Emerick, W. L., and Gaultier, J. L., 1953
Black Belle claim/ Colorado Malden claim/ Jessie claim/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Upper group area/ Slick Rock district/ San Miguel County/
- Emerick, W. L., and Gaultier, J. L., 1953
Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Salt Wash Member/ Ellison-Burro claims area/ Slick Rock district/ San Miguel County/ Morrison Formation/
- Emerick, W. L., and Gaultier, J. L., 1953
Georgeto claim/ Veta Glad claim/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Georgetown group/ Slick Rock district/ San Miguel County/
- Emerson, J. F., 1943
vanadium/ uranium/ sandstone/ Huerfano County/ Costilla County/ Huerfano Park district/ Raton basin/
- Emerson, J. F., 1945
uranium/ ore deposits/ vanadium/ geological surveys/ geography/ mining/ exploration/ tables/ maps/ Dolores Plateau area/ Colorado Plateau/ Montrose County/ County/ San Miguel County/ sandstone/ Bull Canyon district/
- Emerson, J. F., 1975
uranium/ Colorado/ Colorado Plateau/ sandstone/
- Emmons, S. F., 1905
Colorado Plateau/ red beds/ Dolores Formation/ Telluride/ Ouray County/ San Juan County/ copper/ sandstone/ veins/ ore deposits/
- Emmons, W. H., 1906
Cashin mine/ Montrose County/ copper/ production/ veins/ La Plata Sandstone/ sandstone/ Colorado Plateau/
- Ergun, Sabri, Donaldson, W. F., and Breger, I. A., 1960

- Colorado Plateau/ ore deposits/ mineral assemblages/ coal/ macerals/ vitrain/ physical properties/ chemical properties/ uranium/ organics/ sandstone/
- Erickson, R. L., Gott, G. B., Myers, A. T., and others, 1953
uranium/ metals/ crude oil/ asphalt/ shale/ bituminous substances/ Moffat County/ Jefferson County/ Rio Blanco County/ sandstone/
- Erickson, R. L., Myers, A. T., and Horr, C. A., 1952
uranium/ metals/ crude oil/ asphalt/ shale/ bituminous substances/ Moffat County/ Jefferson County/ Rio Blanco County/ sandstone/
- Erickson, R. L., Myers, A. T., and Horr, C. A., 1954
uranium/ metals/ crude oil/ asphalt/ shale/ bituminous substances/ Moffat County/ Jefferson County/ Rio Blanco County/ sandstone/
- Evans, H. T., Jr., 1954
crystallography/ uranium/ minerals/ vanadium/ illebegite/ Colorado Plateau/ Peanut mine/ Montrose County/ sandstone/ ore deposits/ Bull Canyon district/
- Evans, H. T., Jr., 1955
crystallography/ uranium/ minerals/ vanadium/ Colorado Plateau/ Peanut mine/ Bull Canyon district/ Montrose County/ sandstone/ ore deposits/
- Evans, H. T., Jr., 1959
Colorado Plateau/ ore deposits/ mineralogy/ vanadium/ Colorado/ uranium/ crystallography/ sandstone/ crystal chemistry/
- Evans, H. T., Jr., and Block, S., 1953
Colorado/ crystal structure/ chemistry/ montroselite/ Colorado Plateau/ vanadium/ diaspore group/ Montrose County/ crystallography/ sandstone/
- Evans, H. T., Jr., and Garrels, R. M., 1957
thermodynamic equilibria/ vanadium/ aqueous systems/ Colorado Plateau/ ore deposits/ paragenesis/ montroselite/ geochemistry/ Colorado/ Utah/ mineralogy/ sandstone/ Montrose County/ J. J. mine/ Peanut mine/ Bull Canyon district/ ground water/
- Evans, H. T., Jr., and Garrels, R. M., 1958
thermodynamic equilibria/ vanadium/ aqueous systems/ Colorado Plateau/ ore deposits/ paragenesis/ montroselite/ geochemistry/ Colorado/ Utah/ mineralogy/ sandstone/ Montrose County/ J. J. mine/ Peanut mine/ Bull Canyon district/ ground water/
- Evans, H. T., Jr., and Morse, M. E., 1958
haggite/ doloresite/ duttonite/ Montrose County/ mineralogy/ chemistry/ Colorado Plateau/ crystal structure/ crystallography/ vanadium oxides/ sandstone/
- Evans, R. D., and Goodman, C., 1941
radioactivity/ rocks/ Colorado/ uranium/ thorium/ radium/ analyses/ igneous-metamorphic/ sedimentary/ sandstone/
- Everhart, D. L., 1949
veins/ geologic environments/ geology/ uranium/ igneous-metamorphic/ sandstone/
- Everhart, D. L., 1950
veins/ redistribution/ oxidation zones/ uranium/ Colorado/ sandstone/
- Everhart, D. L., 1951
geology/ veins/ ore deposits/ minerals/ sandstone/ igneous-metamorphic/ mudstone/ Colorado Plateau/ phosphates/ pitchblende/ pegmatite/ carnotite/ Morrison Formation/ Entrada Sandstone/ Shinarump Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ asphalt/ limestone/ black shale/ Belgian Congo/ Canadian Shield/
- Everhart, D. L., 1954
Colorado Plateau/ sandstone/ Colorado/ New Mexico/ Utah/ Wyoming/ veins/ igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Jefferson County/ Australia/ South Africa/ Ontario/
- Everhart, D. L., 1954
classifications/ genesis/ uranium/ ore deposits/ sandstone/ igneous-metamorphic/
- Everhart, D. L., 1956
sandstone/ Colorado Plateau/ Front Range/ Copper King mine/ veins/ Larimer County/ Los Ochos mine/ Saguache County/ Caribou mine/ Boulder County/ Schwartzwalder mine/ Carroll mine/ Placerville district/ San Miguel County/ alteration/ pitchblende/ igneous-metamorphic/ Jefferson County/ Carroll mine/ structural tension/
- Everhart, D. L., 1956
pitchblende/ Colorado Plateau/ igneous-metamorphic/ granite/ Front Range/ Copper King mine/ Larimer County/ alteration/ Los Ochos mine/ Saguache County/ Caribou mine/ Carroll mine/ Boulder County/ San Miguel County/ ore deposits/ sandstone/ Placerville district/ Schwartzwalder mine/ Jefferson County/ structural tension/ United States/ Tertiary/ veins/ alteration/
- Everhart, D. L., and Wright, R. J., 1953
veins/ pitchblende/ geologic features/ sulfides/ Precambrian rocks/ Canadian shield/ Paleozoic/ Tertiary/ paragenesis/ alteration/ sandstone/ Africa/ Idaho/ Front Range/ Gilpin County/ Clear Creek County/ Boulder County/ Utah/ Colorado Plateau/ igneous-metamorphic/
- Farnum, Dwight, 1919
Colorado/ Utah/ Gateway district/ ore deposits/ resources/ carnotite/ uranium/ vanadium/ Mesa County/ sandstone/ Morrison Formation/ Colorado Plateau/
- Farnum, Dwight, 1919
Colorado/ Utah/ Gateway district/ ore deposits/ resources/ carnotite/ uranium/ vanadium/ Mesa County/ sandstone/ Morrison Formation/ Colorado Plateau/
- Fassett, J. E., and Hinds, J. S., 1971
geology/ fuel/ resources/ Fruitland Formation/ San Juan basin/ Montezuma County/ La Plata County/ Archuleta County/ Colorado/ uranium/ sandstone/ New Mexico/ shale/ Colorado Plateau/ Kirtland Shale/

- Finch, W. I., 1951
Mesa County/ carnotite/ uranium production/ sandstone/ Blue Mesa area/ reserves/ resources/ drilling/ core/ Colorado Plateau/ exploration/ ore deposits/
- Finch, W. I., 1951
Mesa County/ Blue Mesa area/ Moon Mesa area/ exploration/ drilling/ core/ carnotite/ uranium/ production/ sandstone/ Colorado Plateau/ drill data/ ore deposits/
- Finch, W. I., 1952
Colorado Plateau/ ore deposits/ geology/ ore guides/ exploration/ drilling/ minerals/ carnotite/ uranium/ production/ Blue Mesa area/ vanadium/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/ Mesa County/
- Finch, W. I., 1953
Colorado Plateau/ ore deposits/ resources/ Paleozoic/ Mesozoic/ sandstone/ Morrison Formation/ Chinle Formation/ Shinarump Member/ conglomerate/
- Finch, W. I., 1953
Colorado Plateau/ ore deposits/ resources/ exploration/ Shinarump Member/ conglomerate/ reconnaissance/ sandstone/
- Finch, W. I., 1953
Colorado Plateau/ ore deposits/ resources/ sandstone/
- Finch, W. I., 1953
uranium/ ore deposits/ Shinarump Member/ conglomerate/ Colorado Plateau/ Colorado/ sandstone/
- Finch, W. I., 1953
uranium/ ore deposits/ Shinarump Member/ conglomerate/ Colorado Plateau/ Colorado/ sandstone/
- Finch, W. I., 1953
bituminous substances/ ore deposits/ uranium/ Shinarump member/ conglomerate/ Chinle Formation/ sandstone/ resources/ geology/ Colorado Plateau/
- Finch, W. I., 1954
Colorado Plateau/ sandstone/ ore deposits/ geology/ Chinle Formation/ Shinarump Member/ conglomerate/ reserves/
- Finch, W. I., 1955
Colorado Plateau/ ore deposits/ uranium/ sandstone/ copper/ conglomerate/ ore-bearing formation/ limestone/ vanadium/ Rio Blanco County/ Garfield County/ Mesa County/ geology/ Delta County/ San Miguel County/ Dolores County/ Rifle mine/ Montezuma County/ La Plata County/ Greysill mine/ Placerville district/ Uravan district/ Gateway district/ map/ geology/
- Finch, W. I., 1956
Colorado Plateau/ ore deposits/ La Plata County/ production/ Triassic/ Chinle Formation/ shale/ sandstone/ conglomerate/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Garfield County/ Rio Blanco County/ geology/
- Finch, W. I., 1956
uranium/ terrestrial sedimentary rocks/ Maroon Formation/ sandstone/ Sangre de Cristo Formation/ Cucharas district/ Huerfano County/ Park County/ Garo deposit/ vanadium/ carnotite/ tyuyamunite/
- Finch, W. I., 1956
uranium/ terrestrial sedimentary rocks/ Maroon Formation/ sandstone/ Sangre de Cristo Formation/ Cucharas district/ Huerfano County/ Park County/ Garo deposit/ vanadium/ carnotite/ tyuyamunite/
- Finch, W. I., 1959
Colorado Plateau/ ore deposits/ production/ Triassic/ Chinle Formation/ fossil wood/ minerals/ structures/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ sandstone/ conglomerate/ shale/ Garfield County/ Rio Blanco County/ geology/
- Finch, W. I., 1967
Colorado Plateau/ Front Range/ Igneous-metamorphic/ geology/ Larimer County/ Jackson County/ Routt County/ Moffat County/ Garfield County/ Grand County/ Eagle County/ Boulder County/ Jefferson County/ Park County/ Mesa County/ Montrose County/ El Paso County/ San Miguel County/ Bent County/ Park County/ Saguache County/ Pueblo County/ Dolores County/ Las Animas County/ Huerfano County/ Costilla County/ Custer County/ San Juan County/ La Plata County/ Montezuma County/
- Finch, W. I., 1973
uranium/ thorium/ environment/ resources/ deposit types/ prospecting techniques/ production/ ore deposits/ exploration/ sandstone/ Igneous-metamorphic/
- Finch, W. I., Butler, A. P., Jr., Armstrong, F. C., and others, 1973
uranium/ geology/ ore deposits/ resources/ sandstone/ Igneous-metamorphic/
- Finch, W. I., Wright, J. C., and Sullivan, M. W., 1975
bibliography/ Colorado/ geology/ geophysical surveys/ ground water/ Kansas/ New Mexico/ Oklahoma/ stratigraphy/ Texas/ uranium/ ore deposits/ sandstone/ Baca County/ Las Animas County/
- Fischer, R. P., 1936
copper/ vanadium/ uranium/ silver/ ore deposits/ sedimentary deposits/ veins/ hydrothermal/ sandstone/ Igneous-metamorphic/ Entrada Sandstone/ San Miguel County/ Colorado/ Utah/ Colorado Plateau/
- Fischer, R. P., 1937
copper/ vanadium/ silver/ uranium/ sedimentary deposits/ Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ Montezuma County/ Dolores County/ San Miguel County/
- Fischer, R. P., 1942
vanadium/ production/ sandstone/ Morrison Formation/ Entrada Shinarump Member/ conglomerate/ ore deposits/ Dolores County/ San Miguel County/ Montrose County/ Colorado/ Utah/ Garfield County/ Colorado Plateau/ Entrada Sandstone/ Mesa County/

- Fischer, R. P., 1943
Colorado/ Utah/ vanadium/ ore deposits/ uranium/
radium/ Morrison Formation/ Entrada Sandstone/
Shinarump Member/ sandstone/ conglomerate/ Mesa
County/ Montrose County/ San Miguel County/
Garfield County/ Dolores County/ Colorado Plateau/
- Fischer, R. P., 1944
vanadium/ Colorado/ Utah/ Colorado Plateau/
uranium/ Entrada Sandstone/ sandstone/ Garfield
County/ San Miguel County/
- Fischer, R. P., 1947
Colorado Plateau/ exploration/ drilling/ sandstone/
carnotite/ recommendations/ Garfield County/
San Miguel County/ Montrose County/ Mesa County/
- Fischer, R. P., 1947
sandstone/ Colorado Plateau/ vanadium/ genesis/
ore deposits/ Garfield County/ San Miguel County/
- Fischer, R. P., 1948
Morrison Formation/ Entrada Sandstone/ Placerville
district/ Colorado Plateau/ production potential/
uranium/ vanadium/ ore deposits/ Colorado/ Utah/
New Mexico/ Arizona/ sandstone/ Uravan district/
Rifle district/ Garfield County/ Dolores County/
San Miguel County/ Montrose County/ Slick Rock
district/
- Fischer, R. P., 1949
Colorado Plateau/ uranium/ vanadium/ ore deposits/
genesis/ structure/ ground water/ sandstone/
Mesa County/ Montrose County/ Dolores County/
San Miguel County/
- Fischer, R. P., 1949
carnotite/ ore deposits/ Federal funding/ sandstone/
Colorado Plateau/ exploration/
- Fischer, R. P., 1950
Colorado Plateau/ ore deposits/ sandstone/ uranium/
Morrison Formation/ Rio Blanco County/ Garfield
County/ Mesa County/ Delta County/ Montrose
County/ Dolores County/ Montezuma County/ La
Plata County/ Archuleta County/ ore guides/
Garfield County/ San Miguel County/
- Fischer, R. P., 1950
Morrison Formation/ Colorado Plateau/ Mesa County/
Dolores County/ Montrose County/ San Miguel
County/ Garfield County/ Rio Blanco County/
sandstone/ ore rolls/ carnotite/ geology/ ore
deposits/ mineralogy/ alteration/ Club mine/
uranium/ radium/ vanadium/ Entrada Sandstone/
genesis/
- Fischer, R. P., 1950
uranium/ vanadium/ potential/ Colorado Plateau/
sandstone/ ore deposits/ reserves/ analyses/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/
- Fischer, R. P., 1951
Colorado Plateau/ Uravan district/ exploration/
drilling/ sandstone/ ore deposits/ Morrison
Formation/ Montrose County/ Mesa County/ Dolores
County/ San Miguel County/
- Fischer, R. P., 1952
reserves/ resources/ Charles T. claims/ uranium/
Club Mesa area/ Maverick claims/ Radium claims/
Upper group/ Georgetown claims/ vanadium/ Colorado
Plateau/ carnotite/ Morrison Formation/ sandstone/
Dolores County/ San Miguel County/ Mesa County/
Montrose County/
- Fischer, R. P., 1955
Colorado Plateau/ hot springs/ uranium/ vanadium/
geochemistry/ igneous-metamorphic/ sedimentary
rocks/ veins/ sandstone/ ore deposits/ San Miguel
County/ Mesa County/ Montrose County/ Dolores
County/ Garfield County/
- Fischer, R. P., 1955
vanadium/ uranium/ geochemistry/ Colorado Plateau/
igneous-metamorphic/ sedimentary rocks/ veins/
sandstone/ ore deposits/ San Miguel County/
Mesa County/ Montrose County/ Dolores County/
Garfield County/ hot springs/
- Fischer, R. P., 1955
veins/ igneous-metamorphic/ sedimentary rocks/
sandstone/ vanadium/ uranium/ ore deposits/
Colorado Plateau/ geochemistry/ San Miguel County/
Mesa County/ Montrose County/ Dolores County/
Garfield County/ hot springs/
- Fischer, R. P., 1955
Durango district/ Placerville district/ Rico
district/ uranium/ vanadium/ chromium/ Delta
County/ Garfield County/ La Plata County/ Ouray
County/ Rio Blanco County/ San Juan County/
San Miguel County/ minerals/ marlposite/ sandstone/
Entrada Sandstone/ regional relations/ ore deposits/
Colorado Plateau/ Mesa County/ Moffat County/
Montezuma County/ Montrose County/ Rifle area/
Dolores County/
- Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/
genesis/ mineralogy/ Morrison Formation/ Entrada
Sandstone/ sandstone/ Mesa County/ copper/ Montrose
County/ San Miguel County/ Dolores County/ San
Juan County/ Uravan district/
- Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/
genesis/ mineralogy/ Morrison Formation/ Entrada
Sandstone/ sandstone/ Mesa County/ copper/ Montrose
County/ San Miguel County/ Dolores County/ San
Juan County/ Uravan district/
- Fischer, R. P., 1956
ore deposits/ Colorado Plateau/ uranium/ vanadium/
localization/ Entrada Sandstone/ sandstone/
Rifle district/ Garfield County/ genesis/ San
Miguel County/ La Plata County/ Placerville
district/ Rico district/ Dolores County/
- Fischer, R. P., 1956
vanadium/ uranium/ ore deposits/ Colorado Plateau/
sandstone/ Garfield County/ San Miguel County/
La Plata County/ Rifle district/ Placerville
district/ Rico district/ Durango district/ genesis/
localization/ Dolores County/ Entrada Sandstone/

- Fischer, R. P., 1957
ore deposits/ Colorado Plateau/ uranium/ vanadium/
localization/ genesis/ Rifle Creek area/ Garfield
County/ Entrada Sandstone/ sandstone/ geology/
stratigraphy/ mineralogy/
- Fischer, R. P., 1960
vanadium/ uranium/ mineralogy/ Rifle mine/ Rifle
Creek area/ Garfield County/ ore deposits/ Entrada
Sandstone/ Morrison Formation/ sandstone/ Colorado
Plateau/
- Fischer, R. P., 1962
Colorado/ vanadium/ sandstone/ Entrada Sandstone/
Garfield County/ United States/ Colorado Plateau/
- Fischer, R. P., 1964
Colorado/ vanadium/ sandstone/ Colorado Plateau/
- Fischer, R. P., 1968
geology/ structure/ genesis/ sandstone/ San
Miguel County/ Montrose County/ Mesa County/
Dolores County/ Chinle Formation/ Morrison Formation/
Montezuma County/ La Plata County/ San Juan
County/ Garfield County/ Rio Blanco County/
Moffat County/ Entrada Sandstone/ production/
stratigraphy/ Colorado Plateau/ ore deposits/
- Fischer, R. P., 1968
San Miguel County/ Entrada Formation/ sandstone/
vanadium/ Placerville district/ ore deposits/
guidebook/ Colorado Plateau/
- Fischer, R. P., 1970
Colorado/ Wyoming/ Colorado Plateau/ genesis/
supergene processes/ ore deposits/ sandstone/
configuration/ distribution/ uranium/ Arizona/
mineralogy/ New Mexico/ Utah/ Mesa County/ Montrose
County/ Montezuma County/ Dolores County/ San
Miguel County/ Rio Blanco County/
- Fischer, R. P., 1973
ore guides/ uranium districts/ mineral belts/
exploration/ future/ ore deposits/ Colorado
Plateau/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/
- Fischer, R. P., 1974
exploration/ ore guides/ uranium/ ore deposits/
Colorado Plateau/ Uravan district/ genesis/
sandstone/ Mesa County/ Montrose County/ San
Miguel County/ Dolores County/
- Fischer, R. P., and Blackman, D. H., 1949
Colorado Plateau/ ore guides/ genesis/ Morrison
Formation/ carnotite/ sandstone/ Mesa County/
Montrose County/ Dolores County/ San Miguel
County/ ore deposits/ Calamity group/ geology/
structure/
- Fischer, R. P., and Blackman, D. H., 1949
Colorado Plateau/ geobotany/ sandstone/ carnotite/
Calamity group/ ore deposits/ geology/ mineralogy/
genesis/ ore guides/ stratigraphy/ ground water/
Morrison Formation/ Mesa County/ Lower group/
San Miguel County/ vanadium/ Club mine/ Montrose
County/ Yellow Cat group/ geochemistry/
- Fischer, R. P., and Butler, A. P., Jr., 1947
Colorado Plateau/ exploration/ drilling/ reserves/
resources/ uranium/ vanadium/ sandstone/ ore
deposits/ carnotite/ Morrison Formation/ Entrada
Sandstone/ Placerville district/ San Miguel
County/ Utah/ Arizona/
- Fischer, R. P., and Butler, A. P., Jr., 1947
Colorado Plateau/ exploration/ drilling/ ore
deposits/ reserves/ resources/ uranium/ vanadium/
sandstone/ carnotite/ Morrison Formation/ Entrada
Sandstone/ Placerville district/ San Miguel
County/ Utah/ Arizona/
- Fischer, R. P., and Hilpert, L. S., 1951
Calamity Mesa/ Club Mesa/ Long Park/ Outlaw
Mesa/ Mesa County/ Montrose County/ San Miguel
County/ ore guides/ production/ Dolores County/
Uravan mineral belt/ sandstone/ ore deposits/
Morrison Formation/ Colorado Plateau/ carnotite/
exploration/ geology/ vanadium/ uranium/ Uravan
district/
- Fischer, R. P., and Hilpert, L. S., 1951
Calamity Mesa/ Club Mesa/ Long Park/ Outlaw
Mesa/ Mesa County/ Montrose County/ San Miguel
County/ ore guides/ production/ Dolores County/
Uravan mineral belt/ sandstone/ Morrison Formation/
Colorado Plateau/ ore deposits/ carnotite/ exploration/
geology/ vanadium/ uranium/ Uravan district/
- Fischer, R. P., and Hilpert, L. S., 1952
Uravan mineral belt/ ore deposits/ carnotite/
Mesa County/ Montrose County/ Outlaw Mesa/ Calamity
Mesa/ Club Mesa/ Long Park/ exploration/ geology/
sandstone/ Colorado Plateau/ Morrison Formation/
uranium/ Uravan district/ Dolores County/ San
Miguel County/ ore guides/ production/ vanadium/
- Fischer, R. P., and Stewart, J. H., 1960
bed distribution/ lithology/ sandstone/ uranium/
vanadium/ copper/ Colorado/ Morrison Formation/
Colorado Plateau/ ore deposits/ San Miguel County/
Garfield County/ Entrada Sandstone/
- Fischer, R. P., and Stewart, J. H., 1961
copper/ vanadium/ uranium/ ore deposits/ sandstone/
Colorado Plateau/ Entrada Sandstone/ geochemistry/
San Miguel County/ Garfield County/
- Fischer, R. P., Burbank, W. S., Cannon, H. L.,
and others, 1946
Colorado/ mineral deposits/ map/ Colorado Plateau/
sandstone/ Front Range/ igneous-metamorphic/
ore deposits/
- Fischer, R. P., Haff, J. C., and Rominger, J. R.,
1943
vanadium/ uranium/ Placerville district/ San
Miguel County/ sandstone/ Entrada Sandstone/
ore deposits/ Colorado Plateau/
- Fischer, R. P., Haff, J. C., and Rominger, J. R.,
1947
uranium/ ore deposits/ San Miguel County/ vanadium/
sandstone/ Entrada Sandstone/ Colorado Plateau/
Placerville district/

- Fischer, R. P., Hilpert, L. S., Schumacher, J. I., and others, 1951
Investigations/ carnotite/ ore deposits/ sandstone/ Colorado Plateau/ Morrison Formation/ Chinle Formation/ Entrada Sandstone/ San Miguel County/ Mesa County/ Dolores County/ Garfield County/
- Fischer, R. P., Stokes, W. L., and Smith, L. E., 1944
Rifle mine/ Garfield mine/ uranium/ vanadium/ Garfield County/ Entrada Sandstone/ sandstone/ geology/ Rifle Creek area/ Colorado Plateau/ ore deposits/
- Fischer, R. P., Stokes, W. L., and Smith, L. E., 1945
Garfield County/ vanadium/ Entrada Sandstone/ sandstone/ uranium/ geology/ Rifle Creek area/ Rifle mine/ Garfield mine/ Colorado Plateau/ ore deposits/
- Fleck, Herman, 1908
pitchblende/ Gilpin County/ Igneous-metamorphic/ uranium/ vanadium/ ore deposits/ Placerville district/ sandstone/ San Miguel County/ Front Range/ rare metals/ Entrada Sandstone/
- Fleck, Herman, 1908
rare elements/ vanadium/ uranium/ importance/ Gilpin County/ Front Range/ Igneous-metamorphic/ Placerville district/ sandstone/ San Miguel County/ ore deposits/ Colorado Plateau/
- Fleck, Herman, 1909
Gilpin County/ ore deposits/ pitchblende/ production/ vanadium/ Placerville district/ San Miguel County/ rare metals/ uranium/ Entrada Sandstone/ sandstone/ Igneous-metamorphic/ Front Range/ Colorado Plateau/
- Fleck, Herman, 1909
uranium/ ore deposits/ rare metals/ pitchblende/ San Miguel County/ Placerville district/ vanadium/ Entrada Sandstone/ sandstone/ Colorado Plateau/
- Fleck, Herman, 1909
ore deposits/ uranium/ vanadium/ Colorado/ sandstone/ Colorado Plateau/ Front Range/ Igneous-metamorphic/
- Fleck, Herman, 1909
Park County/ Garo district/ vanadium/ uranium/ sandstone/ ore deposits/
- Fleck, Herman, 1916
ore deposits/ production/ rare metals/ tungsten/ molybdenum/ vanadium/ uranium/ Colorado Plateau/ Placerville district/ San Miguel County/ sandstone/ Front Range/ Gilpin County/ Igneous-metamorphic/
- Fleck, Herman, and Haldane, W. G., 1907
uranium/ vanadium/ Colorado Plateau/ San Miguel County/ Garfield County/ sandstone/ ore deposits/
- Fleck, Herman, and Haldane, W. G., 1908
San Miguel County/ Placerville district/ carnotite/ analyses/ uranium/ vanadium/ radioactivity/ sandstone/ Colorado Plateau/
- Fleck, Herman, and Haldane, W. G., 1909
carnotite/ uranium/ vanadium/ radioactivity/ Dolores County/ Montrose County/ Mesa County/ San Miguel County/ sandstone/ Colorado Plateau/
- Fleck, Herman, and Haldane, W. G., 1909
carnotite/ uranium/ vanadium/ radioactivity/ Dolores County/ Montrose County/ Mesa County/ San Miguel County/ sandstone/ Colorado Plateau/
- Fleischer, Michael, 1953
abundances/ elements/ estimates/ uranium/ vanadium/ sandstone/ Igneous-metamorphic/
- Fleischer, Michael, and Harder, J. O., 1945
niobium/ tantalum/ minerals/ annotated bibliography/ pegmatites/ placers/ uranium/ mineralogy/ Leyden coal mine/ Jefferson County/ coal/ quartz-carnotite veins/ indium/ sandstone/ veins/ Igneous-metamorphic/
- Flint, A. E., 1954
Paradox Valley/ Bull Canyon district/ Colorado Plateau/ Monogram Mesa area/ Montrose County/ reserves/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ exploration/ Salt Wash Member/
- Flint, A. E., 1955
Montrose County/ Monogram Mesa/ exploration/ drilling/ reserves/ resources/ Mineral Joe mine/ Bull Canyon district/ uranium/ vanadium/ Colorado Plateau/ sandstone/ ore deposits/ Morrison Formation/ Salt Wash Member/
- Flint, A. E., 1955
Bull Canyon district/ Montrose County/ San Miguel County/ sandstone/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/
- Flint, A. E., Wallace, R. M., and Holzie, A. F., 1955
Bull Canyon quadrangle/ Dry Creek Canyon/ Wild Steer Mesa/ drilling/ exploration/ reserves/ Monogram Mesa area/ Montrose County/ Colorado Plateau/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Foote, R. S., and Page, L. R., 1956
techniques/ exploration/ uranium/ thorium/ geology/ geochemistry/ geophysics/ drilling/ Colorado Plateau/ sandstone/
- Foshag, W. F., and Hess, F. L., 1927
rossite/ metarossite/ vanadates/ mineralogy/ vanadium/ Colorado Plateau/ sandstone/
- Foster, M. D., 1946
analyses/ vanadium/ chemistry/ mineralogy/ ores/ minerals/ sandstone/ Colorado Plateau/ geochemistry/
- Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ clay mineralogy/ uranium/ vanadium/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Four Corners Geological Society, 1952
Colorado/ Arizona/ Utah/ New Mexico/ ore deposits/ geology/ uranium/ sandstone/ Colorado Plateau/

- Four Corners Geological Society, 1960
Colorado Plateau/ Dolores County/ San Miguel County/ Montrose County/ sandstone/ sediments/ geology/ structures/ Paradox basin/ oil/ gas/ uranium/
- Franklin, J.C., and Marquardt, R. F., 1976
radon/ uranium mining/ environmental radiation/ Colorado Plateau/ data acquisition/ radiation monitoring/ uranium mines/ Twilight mine/ Montrose County/ sandstone/
- Freeman, H. D., 1935
uranium/ vanadium/ Triassic/ Jurassic/ sandstone/ Colorado/ Utah/ Colorado Plateau/ ore deposits/ Dolores County/ Montrose County/ San Miguel County/
- Friedel, Charles, and Cumenge, E., 1899
carnotite/ Colorado/ sandstone/ Colorado Plateau/ minerals/
- Friedel, Charles, and Cumenge, E., 1899
carnotite/ Colorado/ sandstone/ Colorado Plateau/ minerals/
- Friedel, Charles, and Cumenge, E., 1899
carnotite/ Colorado/ sandstone/ Colorado Plateau/ minerals/
- Friedel, Charles, and Cumenge, E., 1899
carnotite/ Colorado/ sandstone/ Colorado Plateau/ minerals/
- Froelich, A. J., 1953
Colorado Plateau/ ore deposits/ exploration/ absorber plants/ geobotanical prospecting/ Shinarump Member/ conglomerate/ Utah/ Deer Flat/ Elk Ridge/ New Mexico/ sandstone/ geobotany/
- Fussler, K. H., 1916
carnotite/ Colorado/ Colorado Plateau/ sandstone/ trace elements/ actinium/ uranium/
- Gabelman, J. W., 1958
Colorado Plateau/ Uravan district/ mineral belts/ structure/ Montrose County/ San Miguel County/ Dolores County/ sandstone/ alterations/ tectonic control/
- Gabelman, J. W., and Boyer, W. H., 1958
Colorado/ Arizona/ ore deposits/ mineralization/ feeder structures/ alteration/ mineral zones/ Colorado Plateau/ sandstone/
- Gabelman, J. W., and Boyer, W. H., 1974
exploration/ status/ uranium/ technology/ history/ pitchblende/ radium/ vanadium/ Colorado Plateau/ Front Range/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/ Moffat County/ Jefferson County/ sandstone/ Igneous-metamorphic/ shale/
- Gale, H. S., 1907
Rio Blanco County/ Coal Creek district/ ore deposits/ carnotite/ areal geology/ coal/ sandstone/ Colorado Plateau/
- Gale, H. S., 1908
Routt County/ carnotite/ ore deposits/ sandstone/ structural geology/ stratigraphy/ Yampa Plateau/
- Garrels, R. M., 1953
thermodynamics/ vanadium oxides/ uranium/ vanadium/ ore deposits/ Colorado Plateau/ Colorado/ geochemistry/ sandstone/
- Garrels, R. M., 1953
Colorado Plateau/ ore deposits/ carnotite/ genesis/ weathering/ transport/ deposition/ Paradox Valley/ Uravan district/ Montrose County/ sandstone/ San Miguel County/ Mesa County/ geology/
- Garrels, R. M., 1954
Colorado Plateau/ oxidation state/ uranium/ vanadium/ ore deposits/ minerals/ sandstone/ thermodynamics/ uranium oxides/ Colorado/
- Garrels, R. M., 1954
thermodynamics/ uranium oxides/ oxidation state/ Colorado Plateau/ Colorado/ geochemistry/ ore deposits/ vanadium/ uranium/ minerals/ sandstone/
- Garrels, R. M., 1954
weathering/ transportation/ deposition/ Jo Dandy area/ Colorado Plateau/ Mineral Joe mine/ Montrose County/ sandstone/ Uravan district/ San Miguel County/ ore deposits/
- Garrels, R. M., 1954
Colorado Plateau/ weathering/ transportation/ deposition/ Paradox Valley/ Uravan district/ Montrose County/ sandstone/ Jo Dandy group/ Mineral Joe mine/ clays/ Long Park/ San Miguel County/ ore deposits/
- Garrels, R. M., 1955
Colorado Plateau/ ore deposits/ weathering/ transportation/ deposition/ sandstone/ Mineral Joe mine/ Jo Dandy area/ Uravan district/ Montrose County/ geochemistry/ San Miguel County/
- Garrels, R. M., 1955
Colorado Plateau/ ore deposits/ weathering/ sandstone/ genesis/ uranium/ Montrose County/ San Miguel County/
- Garrels, R. M., 1955
Colorado Plateau/ ore deposits/ oxidation state/ uranium oxides/ thermodynamics/ vanadium/ ore deposits/ minerals/ sandstone/
- Garrels, R. M., 1959
minerals/ oxidation state/ ore deposits/ Colorado Plateau/ vanadium/ geochemistry/ mineralogy/ uranium/ Mineral Joe No. 1 mine/ Montrose County/ Virgin No. 34 mine/ sandstone/
- Garrels, R. M., and Christ, C. L., 1955
crystal chemistry/ ore deposits/ uranium/ Colorado Plateau/ crystallography/ oxidation/ sandstone/
- Garrels, R. M., and Christ, C. L., 1955
crystal chemistry/ oxidation/ uranium/ ores deposits/ Colorado Plateau/ crystallography/ sandstone/

- Garrels, R. M., and Christ, C. L., 1956
Colorado Plateau/ minerals/ uranium/ oxidation/
uraninite/ coffinite/ mineralogy/ crystallography/
sandstone/ ground water/ carnotite/
- Garrels, R. M., and Christ, C. L., 1959
oxidation/ reduction/ ore deposits/ Colorado
Plateau/ geochemistry/ uranium/ minerals/ uraninite/
coffinite/ mineralogy/ crystallography/ sandstone/
ground water/ carnotite/
- Garrels, R. M., and Larsen, E. S., 3d, compilers,
1959
Colorado Plateau/ ore deposits/ mineralogy/
geochemistry/ sandstone/ ground water/ clay/
mudstone/ organics/ Peanut mine/ J. J. mine/
Montrose County/ Rifle mine/ Garfield mine/
Moffat County/ Rio Blanco County/ Mesa County/
Delta County/ San Miguel County/ Dolores County/
La Plata County/ Montezuma County/ Archuleta
County/
- Garrels, R. M., and Pommer, A. M., 1956
Colorado Plateau/ oxidation/ reduction/ ore
deposits/ organics/ uraninite/ pyrite/ sandstone/
geochemistry/ San Miguel County/ Garfield County/
Montrose County/ Mesa County/
- Garrels, R. M., and Pommer, A. M., 1959
oxidation/ reduction/ ores/ minerals/ geochemistry/
ore deposits/ mineralogy/ Colorado Plateau/
sandstone/ San Miguel County/ Mesa County/ Montrose
County/ Garfield County/
- Garrels, R. M., and Richter, D. H., 1955
thermodynamics/ uranium oxides/ oxidation states/
Colorado Plateau/ ore deposits/ San Miguel County/
genesis/ sandstone/ Montrose County/ Garfield
County/ Mesa County/
- Garrels, R. M., and Richter, D. H., 1955
carbon dioxide/ uranium/ ore deposits/ ore-forming
fluids/ Colorado Plateau/ sandstone/ geochemistry/
- Garrels, R. M., and Richter, D. H., 1957
Colorado Plateau/ ore deposits/ theoretical
studies/ genesis/ chemical properties/ geochemistry/
sandstone/
- Garrels, R. M., Larsen, E. S., 3d, Pommer, A. M.,
and others, 1957
Mineral Joe No. 1 mine/ mineralogy/ minerals/
oxidation/ ore deposits/ Colorado Plateau/ vanadium/
geochemistry/ uranium/ Montrose County/ sandstone/
Virgin No. 3 mine/ carnotite/ Long Park area/
Jo Dandy area/
- Gent, C. A., 1976
bibliography/ annotated/ selenium/ geology/
Colorado/ Plateau/ sandstone/
- George, D'Arcy, 1949
uranium/ thorium/ mineralogy/ hypogene/ supergene/
rare earth minerals/ chemistry/ pegmatites/
sandstone/ placers/ black shales/ igneous-metamorphic/
Colorado Plateau/ Front Range/
- George, R. D., 1917
minerals/ rocks/ Colorado/ occurrences/ uses/
- Colorado Plateau/ sandstone/ igneous-metamorphic/
uranium/ vanadium/ radium/ carnotite/ pitchblende/
Jefferson County/ Gilpin County/ Front Range/
Montrose County/ San Miguel County/ Dolores
County/ Garfield County/ Rio Blanco County/
Routt County/ Boulder County/
- Gerhard, L. C., and Mark, Anson, 1968
Pueblo County/ Custer County/ Wet Mountains/
Paleozoic/ Mesozoic/ geology/ sandstone/ guidebook/
Fremont County/ igneous-metamorphic/ alkalic
igneous rocks/
- Gilbert, C. C., 1954
resources/ sandstone/ Uravan district/ Morrison
Formation/ Mesa County/ Montrose County/ Gateway
district/ Gypsum Valley district/ Slick Rock
district/ Colorado Plateau/ Salt Wash Member/
Dolores County/ San Miguel County/ Paradox district/
- Gilbert, C. C., 1954
ore deposits/ ore distribution/ Colorado Plateau/
sandstone/ Morrison Formation/ Salt Wash Member/
Bull Canyon district/ Gypsum Valley district/
Slick Rock district/ San Miguel County/ Montrose
County/
- Gilbert, G. K., 1875
Colorado Plateau/ sandstone/ geology/
- Gilbert, G. K., 1876
Colorado Plateau/ sandstone/ geology/
- Girdley, W. A., Flook, J. E., and Harris, R. E., 1975
spectroscopy/ ore deposits/ uranium/ vanadium/
lithology/ mineralogy/ sandstone/ subsurface
stratigraphy/ Morrison Formation/ Sage Plain
area/ Colorado Plateau/ Utah/ Colorado/ Dolores
County/ Montezuma County/ La Plata County/ San
Miguel County/
- Goldenstein, S. J., 1957
economic map/ Mount Waas quadrangle/ Utah/ Colorado/
Mesa County/ sandstone/ ore deposits/ resources/
Colorado Plateau/
- Goldstein, E. H., 1957
ore deposits/ uraninite/ Cretaceous/ Jefferson
County/ Dakota Sandstone/ geology/ uranium/
igneous-metamorphic/ sandstone/ genesis/ Morrison
(town of)/
- Gordon, E. D., Withington, C. F., and Dow, V. T.,
1953
sample collectors/ drilling/ cuttings/ Colorado
Plateau/ sandstone/ Morrison Formation/ equipment/
- Gott, G. B., 1950
Leyden Ridge/ Jefferson County/ Leyden uranium
prospect/ Old Leyden coal mine/ coal/ ore deposits/
geology/ genesis/ reserves/ sandstone/ Front
Range/
- Gott, G. B., 1951
Park County/ minerals/ calciovolborthite/ carnotite/
volborthite/ Shirley May deposit/ Garo deposit/
uranium/ sandstone/ analyses/ ore deposits/

- Gott, G. B., and Erickson, R. L., 1951
reconnaissance/ radioactive materials/ sandstone/
copper/ New Mexico/ Colorado/ Utah/ Idaho/ Wyoming/
uranium/ ore deposits/ Cashin mine/ Montrose
County/ Colorado Plateau/
- Gott, G. B., and Erickson, R. L., 1952
Colorado Plateau/ New Mexico/ Colorado/ Utah/
Idaho/ Wyoming/ reconnaissance/ Montrose County/
Cashin mine/ sandstone/ ore deposits/ fault
breccia/ igneous-metamorphic/ uranium/ copper/
exploration/ bituminous substances/ asphaltite/
Shinarump Member/ Wingate Sandstone/ conglomerate/
- Gott, G. B., and Erickson, R. L., 1952
ore deposits/ exploration/ copper/ New Mexico/
Colorado/ Utah/ Idaho/ Wyoming/ reconnaissance/
bituminous substances/ Cashin mine/ Montrose
County/ sandstone/ uranium/ asphaltite/ Shinarump
Member/ Wingate Sandstone/ conglomerate/ fault
breccia/ Colorado Plateau/
- Gott, G. B., Wyant, D. G., and Beroni, E. P., 1952
Front Range/ ore deposits/ shale/ black shale/
lignite/ limestone/ organics/ sandstone/ coal/
Leyden coal mine/ Jefferson County/ uranium/
- Granger, H. C., and Warren, C. G., 1969
sulfur compounds/ uranium/ ore deposits/ sandstone/
roll-type ore/ chemistry/ Wyoming/ New Mexico/
genesis/ Colorado Plateau/
- Griffiths, J. C., 1952
sampling/ collection/ Salt Wash Member/ Colorado/
Utah/ Colorado Plateau/ Jurassic/ clays/ Bull
Canyon district/ sandstone/ Montrose County/
San Miguel County/ Polar Mesa/ Blue Mesa/ Paradox
Valley/ sediments/ Morrison Formation/
- Griffiths, J. C., 1954
Colorado Plateau/ ore deposits/ exploration/
sediments/ sandstone/ mudstone/ Montrose County/
San Miguel County/ Salt Wash Member/ Morrison
Formation/ Jurassic/ quantitative analysis/
- Griffiths, J. C., 1954
Morrison Formation/ Salt Wash Member/ sediments/
sandstone/ textures/ grain size/ mudstone/ Jurassic/
Colorado/ Utah/ Colorado Plateau/ Bull Canyon
district/ uranium/ vanadium/ Entrada Sandstone/
Arizona/ grain fabric/ Montrose County/ Shinarump
Member/ petrography/ San Miguel County/
- Griffiths, J. C., 1957
Salt Wash Member/ sandstone/ mudstone/ Morrison
Formation/ Jurassic/ Bull Canyon District/ Monogram
Mesa/ San Miguel County/ Colorado/ Utah/ Arizona/
Plateau/ statistics/ petrography/ ore guides/
exploration/ sand grain studies/ ore deposits/
Montrose County/ Colorado Plateau/
- Griffiths, J. C., and Singer, D. A., 1969
ore deposits/ ore bodies/ geometry/ sandstone/
- Griffiths, J. C., Cochran, J. A., Groff, D. W.,
and Kahn, J. S., 1953
lithology/ analysis/ Salt Wash Member/ Jurassic/
sandstone/ mudstone/ cores/ uranium/ vanadium/
limonite/ Montrose County/ San Miguel County/
spectrometry/ Bull Canyon district/ Morrison
Formation/ Colorado Plateau/
- Griffiths, J. C., Cochran, J. A., Groff, D. W.,
and Kahn, J. S., 1954
Salt Wash Member/ Morrison Formation/ Jurassic/
sandstone/ mudstone/ Montrose County/ San Miguel
County/ thin sections/ Colorado/ Utah/ limonite/
Colorado Plateau/ Bull Canyon district/ petrography/
- Griffiths, J. C., Cochran, J. A., Hutta, J. J.,
and Steinmetz, R., 1956
Salt Wash Member/ sediments/ Morrison Formation/
Jurassic/ grain size/ grain shape/ sandstone/
Utah/ Colorado/ Arizona/ Montrose County/ San
Miguel County/ statistics/ grain orientation/
Colorado Plateau/ Bull Canyon district/ quartz/
lithology/
- Griffiths, J. C., Cochran, J. A., Hutta, J. J.,
and Steinmetz, R., 1956
Salt Wash Member/ Morrison Formation/ Jurassic/
sandstone/ matrix/ clay/ Colorado Plateau/ Monogram
Mesa/ Utah/ Arizona/ Montrose County/ San Miguel
County/ petrography/ sediments/ clay pebbles/
grain packing/ statistics/ Bull Canyon district/
- Grimaldi, F. S., and Marsh, C. A., 1947
thorium/ high grade/ low grade/ analyses/ ore
deposits/ Colorado Plateau/ sandstone/
- Grossman, E. L., 1957
Front Range/ ore deposits/ uranium/ Gilpin County/
Clear Creek County/ Jefferson County/ Schwartzwalder
mine/ pitchblende/ igneous-metamorphic/ Ladwig
mine/ Leyden mine/ Boulder County/ coal/ sandstone/
Morrison Formation/ Park County/ Gem Dandy/
- Grossman, E. L., and Smith, B. C., 1956
lithology/ uranium/ ore deposits/ sandstone/
exploration/ Front Range/ Dakota hogback/ Dakota
Sandstone/ Cretaceous/ Boulder County/ Larimer
County/ asphaltite/ Rose Mary No. 1 claim/ Wakketa
lease/ Horsetooth Reservoir site/ Carter Lake/
Bonnell lease/ airborne radiometrics/
- Gruenerwald, William, and Richardson, G. R., 1945
vanadium/ geology/ stratigraphy/ sandstone/
mineralization/ uranium/ ore deposits/ exploration/
Sleepy Cat Mountain/ White River uplift area/
Colorado Plateau/ Rio Blanco County/ carnotite/
Stealey prospect/
- Gruner, J. W., 1951
Shinarump Member/ Morrison Formation/ Colorado
Plateau/ conglomerate/ sandstone/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ Utah/ pitchblende/
genesis/ Chinle Formation/ ore deposits/
- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ genesis/ shale/
sandstone/ siltstone/ clays/ Morrison Formation/
Colorado/ Utah/ Arizona/ New Mexico/ Moenkopi
Formation/ Shinarump Member/ conglomerate/ Mesa
County/ Montrose County/ San Miguel County/
asphaltite/ uraninite/ copper/ Chinle Formation/
mineralization/

- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ syngenetic processes/ hydrothermal processes/ ground water/ genesis/ Shinarump Member/ Morrison Formation/ sandstone/ conglomerate/ mudstone/ limestone/ Todlito Limestone/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ Montezuma County/ Chinle Formation/
- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ intrusives/ ore sources/ sandstone/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/ extrusives/ Montezuma County/ ground water/ Igneous-metamorphic/
- Gruner, J. W., 1954
Colorado Plateau/ ore deposits/ genesis/ mineralogy/ Utah/ Colorado/ sandstone/ siltstone/ conglomerate/ limestone/ uranium/ vanadium/ New Mexico/ geology/ San Miguel County/ Montrose County/ Mesa County/
- Gruner, J. W., 1954
Colorado Plateau/ genesis/ ore deposits/ organic materials/ sandstone/ uranium/ carbon/ San Miguel County/ Montrose County/ Mesa County/
- Gruner, J. W., 1956
uranium concentration/ sediments/ geochemistry/ Colorado Plateau/ sandstone/ Mesa County/ genesis/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ multiple migration-accretion/
- Gruner, J. W., 1956
Colorado Plateau/ ore deposits/ mineral assemblages/ Utah/ Colorado/ uranium/ sandstone/ continental-type deposits/ Morrison Formation/ San Miguel County/ Montrose County/ Mesa County/
- Gruner, J. W., 1956
uranium concentration/ sediments/ geochemistry/ sandstone/ genesis/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ multiple migration-accretion/ Colorado Plateau/
- Gruner, J. W., 1957
Colorado Plateau/ ore deposits/ genesis/ sedimentary rocks/ sandstone/
- Gruner, J. W., 1958
Colorado Plateau/ sandstone/ ore deposits/
- Gruner, J. W., and Gardiner, L., 1950
ore deposits/ asphalt/ lignite/ geochemistry/ San Miguel County/ sandstone/ Placerville district/ experimental geochemistry/ Colorado Plateau/
- Gruner, J. W., and Gardiner, L., 1952
mineral associations/ Shinarump Member/ Todlito Limestone/ Utah/ New Mexico/ Colorado Plateau/ Salt Wash Member/ Morrison Formation/ Colorado/ Montrose County/ San Miguel County/ Calamity Mesa/ Placerville district/ sandstone/ Chinle Formation/ ore deposits/
- Gruner, J. W., and Knox, J. A., 1957
Colorado/ Arizona/ Montana/ New Mexico/ South Dakota/ minerals/ uranium/ ore deposits/ mines/ San Miguel County/ Colorado Plateau/ Fremont County/ Gunnison County/ Saguache County/ volcanics/ conglomerate/ Morrison Formation/ sandstone/ siltstone/ Igneous-metamorphic/ Montrose County/ Mesa County/ Moffat County/ Browns Park Formation/
- Gruner, J. W., and Smith, D. K., Jr., 1954
South Dakota/ Wyoming/ ore deposits/ uranium/ Colorado Plateau/ sandstone/ siltstone/ shale/ coffinite/ uraninite/ organics/ Hopi Buttes/ diatremes/ Arizona/ Colorado/ New Mexico/ Utah/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/
- Gruner, J. W., and Smith, D. K., Jr., 1955
Colorado Plateau/ ore deposits/ mineralization/ Utah/ Arizona/ New Mexico/ Horseshoe diatreme/ sandstone/ limestone/ mineralogy/
- Gruner, J. W., and Smith, D. K., Jr., 1955
Colorado/ Wyoming/ ore deposits/ mineralogy/ Moffat County/ Miocene/ Browns Park Formation/ sandstone/ Maybell district/ Weber Sandstone/
- Gruner, J. W., and Smith, D. K., Jr., 1955
Wyoming/ South Dakota/ North Dakota/ Colorado/ sandstone/ Browns Park Formation/ Colorado Plateau/ Morrison Formation/ Chinle Formation/ Mesa County/ San Miguel County/ peat/ lignite/ Moffat County/ Montrose County/
- Gruner, J. W., and Smith, D. K., Jr., 1955
siltstone/ sandstone/ Colorado Plateau/ uranium/ coffinite/ Jurassic/ Larimer County/ Black King mine/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ mineralogy/ Morrison Formation/ Bull Canyon district/ Calamity Mesa/ Paradox Valley/ Salt Wash Member/ Front Range/
- Gruner, J. W., Gardiner, L., and Smith, D. K., Jr., 1953
Colorado Plateau/ Colorado/ Utah/ minerals/ synthetic/ uranium/ vanadium/ chemistry/ experimental/ sandstone/
- Gruner, J. W., Gardiner, L., and Smith, D. K., Jr., 1953
ore deposits/ black shale/ genesis/ carbonaceous materials/ asphaltic materials/ Colorado Plateau/ Colorado/ Utah/ hydrocarbons/ asphaltite/ thucholite/ sandstone/ uranium/ vanadium/ Calamity Mesa/ Mesa County/ Montrose County/
- Gruner, J. W., Gardiner, L., and Smith, D. K., Jr., 1954
Colorado Plateau/ ore deposits/ mineral assemblages/ Calamity Mesa/ Placerville district/ New Mexico/ conglomerate/ Chinle Formation/ Morrison Formation/ sandstone/ limestone/ asphaltite/ thucholite/ Montrose County/ San Miguel County/ Salt Wash Member/ Dolores Formation/ Shinarump Member/ Todlito Limestone/
- Gruner, J. W., Rosenzweig, A., and Smith, D. K., Jr., 1953
clay/ Colorado Plateau/ Chinle Formation/ Dolores County/ San Juan County/ Arizona/ Utah/ New Mexico/ Colorado/ San Juan Mountains/ Entrada

- Sandstone/ Greysill mine/ sandstone/ San Miguel County/
- Gruner, J. W., Rosenzweig, A., and Smith, D. K., Jr., 1954
Colorado Plateau/ ore deposits/ mineralogy/ uraninite/ coffinite/ vanadium/ uranium/ Colorado/ Utah/ New Mexico/ Todilto Limestone/ limestone/ Morrison Formation/ sandstone/ Entrada Sandstone/ Dolores County/ San Miguel County/ Greysill mine/ Mesa County/ Montrose County/ San Juan County/
- Gruner, J. W., Smith, D. K., Jr., and Knox, J. A., 1956
uranium/ ore deposits/ Colorado/ Wyoming/ South Dakota/ North Dakota/ minerals/ claims/ Moffat County/ sandstone/ Browns Park Formation/ Montana/ Utah/ Colorado Plateau/
- Grutt, E. W., Jr., 1956
Colorado/ Wyoming/ ore deposits/ clastics/ Tertiary/ uranium/ Washakie basin/ Moffat County/ sandstone/ economic geology/
- Grutt, E. W., Jr., 1956
Colorado/ Wyoming/ sediments/ Tertiary/ clastics/ uranium/ ore deposits/ Washakie basin/ Moffat County/ sandstone/ economic geology/
- Grutt, E. W., Jr., 1975
statistics/ uranium/ demand/ supply/ exploration/ ore deposits/ veins/ pegmatites/ sandstone/ calcareite/ conglomerate/ Canada/ Australia/ South Africa/ Colorado/ Colorado Plateau/ NURE program/
- Grutt, E. W., Jr., and Whalen, J. F., 1955
Colorado/ Wyoming/ ore deposits/ uranium/ Moffat County/ Browns Park Formation/ sandstone/ Maybell-Lay area/ geology/
- Gualtieri, J. L., and Emerick, W. L., 1953
Colorado Plateau/ drilling/ exploration/ ore deposits/ reserves/ Terrible group/ Gypsum Valley district/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ Montrose County/
- Gualtieri, J. L., and Emerick, W. L., 1953
Grass Flats claim/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Hawkeye claim area/ Slick Rock district/ San Miguel County/
- Gude, A. J., 3d, and McKeown, F. A., 1952
Jefferson County/ ore deposits/ Front Range/ coal/ exploration/ drilling/ Old Leyden coal mine/ minerals/ carnotite/ Laramie Formation/ reserves/ sandstone/ shale/ veins/
- Gude, A. J., 3d, and McKeown, F. A., 1953
veins/ exploration/ Jefferson County/ Old Leyden coal mine/ sandstone/ coal/ shale/ drilling/ core/ reserves/ Front Range/
- Gulliotte, G. B., 1944
minerals/ hydrocarbons/ Uinta basin/ Colorado/ Utah/ Garfield County/ Rio Blanco County/ uranium/ Colorado Plateau/ reconnaissance/ ore deposits/ sandstone/ Mesa County/ gilsonite/ shale/ Green River Formation/ oil shale/ native asphalts/
- Gulliotte, G. B., 1947
drilling/ well logging/ drill cores/ tables/ data/ ore deposits/ gamma-ray logs/ Slick Rock district/ Colorado Plateau area/ Dolores County/ San Miguel County/ sandstone/ Dolores Plateau/
- Gulliotte, G. B., 1947
drilling/ mineralization/ Mesa County/ sandstone/ radioactivity/ ore deposits/ well logging/ gamma-ray logs/ Calamity district/ Uncompahgre uplift area/ Colorado Plateau/
- Gustafson, J. K., 1949
Colorado Plateau/ uranium/ history/ production/ Colorado/ Utah/ exploration/ sandstone/ San Miguel County/ Montrose County/ Mesa County/
- Gustafson, J. K., 1949
uranium/ resources/ veins/ Gilpin County/ Front Range/ Boulder County/ igneous-metamorphic/ pitchblende/ vanadium/ Morrison Formation/ sandstone/ Montrose County/ Mesa County/ San Miguel County/ Colorado Plateau/
- Hackman, R. J., 1952
Montrose County/ photogeologic map/ Utah/ Colorado/ sandstone/ Morrison Formation/ Salt Wash Member/ carnotite/ Colorado Plateau/ Mount Peale-8 quadrangle/
- Hackman, R. J., 1952
Montrose County/ photogeologic map/ Utah/ carnotite/ Colorado Plateau/ Colorado/ sandstone/ Morrison Formation/ Salt Wash Member/ Mount Peale-1 quadrangle/
- Hackman, R. J., 1952
San Miguel County/ photogeologic map/ Utah/ Colorado/ Morrison Formation/ Salt Wash Member/ sandstone/ carnotite/ Colorado Plateau/ Mount Peale-16 quadrangle/
- Hackman, R. J., 1952
Montezuma County/ photogeologic map/ Aneth-1 quadrangle/ Colorado/ Utah/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ carnotite/ Colorado Plateau/
- Hackman, R. J., 1952
Montezuma County/ photogeologic map/ Verdure-16 quadrangle/ Colorado/ Utah/ sandstone/ carnotite/ Colorado Plateau/
- Hackman, R. J., 1952
Dolores County/ San Miguel County/ photogeologic map/ Verdure-1 quadrangle/ Colorado/ Utah/ sandstone/ Colorado Plateau/ carnotite/
- Hackman, R. J., 1952
Dolores County/ photogeologic map/ Verdure-8 quadrangle/ Colorado/ Utah/ sandstone/ Colorado Plateau/ carnotite/
- Hackman, R. J., 1952
Dolores County/ Montezuma County/ photogeologic map/ Verdure-9 quadrangle/ Colorado/ Utah/ sandstone/ Colorado Plateau/ carnotite/

- Hackman, R. J., 1955
Colorado/ Utah/ sandstone/ Morrison Formation/
Salt Wash Member/ Montezuma County/ photogeologic
map/ Aneth-8 quadrangle/ Colorado Plateau/ carnotite/
- Hackman, R. J., 1955
Montezuma County/ photogeologic map/ Aneth-1
quadrangle/ Colorado/ Utah/ sandstone/ Morrison
Formation/ Salt Wash Member/ uranium/ Colorado
Plateau/ carnotite/
- Hackman, R. J., 1955
Montrose County/ Colorado/ San Miguel County/
sandstone/ photogeologic map/ Mount Peale-9
quadrangle/ Utah/ Morrison Formation/ Salt Wash
Member/ carnotite/ Colorado Plateau/
- Hackman, R. J., 1956
Colorado/ Utah/ San Miguel County/ photogeologic
map/ Mount Peale-16 quadrangle/ Morrison Formation/
Salt Wash Member/ sandstone/ carnotite/ Colorado
Plateau/
- Hackman, R. J., 1956
Colorado/ Utah/ Montrose County/ photogeologic
map/ Morrison Formation/ Salt Wash Member/ sandstone/
carnotite/ Colorado Plateau/ Mount Peale-8 quadrangle/
- Hackman, R. J., 1956
Montrose County/ Colorado/ photogeologic map/
Utah/ sandstone/ Morrison Formation/ Salt Wash
Member/ Colorado Plateau/ carnotite/ Mount Peale-1
quadrangle/
- Hackman, R. J., 1956
Montrose County/ San Miguel County/ Utah/ photogeologic
map/ Mount Peale-9 quadrangle/ sandstone/ Morrison
Formation/ Salt Wash Member/ carnotite/ Colorado
Plateau/
- Hackman, R. J., 1958
Mesa County/ Montrose County/ Delta County/
photogeologic map/ sandstone/ Colorado Plateau/
Escalante Forks quadrangle/
- Hackman, R. J., 1959
Grand County/ photogeologic map/ Coach Creek
NE quadrangle/ sandstone/ Colorado Plateau/
- Hackman, R. J., 1959
Grand County/ photogeologic map/ Coach Creek
SE quadrangle/ sandstone/ Colorado Plateau/
- Hackman, R. J., 1959
Dolores County/ Montezuma County/ photogeologic
map/ Yellow Jacket quadrangle/ sandstone/ Colorado
Plateau/
- Hager, Dorsey, 1955
Colorado Plateau/ ore deposits/ exploration/
channels/ sandstone/ uranium/ ore concentration/
San Miguel County/ Montrose County/ Mesa County/
- Hagmaler, J. W., 1971
uranium/ occurrences/ ground water/ ore deposits/
sandstone/ flow systems/
- Hague, R. S., 1956
ore deposits/ stratigraphy/mineralogy/ mineralization/
Bull Canyon area/ Montrose County/ San Miguel
County/ Colorado Plateau/ Uravan district/ Morrison
Formation/ Salt Wash Member/ sandstone/ mudstone/
Brushy Basin Member/ tyuyamunite/ carnotite/
uraninite/ montroselite/
- Hague, R. S., Goldstein, S. J., and Blakey, E., 1958
sandstone/ uranium/ vanadium/ Uravan mineral
belt/ ore deposits/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/ Colorado
Plateau/
- Haji-Vassiliou, Andreas, 1969
Colorado Plateau/ ore deposits/ organic materials/
genesis/ geology/ uranium minerals/ Colorado/
sandstone/
- Haji-Vassiliou, Andreas, 1969
Colorado Plateau/ ore deposits/ organic materials/
genesis/ sandstone/ geology/ uranium minerals/
- Hampton, O. W., 1955
Colorado Plateau/ ore deposits/ resources/ exploration/
production/ costs/ sandstone/ uranium/ methods/
mining/ San Miguel County/ Montrose County/
Mesa County/
- Hancock, E. T., 1915
Moffat County/ Yampa River/ structural geology/
tectonics/ stratigraphy/ sandstone/ geologic
history/ Green River/
- Harder, J. O., and Stead, F. W., 1945
Boulder County/ Gilpin County/ Gunnison County/
Mesa County/ Teller County/ ore deposits/ sandstone/
igneous-metamorphic/ reconnaissance/ Front Range/
Colorado Plateau/ Jefferson County/
- Harshman, E. N., 1970
ore rolls/ uranium/ ore deposits/ United States/
Colorado/ exploration/ sandstone/ Wyoming/ geology/
- Harshman, E. N., 1971
uranium/ ore rolls/ United States/ geology/
exploration/ ore deposits/ Colorado/ Wyoming/
sandstone/
- Harshman, E. N., 1972
uranium/ ore rolls/ United States/ Colorado/
exploration/ ore deposits/ Wyoming/ geology/
sandstone/
- Harshman, E. N., 1974
elements/ distribution/ ore rolls/ uranium/
ore deposits/ Colorado/ genesis/ Wyoming/ sandstone/
geology/
- Hastings, J. S., 1958
Long Park/ ore deposits/ resources/ geology/
Montrose County/ uranium/ vanadium/ Colorado
Plateau/ sandstone/
- Hastings, J. S., 1963
Uravan mineral belt/ Colorado Plateau/ sandstone/
exploration/ Montrose County/ San Miguel County/
Dolores County/ geology/ mining methods/
- Hathaway, J. C., 1959
Colorado Plateau/ ore deposits/ geochemistry/

- mudstone/ clay mineralogy/ mixed-layered structures/
vanadium/ Mineral Joe mine/ Montrose County/
San Miguel County/ sandstone/
- Hawkes, H. E., 1949
Colorado Plateau/ botany/ geobotany/ Garfield
ore zones/ carnotite/ ore deposits/ Charles
T. mine/ geology/ sandstone/ Utah/ selenium/
Rifle mine/ Lower group mines/ Garfield mine/
Mesa County/ Montrose County/ San Miguel County/
Arizona/
- Haynes, D. D., Vogel, J. D., and Wyant, D. G.,
compilers, 1972
Colorado/ Utah/ geology/ structure/ ore deposits/
uranium/ Cortez quadrangle/ map/ host formations/
sandstone/ San Miguel County/ Dolores County/
La Plata County/ Colorado Plateau/ stratigraphy/
Montezuma County/
- Henderson, E. P., 1935
steigerite/ properties/ Gypsum Valley district/
San Miguel County/ Colorado Plateau/ sandstone/
minerals/
- Henderson, E. P., and Hess, F. L., 1933
corvusite/ vanadium/ San Miguel County/ Mesa
County/ Gateway district/ Gypsum Valley district/
Colorado/ Colorado Plateau/ sandstone/ rilandite/
Utah/ carnotite/
- Henkes, W. C., Irwin, J. H., and Pratt, W. P., 1976
minerals/ resources/ ore deposits/ Colorado/
New Mexico/ Montezuma County/ sandstone/ Colorado
Plateau/ Ute Mountain Indian Reservation/
- Henning, K. L., 1908
carnotite/ Colorado/ sandstone/ Colorado Plateau/
- Hess, F. L., 1911
Colorado/ vanadium/ uranium/ tungsten/ molybdenum/
bismuth/ tantalum/ sandstone/ ore deposits/
Colorado Plateau/
- Hess, F. L., 1911
ore deposits/ Colorado/ vanadium/ sandstone/
Colorado Plateau/ uranium/ tungsten/
- Hess, F. L., 1912
Colorado/ vanadium/ uranium/ tungsten/ molybdenum/
bismuth/ sandstone/ Colorado Plateau/ ore deposits/
- Hess, F. L., 1912
Colorado/ vanadium/ uranium/ tungsten/ molybdenum/
bismuth/ sandstone/ Colorado Plateau/ ore deposits/
- Hess, F. L., 1913
Placerville district/ vanadium/ sandstone/ geology/
San Miguel County/ Entrada Sandstone/ ore deposits/
Colorado Plateau/
- Hess, F. L., 1913
Colorado Plateau/ uranium/ vanadium/ sandstone/
ore deposits/
- Hess, F. L., 1914
genesis/ carnotite/ Colorado/ uranium/ vanadium/
Rio Blanco County/ Eagle County/ geology/ San
Miguel County/ Montrose County/ Moffat County/
- Routt County/ Garfield County/ Mesa County/
Delta County/ Dolores County/ Montezuma County/
La Plata County/ Archuleta County/ Utah/ Colorado
Plateau/ sandstone/ ore deposits/
- Hess, F. L., 1922
Colorado Plateau/ ore deposits/ resources/ radium/
uranium/ vanadium/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ sandstone/
- Hess, F. L., 1925
carnotite/ vanoxite/ vanadium/ mineralogy/ sandstone/
Rio Blanco County/ Garfield County/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ La Plata County/ Colorado
Plateau/ ore deposits/ Delta County/
- Hess, F. L., 1925
Colorado/ Colorado Plateau/ uranium/ vanadium/
sandstone/ radium/ San Miguel County/ Montrose
County/ Mesa County/ ore deposits/ resources/
- Hess, F. L., 1927
Colorado/ Colorado Plateau/ uranium/ vanadium/
radium/ sandstone/ ore deposits/ resources/
San Miguel County/ Montrose County/ Mesa County/
- Hess, F. L., 1929
Colorado/ Colorado Plateau/ uranium/ vanadium/
radium/ sandstone/ ore deposits/ resources/
San Miguel County/ Montrose County/ Mesa County/
- Hess, F. L., 1932
Colorado/ Colorado Plateau/ vanadium/ sandstone/
ore deposits/ San Miguel County/ Montrose County/
Mesa County/
- Hess, F. L., 1933
bituminous substances/ uranium/ vanadium/ radium/
gold/ silver/ molybdenum/ sediments/ Colorado
Plateau/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/
- Heyl, A. V., 1954
Montrose County/ mineralogy/ petrology/ geochemistry/
zoning/ montroselite/ Bitter Creek mines/ corvusite/
pascoite/ rauvite/ uraninite/ Uravan district/
asphaltite/ hydrocarbons/ pyrobitumen/ uranium/
thucholite/ sandstone/ Morrison Formation/ Salt
Wash Member/ vanadium/ Colorado Plateau/ ore
deposits/
- Heyl, A. V., 1956
Uravan district/ Bitter Creek mine/ ore deposits/
zoning/ Morrison Formation/ sandstone/ Montrose
County/ Colorado Plateau/ uranium/ geology/
vanadium/ mineralogy/ petrology/ geochemistry/
rauville/ uraninite/ thucholite/ Salt Wash Member/
corvusite/ montroselite/ pascoite/
- High, T. D., 1970
uranium/ vanadium/ mines/ sandstone/ reports/
Dolores County/ Gunnison County/ Little Indian
property/ Mesa County/ Montrose County/ San
Miguel County/ igneous-metamorphic/ Colorado
Plateau/

- High, T. D., 1971
uranium/ vanadium/ mines/ sandstone/ Dolores County/ Montrose County/ Saguache County/ Pitch mine/ Igneous-metamorphic/ San Miguel County/ Colorado Plateau/ Mesa County/
- High, T. D., 1972
uranium/ vanadium/ mines/ reports/ sandstone/ Montrose County/ San Miguel County/ Mesa County/ Saguache County/ Igneous-metamorphic/ Pitch mine/ Colorado Plateau/ Dolores County/
- High, T. D., 1973
Dolores County/ uranium/ vanadium/ sandstone/ mines/ reports/ Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/
- High, T. D., 1974
uranium/ vanadium/ Dolores County/ Mesa County/ reports/ Montrose County/ San Miguel County/ sandstone/ mines/ Colorado Plateau/
- High, T. D., 1975
uranium/ vanadium/ mapping/ geological studies/ drilling/ Dolores County/ Mesa County/ sandstone/ Colorado Plateau/ Montrose County/ San Miguel County/ Rico-Argentine district/
- Hill, J. W., 1945
uranium/ reserves/ ore deposits/ exploration/ geology/ Coal Creek anticline/ White River uplift/ Colorado Plateau/ sandstone/ Urlo mine/ Riland N mine/ Riland S mine/ Hess mine/ Quin Burrell prospect/ Uranium Peak prospect/ Rio Blanco County/
- Hill, J. W., n.d.
Colorado/ Oklahoma/ asphaltite/ uranium/ sandstone/
- Hillebrand, W. F., 1900
vanadium/ analyses/ molybdenum/ ore deposits/ Colorado Plateau/ sandstone/
- Hillebrand, W. F., 1900
vanadium/ molybdenum/ analyses/ Colorado Plateau/ sandstone/
- Hillebrand, W. F., 1924
Colorado/ Utah/ ore deposits/ minerals/ carnotite/ tyuyamunite/ sandstone/ analyses/ Colorado Plateau/
- Hillebrand, W. F., and Ransome, F. L., 1900
carnotite/ vanadium/ minerals/ sandstone/ ore deposits/ Colorado Plateau/ Montrose County/ San Miguel County/ analyses/
- Hillebrand, W. F., and Ransome, F. L., 1905
San Miguel County/ Montrose County/ Mesa County/ carnotite/ mineralogy/ vanadium/ sandstone/ Placerville district/ analyses/ Roc Creek area/ La Sal Creek area/ ore deposits/ Colorado Plateau/
- Hillebrand, W. F., Merwin, H. E., and Wright, F. E., 1914
San Miguel County/ Montrose County/ Mesa County/ carnotite/ mineralogy/ vanadium/ sandstone/ Placerville district/ analyses/ Roc Creek area/ La Sal Creek area/ ore deposits/ hewettite/ metaheawettite/ pascolite/ Colorado Plateau/ hydrous calcium vanadates/
- Hillebrand, W. F., Merwin, H. E., and Wright, F. E., 1915
Paradox Valley/ Colorado Plateau/ minerals/ sandstone/ San Miguel County/ hydrous calcium vanadates/ hewettite/ metaheawettite/ pascolite/ vanadium/
- Hillebrand, W. F., Wright, F. E., and Merwin, H. E., 1913
calcium vanadates/ vanadium/ Peru/ Colorado/ Utah/ Montrose County/ San Miguel County/ sandstone/ Colorado Plateau/ minerals/ Mesa County/
- Hills, F. A., and Houston, R. S., 1976
tectonics/ Proterozoic rocks/ Wyoming/ Colorado/ South Dakota/ sandstone/
- Hilpert, L. S., 1949
San Miguel County/ exploration/ drilling/ reserves/ Ellison claims/ Upper group claims and mines/ sandstone/ ore deposits/ Colorado Plateau/ Burro claims/ uranium/ vanadium/ Morrison Formation/ Slick Rock district/ Salt Wash Member/
- Hilpert, L. S., 1952
Colorado Plateau/ exploration/ Spud Patch area/ sandstone/ Morrison Formation/ Salt Wash Member/ ore deposit/ reserves/ drilling/ uranium/ vanadium/ San Miguel County/
- Hilpert, L. S., 1953
Colorado Plateau/ sandstone/ exploration/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ drilling/ Morrison Formation/ Uravan district/ Yellow Cat mine/ Monogram Mesa/ Gateway district/
- Hilpert, L. S., and Boardman, R. L., 1953
Colorado Plateau/ sandstone/ Colorado/ Utah/ Mesa County/ San Miguel County/ Dolores County/ drilling/ exploration/ ore deposits/ Morrison Formation/ Salt Wash Member/ Uravan district/ Gateway district/ Gypsum Valley district/ Montrose County/
- Hilpert, L. S., and Fischer, R. P., 1949
Mesa County/ uranium/ vanadium/ minerals/ carnotite/ drilling/ exploration/ ore deposits/ Outlaw Mesa/ sandstone/ Gateway district/ Colorado Plateau/ analyses/
- Holland, H. D., and others, 1958
uranium/ leachable ores/ Utah/ ore deposits/ Colorado Plateau/ sandstone/
- Holmes, C. N., 1949
geology/ carnotite/ ore deposits/ Colorado Plateau/ sandstone/ San Miguel County/ Montrose County/ Mesa County/
- Holmes, C. N., 1950
sandstone/ Uncompahgre uplift/ tectonics/ sedimentary rocks/ Mesozoic/ Chinle Formation/ Pitkin County/ Gunnison County/ Montrose County/ Mesa County/ Delta County/ Dolores County/ Dolores Formation/

- Montezuma County/ Entrada Sandstone/ stratigraphy/
Morrison Formation/ Colorado Plateau/
- Holmes, C. N., 1960
Colorado/ Colorado Plateau/ sandstone/ Jurassic
history/ stratigraphy/ paleogeography/ paleogeology/
Morrison Formation/
- Holmes, C. N., 1960
Jurassic history/ stratigraphy/ Colorado/ Colorado
Plateau/ sandstone/ geology/ Morrison Formation/
- Holmes, R. U., and Harrer, C. M., 1952
Mesa County/ Montrose County/ copper/ sandstone/
Colorado Copper Company/ Colorado Plateau/
- Holmes, W. H., 1878
Dolores County/ San Miguel County/ La Plata
County/ San Miguel Mountains/ geology/ Colorado
Plateau/ Igneous-metamorphic/ sandstone/ Sierra
Abajo Mountains/
- Hoover, W. B., 1950
Glen Canyon Formation/ San Raphael Formation/
correlation/ sandstone/ La Plata County/ Jurassic
Formations/ stratigraphy/ Utah/ Colorado/ Arizona/
New Mexico/ San Juan basin/ Archuleta County/
Montezuma County/ sandstone/ Colorado Plateau/
Morrison Formation/
- Hostetter, R. B., and Garrels, R. M., 1962
transportation/ precipitation/ uranium/ vanadium/
Colorado/ sandstone/ geochemistry/ minerals/
Colorado Plateau/
- Houser, F. N., and Ekren, E. B., 1959
Montezuma County/ Colorado Plateau/ Moqui SW
quadrangle/ Ute Mountains/ Morrison Formation/
sandstone/ uranium/ vanadium/ map/ geology/
Salt Wash Member/
- Houser, F. N., and Ekren, E. B., 1959
Ute Mountains/ Montezuma County/ Dolores County/
sandstone/ Cretaceous strata/ Colorado Plateau/
Dakota Sandstone/
- Houston, R. S., and Murphy, J. F., 1970
organic materials/ La Plata County/ Durango
area/ thorium/ titanium/ Cretaceous/ Dakota
Sandstone/ barium/ bitumens/ gold/ rare earths/
sandstone/ transition elements/ uranium/ petrography/
chemistry/ composition/ mineralogy/
- Houston, R. S., and Murphy, J. F., 1977
Colorado Plateau/ Montezuma County/ San Juan
basin/ sandstone/ Cretaceous/ black sandstones/
stratigraphy/ structure/ mineralogy/ placer
deposits/ heavy minerals/ monazite/ zircon/
ilmenite/ depositional environment/
- Huff, L. C., 1954
Sage Plain area/ Utah/ Colorado/ Colorado Plateau/
mapping/ uranium/ vanadium/ Morrison Formation/
Salt Wash Member/ sandstone/ Dolores County/
San Miguel County/ ore deposits/
- Huff, L. C., 1955
Colorado/ Utah/ ore deposits/ Colorado Plateau/
Dolores County/ San Miguel County/ stratigraphy/
Salt Wash Member/ sandstone/ uranium/ vanadium/
Sage Plain area/ Morrison Formation/
- Huff, L. C., and Lesure, F. G., 1956
Colorado/ Colorado Plateau/ uranium/ vanadium/
Dolores County/ San Miguel County/ Morrison
Formation/ sandstone/ mines/ Salt Wash Member/
peat/ Sage Plain area/ Utah/ ore deposits/
- Huff, L. C., and Lesure, F. G., 1957
Colorado/ Utah/ Colorado Plateau/ uranium/ vanadium/
Dolores County/ San Miguel County/ Salt Wash
Member/ sandstone/ stratigraphy/ mapping/ structure/
ore deposits/ geochemistry/ mines/ Sage Plain
area/ Morrison Formation/
- Huffman, Claude, Jr., and Riley, L. B., 1956
plants/ ash/ uranium/ analyses/ fluorimetry/
geobotany/ Colorado Plateau/ sandstone/
- Huleatt, W. P., Hazen, S. W., Jr., and Traver,
W. M., Jr., 1946
exploration/ vanadium/ Colorado/ Utah/ Colorado
Plateau/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/ Dolores County/
- Hunt, C. B., 1956
Cenozoic/ geology/ Colorado Plateau/ physiography/
stratigraphy/ Moffat County/ sandstone/ Delta
County/ Rio Blanco County/ Garfield County/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/
- Hurley, D. B., and Crew, M. E., 1953
drilling/ Colorado Plateau/ sandstone/ San Miguel
County/ drilling trends/ ore deposits/ reserves/
Montrose County/ Mesa County/
- Hyden, H. J., 1956
uranium/ crude oil/ petroleum/ Moffat County/
conglomerate/ Triassic/ Jurassic/ Entrada Sandstone/
Morrison Formation/ Archuleta County/ Cretaceous/
Dakota Sandstone/ Mancos Shale/ Morgan County/
Rio Blanco County/ sandstone/ trace elements/
Shinarump Member/ Fremont County/
- International Atomic Energy Agency, 1970
uranium/ exploration/ geology/ ore deposits/
United States/ sandstone/ igneous-metamorphic/
- International Atomic Energy Agency, 1974
uranium/ ore deposits/ genesis/ United States/
sandstone/ igneous-metamorphic/
- Isachsen, Y. W., 1955
Skull Creek district/ Uranium Peak district/
ore deposits/ Garfield County/ sandstone/ Rio

- Blanco County/ Moffat County/ guidebook/ Colorado Plateau/
- Isachsen, Y. W., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/ Holiday Mesa/ Happy Jack mine/ Calyx mines/ Delta mine/ Cameron district/ copper/ vanadium/ sandstone/ geology/ ore deposits/ Montrose County/ San Miguel County/ Dolores County/ Big Indian Wash - Lisbon Valley district/ Mesa County/ stratigraphy/ structure/
- Isachsen, Y. W., 1956
Colorado Plateau/ tectonics/ ore deposits/ sandstone/ genesis/
- Isachsen, Y. W., 1956
Colorado Plateau/ ore deposits/ genesis/ tectonics/ sandstone/
- Isachsen, Y. W., and Evensen, C. G., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/ Holiday Mesa/ Happy Jack mine/ Calyx mines/ Delta mine/ Cameron district/ copper/ vanadium/ Big Indian Wash - Lisbon Valley district/ sandstone/ geology/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ stratigraphy/ structure/
- Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1954
uranium/ ore deposits/ exploration/ drilling/ Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/
- Isachsen, Y. W., Mitcham, T. W., and Wright, R. J., 1955
Colorado Plateau/ ore deposits/ absolute age/ host rocks/ sandstone/ formational environments/ Entrada Sandstone/ Kayenta Formation/ Garfield County/ Moffat County/ Rio Blanco County/ San Miguel County/ Mesa County/ Montrose County/ Delta County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Ives, R. L., 1936
sandstone/ radium/ mining/ ore deposits/ San Miguel County/ Colorado Plateau/ history/ Utah/ carnotite/ Montrose County/ Dolores County/ Mesa County/ Montezuma County/ uranium/ McElmo Formation/
- Izett, G. A., and Hoover, D. L., 1963
geology/ map/ Hot Sulphur Springs SE quadrangle/ quartz monzonite/ Igneous-metamorphic/ Grand County/ Middle Park Formation/ siltstone/ sandstone/ conglomerate/ arkose/ Lucky Jack mine/ Precambrian rocks/
- Izett, G. A., Denson, N. M., and Obradovich, J. D., 1970
Browns Park Formation/ sandstone/ Moffat County/ volcanic rocks/ igneous-metamorphic/ K-Ar age dating/ stratigraphy/ Colorado Plateau/
- Javernick, B. L., 1975
mining/ Park County/ uranium/ Gold Star deposit/ sandstone/ ore deposits/
- Jensen, F. S., 1957
Fremont County/ Tallahassee Creek district/ ore deposits/ uranium/ sandstone/ arkose/ volcanic detritus/ igneous-metamorphic/ Dickson-Snooper mine/ Sunshine mine/
- Jensen, M. L., 1957
Colorado Plateau/ ore deposits/ mineralization/ sulfides/ uranium/ sandstone/ sulfur isotopes/ sulfur ratios/ genesis/ San Miguel County/ Montrose County/ Mesa County/
- Jensen, M. L., 1958
Colorado Plateau/ Wyoming/ ore deposits/ genesis/ geochemistry/ sulfur isotopes/ sandstone/ uranium/ Montrose County/ San Miguel County/ Garfield County/ Morrison Formation/ Entrada Sandstone/
- Jensen, M. L., 1971
carbon/ oxygen/ sulfur/ isotopes/ genesis/ sandstone/ uranium/ ore deposits/ Colorado Plateau/ Wyoming/ San Miguel County/ Montrose County/ Garfield County/ Mesa County/
- Jobin, D. A., 1952
U.S. Vanadium Co. property/ sandstone/ Colorado Plateau/ reserves/ ore deposits/ Dolores Bench/ Montrose County/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Jobin, D. A., 1952
U.S. Vanadium Co. property/ Colorado Plateau/ sandstone/ ore deposits/ reserves/ Dolores Bench/ Montrose County/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Jobin, D. A., 1952
Vanadium Corp. of America property/ Colorado Plateau/ ore deposits/ sandstone/ reserves/ Dolores Bench/ King Solomon claim/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Montrose County/
- Jobin, D. A., 1953
Colorado Plateau/ exploration/ Dolores Bench/ ore deposits/ Montrose County/ sandstone/ geology/ reserves/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ Uravan district/
- Jobin, D. A., 1953
ground water/ Colorado Plateau/ sandstone/
- Jobin, D. A., 1953
ground water/ Colorado Plateau/ sandstone/
- Jobin, D. A., 1954
ground water/ Colorado Plateau/ sandstone/
- Jobin, D. A., 1954
ground water/ Colorado Plateau/ sandstone/
- Jobin, D. A., 1955
ground water/ Colorado Plateau/ sandstone/
- Jobin, D. A., 1955
ground water/ Colorado Plateau/ sandstone/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/

- uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ regional transmissivity/ Delta County/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Montrose County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/
- Jobin, D. A., 1962
Colorado Plateau/ ore deposits/ Morrison Formation/ transmissivity/ sandstone/ San Miguel County/ ground water/ conglomerate/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Jobin, D. A., and Schessler, T. E., 1953
Colorado Plateau/ ore deposits/ sandstone/ reserves/ exploration/ Atkinson Mesa/ Montrose County/ geology/ drilling/ uranium/ vanadium/ Morrison Formation/ Uravan district/ Salt Wash Member/
- Joesting, H. R., 1950
Colorado Plateau/ geophysics/ exploration/ sandstone/
- Joesting, H. R., 1953
regional studies/ Colorado Plateau/ gravity studies/ aeromagnetics/ sandstone/ geophysics/
- Joesting, H. R., 1954
Colorado Plateau/ regional studies/ gravity studies/ aeromagnetics/ sandstone/ geophysics/
- Joesting, H. R., and Byerly, P. E., 1953
Gateway district/ Sleeping Ute Mountain/ Uravan district/ geophysics/ Colorado Plateau/ San Miguel County/ Montrose County/ Mesa County/ Montezuma County/ Dolores County/ sandstone/ Slick Rock district/ vanadium/ uranium/ Egnar district/ ore deposits/
- Joesting, H. R., and Byerly, P. E., 1954
aeromagnetics/ gravity surveys/ Colorado Plateau/ sandstone/ geophysics/ ore deposits/
- Joesting, H. R., and Byerly, P. E., 1956
Disappointment Valley/ Gypsum Valley/ Nucla district/ Paradox district/ Uncompahgre Plateau/ Mesa County/ San Miguel County/ Uravan district/ ore deposits/ salt anticlines/ Disappointment syncline/ geophysics/ sandstone/ Colorado Plateau/ geology/ Dolores County/ Montrose County/
- Joesting, H. R., and Byerly, P. E., 1956
aeromagnetics/ gravity profiles/ sandstone/ Colorado Plateau/ Colorado/ Utah/ Mesa County/ Montrose County/ Dolores County/ Uravan district/ geology/ ore deposits/ geophysics/ San Miguel County/
- Joesting, H. R., and Byerly, P. E., 1958
Disappointment Valley/ Disappointment syncline/ Nucla district/ Paradox district/ Uncompahgre Plateau/ Mesa County/ Montrose County/ San Miguel County/ geophysics/ salt anticlines/ map/ ore deposits/ sandstone/ Gypsum Valley district/ Uravan district/ geology/ Dolores County/ Colorado Plateau/
- Joesting, H. R., and Case, J. E., 1959
geophysics/ aeromagnetics/ gravity surveys/ Colorado Plateau/ sandstone/
- Joesting, H. R., and Case, J. E., 1960
salt anticlines/ structures/ Paradox basin/ Colorado/ Utah/ ore deposits/ sandstone/ Hermosa Formation/ Paradox Member/ Montrose County/ Mesa County/ San Miguel County/ structural geology/ Colorado Plateau/
- Joesting, H. R., and Case, J. E., 1962
geophysics/ Salt Valley area/ Cisco area/ Utah/ Colorado/ sandstone/ Mesa County/ Colorado Plateau/
- Joesting, H. R., Byerly, P. E., and Plouff, D. F., 1955
geophysics/ Colorado Plateau/ sandstone/ ore deposits/
- Joesting, H. R., Byerly, P. E., and Plouff, D. F., 1955
geophysics/ Colorado Plateau/ gravity/ ore deposits/ aeromagnetics/ sandstone/
- Joesting, H. R., Byerly, P. E., and Plouff, D. F., 1956
geophysics/ Colorado Plateau/ sandstone/ ore deposits/
- Joesting, H. R., Byerly, P. E., and Plouff, D. F., 1956
geophysics/ Colorado Plateau/ sandstone/ ore deposits/
- Joesting, H. R., Byerly, P. E., and Case, J. E., 1957
geophysics/ Colorado Plateau/ gravity surveys/ aeromagnetics/ sandstone/ ore deposits/
- Joesting, H. R., Byerly, P. E., and Case, J. E., 1958
geophysics/ Colorado Plateau/ gravity/ aeromagnetics/ sandstone/ ore deposits/
- Joesting, H. R., Byerly, P. E., Plouff, D. E., and others, 1959
gravity/ aeromagnetics/ geophysics/ Colorado Plateau/ sandstone/ ore deposits/
- Joesting, H. R., Case, J. E., and Plouff, D. F., 1966
Moab area/ Needles area/ Utah/ sandstone/ Mesa County/ Montrose County/ geophysics/ stratigraphy/ geology/ magnetic survey/ gravity survey/ structural geology/ San Miguel County/ Dolores County/ Colorado Plateau/
- Johnson, H. S., Jr., 1954
Colorado Plateau/ ore deposits/ resources/ exploration/ sandstone/

- Johnson, R. W., Jr., 1955
Moffat County/ airborne surveys/ radioactivity/
maps/ sandstone/ Sunny Peak SW quadrangle/ Browns
Park Formation/ Miocene/ Sunny Peak SE quadrangle/
- Johnson, R. W., Jr., 1955
Moffat County/ airborne surveys/ radioactivity/
map/ sandstone/ Sunny Peak NW quadrangle/ Browns
Park Formation/ Miocene/ Sunny Peak NE quadrangle/
- Joubin, F. R., 1955
Tertiary sediments/ Jurassic sediments/ Colorado
Plateau/ sandstone/ thucholite/ carbon/ ore
deposits/
- Kahn, J. S., Groff, D. W., and Griffiths, J. C., 1953
lithology/ cores/ Colorado Plateau/ Morrison
Formation/ petrography/ Salt Wash Member/ sediments/
sandstone/ structure/ Mesa County/ Montrose
County/ San Miguel County/ shale/ siltstone/
Bull Canyon district/
- Kaiser, E. P., and Page, L. R., 1952
ore deposits/ Colorado/ uranium/ United States/
sandstone/ Front Range/ Igneous-metamorphic/
Colorado Plateau/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and
others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/
Archuleta County/ Routt County/ Eagle County/
Pitkin County/ Gunnison County/ San Juan County/
Fremont County/ Huerfano County/ Ouray County/
Colorado Plateau/ ore deposits/ Moffat County/
Garfield County/ Mesa County/ Delta County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ La Plata County/ Larimer
County/ Boulder County/ Jefferson County/ Park
County/ Rio Blanco County/ Igneous-metamorphic/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and
others, 1952
Front Range/ Jamestown district/ pitchblende/
bostonite/ Colorado Plateau/ sandstone/ coal/
shale/ Moffat County/ Garfield County/ La Plata
County/ Pitkin County/ Gunnison County/ San
Juan County/ Boulder County/ Jefferson County/
Park County/ Delta County/ Fremont County/ Rio
Blanco County/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ Archuleta County/ Routt County/ Huerfano
County/ Ouray County/ Larimer County/ Eagle
County/ Igneous-metamorphic/
- Kammer, G. D., 1925
carnotite/ sandstone/ ionium/ thorium/ Colorado
Plateau/ Colorado/ barium sulfate/ trace elements/
geochemistry/
- Keeney, R. M., 1919
ore deposits/ resources/ production/ uranium/
sandstone/ Colorado/ Colorado Plateau/
- Keith, S. B., 1945
ore deposits/ uranium/ geography/ mining/ exploration/
maps/ tonnage/ grade/ Lightner Creek district/
San Juan basin/ Colorado Plateau/ production/
sandstone/ La Plata County/
- Keller, G. V., 1953
Colorado Plateau/ electric well logs/ Morrison
Formation/ Spud Patch area/ Montrose County/
San Miguel County/ geophysics/ petrophysical
studies/ sandstone/
- Keller, G. V., 1957
sandstone/ Morrison Formation/ electrical properties/
logging/ geophysics/ Colorado Plateau/ Spud
Patch area/ uranium/ vanadium/ ore deposits/
San Miguel County/ Montrose County/ Gramlich
claims/ La Sal Creek area/ Utah/ Uravan district/
Long Park district/
- Keller, G. V., 1958
resistivity/ geophysics/ exploration/ ore deposits/
Spud Patch area/ San Miguel County/ sandstone/
Morrison Formation/ uranium/ vanadium/ Utah/
White Canyon district/ Colorado Plateau/
- Keller, G. V., 1959
electrical properties/ sandstone/ Morrison Formation/
geophysics/ resistivity/ porosity/ Dolores County/
Mesa County/ Montrose County/ San Miguel County/
Uravan district/ exploration/ Colorado Plateau/
- Keller, G. V., 1959
Colorado/ Utah/ ore deposits/ exploration/ resistivity/
Colorado Plateau/ Spud Patch area/ San Miguel
County/ sandstone/ Morrison Formation/ geophysics/
- Keller, G. V., and Licastro, P. H., 1959
dielectric constant/ electrical resistivity/
sandstone/ Mesa County/ Montrose County/ San
Miguel County/ Miguel County/ Dolores County/
cores/ Colorado Plateau/ Morrison Formation/
- Keller, W. D., 1953
Colorado Plateau/ ore deposits/ mudstone/ clay
mineralogy/ uranium/ vanadium/ Morrison Formation/
San Miguel County/ Chinle Formation/ Montrose
County/ Mesa County/ Dolores County/ sandstone/
clay minerals/
- Keller, W. D., 1953
clay minerals/ Morrison Formation/ kaolinite/
illite/ depositional environments/ Colorado
Plateau/ sandstone/ type section/ geochemistry/
analyses/ Jefferson County/ Front Range/
- Keller, W. D., 1954
Colorado Plateau/ clay minerals/ mudstone/ sandstone/
mineralogy/
- Keller, W. D., 1955
Colorado Plateau/ clay minerals/ mudstone/ Long
Park area/ Slick Rock district/ Uravan district/
Club mines/ mudstone/ ore deposits/ Utah/ uranium/
vanadium/ mineralogy/ Dolores County/ San Miguel
County/ Montrose County/ sandstone/
- Keller, W. D., 1956
clay studies/ Jurassic rocks/ mineralogy/ sandstone/
Montrose County/ glauconitic mica/ geochemistry/
Colorado Plateau/ Uravan district/ Morrison
Formation/
- Keller, W. D., 1956
clay studies/ Colorado Plateau/ Jurassic rocks/

- mudstone/ analyses/ Montrose County/ Gunnison County/ San Miguel County/ Sapinero/ Slick Rock district/ sandstone/ Uravan district/ Morrison Formation/
- Keller, W. D., 1957
glauconite/ mica/ Morrison Formation/ Lone Tree Mesa/ Montrose County/ analyses/ sandstone/ Colorado Plateau/
- Keller, W. D., 1957
clay/ Jurassic rocks/ Morrison Formation/ sandstone/ mineralogy/ mudstone/ Colorado Plateau/ Montrose County/
- Keller, W. D., 1962
clay minerals/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ mineralogy/ Mesa County/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ sandstone/
- Keller, W. D., and Schultz, L. G., 1955
clay/ mineralogy/ Colorado Plateau/ sandstone/ mudstone/
- Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Archuleta County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Ouray County/ Gunnison County/ Garfield County/ Rio Blanco County/ Moffat County/
- Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/ tectonics/ structural elements/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ Archuleta County/ Ouray County/ Gunnison County/ Montrose County/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Moffat County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ regional structure/
- Kelley, V. C., 1959
structures/ fracture systems/ Colorado Plateau/ faults/ fractures/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Montezuma County/ Moffat County/ San Juan County/ Ouray County/
- Delta County/ Gunnison County/ Garfield County/ La Plata County/ Rio Blanco County/
- Kelley, V. C., 1959
jointing/ Colorado Plateau/ sandstone/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/
- Kelley, V. C., and Clinton, N. J., 1960
Colorado Plateau/ sandstone/ fractures/ tectonics/ genesis/ structures/ Montezuma County/ Dolores County/ Montrose County/ Mesa County/ Delta County/ Garfield County/ Rio Blanco County/ Moffat County/ San Miguel County/
- Kellogg, J. P., 1952
Colorado Plateau/ ore deposits/ exploration/ drilling/ Utah/ Colorado/ Arizona/ New Mexico/ uranium/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Salt Wash Member/ Tenderfoot Mesa/
- Kellogg, J. P., 1954
drilling/ statistics/ Colorado Plateau/ Mesa County/ San Miguel County/ Montezuma County/ Dolores County/ sandstone/ exploration/
- Kellogg, J. P., 1955
cost review/ exploration/ Colorado Plateau/ drilling/ statistics/ Mesa County/ drilling rates/ Utah/ sandstone/ Montrose County/
- Kelly, S. F., 1941
resources/ exploration/ geophysics/ ore deposits/ Montrose County/ sandstone/ vanadium/ uranium/ Colorado Plateau/ geology/
- Kelly, S. F., 1953
uranium/ vanadium/ geophysics/ exploration/ geology/ Colorado Plateau/ sandstone/ ore deposits/ Montrose County/
- Kerr, G. D., Abdullah, S. A., Auxier, J. A., and others, 1974
air/ alpha sources/ ore deposits/ building materials/ Colorado/ concretes/ daughter products/ radiation monitoring/ radioactivity/ radon/ uranium/ Mesa County/ sandstone/ Colorado Plateau/
- Kerr, P. F., 1936
Colorado Plateau/ uranium/ minerals/ ore deposits/ sandstone/
- Kerr, P. F., 1956
veins/ alteration/ exploration/ uranium/ geology/ Jamestown district/ Colorado Plateau/ Colorado/ sandstone/ Front Range/ igneous-metamorphic/ fluorite/ Boulder County/
- Kerr, P. F., 1956
uranium/ thorium/ veins/ sediments/ Front Range/ ore deposits/ sandstone/ fluorite/ geology/ Colorado Plateau/ igneous-metamorphic/
- Kerr, P. F., 1956
veins/ alteration/ exploration/ uranium/ geology/

- Colorado Plateau/ Colorado/ sandstone/ Jamestown district/ Front Range/ Igneous-metamorphic/ fluorite/ Boulder County/
- Kerr, P. F., 1958
uranium/ ore deposits/ genesis/ alteration/ mineralogy/ Colorado Plateau/ Archuleta County/ conglomerate/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/
- Kerr, P. F., 1958
Colorado Plateau/ ore deposits/ genesis/ sandstone/ stratigraphy/ uranium/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ hydrothermal emplacement/ Dolores County/
- Kerr, P. F., and Jacobs, M. B., 1964
Colorado Plateau/ ore deposits/ mineralization/ alteration/ argillization/ clay/ genesis/ sandstone/ uranium/ siltstone/ igneous-metamorphic/
- Kerr, P. F., Rasor, C. A., and Hamilton, Peggy-Kay, 1951
Black King prospect/ ore deposits/ San Miguel County/ veins/ bituminous substances/ sandstone/ Entrada Sandstone/ genesis/ mineralogy/ Colorado Plateau/ Placerville district/
- Kim, Y. C., and Knudsen, H. P., 1977
geostatistics/ reserves/ ore deposits/ roll front/ sandstone/ Colorado/ Colorado Plateau/
- Kimball, Gordon, 1904
carnotite/ sandstone/ Colorado Plateau/
- King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/
- King, R. U., and Moore, F. B., 1951
pitchblende/ ore deposits/ Clear Creek County/ Colorado/ Boulder County/ Front Range/ sandstone/ igneous-metamorphic/ sedimentary rocks/ Jefferson County/ geology/ Gilpin County/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/
- King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Kiowa County/ Larimer County/ Moffat County/ Pitkin County/ Rio Blanco County/ Routt County/ ore guides/ pitchblende/ hydrocarbons/ metal-mining districts/ ore deposits/ limestone/ sandstone/ veins/ breccia pipes/ Eagle County/ hot spring deposits/ fluorite/ igneous-metamorphic/
- Kirkemo, Harold, 1954
Colorado Plateau/ sandstone/ exploration/ drilling/ Mesa County/ Montrose County/ San Miguel County/ Uravan district/ ore deposits/ Morrison Formation/ Colorado/ Utah/ Arizona/ Long Park district/ Dolores County/ Yellow Cat mine/ Slick Rock district/
- Kirkemo, Harold, 1954
ore deposits/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ exploration/ sandstone/ Monogram Mesa/ Uravan district/ Jo Dandy area/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Entrada Sandstone/ Moffat County/ Browns Park Formation/ Slick Rock district/ Long Park district/
- Kirkpatrick, R. K., 1944
uranium/ exploration/ mineralization/ lithology/ Clarity Mesa area/ Uncompahgre uplift area/ sandstone/ stratigraphy/ Mesa County/ ore deposits/ geology/ Colorado Plateau/
- Kirkpatrick, R. K., 1944
Utah/ Colorado/ ore deposits/ vanadium ores/ exploration/ mineralization/ lithology/ sampling/ analyses/ uranium/ geochemistry/Monticello district/ Dry Valley district/ Green River Desert area/ Colorado Plateau/ sandstone/ San Miguel County/
- Kirkpatrick, R. K., 1945
stratigraphy/ mineralization/ exploration/ lithology/ Slick Rock district/ Dolores Plateau area/ Colorado Plateau/ San Miguel County/ sandstone/ mine maps/ ore deposits/ Veta Mad claim/ Georgetown group/ Mercantile group/ Radium group/ Lower group/ Upper group/ Goldenrod group/ Charles T. group/ Middle group/
- Kirkpatrick, R. K., 1946
geology/ stratigraphy/ vanadium/ geologic deposits/ reserves/ uranium/ exploration/ mineralization/ Gypsum Valley district/ Colorado Plateau/ San Miguel County/ sandstone/ Dolores Plateau area/

- Kithil, K. L., and Davis, J. A., 1917
ore deposits/ carnotite/ resources/ Colorado Plateau/ production/ mining/ sandstone/ radium/ Montrose County/ San Miguel County/ Long Park district/
- Klaar, P., and Matthee, H., 1965
Colorado/ Utah/ Big Indian district/ mining/ geology/ technology/ ore deposits/ Colorado Plateau/ sandstone/ San Miguel County/
- Kleinhampl, F. J., and Koteff, Carl, 1955
Meeker area/ Rio Blanco County/ exploration/ Colorado Plateau/ sandstone/ geobotany/
- Kleinhampl, F. J., and Koteff, Carl, 1956
Rio Blanco County/ Colorado Plateau/ sandstone/ geobotany/ exploration/
- Kleinhampl, F. J., and Narten, P. F., 1954
Colorado Plateau/ ore deposits/ exploration/ Indicator plants/ geobotany/ geology/ sandstone/
- Kleinhampl, F. J., and Narten, P. F., 1955
Colorado Plateau/ exploration/ geobotany/ sandstone/ geology/ ore deposits/
- Klepper, M. R., and Wyant, D. G., 1956
uranium/ United States/ Colorado/ geochemistry/ genesis/ exploration/ provinces/ ore deposits/ veins/ sandstone/ Igneous-metamorphic/ Colorado Plateau/ Front Range/
- Klepper, M. R., and Wyant, D. G., 1956
uranium/ provinces/ United States/ Colorado/ ore deposits/ geochemistry/ genesis/ exploration/ veins/ sandstone/ Igneous-metamorphic/ Colorado Plateau/ Front Range/
- Klepper, M. R., and Wyant, D. G., 1956
uranium/ geology/ geochemistry/ ore deposits/ genesis/ Igneous-metamorphic/ sandstone/ exploration/
- Klepper, M. R., and Wyant, D. G., 1957
geology/ geochemistry/ genesis/ ore deposits/ sandstone/ exploration/ uranium/ Igneous-metamorphic/
- Kilne, M. A., Jr., 1954
Gateway district/ Colorado Plateau/ uranium/ vanadium/ Mesa County/ Morrison Formation/ carnotite/ stratigraphy/ structure/ ore deposits/ sandstone/ economics/ development/ marketing/
- Knepper, D. H., ed., 1973
ERTS/ geology/ minerals/ water/ resources/ sandstone/ Colorado Plateau/
- Kober, C. L., and Procter-Gregg, H. D., 1977
uranium/ alteration zones/ LANDSAT MSS Imagery/ Jefferson County/ Boulder County/ Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/ Douglas County/ sandstone/ Front Range/ Igneous-metamorphic/
- Koerberlin, F. R., 1938
copper/ vanadium/ uranium/ silver/ Colorado/ Utah/ genesis/ ore deposits/ discussion/ Montrose County/ Colorado Plateau/ Mesa County/ Montezuma County/ San Miguel County/ Dolores County/ sandstone/
- Kruslewski, S. V., 1970
uranium/ bibliography/ geology/ geochemistry/ radioactivity/ mineralogy/ ore deposits/ Colorado Plateau/ Front Range/ sandstone/ Igneous-metamorphic/
- Kuehnle, F. W., 1956
uranium/ ore deposits/ exploration/ drilling/ geology/ topography/ carnotite/ sandstone/ Piney Drilling Project/ Eagle County/ Shinarump Member/ Chinle Formation/
- Kunkle, G., 1923
vanadium/ sandstone/ Garfield County/ Entrada Sandstone/ Colorado Plateau/ ore deposits/ Rifle district/
- La Point, D. J., and Markos, G., 1977
geochemistry/ ore deposits/ zonation/ Rifle mine/ vanadium/ Garfield County/ sandstone/ Colorado Plateau/ geology/ Entrada Sandstone/
- Landis, E. R., 1956
ground water/ surface water/ Kansas/ Colorado/ Oklahoma/ shale/ tuff/ sandstone/ Smoky Hill River valley/ Rule Creek basin/ Baca County/ siltstone/ uranium/ claystone/ Bent County/ Las Animas County/ Kiowa County/ Cheyenne County/ Crowley County/ Lincoln County/ springs/ wells/ Muddy Creek/ geochemistry/
- Landis, E. R., 1957
Colorado/ Kansas/ New Mexico/ Oklahoma/ exploration/ geochemistry/ ground water/ surface water/ tuff/ shale/ sandstone/ wells/ springs/ Cheyenne County/ Bent County/ Las Animas County/ Kiowa County/ Crowley County/ Lincoln County/ uranium/ Baca County/
- Landis, E. R., 1960
ground water/ surface water/ Great Plains/ analyses/ Baca County/ Bent County/ Cheyenne County/ Crowley County/ Kiowa County/ Lincoln County/ Prowers County/ sandstone/ Las Animas County/ geochemistry/
- Lang, E. A., and Williams, R. A., 1975
uranium/ recovery/ resources/ reserves/ milling/ production/ leaching/ underground hydraulic mining/ sandstone/
- Langan, L. V., and Ash, H. O., 1955
Colorado Plateau/ ore deposits/ uranium/ field trip/ New Mexico/ Utah/ Colorado/ stratigraphy/ Morrison Formation/ sandstone/ Entrada Sandstone/ Dolores County/ Montezuma County/ Montrose County/ San Miguel County/
- Langenheim, R. L., Jr., 1952
stratigraphy/ Crested Butte quadrangle/ Gunnison County/ Permian stratigraphy/ Maroon Formation/ sandstone/ Pennsylvanian stratigraphy/
- Langford, F. F., 1974
uranium/ Australia/ supergene/ genesis/ Front Range/ veins/ calcrete/ carnotite/ ore deposits/ Igneous-metamorphic/ sandstone/ Colorado Plateau/ Jefferson County/ Montrose County/ San Miguel County/

- Langford, F. F., 1977
genesis/ surficial origin/ pitchblende/ ore deposits/ uranium/ igneous-metamorphic/ surface waters/ sandstone/ Colorado Plateau/ Front Range/ Jefferson County/ Montrose County/ San Miguel County/
- Laverty, R. A., and Gross, E. B., 1956
Colorado Plateau/ ore deposits/ genesis/ paragenesis/ uranium/ Meeker/ Rio Blanco County/ sandstone/
- Laverty, R. A., and Gross, E. B., 1956
paragenesis/ uranium/ ore deposits/ Colorado Plateau/ Meeker/ Rio Blanco County/ sandstone/ genesis/
- Leaming, G. F., 1971
economic development/ Arizona/ economic analysis/ New Mexico/ Utah/ Colorado/ economic conditions/ minerals/ mining/ fuels/ industries/ iron/ uranium/ silver/ copper/ titanium/ coal/ natural gas/ oil shale/ sandstone/ ore deposits/ Colorado Plateau/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/
- Lee, H. A., 1901
ore deposits/ uranium/ Colorado/ Colorado Plateau/ sandstone/ Front Range/ igneous-metamorphic/
- Lee, H. A., 1901
Colorado/ mining/ Colorado Plateau/ sandstone/ Front Range/ igneous-metamorphic/
- Lindberg, M., Weeks, A. D., Thompson, M. E., and others, 1962
hendersonite/ vanadium/ Colorado Plateau/ vanadates/ Paradox Valley/ Montrose County/ Morrison Formation/ sandstone/ San Miguel County/ Dolores County/ Montezuma County/ crystallography/ geochemistry/
- Lindgren, Waldemar, 1933
copper/ lead/ vanadium/ uranium/ sandstone/ shale/ carnotite/ roscoelite/ Colorado Plateau/ Dolores County/ San Miguel County/ Mesa County/ Montrose County/ Entrada Sandstone/ La Plata Sandstone/ McElmo Formation/ genesis/ Gilpin County/ igneous-metamorphic/ ore deposits/ Front Range/
- Litsey, L. R., 1955
Montrose County/ Long Park area/ exploration/ drilling/ uranium/ reserves/ resources/ sandstone/ Morrison Formation/ vanadium/ Colorado Plateau/
- Livingston, C. W., 1945
vanadium/ Dolores Plateau area/ geography/ mining/ exploration/ mineralization/ West Paradox district/ Colorado Plateau/ sandstone/ Montrose County/ Gramlich group/ Vanadium Queen claim/ Little Peter claim/ New Yellow Spot claim/ Radium Cycle claim/ Valley View claim/ Waggoner group/ ore deposits/
- Lockner, A. O., 1960
Colorado/ molybdenum/ uranium/ vanadium/ mining/ taxation/ Colorado Plateau/ sandstone/
- Lockner, A. O., 1960
Colorado/ molybdenum/ uranium/ vanadium/ mining/ taxation/ Colorado Plateau/ sandstone/
- Look, Al, 1955
Colorado Plateau/ ore deposits/ popular and elementary geology/ sandstone/ uranium/
- Lovering, T. G., 1954
radioactivity/ iron oxides/ geochemistry/ analyses/ uranium/ thorium/ Park County/ Garo deposit/ sandstone/ ilmonite/ tyuyamunite/
- Lovering, T. G., 1955
radioactivity/ iron oxides/ geochemistry/ analyses/ uranium/ thorium/ Park County/ Garo deposit/ sandstone/ ilmonite/ tyuyamunite/
- Lovering, T. G., and Beroni, E. P., 1956
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive ilmonite/ Lucky Break iron mine/ sandstone/ thorium/ uranium/ spring deposits/ Front Range/ conglomerate/ limestone/ tufa/ analyses/ igneous-metamorphic/ ore deposits/ El Paso County/
- Lovering, T. G., and Beroni, E. P., 1959
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive ilmonite/ Lucky Break iron mine/ thorium/ uranium/ spring deposits/ Front Range/ sandstone/ conglomerate/ limestone/ tufa/ El Paso County/ igneous-metamorphic/ ore deposits/
- Lowell, J. D., 1953
Colorado Plateau/ uranium/ exploration/ cross stratification/ Morrison Formation/ sandstone/ Arizona/ New Mexico/ mud-pebbles/ conglomerate/ Salt Wash Member/ Calamity Mesa/ Mesa County/ Colorado/ Utah/ ore deposits/ Chuska Mountains/
- Lozano, Efraim, 1965
Park County/ sandstone/ Garo area/ uranium/ copper/ vanadium/ South Park/ geology/
- Ludwig, K. R., 1975
uranium/ lead/ isotopes/ dating/ ore deposits/ Colorado Plateau/ sandstone/
- Luedke, R. G., and Shoemaker, E. M., 1953
Colorado Plateau/ tectonic map/ structural geology/ geology/ sandstone/
- Madsen, J. W., 1953
Colorado Plateau/ ore deposits/ reserves/ sandstone/ drilling/ exploration/ Rambler group/ Montrose County/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ Gypsum Valley district/
- Madsen, J. W., 1954
Paradox Member/ Hermosa Formation/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ limestone/ ore deposits/ uranium/ vanadium/ Pitchfork group of claims/ Gypsum Valley district/ San Miguel County/

- Maise, C. R., 1953
Colorado Plateau/ ore deposits/ genesis/ ground water/ mineralization/ sandstone/ Jurassic/ syncline/ aquifers/ experimental simulation/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/
- Malan, R. C., 1957
North Park/ Middle Park/ ore deposits/ Grand County/ Igneous-metamorphic/ Jackson County/ Routt County/ peat/ sandstone/ Pedad claims/ Northgate district/ Beaver Creek area/ Troublesome Creek area/ Rabbit Ears Pass area/
- Malan, R. C., 1969
Intermontane basins/ North Park/ Tertiary/ Middle Park/ South Park/ Raton basin/ Tallahassee Creek district/ sandstone/ ore deposits/ Grand County/ Teller County/ Park County/ arkose/ Fremont County/ mudstone/ Huerfano County/ conglomerate/ genesis/ geology/ Gunnison County/ Saguache County/ exploration/ water sampling/ Wet Mountains/ High Park/ Cochetopa district/ Marshall Pass/ Thirtynine Mile field/
- Malan, R. C., 1969
genesis/ ore deposits/ Tertiary/ intermontane basins/ geology/ uranium/ minerals/ sediments/ stratigraphy/ sandstone/ Middle Park/ South Park/ Raton basin/ Thirtynine Mile volcanic field/ Tallahassee Creek district/ Jackson County/ Grand County/ Park County/ Fremont County/ Huerfano County/ Custer County/
- Malan, R. C., Ranspot, H. W., and Spengler, R. G., 1957
sandstone/ Saguache County/ Cochetopa district/ geology/ stratigraphy/ structure/ ore deposits/ Thornburg mine/ Los Ochos claims/ Kathy Jo claims/ LaRue claims/ veins/ Igneous-metamorphic/ Morrison Formation/ Dakota Sandstone/ granite/ faults/ solutions/ mineralogy/
- Mallory, N. S., and Bird, A. G., 1953
exploration/ geology/ Jefferson County/ Ralston Creek area/ Dawson arkose/ James Peak area/ Boulder County/ Adams County/ Larimer County/ Gilpin County/ Igneous-metamorphic/ Idaho Springs Formation/ sandstone/ Dakota Sandstone/ Morrison Formation/ Front Range/
- Manger, G. E., 1953
drilling/ coring/ original state core studies/ Montrose County/ Uravan district/ sandstone/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ geology/
- Manger, G. E., 1953
geology/ drilling/ sandstone/ original state core studies/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ Montrose County/ coring/
- Manger, G. E., 1954
Uravan district/ ore deposits/ cores/ exploration/ Long Park district/ Montrose County/ sandstone/ carnotite/ spring water/ Henry Clay mine/ Colorado Plateau/ Morrison Formation/ original state core studies/
- Manger, G. E., 1954
Long Park district/ sandstone/ carnotite/ coring/ original state core studies/ drilling/ Montrose County/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/
- Manger, G. E., 1955
cores/ drilling/ original state core studies/ Bitter Creek mines/ Montrose County/ sandstone/ Colorado Plateau/ Long Park district/
- Manger, G. E., 1955
Utah/ Colorado/ sandstone/ Montrose County/ cores/ drilling/ exploration/ Lisbon Valley/ Colorado Plateau/
- Manger, G. E., and Gates, G. L., 1953
Colorado Plateau/ sandstone/ cores/ original state core studies/ Montrose County/
- Manger, G. E., Gates, G. L., and Cadigan, R. A., 1955
Colorado Plateau/ cores/ uranium/ sandstone/ original state core studies/ Montrose County/ ore deposits/
- Manger, G. E., Gates, G. L., and Cadigan, R. A., 1957
Colorado/ Utah/ ore deposits/ mineralization/ chemical properties/ Montrose County/ cores/ drilling/ sandstone/ Morrison Formation/ Colorado Plateau/ physical properties/ Salt Wash Member/
- Manger, G. E., Gates, G. L., and Cadigan, R. A., 1975
chemical properties/ drill cores/ physical properties/ exploration/ uranium/ ore deposits/ Long Park district/ Montrose County/ sandstone/ drilling/ host rocks/ Colorado Plateau/
- Marrs, L. F., 1970
ore treatment/ ion exchange/ Saguache County/ Pitch mine/ underground leaching/ Igneous-metamorphic/ veins/ faults/ sandstone/ limestone/
- Marshall, C. H., 1959
Montrose County/ Delta County/ photogeologic map/ Delta quadrangle/ sandstone/ Colorado Plateau/
- Marshall, C. H., 1959
Ouray County/ Montrose County/ photogeologic map/ Norwood-1 quadrangle/ sandstone/ Colorado Plateau/
- Marvin, R. G., 1953
Colorado/ stratigraphy/ Jurassic/ sandstone/ Colorado Plateau/
- Mastrovich, A. M., 1945
vanadium/ uranium/ lithology/ stratigraphy/ geology/ exploration/ sandstone/ carbonaceous materials/ mineralization/ ore deposits/ San Miguel River district/ San Miguel Plateau area/ Colorado Plateau/ San Miguel County/ Montrose County/ Entrada Sandstone/
- Mauger, R. L., 1967
Utah/ Colorado Plateau/ isotopes/ age dating/ ore deposits/ minerals/ Lisbon Valley/ sandstone/ Montrose County/

- Maxwell, J. C., 1977
elements/ analyses/ hydrogeochemistry/ stream waters/ stream sediments/ Sterling area/ Fort Morgan area/ South Platte drainage/ data/ Morgan County/ Logan County/ Washington County/ sandstone/ ground water/
- McDougald, W. D., 1954
stratigraphy/ radioactivity/ radiation detectors/ geology/ radiation monitoring/ Paleocene/ Ohio conglomerate/ Eocene/ DeBeque area/ Mesa County/ Garfield County/ Colorado Plateau/ sandstone/
- McDougald, W. D., 1955
Skull Creek district/ ore deposits/ exploration/ sandstone/ Moffat County/ drilling/ Colorado Plateau/
- McKay, E. J., 1951
Colorado Plateau/ ore deposits/ Mesa County/ Montrose County/ Uravan district/ Gateway district/ ore guides/ exploration/ sandstone/ Morrison Formation/ Salt Wash Member/ carnotite/
- McKay, E. J., 1953
Carpenter Ridge/ Carpenter Flats/ Martin Mesa/ Uravan district/ Montrose County/ Red Canyon quadrangle/ carnotite/ Dolores mines/ Raven mine/ Shamrock mine/ sandstone/ Morrison Formation/ Salt Wash Member/ stratigraphy/ Brushy Basin Member/ Mesa County/ Colorado Plateau/ ore deposits/ geology/
- McKay, E. J., 1953
Blue Mesa/ Uravan district/ Mesa County/ Montrose County/ sandstone/ Morrison Formation/ Salt Wash Member/ Utah/ stratigraphy/ Colorado Plateau/ carnotite/ Gateway district/ ore deposits/ exploration/ geology/ genesis/ localization/ ore guides/
- McKay, E. J., 1953
Uravan district/ Montrose County/ ore guides/ carnotite/ Star No. 1 claim/ Wright mines/ theories of origin/ sandstone/ Morrison Formation/ Salt Wash Member/ stratigraphy/ Brushy Basin Member/ Burro Canyon Formation/ geology/ Colorado Plateau/ ore deposits/ Wingate Sandstone/ Mesa County/ Atkinson Creek quadrangle/
- McKay, E. J., 1954
Montrose County/ Mesa County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ Dolores mines/ Shamrock mines/ Raven claim/ Martin Mesa/ Carpenter Flats/ carnotite/ geology/ ore deposits/ Red Canyon quadrangle/
- McKay, E. J., 1955
Montrose County/ Mesa County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ Dolores mines/ Shamrock mines/ Raven claim/ Martin Mesa/ Carpenter Flats/ carnotite/ geology/ ore deposits/ Red Canyon quadrangle/
- McKay, E. J., 1955
Montrose County/ Mesa County/ Atkinson Creek quadrangle/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ Wright mines/ Star No. 1 claim/ geology/ ore deposits/
- McKay, E. J., 1955
Colorado/ Utah/ Gateway district/ ore deposits/ exploration/ Jurassic/ Morrison Formation/ Uravan district/ Salt Wash Member/ sandstone/ Mesa County/ Montrose County/ Colorado Plateau/ geology/
- McKay, E. J., and Bergin, M. J., 1974
Moffat County/ Maybell quadrangle/ Browns Park Formation/ sandstone/ Marge mine/ geology/ Colorado Plateau/ ore deposits/
- McKay, E. J., and Jobin, D. A., 1954
Montrose County/ Mesa County/ Atkinson Creek quadrangle/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ Wright mines/ Star No. 1 claim/ geology/ ore deposits/
- McKelvey, V. E., 1953
Colorado Plateau/ Dolores County/ Mesa County/ exploration/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ phosphates/ shale/ placers/
- McKelvey, V. E., 1953
veins/ Dolores County/ Mesa County/ exploration/ sandstone/ igneous-metamorphic/ Front Range/ pegmatites/ geobotany/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ Colorado Plateau/ phosphates/ shale/ placers/
- McKelvey, V. E., 1954
Dolores County/ Mesa County/ exploration/ carnotite/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ veins/ Colorado Plateau/ phosphates/ shale/ placers/
- McKelvey, V. E., 1955
ore deposits/ exploration/ veins/ bituminous substances/ coal/ sandstone/ phosphates/ United States/ Dolores County/ Mesa County/ Gilpin County/ igneous-metamorphic/ Clear Creek County/ Montrose County/ San Miguel County/ Front Range/ Colorado Plateau/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1955
genesis/ uranium/ ore deposits/ veins/ bituminous substances/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ Montrose County/ San Miguel County/ Mesa County/ igneous-metamorphic/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1955
veins/ bituminous substances/ genesis/ uranium/ ore deposits/ igneous-metamorphic/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ San Miguel County/ Montrose County/ Mesa County/

- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ ore deposits/ migmatites/ sandstone/ shale/ igneous-metamorphic/ Colorado/ Colorado Plateau/ San Juan County/ San Miguel County/ coal/ Jefferson County/ Montrose County/ Old Leyden mine/ uranium/ Gilpin County/ Clear Creek County/ Front Range/ genesis/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ Colorado/ genesis/ uranium/ ore deposits/ pegmatites/ migmatites/ San Miguel County/ sandstone/ coal/ shale/ Front Range/ Colorado Plateau/ San Juan County/ replacement/ Jefferson County/ Montrose County/ Old Leyden mine/ Mesa County/ Gilpin County/ igneous-metamorphic/ phosphorites/ Clear Creek County/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1952
uranium/ ore deposits/ igneous-metamorphic/ sandstone/ shale/ phosphorites/ Colorado Plateau/ Colorado/ Front Range/
- McKeown, F. A., and Gude, A. J., 3d, 1951
minerals/ carnotite/ clay/ coal/ lignite/ sandstone/ Laramie Formation/ Front Range/ Jefferson County/ ore deposits/ Old Leyden mine/ reserves/ geology/ structure/
- McMillan, W. D., 1960
minerals/ resources/ Colorado/ New Mexico/ sandstone/ La Plata County/ Archuleta County/ Colorado Plateau/ San Juan irrigation project/ Chama irrigation project/
- McQueen, K., 1958
Saguache County/ Iris SE quadrangle/ photogeologic map/ sandstone/ Los Ochos mine/ uranium/ ore deposits/ structure/ Dakota Sandstone/ Morrison Formation/ igneous-metamorphic/ Los Ochos fault/ Doyleville SW quadrangle/
- Melin, R. E., 1955
bibliography/ annotated/ geology/ sandstone/ uranium/ ore deposits/ United States/ Colorado Plateau/ Morrison Formation/ Shinarump Member/ Chino Formation/ Colorado/ Utah/ Montrose County/ Mesa County/ San Miguel County/ Missouri/ New Mexico/ Wyoming/
- Melin, R. E., 1957
bibliography/ annotated/ sandstone/ uranium/ United States/ ore deposits/ Colorado Plateau/ geology/ Morrison Formation/ Colorado/ Utah/ Missouri/ New Mexico/ Wyoming/ Montrose County/ Mesa County/ San Miguel County/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Front Range/ exploration/ Morrison Formation/ phosphates/ shale/ sandstone/ igneous-metamorphic/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ Dolores County/ Gilpin County/ Clear Creek County/ Garfield County/ Boulder County/
- Merritt, P. L., 1950
uranium/ exploration/ Colorado Plateau/ sandstone/ Morrison Formation/ Entrada Sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Caribou district/ igneous-metamorphic/ Montrose County/ Clear Creek County/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Clear Creek County/ Caribou district/ igneous-metamorphic/
- Merritt, R. C., and Pings, W. B., 1969
uranium ore treatment/ processing/ history/ mining/ Colorado Plateau/ sandstone/ Front Range/ igneous-metamorphic/
- Metal Mining Fund Board, 1961
vanadium/ mineralogy/ geochemistry/ Colorado Plateau/ sandstone/ uranium/ Rifle Creek district/ roscoelite/ San Miguel County/ Montrose County/ Mesa County/ Garfield County/ Placerville district/
- Metzger, O. H., 1944
Colorado/ vanadium/ ore deposits/ stratigraphy/ mineralization/ topography/ geology/ sandstone/ uranium/ McElmo district/ San Juan basin/ Colorado Plateau/ Montezuma County/
- Metzger, O. H., 1945
exploration/ ore deposits/ geology/ mineralization/ mining/ production/ stratigraphy/ topography/ mapping/ uranium/ vanadium/ Calamity district/ Uncompahgre uplift/ sandstone/ Mesa County/ Calamity Mesa/ Flattop Mesa/ mines/ Colorado Plateau/
- Metzger, O. H., 1946
minerals/ Colorado/ Utah/ ore deposits/ mineralization/ geography/ stratigraphy/ mining/ data/ Beaver Creek Mesa district/ Green River Desert area/ Plateau/ sandstone/ uranium/ vanadium/ Mesa County/ Montrose County/
- Michelson, R. A., 1966
uranium/ exploration/ Colorado Plateau/ sandstone/
- Mickey, M. R., Jr., and Jespersen, H. W., Jr., 1954
drilling/ Polar Mesa/ Lukachukai Mountains/ uranium/ Colorado Plateau/ statistics/ sandstone/ Arizona/ ore deposits/
- Miesch, A. T., 1954
statistics/ uranium/ vanadium/ ore deposits/ exploration/ ore guides/ Morrison Formation/ Legln mines/ sandstone/ Colorado Plateau/ San Miguel County/

- Miesch, A. T., 1957
Colorado Plateau/ ore deposits/ exploration/
Jurassic/ chemical composition/ size determination/
sandstone/ Morrison Formation/ zirconium/ uranium/
yttrium/ nickel/ analyses/ statistics/ ore guides/
San Miguel County/
- Miesch, A. T., 1958
Colorado Plateau/ ore deposits/ exploration/
chemical composition/ size determination/ Jurassic/
sandstone/ ore guides/ uranium/ statistics/
San Miguel County/ Montrose County/ Mesa County/
Dolores County/ Morrison Formation/
- Miesch, A. T., 1958
Colorado Plateau/ ore deposits/ exploration/
size determination/ sandstone/ Jurassic/ Morrison
Formation/ ore guides/ uranium/ statistics/
San Miguel County/ Montrose County/ Mesa County/
chemical composition/ Dolores County/
- Miesch, A. T., 1961
Colorado Plateau/ ore deposits/ sandstone/ chemical
composition/ genesis/ mineralization/ Morrison
Formation/ uranium/ Legn area/ San Miguel County/
Salt Wash Member/
- Miesch, A. T., 1962
Colorado Plateau/ sandstone/ mineralogy/ chemistry/
lithology/ host rocks/ ore deposits/ stratigraphy/
- Miesch, A. T., 1962
San Miguel County/ Frenchy Incline/ ore deposits/
geochemistry/ trace-element analyses/ genesis/
sandstone/ Morrison Formation/ Colorado Plateau/
- Miesch, A. T., 1963
Colorado Plateau/ ore deposits/ elements/ geology/
Morrison Formation/ Chinle Formation/ Moffat
County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
San Miguel County/ Montezuma County/ La Plata
County/ Archuleta County/ sandstone/ Dolores
County/
- Miesch, A. T., and Riley, L. B., 1960
Colorado Plateau/ ore deposits/ chemical properties/
chemical analyses/ methods/ statistical methods/
geochemistry/ sandstone/
- Miesch, A. T., and Shoemaker, E. M., 1957
uranium/ Colorado Plateau/ elements/ sandstone/
San Miguel County/ Montrose County/
- Miesch, A. T., and Shoemaker, E. M., n.d.
Bull Canyon quadrangle/ Montrose County/ Colorado
Plateau/ elements/ sandstone/ uranium/ ore deposits/
- Miesch, A. T., Shoemaker, E. M., and Newman, W.
L., 1958
elements/ Colorado Plateau/ sandstone/ Chinle
Formation/ analyses/ uranium/ vanadium/ Morrison
Formation/ Uravan district/ statistics/ San
Miguel County/ Dolores County/ Montrose County/
Mesa County/
- Miesch, A. T., Shoemaker, E. M., Newman, W. L.,
and others, 1959
chemical composition/ ore guides/ ore deposits/
- Morrison Formation/ Salt Wash Member/ Colorado
Plateau/ sandstone/ analyses/ statistics/ Mesa
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ geology/
- Miesch, A. T., Shoemaker, E. M., Newman, W. L.,
and others, 1960
Colorado Plateau/ ore deposits/ sandstone/ ore
guides/ deposit size/ Jurassic/ Mesa County/
Delta County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ uranium/ chemical
composition/ Morrison Formation/
- Milkey, R. G., 1952
Colorado Plateau/ age determination/ analyses/
methods/ carnotite/ age studies/ mineralogy
studies/ sandstone/ San Miguel County/ Montrose
County/
- Miller, D. S., 1959
Colorado Plateau/ ore deposits/ genesis/ isotopes/
absolute age/ Colorado/ sandstone/ limestone/
- Miller, D. S., 1960
Colorado Plateau/ ore deposits/ genesis/ research/
data/ isotopes/ lead/ sulfur/ uranium/ age dating/
Colorado/ sandstone/ limestone/ volcanics/ San
Miguel County/ igneous-metamorphic/
- Miller, D. S., 1960
Colorado Plateau/ ore deposits/ genesis/ isotopes/
absolute age/ Colorado/ sandstone/ limestone/
San Miguel County/ uranium/ lead/ sulfur/
- Miller, D. S., and Kulp, J. L., 1958
Colorado Plateau/ ore deposits/ genesis/ geochemistry/
isotopes/ uranium/ Colorado/ age dating/ sandstone/
- Miller, D. S., and Kulp, J. L., 1963
Colorado Plateau/ Colorado/ uranium/ genesis/
ore deposits/ geochemistry/ age dating/ isotopes/
sandstone/ limestone/ volcanics/ igneous-metamorphic/
- Miller, D. S., and Kulp, J. L., 1969
Colorado Plateau/ isotopes/ sandstone/ genesis/
ore deposits/ geochemistry/
- Miller, G. B., 1946
ore deposits/ vanadium/ mineralization/ geography/
stratigraphy/ mining/ data/ Carpenter Ridge
district/ Dolores Plateau area/ Colorado Plateau/
Montrose County/ sandstone/ uranium/
- Miller, L. J., 1953
Colorado Plateau/ ore deposits/ mineralization/
uraninite/ ore textures/ Colorado/ uranium/
alteration/ sandstone/ geothermometry/
- Miller, L. J., 1953
Colorado Plateau/ ore deposits/ mineralization/
uraninite/ ore textures/ Colorado/ geothermometry/
sandstone/ alteration/
- Milgate, M. L., 1953
Entrada Sandstone/ Summerville Formation/ Judy
claims/ Joker group/ Gypsy Queen claims/ Miracle
claims/ Gypsum Valley district/ Montrose County/
Colorado Plateau/ reserves/ exploration/ drilling/

- sandstone/ ore deposits/ uranium/ vanadium/
Morrison Formation/
- Minerals Map Company, 1956
Colorado Plateau/ ore deposits/ maps/ sandstone/
Montrose County/ Dolores County/ Mesa County/
Delta County/ Garfield County/ Moffat County/
San Miguel County/
- Mobley, C. M., 1953
Pay Day group/ drilling/ exploration/ reserves/
Gypsum Valley district/ San Miguel County/ sandstone/
Morrison Formation/ Salt Wash Member/ ore deposits/
uranium/ vanadium/ Colorado Plateau/
- Moore, R. B., 1913
ore deposits/ carnotite/ Colorado/ Utah/ mining/
uranium/ radium/ vanadium/ North Carolina/ marketing/
San Miguel County/ Montrose County/ Mesa County/
Gilpin County/ pitchblende/ Huerfano County/
Colorado Plateau/ Front Range/ sandstone/
- Moore, R. B., 1923
Colorado/ vanadium/ sandstone/ Colorado Plateau/
- Morehouse, G. E., 1951
Placerville district/ ore deposits/ thucholite/
veins/ bituminous substances/ uraninite/ White
Spar prospect/ faults/ sandstone/ Morrison Formation/
Colorado Plateau/ San Miguel County/ Black King
prospect/ Dolores Formation/
- Motica, J. E., 1968
Uravan district/ genesis/ solutions/ Morrison
Formation/ precipitation/ sandstone/ lenses/
Jurassic/ Salt Wash Member/ Mesa County/ Montrose
County/ San Miguel County/ geology/ uranium/
vanadium/ ore deposits/ Colorado Plateau/
- Moxham, R. M., 1958
radioactivity/ airborne surveys/ exploration/
equipment/ phosphates/ placers/ heavy minerals/
Texas/ Florida/ Wyoming/ New Mexico/ Colorado/
Moffat County/ sandstone/ Colorado Plateau/
geology/ Maybell-Lay district/
- Mull, C. G., 1960
geology/ Grand Hogback monocline/ Garfield County/
sandstone/ Entrada Sandstone/ vanadium/ Rifle
district/ Colorado Plateau/
- Mullens, T. E., and Freeman, V. L., 1952
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/
Colorado Plateau/ Colorado/ uranium/ vanadium/
Mesa County/ Montrose County/ Dolores County/
Montezuma County/ La Plata County/ Utah/ Arizona/
New Mexico/ San Miguel County/ Morrison Formation/
- Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/
Colorado Plateau/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ La Plata County/ Moffat County/ Garfield
County/ Delta County/ San Juan County/ Eagle
County/ Pitkin County/ Gunnison County/ Ouray
County/ Hinsdale County/ Archuleta County/ genesis/
ore deposits/ Morrison Formation/ Rio Blanco
County/
- Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San
Juan County/ Morrison Formation/ stratigraphy/
Colorado Plateau/ Moffat County/ Rio Blanco
County/ Garfield County/ Eagle County/ Mesa
County/ Delta County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ La
Plata County/ genesis/ ore deposits/ Pitkin
County/ Gunnison County/ Ouray County/ Hinsdale
County/ Archuleta County/
- Murray, D. K., 1976
energy resources/ map/ uranium/ coal/ oil/ gas/
geothermal/ Colorado/ Colorado Plateau/ Front
Range/ sandstone/ Igneous-metamorphic/
- Murray, D. K., and Haun, J. D., 1974
age estimation/ geology/ geomorphology/ mineral
resources/ natural gas/ petroleum/ Piceance
Creek basin/ sediments/ stratigraphy/ uranium/
Utah/ Rio Blanco County/ Garfield County/ Mesa
County/ Moffat County/ Colorado Plateau/ sandstone/
- Myers, A. T., and Waring, C. L., 1956
analyses/ spectrography/ Colorado Plateau/ pyrite/
ore deposits/ uranium/ geochemistry/ thorium/
selenium/ sandstone/
- Narten, P. F., 1953
Colorado Plateau/ ore deposits/ exploration/
geobotany/ indicator plants/ New Mexico/ Utah/
absorber plants/ sandstone/
- Narten, P. F., 1953
Colorado Plateau/ exploration/ ore deposits/
indicator plants/ geobotany/ selenium/ sulfur/
uranium/ Morrison Formation/ sandstone/ Utah/
- Narten, P. F., Crawford, J. E., and Butler, A.
P., Jr., 1951
Clear Creek County/ Garfield County/ Jefferson
County/ Montrose County/ Rio Blanco County/
Dakota Sandstone/ Mesa County/ Fountain Formation/
Green River Formation/ Laramie Formation/ Hermosa
Formation/ Paradox Member/ shales/ sandstone/
Front Range/ Colorado Plateau/
- Nash, A. L., 1953
Utah/ Colorado/ Montrose County/ Colorado Plateau/
Morrison Formation/ Salt Wash Member/ Chinle
Formation/ Mossback Member/ Cutler Formation/
San Miguel County/ Skeln Mesa/ reconnaissance/
sandstone/ siltstone/ shale/ stratigraphy/ geology/
airborne surveying/
- Nash, A. L., 1953
airborne surveying/ San Miguel County/ Utah/
Colorado/ geology/ Salt Wash Member/ stratigraphy/
Montrose County/ ore deposits/ Empire group/
Colorado Plateau/ sandstone/ conglomerate/ Morrison
Formation/ Shinarump Member/ Cutler Formation/
Lisbon Valley district/ Indian Creek area/ Skeln
Mesa/
- Nash, A. L., and Brown, L. J., 1954
Canon City embayment/ airborne radiometrics/
Pueblo County/ shale/ clay/ George Avery Ranch/
carnotite/ analyses/ Hoyt Adkins Ranch/ Burgess

- prospect/ El Paso County/ Dawson Arkose/ sandstone/ Dakota Formation/ Fremont County/ geology/ Morrison Formation/ Front Range/
- Nelson, J. M., 1953
car-mounted equipment/ gamma-ray logging/ sandstone/ exploration/ Colorado Plateau/ Geiger-Mueller counter/
- Newman, W. L., 1951
Long Park area/ Montrose County/ reserves/ resources/ Colorado Plateau/ ore deposits/ sandstone/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Newman, W. L., 1953
Colorado Plateau/ element distribution/ sedimentary rocks/ igneous-metamorphic/ Legln group area/ San Miguel County/ sandstone/ uranium/ vanadium/ oxides/ Ute Mountains/
- Newman, W. L., 1957
Colorado Plateau/ element distribution/ sedimentary rocks/ igneous-metamorphic/ sandstone/ uranium/ vanadium/ Morrison Formation/ Chinle Formation/ Uravan district/ San Miguel County/ Jo Dandy area/ Montrose County/ mudstone/
- Newman, W. L., 1959
Colorado Plateau/ ore deposits/ sandstone/ resources/ indicators/ ore guides/ chemical composition/ exploration/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/
- Newman, W. L., 1962
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ sandstone/ mudstone/ limestone/ Uravan district/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/
- Newman, W. L., and Elston, D. P., 1957
element distribution/ Salt Wash Member/ Morrison Formation/ Jo Dandy area/ Montrose County/ sandstone/ stratigraphy/ correlation/ mudstone/ Colorado Plateau/
- Newman, W. L., and Elston, D. P., 1959
elements/ Salt Wash Member/ Morrison Formation/ Jo Dandy area/ Montrose County/ sandstone/ mudstone/ Colorado Plateau/
- Newman, W. L., Shoemaker, E. M., and Miesch, A. T., 1959
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ Morrison Formation/ Salt Wash Member/ sandstone/ Uravan district/ San Miguel County/
- Nininger, R. D., 1954
veins/ minerals/ atomic energy/ Colorado Plateau/ sandstone/
- Nininger, R. D., and Wentzel, Volkmar, 1954
exploration/ ore deposits/ Colorado Plateau/ Uravan district/ Dolores County/ San Miguel County/ Montrose County/ sandstone/
- Noble, E. A., 1959
Colorado Plateau/ uranium belts/ genesis/ ore deposits/ Uravan district/ Lisbon Valley district/ San Juan basin/ Colorado/ New Mexico/ Utah/ Mesa County/ San Miguel County/ Montrose County/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ Montezuma County/
- Noble, E. A., 1960
Colorado Plateau/ ore deposits/ uranium belts/ genesis/ Uravan district/ Lisbon Valley district/ San Juan basin/ Colorado/ New Mexico/ Utah/ Mesa County/ San Miguel County/ Montrose County/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ Chinle Formation/ Montezuma County/
- Noble, E. A., and Annes, E. C., Jr., 1957
Uinta basin/ ore deposits/ exploration/ Chinle Formation/ Curtis Formation/ Morrison Formation/ Mesaverde Group/ Green River Formation/ Uinta Formation/ Moffat County/ Rio Blanco County/ sandstone/ mudstone/ siltstone/ limestone/ shale/ Skull Creek district/ conglomerate/ Weber Sandstone/ Colorado Plateau/
- Nordyke, Lewis, 1956
uranium/ Colorado Plateau/ sandstone/
- Notestein, F. B., 1918
ore deposits/ geochemistry/ genesis/ experimental studies/ uranium/ vanadium/ Colorado Plateau/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/
- Olson, J. C., 1975
uranium/ ore deposits/ Cochetopa district/ Oligocene erosion surface/ Gunnison County/ sandstone/ Saguache County/ volcanics/ veins/ igneous-metamorphic/
- Olson, J. C., Butler, A. P., Jr., Finch, W. I., and Fischer, R. P., 1973
resources/ uranium/ thorium/ production/ exploration/ veins/ sandstone/ San Miguel County/ Colorado Plateau/ Gunnison County/ Saguache County/
- Ormond, Allen, 1957
uranium/ Wyoming/ geology/ genesis/ petroleum/ sandstone/ minerals/ Moffat County/ Browns Park Formation/ ore deposits/ Colorado Plateau/
- Osterwald, F. W., 1965
ore deposits/ genesis/ veins/ mining districts/ structural controls/ Moffat County/ pitchblende/ conglomerate/ Front Range/ igneous-metamorphic/ sandstone/ Jefferson County/ Boulder County/ Montrose County/ Clear Creek County/ Gilpin County/ Saguache County/ Fremont County/
- Osterwald, F. W., and Dean, B. G., 1956
bibliography/ structural geology/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ Clear Creek County/ igneous-metamorphic/ sandstone/ Front Range/ Grand County/ Jackson County/ Summit County/ Eagle County/ Rio Blanco County/ Garfield County/ Routt County/ Moffat County/ ore deposits/ tectonics/

- Osterwald, F. W., and Dean, B. G., 1958
ore deposits/ tectonics/ structural geology/
Larimer County/ Boulder County/ Jefferson County/
Gippli County/ Clear Creek County/ igneous-metamorphic/
sandstone/ Front Range/ Grand County/ Jackson
County/ Summit County/ Eagle County/ Rio Blanco
County/ Garfield County/ Routt County/ Moffat
County/
- Outerbridge, W. F., 1957
Slick Rock area/ San Miguel County/ minerals/
fluid inclusions/ thermometry/ mineralogy/ Colorado
Plateau/ sandstone/
- Page, L. R., 1956
uranium/ thorium/ ore guides/ exploration/ Colorado/
sandstone/ igneous-metamorphic/ geology/ Colorado
Plateau/
- Page, L. R., 1956
uranium/ thorium/ ore guides/ igneous-metamorphic/
exploration/ Colorado/ sandstone/ geology/ Colorado
Plateau/
- Page, L. R., Stocking, H. E., and Smith, H. B.,
compilers, 1956
Colorado Plateau/ Front Range/ Gunnison County/
limestone/ Montrose County/ Jefferson County/
arkose/ sandstone/ shale/ geology/ uranium/
thorium/ exploration/ igneous-metamorphic/ San
Miguel County/ geochemistry/ mineralogy/ conglomerate/
- Palst, D. A., 1970
vanadium/ alloys/ compounds/ San Miguel County/
metallurgy/ history/ ore deposits/ geology/
sandstone/ Colorado Plateau/ Montrose County/
Mesa County/ Garfield County/ Uravan district/
Placerville district/ Rifle district/ carnotite/
roscoelite/
- Pakiser, L. C., and Black, R. A., 1956
channels/ exploration/ refraction/ seismograph/
Utah/ geophysics/ Monument Valley/ Arizona/
Colorado Plateau/ sandstone/
- Paterson, W. C., 1951
Colorado Plateau/ ore deposits/ production/
thorium/ power/ weapons/ sandstone/
- Payne, A. L., 1962
Colorado Plateau/ uranium/ vanadium/ copper/
silver/ sandstone/ gneiss/ geology/ ore deposits/
igneous-metamorphic/
- Payne, A. L., 1962
Colorado Plateau/ uranium/ vanadium/ copper/
silver/ sandstone/ gneiss/ geology/ ore deposits/
igneous-metamorphic/
- Pettijohn, F. J., 1963
chemical composition/ sandstone/ uranium/ thorium/
monazite/ United States/ Colorado Plateau/ Morrison
Formation/ Salt Wash Member/
- Phillips, A. H., 1904
radium/ carnotite/ Montrose County/ San Miguel
County/ Mesa County/ Colorado/ Utah/ uranium/
vanadium/ chemistry/ concentration/ sandstone/
Colorado Plateau/
- Phoenix, D. A., 1949
Colorado Plateau/ ground water/ ore deposits/
genesis/ Calamity Mesa/ Outlaw Mesa/ Mesa County/
paleo-ground water/ sandstone/
- Phoenix, D. A., 1950
Colorado Plateau/ ground water/ Calamity Mesa/
Mesa County/ sandstone/
- Phoenix, D. A., 1951
Mesa County/ Calamity Mesa area/ gamma-ray logging/
ground water/ minerals/ pitchblende/ sandstone/
Morrison Formation/ Salt Wash Member/ correlation/
permeability logs/ uranium/ Colorado Plateau/
ore deposits/
- Phoenix, D. A., 1951
ground water/ Colorado Plateau/ analyses/ Colorado/
Utah/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/ Colorado Plateau/ Morrison
Formation/
- Phoenix, D. A., 1952
Atkinson Mesa/ Calamity Mesa/ Slick Rock district/
Montrose County/ San Miguel County/ ground water/
carnotite/ sandstone/ Morrison Formation/ stratigraphy/
Brushy Basin Member/ Recapture Member/ Westwater
Canyon Member/ Colorado Plateau/ Mesa County/
Salt Wash Member/
- Phoenix, D. A., 1953
ground water/ Colorado Plateau/ ore deposits/
Morrison Formation/ sandstone/
- Phoenix, D. A., 1955
Mesa County/ Montrose County/ San Miguel County/
ground water/ analyses/ Utah/ uranium/ vanadium/
ore deposits/ Colorado Plateau/ Morrison Formation/
sandstone/
- Phoenix, D. A., 1956
carnotite/ permeability/ Morrison Formation/
Mesa County/ uranium/ vanadium/ sandstone/ ore
deposits/ Colorado Plateau/ ground water/
- Phoenix, D. A., 1956
carnotite/ permeability/ Morrison Formation/
Mesa County/ uranium/ vanadium/ sandstone/ ore
deposits/ Colorado Plateau/ ground water/
- Phoenix, D. A., 1958
Colorado/ Utah/ ore deposits/ sandstone/ conglomerate/
Jurassic/ Morrison Formation/ Colorado Plateau/
uranium/ Brushy Basin Member/ stratigraphy/
Mesa County/ Montrose County/ San Miguel County/
- Phoenix, D. A., 1959
Colorado Plateau/ Colorado/ Morrison Formation/
sandstone/ Mesa County/ Montrose County/ San
Miguel County/ ground water/ analyses/ chemistry/
Utah/
- Phoenix, D. A., and Franks, P. C., 1956
geothermal/ sandstone/ Colorado Plateau/ drilling/
Utah/ Arizona/ Colorado/ San Miguel County/
Disappointment Valley/ stratigraphy/ ore deposits/
mineralogy/ paleontology/ geology/

Phoenix, David A., 1955

Mesa County/ Montrose County/ San Miguel County/ theories of origin of sandstone-type uranium deposits/ uranium deposits/ host rock: sandstone/ Morrison Formation/ stratigraphy of Morrison Formation/ ground water studies/

Pierce, A. P., Mytton, J. W., and Gott, G. B., 1956

Colorado/ Texas/ Kansas/ Arkansas/ New Mexico/ Arizona/ Utah/ crude oil/ asphaltite/ petroleum/ helium/ natural gas/ Las Animas County/ Montezuma County/ Adams County/ radon/ uranium/ thorium/ radium/ sandstone/

Pierce, A. P., Mytton, J. W., and Gott, G. B., 1956

Colorado/ Texas/ Kansas/ Arkansas/ New Mexico/ Arizona/ Utah/ crude oil/ asphaltite/ petroleum/ helium/ natural gas/ Las Animas County/ Montezuma County/ Adams County/ radon/ uranium/ thorium/ radium/ sandstone/

Pierson, C. T., 1953

San Juan Mountains/ ore deposits/ exploration/ analyses/ Lark mine/ San Juan County/ Smuggler mine/ San Miguel County/ veins/ sandstone/ Colorado Plateau/ Igneous-metamorphic/

Piprlingos, G. N., Hall, W. J., Jr., and Izett, G. A., 1969

Routt County/ Jackson County/ Chinle Formation/ Sundance Formation/ Park Range/ sandstone/ siltstone/ Triassic/ Jurassic/

Pommer, A. M., 1956

oxidation potential/ Colorado Plateau/ uranium/ vanadium/ sandstone/ Salt Wash Member/ Morrison Formation/ Utah/ Arizona/ Colorado/ New Mexico/ Montrose County/ Mesa County/ Dolores County/ Montezuma County/ Jo Dandy area/ ore deposits/ genesis/ Woody material/ San Miguel County/

Pommer, A. M., 1956

Colorado Plateau/ Montrose County/ Jo Dandy mines/ Mineral Joe mine/ genesis/ uranium/ oxidation potential/ vanadium/ woody material/ organics/ geochemistry/ sandstone/ ore deposits/

Pommer, A. M., 1956

Colorado Plateau/ ore deposits/ genesis/ deposition/ minerals/ thermodynamics/ solutions/ sandstone/ Morrison Formation/ uranium/ vanadium/ transportation/

Pommer, A. M., 1958

Colorado Plateau/ ore deposits/ uraninite/ genesis/ simulation/ uranium/ Montrose County/ analyses/ coal/ sandstone/

Poole, F. G., and Williams, G. A., 1956

sediments/ Colorado Plateau/ ore guides/ uranium/ vanadium/ exploration/ sandstone/ conglomerate/ Morrison Formation/ transportation direction/ Chinle Formation/ Montrose County/ Entrada Sandstone/ Mesa County/ Delta County/ Triassic/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/

Poole, F. G., and Williams, G. A., 1956

ore guides/ exploration/ uranium/ vanadium/ sandstone/ conglomerate/ transportation direction/

Morrison Formation/ Chinle Formation/ Entrada Sandstone/ sediments/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Triassic/ Colorado Plateau/ San Miguel County/

Popenoe, Peter, 1965

arkose/ shale/ sandstone/ conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ geology/ aeroradioactivity survey/ conglomerate/ Front Range/

Popenoe, Peter, 1965

Laramie Formation/ Dawson arkose/ Pierre Shale/ Castle Rock Conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ gamma-ray logs/ airborne radioactivity/ Front Range/ Fox Hills Sandstone/

Prichard, G. E., 1955

Colorado/ Wyoming/ Washakie basin/ Baggs area/ ore deposits/ Miocene/ Browns Park Formation/ Moffat County/ sandstone/ conglomerate/

Prichard, G. E., 1956

Colorado/ Wyoming/ Baggs area/ ore deposits/ Miocene/ Browns Park Formation/ sandstone/ petrology/ analyses/ Moffat County/ geochemistry/

Proctor, P. D., Hyatt, E. P., and Bullock, K. C., 1954

uranium/ sandstone/ exploration/ Colorado Plateau/

Pruess, R. C., 1954

Colorado Plateau/ history/ sandstone/

Puffett, W. P., and Welr, G. W., 1959

Utah/ Colorado/ Lisbon Valley/ sandstone/ North Alice mine/ Chinle Formation/ Cutler Formation/ Montrose County/ Colorado Plateau/ geology/ mapping/ Big Indian district/

Rabbitt, J. C., 1950

analyses/ geochemistry/ petrology/ Colorado Plateau/ sandstone/ trace elements/ Front Range/ Igneous-metamorphic/

Rabbitt, J. C., 1950

trace elements/ annual report/ Colorado Plateau/ Front Range/ sandstone/ Igneous-metamorphic/

Rabbitt, J. C., 1951

Central City district/ Jamestown district/ ore deposits/ pitchblende/ Blue Jay mine/ bostonite/ fluorite/ veins/ breccia/ Colorado Plateau/ carnotite project/ sandstone/ Igneous-metamorphic/ Boulder County/ Gilpin County/ Clear Creek County/ Front Range/

Rabbitt, J. C., 1951

Blue Jay mine/ Jamestown district/ Colorado Plateau/ bostonite dikes/ Front Range/ Central City district/ mineralogy/ petrology/ geochemistry/ radioactivity/ fluorite/ Clear Creek County/

- pitchblende/ ore deposits/ minerals/ Gilpin County/ veins/ breccia/ sandstone/ Boulder County/ Igneous-metamorphic/
- Rabbitt, J. C., 1951
Front Range/ Central City district/ ore deposits/ ore guides/ exploration/ Clear Creek County/ Gilpin County/ Colorado Plateau/ Jamestown district/ mineralogy/ petrology/ geochemistry/ pitchblende/ Blue Jay mine/ bostonite/ fluorite/ veins/ breccia/ sandstone/ Igneous-metamorphic/ Boulder County/
- Rabbitt, J. C., 1952
Colorado Plateau/ carnotite project/ Gilpin County/ Larimer County/ sandstone/ Igneous-metamorphic/ Front Range/
- Rabbitt, J. C., 1952
Colorado Plateau/ Front Range/ Central City district/ ore deposits/ exploration/ trace elements/ sandstone/ Igneous-metamorphic/ Gilpin County/ Clear Creek County/
- Rackley, R. I., 1971
genesis/ sandstone/ tectonics/ sedimentation/ environments/ ore controls/ ore deposits/ Colorado Plateau/
- Rackley, R. I., 1975
geology/ geochemistry/ ore deposits/ fluvial sediments/ sandstone/ Colorado Plateau/
- Rackley, R. I., 1976
strata-bound deposits/ stratiform deposits/ ore deposits/ mineralization/ genesis/ uranium/ Colorado Plateau/ sandstone/
- Raines, G. L., 1971
Gunnison County/ Saguache County/ sandstone/ limestone/ shale/ Igneous-metamorphic/ Sargents area/ geology/ veins/
- Rankama, Kalvero, and Sahama, T. G., 1950
uranium/ vanadium/ geochemistry/ Igneous-metamorphic/ biogeochemistry/ coal/ shale/ sandstone/ Colorado/ ore deposits/ carnotite/ uraninite/ Utah/ Colorado Plateau/
- Rankama, Kalvero, and Sahama, T. G., 1950
vanadium/ geochemistry/ Igneous-metamorphic/ sediments/ sandstone/ carnotite/ clays/ shale/ ore deposits/ Utah/ Colorado/ uranium/ Colorado Plateau/
- Ransome, F. L., and Hillebrand, W. F., 1905
ore deposits/ carnotite/ accessory minerals/ sandstone/ Placerville district/ San Miguel County/ Roc Creek area/ Montrose County/ Mesa County/ uranium/ vanadium/ genesis/ analyses/ Colorado Plateau/ veins/
- Ranspot, H. W., 1958
Indian Creek area/ ore deposits/ geology/ Gunnison County/ Saguache County/ uranium/ shale/ sandstone/ limestone/ Igneous-metamorphic/ limestone/ Pitch mine/
- Ranspot, H. W., and Spengler, R. G., 1957
uranium/ ore deposits/ radioactivity/ stratigraphy/
- geology/ exploration/ Marshall Pass area/ Gunnison County/ Saguache County/ Igneous-metamorphic/ sandstone/ limestone/ Pitch mine/
- Rasor, C. A., 1953
Colorado Plateau/ ore deposits/ geology/ sandstone/ uranium/
- Read, H. L., Jr., 1976
Grover uranium deposit/ exploration/ sandstone/ Laramie Formation/ Weld County/ Denver basin/
- Redmon, D. E., 1960
ore deposits/ resources/ production/ drilling/ economics/ costs/ exploration/ uranium/ Colorado Plateau/ New Mexico/ Arizona/ Utah/ Colorado/ Wyoming/ equipment/ sandstone/
- Reimer, G. M., and Otton, J. K., 1976
helium/ soils/ gases/ ground water/ ore deposits/ Weld County/ sandstone/
- Reinhardt, E. V., 1952
Colorado Plateau/ Igneous-metamorphic/ sandstone/ uranium/ vanadium/ Tertiary intrusives/ La Plata County/ San Miguel County/ ore deposits/
- Reinhardt, E. V., 1952
Colorado Plateau/ ore deposits/ ore guides/ uranium/ vanadium/ copper/ hydrocarbons/ limestone/ sandstone/ Morrison Formation/ Salt Wash Member/ Entrada Sandstone/ Shinarump Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/
- Reinhardt, E. V., 1954
Colorado Plateau/ ore deposits/ genesis/ structural controls/ sandstone/
- Reinhardt, E. V., 1963
Colorado Plateau/ Uravan district/ structure/ ore deposits/ genesis/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/
- Research, Incorporated, 1955
Colorado Plateau/ ore deposits/ exploration/ geophysics/ geochemistry/ techniques/ research/ development/ sandstone/
- Richardson, A. C., 1949
ore deposits/ carnotite/ production/ sandstone/ Colorado Plateau/
- Riley, L. B., 1946
Park County/ sandstone/ Garo district/ carnotite/ copper/ vanadium/ Front Range/
- Riley, L. B., 1953
Mesa County/ Colorado Plateau/ sandstone/ clay/ mineralogy/
- Riley, L. B., 1954
selenium/ uranium/ Colorado Plateau/ Uravan district/ ore deposits/ sandstone/ San Miguel County/ Montrose County/
- Riley, L. B., and Owens, J. P., 1957
Saguache County/ Pitch mine/ Cashrin mine/ Montrose

- County/ Colorado Plateau/ mineralogy/ sandstone/ veins/ igneous-metamorphic/
- Riley, L. B., and Shoemaker, E. M., 1952
Colorado Plateau/ ore deposits/ elements/ Mesa County/ Montrose County/ San Miguel County/ spectrographic analyses/ sandstone/
- Roach, C. H., 1953
Colorado Plateau/ reserves/ exploration/ sandstone/ uranium/ vanadium/ Morrison Formation/ Spring Creek Mesa area/ Montrose County/ ore deposits/ Salt Wash Member/
- Roach, C. H., 1953
Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Spring Creek Mesa area/ Montrose County/
- Roach, C. H., 1953
Colorado Plateau/ reserves/ exploration/ ore deposits/ sandstone/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Spring Creek Mesa area/ Montrose County/
- Roach, C. H., 1953
Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Spring Creek Mesa area/ Montrose County/
- Roach, C. H., 1954
Spring Creek Mesa area/ ore deposits/ Colorado Plateau/ exploration/ stratigraphy/ ore guides/ Montrose County/ drilling/ sandstone/ Morrison Formation/ Salt Wash Member/ minerals/ coffinite/ corvusite/ fernaldinite/ montroselite/ melanovanadite/ pitchblende/
- Roach, C. H., and Alvord, D. C., 1970
maps/ drilling/ exploration/ sandstone/ San Miguel bench area/ Uravan district/ Montrose County/ Colorado Plateau/ Spring Creek Mesa area/
- Roach, C. H., and Thompson, M. E., 1955
Bull Canyon district/ Montrose County/ minerals/ coffinite/ digenite/ montroselite/ uraninite/ Peanut mine/ sandstone/ sedimentary structures/ ore localization/ Morrison Formation/ stratigraphy/ uranium/ oxidation/ Colorado Plateau/ ore deposits/
- Roach, C. H., and Thompson, M. E., 1959
Bull Canyon district/ Montrose County/ minerals/ coffinite/ digenite/ montroselite/ uraninite/ Peanut mine/ sandstone/ sedimentary structures/ ore localization/ stratigraphy/ uranium/ oxidation/ Colorado Plateau/ ore deposits/ Morrison Formation/
- Roach, C. H., and Wallace, R. M., 1957
Montrose County/ San Miguel County/ sandstone/ Bull Canyon district/ uranium/ ore deposits/ genesis/ Colorado Plateau/
- Robeck, R. C., 1960
Colorado/ Utah/ ore deposits/ geology/ maps/ structure/ oil/ gas/ sandstone/ Colorado Plateau/ geology/ Lisbon Valley/ uranium/ Montrose County/ San Miguel County/
- Robertson, D. S., 1970
uranium/ geology/ ore guides/ exploration/ ore deposits/ leaching/ sandstone/ arkose/ Colorado Plateau/
- Rogers, A. S., 1950
San Miguel County/ minerals/ carnotite/ geology/ sandstone/ Morrison Formation/ Salt Wash Member/ Legln group/ drilling/ leaching/ ore deposits/ Colorado Plateau/
- Rogers, W. B., and Shawe, D. R., 1962
Disappointment Valley/ ore deposits/ sandstone/ exploration/ uranium/ vanadium/ Slick Rock district/ San Miguel County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sections/ mineralization/ Lower group/ Middle group/ Georgetown group/ Burro group/ Veta Mad mine/ drilling/ Georgetown mine/
- Rosenzweig, A., Gruner, J. W., and Gardiner, L., 1952
pitchblende/ uranium/ Colorado Plateau/ Colorado/ Triassic/ Jurassic/ sediments/ petrology/ Chinle Formation/ Shinarump Member/ sandstone/
- Rosenzweig, A., Gruner, J. W., and Gardiner, L., 1953
pitchblende/ Colorado Plateau/ Triassic/ Jurassic/ sandstone/ Colorado/ Chinle Formation/
- Rosenzweig, A., Gruner, J. W., and Gardiner, L., 1954
Colorado Plateau/ uraninite/ characteristics/ Triassic/ Jurassic/ bituminous substances/ uranium/ sandstone/ paragenesis/ ore deposits/ Montrose County/ San Miguel County/ Placerville district/ La Sal Creek district/ Chinle Formation/
- Rosholt, J. N., Jr., 1960
Colorado Plateau/ ore deposits/ simulation/ uranium migration/ sandstone/ uranium/ San Miguel County/ age dating/ experimental studies/
- Rosholt, J. N., Jr., Butler, A. P., Jr., Garner, E. L., and others, 1965
Colorado/ Wyoming/ genesis/ sandstone/ leaching/ geochemistry/ isotopes/ fractionation/ Powder River basin/ Slick Rock district/ San Miguel County/ uranium/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/
- Rosholt, J. N., Jr., Shields, W. P., and Garner, E. L., 1963
isotopes/ fractionation/ uranium/ sandstone/ Colorado Plateau/
- Ross, Malcolm, 1958
vanadium/ minerals/ crystallography/ x-ray analyses/ Colorado Plateau/ Montrose County/ sandstone/ mineralogy/ electron diffraction/
- Ross, Malcolm, 1959
vanadium/ minerals/ crystallography/ x-ray analyses/ Colorado Plateau/ Montrose County/ sandstone/ mineralogy/ electron diffraction/
- Rove, O. N., 1946
trace elements/ reconnaissance/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/

- Ruckmick, J. C., 1953
heavy minerals/ simulation/ ore deposits/ placers/
gravels/ sandstone/ Mesa County/ Montrose County/
Dolores County/ Montezuma County/ samarskite/
Shinarump Member/ conglomerate/ Colorado Plateau/
fluvial deposits/ San Miguel County/
- Russell, W. L., and Scherbatskoy, S. A., 1951
Colorado Plateau/ ore deposits/ genesis/ exploration/
gamma-ray detectors/ sandstone/ Front Range/
Instrumentation/ Morrison Formation/ Salt Wash
Member/ Gilpin County/ Clear Creek County/ Boulder
County/ San Miguel County/ Montrose County/
igneous-metamorphic/ Entrada Sandstone/
- Salotti, C. A., 1961
Fremont County/ igneous-metamorphic/ sandstone/
Cotopaxi area/ Howard area/ geology/ petrology/
- Sample, R. D., Albee, H. F., and Stephens, H. G.,
1953
Montrose County/ claim map/ Bull Canyon quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., Albee, H. F., and Stephens, H. G.,
1953
Montrose County/ San Miguel County/ claim map/
Anderson Mesa quadrangle/ sandstone/ Colorado
Plateau/
- Sample, R. D., Albee, H. F., and Stephens, H. G.,
1953
San Miguel County/ claim map/ Hamm Canyon quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., Albee, H. F., and Stephens, H. G.,
1953
Montrose County/ claim map/ Red Canyon quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., Albee, H. F., and Stephens, H. G.,
1953
claim map/ Colorado Plateau/ Horse Range Mesa/
ore deposits/ sandstone/ Charles A claims/ Apex
claims/ Rio Grande claims/ Hot Foot claims/
Summit claims/ Radium claims/ Bean claims/ Charles
T claims/ uranium/ vanadium/ San Miguel County/
Morrison Formation/
- Sample, R. D., and Albee, H. F., 1951
Montrose County/ claim map/ Atkinson Creek quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1951
Montrose County/ San Miguel County/ claim map/
Bull Canyon quadrangle/ sandstone/ Colorado
Plateau/
- Sample, R. D., and Albee, H. F., 1951
Montrose County/ claim map/ Davis Mesa quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1951
Montrose County/ San Miguel County/ claim map/
Naturita NW quadrangle/ sandstone/ Colorado
Plateau/
- Sample, R. D., and Albee, H. F., 1951
Mesa County/ claim map/ Calamity Mesa quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1951
Mesa County/ claim map/ Pine Mountain quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1952
Montrose County/ claim map/ Roc Creek quadrangle/
sandstone/ veins/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1952
Montrose County/ claim map/ Uravan quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1952
San Miguel County/ claim map/ Gypsum Gap quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1952
Montrose County/ claim map/ Paradox quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1953
Mesa County/ claim map/ Juanita Arch quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1953
Mesa County/ claim map/ Gateway quadrangle/
sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1953
San Miguel County/ claim map/ Joe Davis Hill
quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1953
San Miguel County/ claim map/ Egnar quadrangle/
sandstone/ Colorado Plateau/
- Sandor, J., 1952
vanadium/ uranium/ sandstone/ Colorado Plateau/
production/
- Saum, N. M., and Link, J. M., 1969
uranium/ ore deposits/ exploration/ history/
Front Range/ Schwartzwalder mine/ Jefferson
County/ igneous-metamorphic/ geochemistry/ genesis/
hydrothermal deposits/ sandstone/ Morrison Formation/
Uravan district/ Montrose County/ San Miguel
County/ Mesa County/ New Mexico/ Utah/ Wyoming/
diatremes/ lignites/ phosphates/ remote sensing/
Colorado Plateau/
- Schlottmann, J. D., 1957
uranium/ ore deposits/ stratigraphy/ mineralization/
geology/ lithology/ Alaska Humes claims/ Grand
County/ Jackson County/ sandstone/ Dakota Sandstone/
carnotite/ Rabbit Ears Pass area/
- Schlottmann, J. D., and Brown, L. J., 1955
uranium/ ore deposits/ radioactivity/ stratigraphy/
geology/ drilling/ Troublesome area/ Middle
Park/ Grand County/ exploration/ Beaver Creek
area/ sandstone/ clay/ conglomerate/ mineralization/
Oligocene/ structure/ regolith/ Cretaceous/
Pierre Shale/ Precambrian rocks/ airborne reconnaissance/
Troublesome Formation/

- Schlottmann, J. D., and Smith, L. E., 1954
Middle Park/ Troublesome Formation/ mineralization/
ore deposits/ Oligocene/ sandstone/ clay/ conglomerate/
Grand County/ carnotite/ autunite/ schroekingerite/
stratigraphy/ structure/
- Schmidt-Collerus, J. J., 1967
uranium/ organic matter/ geochemistry/ literature
review/ sandstone/ ore deposits/ coal/
- Schmidt-Collerus, J. J., 1969
uranium/ organic matter/ geochemistry/ sandstone/
coal/ ore deposits/
- Schnabel, R. W., 1955
veins/ marine black shales/ sandstone/ ore deposits/
- Schultz, L. G., 1956
clays/ Colorado Plateau/ Triassic rocks/ sandstone/
- Schultz, L. G., 1957
clays/ Triassic/ Colorado Plateau/ sandstone/
- Schultz, L. G., 1963
clay minerals/ Moenkopi Formation/ Chinle Formation/
x-ray diffraction/ Ouray County/ Rio Blanco
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ Colorado Plateau/
sandstone/ La Plata County/
- Scott, B. C., 1957
uranium/ ore deposits/ geology/ asphaltite/
sandstone/ faults/ thermal waters/ ground water/
mineralization/ Dakota hogback/ structure/ Morrison
area/ Jefferson County/ Front Range/ Dakota
Sandstone/
- Scott, J. B., 1952
Colorado Plateau/ Vanura group/ San Miguel County/
drilling/ exploration/ ore deposits/ sandstone/
Morrison Formation/ reserves/ uranium/ vanadium/
- Scott, R. A., 1961
fossil wood/ uranium/ Colorado Plateau/ Colorado/
sandstone/
- Sears, J. D., 1924
Moffat County/ Browns Park Formation/ Bishop
Conglomerate/ sandstone/ geology/ Green River/
Yampa River/ conglomerate/ genesis/ surface water/
- Sears, R. S., Marjanleml, D. K., and Blomquist,
J. T., 1974
Colorado/ computers/ data processing/ exploration/
geology/ Iron/ maps/ New Mexico/ petroleum/
potassium/ radioactivity/ rocks/ stratigraphy/
thorium/ uranium/ ore deposits/ minerals/ well
logging/ Morrison Formation/ San Juan basin/
Archuleta County/ La Plata County/ sandstone/
Colorado Plateau/
- Segerstrom, Kenneth, and Young, E. J., 1972
geology/ Hahns Peak quadrangle/ Farwell Mountain
quadrangle/ Routt County/ Triassic/ Jurassic/
Precambrian rocks/ sedimentary rocks/ sandstone/
Igneous-metamorphic/
- Seldel, D. C., and Kuhn, T. H., 1961
Colorado/ vanadium/ study/ bibliography/ Colorado
Plateau/ sandstone/
- Senftle, F. E., Stieff, L. R., Cuttitta, Frank,
and others, 1956
U-235/ U-238/ sandstone/ isotopes/ radium/ Colorado
Plateau/ ore deposits/ Montrose County/
- Senftle, F. E., Stieff, L. R., Cuttitta, Frank,
and others, 1957
U-238/ U-235/ ore deposits/ Colorado Plateau/
Isotopes/ radium/ Montrose County/ sandstone/
- Shappirio, J. R., 1963
Fremont County/ sandstone/ geology/ petrology/
Tallahassee Creek area/ ore deposits/ conglomerate/
- Shappirio, J. R., and Heinrich, E. W., 1961
Tallahassee Creek area/ ore deposits/ Fremont
County/ uranium/ conglomerate/ sandstone/
- Shappirio, J. R., and Heinrich, E. W., 1962
Tallahassee Creek area/ ore deposits/ Fremont
County/ uranium/ conglomerate/ sandstone/
- Sharp, R. R., Jr., and Aamodt, P. L., 1976
hydrogeochemistry/ springs/ South Platte River/
analyses/ natural waters/ South Park/ Tarryall
Creek/ West Fourmile Creek/ Currant Creek/ Badger
Creek/ surface water/ ground water/ Teller County/
Park County/ Badger Flats/ Boomer mine/ sandstone/
Garo deposit/ Igneous-metamorphic/
- Shawe, D. R., 1955
San Miguel County/ Dolores County/ Slick Rock
district/ sandstone/ Colorado Plateau/ ore deposits/
geology/
- Shawe, D. R., 1955
Slick Rock district/ San Miguel County/ Dolores
County/ sandstone/ Colorado Plateau/ ore deposits/
geology/
- Shawe, D. R., 1956
alteration/ Colorado Plateau/ ore deposits/
deposition/ uranium/ vanadium/ Colorado/ sandstone/
- Shawe, D. R., 1956
roll fronts/ sandstone/ Garfield County/ Rifle
mine/ Colorado Plateau/ genesis/ uranium/ vanadium/
ore deposits/ geology/
- Shawe, D. R., 1962
Colorado Plateau/ ore localization/ Uravan district/
sedimentation/ uranium/ vanadium/ Morrison Formation/
sandstone/ carbonaceous materials/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ ore deposits/
- Shawe, D. R., 1966
uranium/ vanadium/ roll fronts/ tabular ore/
ore deposits/ zoning/ elements/ Colorado Plateau/
Montrose County/ Garfield County/ sandstone/
- Shawe, D. R., 1968
Slick Rock district/ ore deposits/ Chinle Formation/
Morrison Formation/ San Miguel County/ Dolores

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- County/ petrography/ sandstone/ uranium/ vanadium/
Colorado Plateau/
- Shawe, D. R., 1969
ore deposits/ minerals/ Utah/ Uravan district/
exploration/ Montrose County/ San Miguel County/
Dolores County/ uranium/ vanadium/ sandstone/
Morrison Formation/ Colorado Plateau/
- Shawe, D. R., 1970
geology/ tectonics/ ore deposits/ Slick Rock
district/ structure/ San Miguel County/ Dolores
County/ salt anticlines/ uranium/ vanadium/
sandstone/ Colorado Plateau/
- Shawe, D. R., 1973
Slick Rock district/ ore deposits/ red beds/
alteration/ deposition/ genesis/ vanadium/ uranium/
sandstone/ carbonaceous materials/ San Miguel
County/ Mancos Shale/ Morrison Formation/ pore
waters/ Colorado Plateau/
- Shawe, D. R., 1974
alteration/ red beds/ uranium/ vanadium/ ore
deposits/ Colorado Plateau/ Slick Rock district/
San Miguel County/ sandstone/ Mancos Shale/
Morrison Formation/ carbonaceous material/ Dolores
County/ genesis/ deposition/ pore waters/
- Shawe, D. R., 1976
alteration/ Slick Rock district/ San Miguel
County/ Dolores County/ sandstone/ uranium/
vanadium/ Morrison Formation/ Chinle Formation/
Colorado Plateau/
- Shawe, D. R., 1976
geologic history/ Slick Rock district/ Colorado
Plateau/ Dolores County/ sandstone/ tectonics/
uranium/ San Miguel County/ vanadium/
- Shawe, D. R., and Archbold, N. L., 1958
San Miguel County/ sandstone/ Morrison Formation/
Summerville Formation/ Slick Rock district/
Colorado Plateau/ geology/ map/
- Shawe, D. R., and Granger, H. C., 1965
uranium ore/ rolls/ Rifle district/ Uravan district/
Colorado Plateau/ sandstone/ Entrada Sandstone/
Garfield County/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Morrison
Formation/
- Shawe, D. R., and others, 1956
San Miguel County/ Dolores County/ sandstone/
Cougar mine/ Slick Rock district/ Colorado Plateau/
ore deposits/ geology/
- Shawe, D. R., Archbold, N. L., Boudette, E. L.,
and others, 1954
Colorado Plateau/ reserves/ exploration/ sandstone/
uranium/ vanadium/ Morrison Formation/ Salt
Wash Member/ Disappointment Valley/ Legln area/
Spud Patch area/ Slick Rock district/ San Miguel
County/ ore deposits/
- Shawe, D. R., Archbold, N. L., and Simmons, G.
C., 1958
Colorado Plateau/ geology/ uranium/ vanadium/
ore deposits/ Slick Rock district/ San Miguel
County/ Dolores County/ County/ sandstone/ genesis/
Morrison Formation/
- Shawe, D. R., Archbold, N. L., and Simmons, G.
C., 1959
Colorado Plateau/ geology/ uranium/ vanadium/
ore deposits/ Slick Rock district/ San Miguel
County/ Dolores County/ sandstone/ genesis/
Morrison Formation/
- Shawe, D. R., Archbold, N. L., Boudette, E. L.,
and others, 1978
sandstone/ Colorado Plateau/ San Miguel County/
Slick Rock district/ uranium/ vanadium/ ore
deposits/ Dolores County/
- Shawe, D. R., Simmons, G. C., and Rogers, William,
1956
San Miguel County/ Dolores County/ Slick Rock
district/ sandstone/ Colorado Plateau/ geology/
ore deposits/
- Shawe, D. R., Simmons, G. C., and Archbold, N.
L., 1957
San Miguel County/ Dolores County/ Slick Rock
district/ sandstone/ Colorado Plateau/ ore deposits/
- Shawe, D. R., Simmons, G. C., and Archbold, N.
L., 1968
stratigraphy/ Slick Rock district/ San Miguel
County/ Dolores County/ sandstone/ Morrison
Formation/ uranium/ vanadium/ Chinle Formation/
Colorado Plateau/
- Shearer, S. D., Jr., and Sill, C. W., 1969
atmospheric radiation/ contamination/ enrichment/
environment/ meteorology/ mining/ populations/
radiation doses/ residues/ safety/ sampling/
uranium/ zones/ radon-222/ seasons/ Colorado
Plateau/ diurnal variation/ hazards/ radiation
hazards/ Utah/ mill tailings/ sandstone/ Mesa
County/ La Plata County/
- Shoemaker, E. M., 1950
minerals/ carnotite/ Colorado Plateau/ geology/
Paradox district/ Uravan district/ Jo Dandy
area/ exploration/ drilling/ Jo Dandy mines/
Monogram mines/ Opera Box mines/ Thunderbolt
mines/ Montrose County/ production/ reserves/
resources/ sandstone/ ore deposits/ Morrison
Formation/ Salt Wash Member/ uranium/ vanadium/
- Shoemaker, E. M., 1951
structure/ Sinbad Valley anticline/ Fisher Valley
anticline/ salt anticlines/ Mesa County/ Montrose
County/ sandstone/ Utah/ Colorado Plateau/
- Shoemaker, E. M., 1952
Mesa County/ Montrose County/ Sinbad Valley
anticline/ Fisher Valley anticline/ salt anticlines/
sandstone/ Utah/ Colorado Plateau/
- Shoemaker, E. M., 1954
Utah/ Colorado/ New Mexico/ Arizona/ Colorado
Plateau/ structural features/ Uncompahgre uplift/
tectonics/ San Miguel County/ Montrose County/
Dolores County/ Montezuma County/ Delta County/

- diatremes/ La Plata County/ sandstone/ geology/ guidebook/ Mesa County/ Igneous-metamorphic/
- Shoemaker, E. M., 1954
Colorado Plateau/ ore deposits/ geochemistry/ sandstone/ Colorado/ elements/ Igneous-metamorphic/ laccoliths/
- Shoemaker, E. M., 1954
Uravan district/ Mesa County/ Juanita Arch quadrangle/ geology/ ore guides/ minerals/ carnotite/ mines/ Maverick mines/ sandstone/ Morrison Formation/ Salt Wash Member/ stratigraphy/ Brushy Basin Member/ conglomerate/ copper/ silver/ ore deposits/ mineralogy/ Colorado Plateau/
- Shoemaker, E. M., 1954
Montrose County/ Roc Creek quadrangle/ Colorado Plateau/ sandstone/ geology/
- Shoemaker, E. M., 1955
Montrose County/ Roc Creek quadrangle/ stratigraphy/ Colorado Plateau/ Uravan district/ structure/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Wingate Sandstone/ Kayenta Formation/ Entrada Sandstone/ Rajah mine/ Radium Cycle mine/ Carpenter Ridge/ Carpenter Flats/ copper/ silver/ shear zones/ geology/ map/
- Shoemaker, E. M., 1955
Mesa County/ Juanita Arch quadrangle/ stratigraphy/ Colorado Plateau/ carnotite/ structure/ Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ sandstone/ conglomerate/ Maverick mines/ Depression mines/ Uravan district/ geology/ map/
- Shoemaker, E. M., 1955
Mesa County/ Juanita Arch quadrangle/ stratigraphy/ structure/ Colorado Plateau/ carnotite/ Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ sandstone/ conglomerate/ Maverick mines/ Depression mines/ Uravan district/ geology/ map/
- Shoemaker, E. M., 1955
Colorado Plateau/ sandstone/ elements/ correlation/
- Shoemaker, E. M., 1956
Montrose County/ Roc Creek quadrangle/ Colorado Plateau/ Uravan district/ stratigraphy/ structure/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Wingate Sandstone/ Kayenta Formation/ Radium Cycle mine/ Carpenter Ridge/ copper/ silver/ shear zones/ geology/ map/ Chinle Formation/ Entrada Rajah mine/ Carpenter Flats/
- Shoemaker, E. M., 1956
structural features/ Colorado Plateau/ ore deposits/ veins/ Moffat County/ Rio Blanco County/ La Plata County/ uranium/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ San Juan County/ Ouray County/ sandstone/ Montezuma County/ Dolores County/ Archuleta County/
- Shoemaker, E. M., and Luedke, R. G., 1952
Colorado Plateau/ map/ uranium/ ore deposits/ sandstone/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/
- San Miguel County/ Dolores County/ Ouray County/ Montezuma County/ La Plata County/ Garfield County/
- Shoemaker, E. M., and Newman, W. L., 1957
Moenkopi Formation/ salt anticlines/ sandstone/ Montrose County/ San Miguel County/ Dolores County/ geology/ Colorado Plateau/ Utah/ Mesa County/
- Shoemaker, E. M., Miesch, A. T., Newman, W. L., and others, 1955
Colorado Plateau/ elements/ analyses/ sandstone/ ore classification/ ore composition/ uranium/ ore deposits/
- Shoemaker, E. M., Miesch, A. T., Newman, W. L., and others, 1959
sandstone/ elements/ Triassic/ Jurassic/ Morrison Formation/ vanadium/ Chinle Formation/ Colorado Plateau/
- Shoemaker, E. M., Newman, W. L., and Miesch, A. T., 1957
element sources/ sandstone/ uranium/ Colorado Plateau/ copper/ lead/ nickel/ host formations/ maps/ ore deposits/ genesis/
- Shumway, G. L., 1970
uranium industry/ Colorado Plateau/ history/ sandstone/ San Miguel County/ Dolores County/ Montrose County/
- Simmons, G. C., 1957
Burro Canyon Formation/ Slick Rock district/ San Miguel County/ stratigraphy/ sandstone/ Colorado Plateau/
- Simmons, G. C., 1957
sandstone/ Burro Canyon Formation/ Dakota Sandstone/ formation contacts/ Slick Rock district/ correlation/ fossils/ Dolores County/ San Miguel County/ geology/ stratigraphy/ Colorado Plateau/
- Simmons, G. C., 1957
Dakota Sandstone/ stratigraphy/ Slick Rock district/ correlation/ Burro Canyon Formation/ sandstone/ San Miguel County/ Dolores County/ Colorado Plateau/ geology/
- Simmons, G. C., Shawe, D. R., and Rogers, W. B., 1956
Horse Range Mesa/ Hamm Canyon/ Colorado Plateau/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Slick Rock district/ San Miguel County/ Disappointment Valley area/
- Simon, M. R., 1956
ore deposits/ Huerfano County/ Raton basin/ Fremont County/ Custer County/ Las Animas County/ sandstone/ Costilla County/ uranium/ geology/ arkose/
- Singewald, Q. D., Christman, R. A., and others, 1956
Custer County/ Fremont County/ McKinley Mountain area/ Igneous-metamorphic/ geology/ radiometrics/ maps/ City/ Colorado Plateau/ Gilpin County/ metamorphic/ ore deposits/ Colorado/ sandstone/ Front Range/

- Skeet, T. H., 1962
vanadium/ Colorado/ Colorado Plateau/ sandstone/
- Smith, C. T., 1946
geology/ geologic ore deposits/ Montrose County/
vanadium/ stratigraphy/ exploration/ uranium/
mineralization/ Uravan district/ stratigraphy/
San Miguel Plateau/ San Miguel County/ sandstone/
Mesa County/ Colorado Plateau/
- Smith, C. T., 1946
geology/ uranium/ ore deposits/ White River
uplift/ vanadium/ geography/ exploration/ mining/
maps/ tables/ Rifle mine/ Grand Hogback district/
Garfield County/ Entrada Sandstone/ sandstone/
Colorado Plateau/
- Smith, C. T., 1955
Colorado Plateau/ ore deposits/ uranium/ San
Miguel County/ Montrose County/ Mesa County/
sandstone/ geology/
- Smith, C. T., 1960
Colorado Plateau/ sandstone/ history/ uranium/
mining/ geology/ Paradox basin/
- Solster, P. E., Conklin, D. R., and Bowman, M.
D., 1956
Colorado/ New Mexico/ Utah/ Arizona/ United
States/ bibliography/ trace element reports/
uranium/ vanadium/ thorium/ sandstone/ Colorado
Plateau/ Front Range/ Igneous-metamorphic/
- Spirakis, C. S., 1976
semipermeable membranes/ ore deposits/ genesis/
vanadium/ uranium/ sandstone/ Rifle mine/ Garfield
mine/ Garfield County/ geochemistry/ Colorado
Plateau/ Entrada Sandstone/
- Spirakis, C. S., 1977
Rifle mine/ Garfield mine/ ore deposits/ uranium/
vanadium/ sandstone/ Garfield County/ genesis/
Colorado Plateau/ semipermeable membranes/ Entrada
Sandstone/
- Spirakis, C. S., 1977
Garfield County/ uranium/ vanadium/ ore deposits/
Entrada Sandstone/ sandstone/ geochemistry/
Rifle mine/ Garfield mine/ ore genesis/ Colorado
Plateau/ semipermeable membranes/
- Staatz, M. H., 1975
thorium/ ore deposits/ Igneous-metamorphic/
Custer County/ Fremont County/ Gunnison County/
deposits/ Colorado/ Igneous-metamorphic/ sandstone/
Front Range/
- Stafford, H. S., 1955
uranium/ exploration/ geology/ stratigraphy/
sedimentary rocks/ carnotite/ Triassic sediments/
Eagle County/ State Bridge-Walcott area/ sandstone/
ore deposits/
- Stager, H. K., 1949
Mesa County/ carnotite/ uranium/ production/
ore deposits/ Calamity Mesa/ reserves/ resources/
sandstone/ government leases/ Colorado Plateau/
- Stager, H. K., 1950
uranium/ vanadium/ Mesa County/ exploration/
drilling/ Calamity claims/ Colorado Plateau/
Outlaw Mesa/ sandstone/ ore deposits/ geology/
carnotite/ Morrison Formation/ Salt Wash Member/
Uravan district/ reserves/
- Stager, H. K., 1950
Colorado Plateau/ carnotite/ Calamity Mesa/
ore deposits/ Mesa County/ exploration/ drilling/
ore guides/ Maverick group area/ Sunflower claim/
production/ uranium/ vanadium/ reserves/ resources/
sandstone/ Morrison Formation/ Salt Wash Member/
- Stager, H. K., 1951
ore guides/ vanadium/ Mesa County/ exploration/
drilling/ Calamity group/ geology/ minerals/
carnotite/ ore deposits/ Colorado Plateau/ uranium/
production/ reserves/ resources/ sandstone/
Morrison Formation/ Salt Wash Member/
- Stager, H. K., 1952
Colorado Plateau/ drilling/ sandstone/ Morrison
Formation/ Salt Wash Member/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ ore
deposits/ reserves/ La Sal Creek district/ Paradox
Valley district/
- Stager, H. K., 1953
Gypsum Valley district/ La Sal Creek area/ Montrose
County/ San Miguel County/ Colorado Plateau/
drilling/ exploration/ ore deposits/ reserves/
sandstone/ uranium/ vanadium/
- Stager, H. K., 1970
maps/ exploration/ drilling/ sandstone/ Calamity
Mesa/ Mesa County/ Colorado Plateau/
- Stephens, H. G., 1950
Long Park area/ minerals/ carnotite/ geology/
ore deposits/ Uravan district/ Mesa County/
Montrose County/ exploration/ drilling/ reserves/
resources/ sandstone/ Salt Wash Member/ Colorado
Plateau/ uranium/ vanadium/ Morrison Formation/
- Stephens, H. G., 1951
Long Park area/ Montrose County/ reserves/ resources/
sandstone/ Colorado Plateau/ ore deposits/ uranium/
vanadium/ Morrison Formation/
- Stephens, H. G., and Cramer, M. A., 1951
reserves/ Long Park area/ Montrose County/ sandstone/
Colorado Plateau/ ore deposits/ uranium/ vanadium/
Morrison Formation/
- Stephens, H. G., and Ekren, E. B., 1952
uranium/ vanadium/ Colorado Plateau/ sandstone/
exploration/ ore deposits/ reserves/ drilling/
Long Park area/ Montrose County/ geology/ carnotite/
Morrison Formation/ Salt Wash Member/
- Stephens, H. G., and Newman, W. L., 1951
Long Park area/ Montrose County/ exploration/
drilling/ reserves/ resources/ sandstone/ Colorado
Plateau/ Morrison Formation/ ore deposits/ uranium/
vanadium/

- Stern, T. W., and Stieff, L. R., 1953
Colorado Plateau/ Larimer County/ Mesa County/
minerals/ coffinite/ Copper King mine/ La Sal
No. 2 mine/ sandstone/ Front Range/ Igneous-metamorphic/
- Stern, T. W., and Stieff, L. R., 1956
age determination/ Colorado Plateau/ Mesa County/
uranium/ Montrose County/ San Miguel County/
Bob Tail mine/ Jo Dandy mines/ Radium No. 6
mine/ Calamity mines/ radiocolloids/ radium/
genesis/ Club mines/ sandstone/ ore deposits/
- Stern, T. W., and Stieff, L. R., 1959
radium/ uranium/ equilibrium/ age dates/ minerals/
Colorado Plateau/ sandstone/
- Stern, T. W., Stieff, L. R., Girhard, M. N., and
Meyrowitz, Robert, 1954
age determinations/ Colorado Plateau/ Calamity
Mesa/ Paradox district/ sandstone/ Mesa County/
Montrose County/ Jo Dandy mines/ May Day mine/
Parco mine/ Small Spot mine/ Yellow Cat mines/
mineralogy/ metatyuyamunite/
- Stern, T. W., Stieff, L. R., and Sherwood, A. M.,
1955
coffinite/ uranium/ ore deposits/ Colorado Plateau/
sandstone/ Larimer County/ Copper King mine/
mineralogy/ chemistry/ Front Range/ veins/ Montrose
County/ Igneous-metamorphic/
- Stern, T. W., Stieff, L. R., Girhard, M. N., and
Meyrowitz, Robert, 1956
Colorado Plateau/ Mesa County/ metatyuyamunite/
uranium/ vanadium/ x-ray analyses/ geochemistry/
sandstone/ mineralogy/
- Stern, T. W., Stieff, L. R., Evans, H. T., Jr.,
and Sherwood, A. M., 1957
doloresite/ vanadium oxides/ Colorado Plateau/
Montrose County/ Mesa County/ sandstone/ La
Sal mine/ Morrison Formation/ Corvusite mine/
Matchless mine/ Black Mama mine/ Arrowhead mine/
Lumsden mine/ Golden Cycle mine/ J.J. mine/
Peanut mine/ x-ray analyses/ geochemistry/ mineralogy/
- Stern, T. W., Stieff, L. R., Evans, H. T., Jr.,
and Sherwood, A. M., 1957
doloresite/ vanadium oxides/ Colorado Plateau/
Montrose County/ Mesa County/ sandstone/ La
Sal mine/ Morrison Formation/ Corvusite mine/
Matchless mine/ Arrowhead mine/ Lumsden mine/
Golden Cycle mine/ J.J. mine/ Peanut mine/ x-ray
analyses/ geochemistry/ mineralogy/ Black Mama
mine/
- Stewart, J. H., 1953
exploration/ Colorado Plateau/ Moon Mesa area/
Mesa County/ Montrose County/ ore deposits/
sandstone/ Morrison Formation/ geology/ reserves/
carnotite/ Salt Wash Member/ drilling/ uranium/
vanadium/ Horse Mesa area/
- Stewart, J. H., 1953
Colorado Plateau/ geology/ ore deposits/ ore
guides/ drilling/ Mesa County/ Montrose County/
Moon Mesa area/ Horse Mesa area/ production/
- uranium/ vanadium/ resources/ reserves/ minerals/
carnotite/ Black Jumbo claims/ sandstone/ Morrison
Formation/ Salt Wash Member/
- Stewart, J. H., 1955
Colorado Plateau/ sandstone/ stratigraphy/ Triassic
studies/ Arizona/ Colorado/ Nevada/ Utah/ ore
deposits/
- Stewart, J. H., 1956
Colorado Plateau/ sandstone/ Triassic studies/
stratigraphy/ ore deposits/
- Stewart, J. H., 1956
geology/ stratigraphy/ Triassic/ uranium/ Colorado
Plateau/ Utah/ Colorado/ sandstone/ Chinle Formation/
- Stewart, J. H., and Wilson, R. F., 1960
Dolores County/ San Miguel County/ Montrose
County/ Chinle Formation/ sandstone/ Moenkopi
Formation/ Wingate Sandstone/ correlation/ Triassic/
Colorado Plateau/ salt anticlines/ Paradox basin/
- Stewart, J. H., Mullens, T. E., and Williams, G.
A., 1954
Dolores County/ Mesa County/ Montrose County/
Isopach maps/ Colorado Plateau/ sandstone/ Morrison
Formation/ stratigraphy/ Cutler Formation/ Hoskinnini
tongue/ Moenkopi formation/ Utah/ Arizona/
- Stewart, J. H., Poole, F. G., and Wilson, R. F., 1956
Colorado Plateau/ Triassic studies/ sandstone/
correlation/ stratigraphy/ ore deposits/
- Stewart, J. H., Poole, F. G., and Wilson, R. F., 1957
Triassic studies/ cross-strata studies/ sandstone/
Colorado Plateau/ stratigraphy/
- Stewart, J. H., Poole, F. G., and Wilson, R. F., 1958
Triassic studies/ sandstone/ Colorado Plateau/
stratigraphy/ correlation/ ore deposits/
- Stewart, J. H., Poole, F. G., and Wilson, R. F., 1958
stratigraphy/ genesis/ lithologic units/ Triassic/
Colorado Plateau/ shale/ sandstone/ limestone/
- Stewart, J. H., Poole, F. G., Wilson, R. F., and
others, 1972
stratigraphy/ genesis/ Colorado Plateau/ Chinle
Formation/ Triassic strata/ sandstone/ conglomerate/
petrology/ shale/
- Stewart, J. H., Williams, G. A., Albee, H. F.,
and others, 1956
stratigraphy/ Triassic rocks/ Colorado Plateau/
sandstone/ Moenkopi Formation/ Chinle Formation/
Wingate Sandstone/
- Stewart, J. H., Williams, G. A., Albee, H. F.,
and others, 1959
stratigraphy/ Triassic/ Colorado Plateau/ Chinle
Formation/ sandstone/ ore deposits/ sedimentary
structure/ lithofacies/ San Miguel County/ Dolores
County/ sedimentary petrology/
- Stieff, L. R., 1948
carnotite/ Colorado Plateau/ sandstone/ ore
deposits/ mineralogy/

- Stieff, L. R., 1948
Colorado Plateau/ mineralogy/ carnotite/ ore deposits/ Garfield County/ Montrose County/ sandstone/
- Stieff, L. R., 1949
carnotite/ mineralogy/ Colorado Plateau/ ore deposits/ sandstone/
- Stieff, L. R., and Erickson, E. S., Jr., 1953
concentrators/ sandstone/ Colorado Plateau/ uranium/ low grade ores/ ore deposits/
- Stieff, L. R., and Stern, T. W., 1951
age determination/ Colorado Plateau/ genesis/ sandstone/ uranium/ Front Range/ conglomerate/ lead-uranium ratio/ uraninite/ Shinarump conglomerate/ Shinarump Member/ Moenkopi Formation/
- Stieff, L. R., and Stern, T. W., 1952
age determination/ Colorado Plateau/ genesis/ sandstone/ ore deposits/ uranium/ Front Range/ conglomerate/ lead-uranium ratio/ uraninite/ Shinarump Member/ Moenkopi Formation/
- Stieff, L. R., and Stern, T. W., 1953
Colorado Plateau/ sandstone/ isotopes/ geology/ ore deposits/
- Stieff, L. R., and Stern, T. W., 1953
age dating/ uraninite/ Triassic/ Jurassic/ sediments/ Colorado Plateau/ Colorado/ sandstone/
- Stieff, L. R., and Stern, T. W., 1953
Colorado Plateau/ isotopes/ geology/ sandstone/ ore deposits/
- Stieff, L. R., and Stern, T. W., 1953
Colorado Plateau/ isotopes/ lead/ mineralogy/ sandstone/
- Stieff, L. R., and Stern, T. W., 1953
age determination/ Colorado Plateau/ Front Range/ uraninite/ host formations/ Morrison Formation/ Shinarump Member/ Chinle Formation/ sandstone/ conglomerate/
- Stieff, L. R., and Stern, T. W., 1954
isotopic composition/ Colorado Plateau/ genesis/ lead minerals/ isotopes/ mineralogy/ sandstone/
- Stieff, L. R., and Stern, T. W., 1959
uranium/ Colorado Plateau/ genesis/ age dating/ Colorado/ isotopes/ ore deposits/ sandstones/
- Stieff, L. R., Girhard, M. N., and Stern, T. W., 1949
Colorado Plateau/ age determination/ radioactivity/ equilibrium/ carnotite/ sandstone/ ore deposits/ radioactive equilibrium/
- Stieff, L. R., Girhard, M. N., and Stern, T. W., 1950
Colorado Plateau/ age determination/ carnotite/ sandstone/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1952
Colorado Plateau/ age dating/ uranium/ ore deposits/ Pb-U ratio/ Pb-Pb ratio/ sandstone/ uranium/ genesis/ Front Range/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1953
age dating/ uranium/ ore deposits/ Colorado Plateau/ sandstone/ lead-uranium ratios/ Mesa County/ Montrose County/ San Miguel County/ San Juan County/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1953
Colorado Plateau/ age determination/ sandstone/ uranium/ San Juan County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ La Plata County/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1955
Uravan district/ Jefferson County/ Larimer County/ Mesa County/ Montrose County/ San Miguel County/ coffinite/ Copper King mine/ La Sal No. 2 mine/ Matchless mine/ Old Leyden coal mine/ Peanut mine/ Robinson property/ pyrobitumens/ Weatherly property/ Wild Steer mine/ veins/ sandstone/ Cutler Formation/ Dolores Formation/ mineralogy/ Laramie Formation/ Morrison Formation/ Salt Wash Member/ igneous-metamorphic/ Colorado Plateau/ Front Range/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1956
Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Copper King mine/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ San Miguel County/ geochemistry/ x-ray analyses/ mineralogy/ sandstone/ igneous-metamorphic/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ x-ray analyses/ San Miguel County/ sandstone/ Copper King mine/ geochemistry/ igneous-metamorphic/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/ Copper King mine/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ x-ray analyses/ Montrose County/ San Miguel County/ geochemistry/ Colorado Plateau/ sandstone/ igneous-metamorphic/
- Stokes, W. L., 1944
Morrison Formation/ Colorado Plateau/ sandstone/ stratigraphy/ correlation/ Garfield County/ Mesa County/ Delta County/ Gunnison County/ Montrose County/ Ouray County/ Dolores County/ Hinsdale County/ Archuleta County/ Montezuma County/ La Plata County/ ore deposits/ San Juan County/
- Stokes, W. L., 1948
Utah/ Colorado/ geology/ salt domes/ Gypsum Valley district/ structure/ sandstone/ Morrison Formation/ genesis/ road logs/ Colorado Plateau/ San Miguel County/
- Stokes, W. L., 1952
Colorado Plateau/ fossils/ stratigraphy/ Mesa County/ correlation/ San Miguel County/ sandstone/

- Stokes, W. L., 1953
Colorado Plateau/ ore deposits/ mineralization/ Jurassic/ Morrison Formation/ Salt Wash Member/ tectonism/ Utah/ sedimentary features/ organic material/ Blanding district/ San Rafael area/ sandstone/
- Stokes, W. L., 1953
Colorado Plateau/ ore deposits/ sedimentary patterns/ mineralization/ Jurassic/ Morrison Formation/ uranium/ Colorado/ genesis/ sandstone/
- Stokes, W. L., 1954
Colorado Plateau/ ore deposits/ genesis/ Jurassic/ fluvial sediments/ cyclical deposition/ Morrison Formation/ Jurassic/ stratigraphy/ Colorado/ sandstone/
- Stokes, W. L., 1954
Colorado Plateau/ stratigraphy/ sedimentary relations/ structural relations/ ore deposits/ Jurassic/ Morrison Formation/ Salt Wash Member/ sandstone/
- Stokes, W. L., 1958
Colorado Plateau/ sandstone/ continental sediments/ Montrose County/ sandstone/ lead-uranium ratios/ Mesa County/ San Miguel County/ San Juan County/
- Stokes, W. L., 1960
fluvial sandstone/ eolian sandstone/ Colorado Plateau/ sedimentary structures/ sandstone/
- Stokes, W. L., and Fischer, R. P., 1945
vanadium/ sandstone/ Mesa County/ Gateway district/ Colorado Plateau/ ore deposits/
- Stokes, W. L., and Phoenix, D. A., 1948
Montrose County/ San Miguel County/ geology/ oil/ gas/ sections/ stratigraphy/ Egnar-Gypsum Valley area/ Salt Wash Member/ structure/ structural history/ sandstone/ Colorado Plateau/ Morrison Formation/
- Stokes, W. L., Russell, R. T., Fischer, R. P., and Butler, A. P., Jr., 1945
Mesa County/ Colorado/ Utah/ Gateway district/ uranium/ ore deposits/ vanadium/ Calamity Group claims/ sandstone/ Tenderfoot Mesa/ carnotite/ production/ Salt Wash Member/ Morrison Formation/ Colorado Plateau/ geology/ map/
- Strobell, J. D., Jr., 1953
Colorado Plateau/ ore distribution/ sandstone/ Gateway district/ ore deposits/ Mesa County/
- Strobell, J. D., Jr., 1953
Colorado Plateau/ ore distribution/ sandstone/ grade distribution/ ore deposits/
- Strobell, J. D., Jr., Sample, R. D., Stephens, H. G., and Gilbert, C. C., 1954
Mesa County/ Montrose County/ sandstone/ Colorado Plateau/ statistical measures/ average deposit size/ uranium/ ore deposits/ Morrison Formation/ Salt Wash Member/ Gateway district/ Uravan district/
- Stugard, Frederick, Jr., Wyant, D. G., and Gude, A. J., 3d, 1951
uranium/ ore deposits/ United States/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/
- Stugard, Frederick, Jr., Wyant, D. G., and Gude, A. J., 3d, 1952
veins/ uranium/ secondary deposits/ United States/ Central City district/ Colorado Plateau/ Gilpin County/ ore deposits/ igneous-metamorphic/ sandstone/ Front Range/
- Swenson, F. A., 1974
ground water/ drainage/ Arkansas River basin/ basin/ radioactive waste disposal/ sandstone/ salinity/ sodium chloride/ Baca County/ Permian basin/ Colorado River basin/ salt solution/
- Tavelli, J. A., 1951
Colorado Plateau/ sandstone/ airborne radiometrics/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ New Mexico/ Arizona/ Utah/ exploration/ instrumentation/ Mesa County/
- Thaden, R. E., and Kirk, A. R., 1975
sandstone/ district studies/ uranium/ resources/ La Plata County/ Archuleta County/ San Juan basin/ stratigraphy/ Montezuma County/ Colorado Plateau/
- Theobald, P. K., and King, R. U., 1954
veins/ Colorado/ Wyoming/ ore deposits/ sandstone/
- Theobald, P. K., Jr., 1971
geology/ map/ Craig quadrangle/ sandstone/ Moffat County/ Colorado Plateau/
- Theobald, P. K., Jr., and Chew, R. T., 3d, 1955
Maybell-Lay area/ Moffat County/ limestone/ sandstone/ stratigraphy/ Browns Park Formation/ geology/ ore deposits/ Colorado/ Wyoming/ Utah/ Miller Hill/ Baggs/ Colorado Plateau/
- Thomas, Kirby, 1912
Colorado/ vanadium/ Colorado Plateau/ sandstone/
- Thompson, C. E., and Lakin, H. W., 1957
chromatography/ uranium/ soils/ rocks/ Colorado Plateau/ exploration/ sandstone/ analyses/
- Thompson, M. E., and Roach, C. H., 1955
mineralogy/ Peanut mine/ Montrose County/ sandstone/ Morrison Formation/ uranium/ vanadium/ Colorado Plateau/
- Thompson, M. E., and Roach, C. H., 1955
mineralogy/ Peanut mine/ Montrose County/ uranium/ vanadium/ Morrison Formation/ sandstone/ Bull Canyon district/ Colorado Plateau/
- Thompson, M. E., and Sherwood, A. M., 1959
delrioite/ vanadium/ Jo Dandy mine/ Montrose County/ Morrison Formation/ sandstone/ x-ray analyses/ geochemistry/ Colorado Plateau/ strontium/ mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R., 1956

SANDSTONE, SILTSTONE

SANDSTONE, SILTSTONE

- duttonite/ vanadium/ minerals/ type locality/
sandstone/ Montrose County/ Peanut mine/ Colorado
Plateau/ mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R.,
1956
duttonite/ Montrose County/ Peanut mine/ vanadium/
mineralogy/ sandstone/ Colorado Plateau/
- Thompson, M. E., Roach, C. H., and Braddock, W.
A., 1956
selenium/ Peanut mine/ Montrose County/ South
Dakota/ Dakota/ sandstone/ Colorado Plateau/
mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R.,
1957
simplitite/ vanadium/ Colorado Plateau/ San
Miguel County/ Montrose County/ geochemistry/
Morrison Formation/ x-ray analyses/ Peanut mine/
Sundown claim/ mineralogy/ sandstone/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R.,
1957
sherwoodite/ vanadium/ sandstone/ Colorado Plateau/
Mesa County/ Montrose County/ San Miguel County/
Matchless mine/ Peanut mine/ Fall Creek mine/
Morrison Formation/ Entrada Sandstone/ geochemistry/
x-ray analyses/ mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R.,
1957
duttonite/ vanadium/ Peanut mine/ Montrose County/
sandstone/ geochemistry/ x-ray analyses/ Colorado
Plateau/ mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R.,
1958
simplitite/ vanadium/ Colorado Plateau/ San
Miguel County/ Montrose County/ geochemistry/
x-ray analyses/ analysis/ Peanut mine/ Sundown
claim/ Morrison Formation/ sandstone/ mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R.,
1958
sherwoodite/ vanadium/ sandstone/ Colorado Plateau/
San Miguel County/ Mesa County/ Montrose County/
Matchless mine/ Peanut mine/ Fall Creek mine/
Morrison Formation/ Entrada Sandstone/ geochemistry/
x-ray analyses/ mineralogy/
- Tom, C. W., 1966
Verdure quadrangle/ Utah/ San Miguel County/
Dolores County/ Montezuma County/ Colorado Plateau/
sandstone/ ore deposits/ economic map/ resources/
- Torrey, J. D., and Jacobs, P. W., 1955
alpha sources/ Colorado/ control/ health hazards/
mining/ polonium/ radon/ toxicity/ uranium mines/
ventilation/ Colorado Plateau/ sandstone/
- Trace, R. D., 1949
San Miguel County/ Radium claims/ Egnar area/
drilling/ Colorado Plateau/ sandstone/ Radium
group/
- Trace, R. D., 1950
Colorado Plateau/ uranium/ vanadium/ Egnar area/
exploration/ drilling/ ore guides/ Radium group/
conglomerate/ carnotite/ Radium mines/ production/
reserves/ resources/ Brushy Basin Member/ sandstone/
Morrison Formation/ Salt Wash Member/ San Miguel
County/
- Trace, R. D., 1950
reserves/ resources/ Club Mesa area/ Montrose
County/ analyses/ Colorado Plateau/ ore deposits/
geology/ Morrison Formation/ sandstone/
- Trace, R. D., 1950
reserves/ resources/ Club Mesa area/ Montrose
County/ Colorado Plateau/ ore deposits/ geology/
Morrison Formation/ sandstone/
- Trace, R. D., 1950
Georgetown group/ San Miguel County/ Veta Glad
claim/ Veta Mad claim/ sandstone/ reserves/
resources/ Colorado Plateau/ ore deposits/ uranium/
vanadium/ Morrison Formation/
- Trace, R. D., 1950
Georgetown group/ San Miguel County/ Morrison
Formation/ reserves/ resources/ Georgeto claim/
sandstone/ Colorado Plateau/ ore deposits/ uranium/
vanadium/
- Trace, R. D., 1950
Club Mesa area/ Montrose County/ reserves/ resources/
sandstone/ ore deposits/ Colorado Plateau/ uranium/
vanadium/ Morrison Formation/
- Trace, R. D., 1950
Morrison Formation/ Outlaw Mesa area/ Mesa County/
reserves/ resources/ Colorado Plateau/ sandstone/
ore deposits/ uranium/ vanadium/
- Trace, R. D., 1950
reserves/ resources/ Club Mesa area/ Montrose
County/ Colorado Plateau/ ore deposits/ geology/
sandstone/ Morrison Formation/
- Trace, R. D., 1950
Club Mesa area/ Montrose County/ reserves/ resources/
sandstone/ Colorado Plateau/ geology/ ore deposits/
Morrison Formation/
- Trace, R. D., 1952
San Miguel County/ Slick Rock district/ uranium/
vanadium/ reserves/ resources/ sandstone/ Morrison
Formation/ geology/ Colorado Plateau/ drilling/
ore deposits/ Salt Wash Member/
- Tripp, R. M., 1944
radon/ Fort Collins anticline/ Weld County/
Front Range/ Larimer County/ sandstone/
- Tripp, R. M., 1956
Colorado Plateau/ ore deposits/ exploration/
sandstone/
- Trites, A. F., Jr., and others, n.d.
Colorado/ salt anticlines/ investigations/ geology/
White Canyon/ Utah/ Colorado Plateau/ sandstone/
- Trotter, James, and Barnes, W. H., 1958
vanadinite/ vanadium/ structure/ crystallography/
mineralogy/ Colorado Plateau/ sandstone/

- Tyzack, C., 1959
vanadium/ chemistry/ extraction/ Colorado Plateau/
sandstone/
- U.S. Atomic Energy Commission, and U.S. Geological
Survey, 1951
uranium/ exploration/ Colorado/ Colorado Plateau/
sandstone/ ore deposits/
- U.S. Atomic Energy Commission, and U.S. Geological
Survey, 1956
prospecting/ sandstone/ Colorado Plateau/ uranium/
thorium/ techniques/ geology/ exploration/ Front
Range/ Igneous-metamorphic/ Colorado/ United
States/
- U.S. Atomic Energy Commission, 1959
uranium/ geology/ exploration/ United States/
mining/ uranium mines/ mineralogy/ Colorado
Plateau/ bibliography/ guidebook/ sandstone/
Colorado/ ore deposits/ Igneous-metamorphic/
Front Range/
- U.S. Atomic Energy Commission, 1966
airborne reconnaissance/ Arkansas/ Colorado/
Montana/ Texas/ Utah/ Colorado Plateau/ Montezuma
County/ Moffat County/ San Miguel County/ sandstone/
- U.S. Atomic Energy Commission, 1966
uranium concentrates/ sampling/ samplers/ Grand
Junction/ Mesa County/ sandstone/ Colorado Plateau/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Arapahoe County/ reconnaissance/
ore deposits/ sandstone/ Front Range/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Archuleta County/ reconnaissance/
ore deposits/ sandstone/ San Juan basin/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Baca County/ reconnaissance/
ore deposits/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Bent County/ reconnaissance/ ore deposits/ sandstone/
radioactivity/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Boulder County/ Front Range/
ore deposits/ reconnaissance/ Igneous-metamorphic/
sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Chaffee County/ reconnaissance/
ore deposits/ sandstone/ Igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Conejos County/ reconnaissance/
ore deposits/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Costilla County/ reconnaissance/
ore deposits/ Front Range/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Custer County/ reconnaissance/
ore deposits/ Front Range/ sandstone/ Igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Dolores County/ reconnaissance/
ore deposits/ Colorado Plateau/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Douglas County/ reconnaissance/
ore deposits/ Front Range/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Eagle County/ reconnaissance/
ore deposits/ sandstone/ limestone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Elbert County/ reconnaissance/
ore deposits/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ El Paso County/ reconnaissance/
ore deposits/ Front Range/ sandstone/ Igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Fremont County/ reconnaissance/
ore deposits/ Front Range/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Garfield County/ reconnaissance/
ore deposits/ sandstone/ Colorado Plateau/ Entrada
Sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Grand County/ reconnaissance/
ore deposits/ sandstone/

- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Huerfano County/ reconnaissance/ ore deposits/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Jackson County/ reconnaissance/ ore deposits/ igneous-metamorphic/ spring deposits/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Jefferson County/ reconnaissance/ ore deposits/ Front Range/ sandstone/ sandstone/ coal/ igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ La Plata County/ reconnaissance/ ore deposits/ sandstone/ igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Las Animas County/ reconnaissance/ ore deposits/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Mesa County/ reconnaissance/ ore deposits/ sandstone/ Colorado Plateau/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Moffat County/ reconnaissance/ ore deposits/ sandstone/ Colorado Plateau/ Browns Park Formation/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Montezuma County/ reconnaissance/ ore deposits/ Colorado Plateau/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Montrose County/ reconnaissance/ ore deposits/ sandstone/ Colorado Plateau/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Park County/ reconnaissance/ ore deposits/ sandstone/ igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ Prowers County/ reconnaissance/ ore deposits/ Great Plains/ sandstone/ radioactivity/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Pueblo County/ reconnaissance/ ore deposits/ Front Range/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Rio Blanco County/ reconnaissance/ ore deposits/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Routt County/ reconnaissance/ ore deposits/ sandstone/ igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Saguache County/ reconnaissance/ ore deposits/ limestone/ sandstone/ igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ San Miguel County/ sandstone/ Colorado Plateau/ ore deposits/ reconnaissance/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Teller County/ reconnaissance/ ore deposits/ sandstone/ igneous-metamorphic/
- U.S. Atomic Energy Commission, 1972
Uravan district/ Colorado Plateau/ road logs/ maps/ stratigraphy/ historical notes/ sandstone/ Mesa County/ San Miguel County/ Montrose County/
- U.S. Atomic Energy Commission, 1972
air pollution/ Colorado/ contamination/ ore deposits/ environment/ land pollution/ milling/ mining/ New Mexico/ uranium/ U.S. Atomic Energy Commission/ Utah/ vanadium/ water pollution/ leasing/ sandstone/ Colorado Plateau/
- U.S. Bureau Land Management, 1971
uranium/ mining/ regulations/ state level/ Colorado Plateau/ land use/ federal level/ leases/ sandstone/ environment/
- U.S. Bureau of Radiological Health, 1969
Colorado/ atmosphere/ human populations/ ore processing/ radiation doses/ radiation hazards/ radiation monitoring/ radioactive waste disposal/ radioactive wastes/ tailings/ radioactivity/ radon-222/ uranium/ Utah/ sandstone/ U.S. Census Bureau/ Colorado Plateau/ ore deposits/
- U.S. Department of Energy, 1977
engineering assessment/ inactive uranium mill tailings/ Maybell site/ Moffat County/ sandstone/ Colorado Plateau/
- U.S. Department of Energy, 1977
engineering assessment/ inactive uranium mill

- tailings/ Rifle site/ Garfield County/ Rifle district/ sandstone/ Colorado Plateau/
- U.S. Department of Energy, 1977
engineering assessment/ Inactive uranium mill tailings/ Grand Junction site/ Mesa County/ Colorado Plateau/ sandstone/
- U.S. Department of Energy, 1977
engineering assessment/ Inactive uranium mill tailings/ Naturita site/ Montrose County/ Colorado Plateau/ sandstone/
- U.S. Department of Energy, 1977
engineering assessment/ Inactive uranium mill tailings/ Slick Rock sites/ San Miguel County/ Colorado Plateau/ sandstone/
- U.S. Energy Research and Development Administration, 1976
resources/ United States/ uranium districts/ sandstone/ Igneous-metamorphic/ Colorado Plateau/ geology/ veins/ Great Plains/ Front Range/ Rocky Mountains/ NURE program/
- U.S. Geological Survey, 1947
Colorado Plateau/ mill capacity/ uranium/ vanadium/ production/ potential/ reserves/ resources/ sandstone/ ore deposits/
- U.S. Geological Survey, 1950
gamma-ray logs/ wells/ sandstone/
- U.S. Geological Survey, 1950
Front Range/ Igneous-metamorphic/ sandstone/
- U.S. Geological Survey, 1952
Colorado Plateau/ Isotopes/ geology/ sandstone/ geophysical investigations/ ground water/ Triassic rocks/ reserves/ resources/ igneous-metamorphic/ uranium/ vanadium/ stratigraphy/ Cenozoic rocks/ Morrison Formation/ trace elements/
- U.S. Geological Survey, 1953
geology/ San Miguel County/ Uruvan district/ sandstone/ Colorado Plateau/ Powderhorn district/ Igneous-metamorphic/ exploration/ Slick Rock district/ Gypsum Valley district/ Morrison Formation/ Gateway district/ Mesa County/ Montrose County/ Dolores County/ Spud Patch area/ Legin Group/ Monogram Mesa/ Club Mesa/ carnotite/ ore deposits/ Gunnison County/
- U.S. Geological Survey, 1953
sandstone/ Colorado Plateau/ Front Range/ veins/ Igneous-metamorphic/ thorium/ Powderhorn district/ natural waters/ Morrison Formation/ Mesa County/ San Miguel County/ Dolores County/ Gilpin County/ San Juan County/ La Plata County/ Ouray County/ geology/ Gunnison County/ Montrose County/ San Juan Mountains/ Clear Creek County/ ore deposits/
- U.S. Geological Survey, 1953
geologic mapping/ Colorado Plateau/ Front Range/ carbonaceous rocks/ geochemistry/ reconnaissance/ black shales/ sandstone/ Igneous-metamorphic/ geology/ ore deposits/ Gilpin County/ Clear Creek County/ Jefferson County/ Montrose County/ Mesa County/ San Miguel County/ Gunnison County/
- U.S. Geological Survey, 1953
Colorado Plateau/ Front Range/ sandstone/ coal/ springs/ Igneous-metamorphic/ shale/ Gilpin County/ Clear Creek County/ Jefferson County/ Boulder County/ Custer County/ thorium/ Gunnison County/ La Plata County/ San Juan County/ Ouray County/
- U.S. Geological Survey, 1953
Colorado Plateau/ veins/ Front Range/ Morrison Formation/ Triassic studies/ mineralogy/ petrology/ analyses/ sandstone/ igneous-metamorphic/ permeability/ geophysics/ gamma-ray logs/ ground water studies/ trace elements/
- U.S. Geological Survey, 1953
Cenozoic studies/ Colorado Plateau/ sandstone/
- U.S. Geological Survey, 1954
Clear Creek County/ Gilpin County/ ore deposits/ reserves/ Colorado Plateau/ exploration/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Moffat County/ Dolores County/ Rio Blanco County/ Front Range/ Igneous-metamorphic/ Jefferson County/ pitchblende/ hydrogeochemical exploration/ stream sediments/ ground water/ mine waters/
- U.S. Geological Survey, 1954
Colorado Plateau/ geophysics/ Front Range/ sandstone/ mineralogy/ coal/ shales/ reconnaissance/ petrology/ stratigraphy/ sandstone/ Igneous-metamorphic/ geology/ ore deposits/
- U.S. Geological Survey, 1954
Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ Morrison Formation/ geology/ Chinle Formation/ Shinarump Member/ reserves/ San Juan Mountains/ snow/ surface water/ ground water/ Ouray County/ San Juan County/ conglomerate/ Igneous-metamorphic/ Front Range/
- U.S. Geological Survey, 1954
Front Range/ Colorado Plateau/ stratigraphy/ botanical prospecting/ mineralogy/ Ralston Buttes district/ black shale/ reconnaissance/ analyses/ Jefferson County/ sandstone/ Igneous-metamorphic/
- U.S. Geological Survey, 1954
Colorado Plateau/ Montrose County/ Mesa County/ Dolores County/ Montezuma County/ drilling/ logging/ data/ analyses/ sandstone/ maps/ Morrison Formation/ San Miguel County/
- U.S. Geological Survey, 1955
Beaver Mesa/ Disappointment Valley/ Front Range/ Jo Dandy area/ La Sal Creek area/ Monogram Mesa/ exploration/ drilling/ Ralston Buttes district/ Uruvan district/ Montrose County/ San Miguel County/ Mesa County/ Jefferson County/ Colorado Plateau/ sandstone/ Igneous-metamorphic/
- U.S. Geological Survey, 1955
Front Range/ Golden Gate Canyon area/ Uruvan district/ exploration/ drilling/ Colorado Plateau/ Jefferson County/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ sandstone/ Igneous-metamorphic/ Ralston Buttes district/

- U.S. Geological Survey, 1955
Colorado Plateau/ Front Range/ sandstone/ geologic mapping/ veins/ carbonaceous rocks/ geochemistry/ reconnaissance/ analyses/ igneous-metamorphic/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ Montezuma County/ Fremont County/ Jefferson County/
- U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ veins/ geologic mapping/ mineralogy/ petrology/ geophysics/ carbonaceous rocks/ analyses/ sandstone/ San Miguel County/ Dolores County/ Montrose County/ Montezuma County/ Jefferson County/ Mesa County/ igneous-metamorphic/
- U.S. Geological Survey, 1956
Colorado Plateau/ mapping/ geology/ geophysics/ mineralogy/ vanadium/ carbonaceous rocks/ petrology/ San Miguel County/ sandstone/ igneous-metamorphic/ Dolores County/ Montrose County/ Montezuma County/ Jefferson County/ Front Range/ Mesa County/ Fremont County/
- U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ sandstone/ San Miguel County/ igneous-metamorphic/ Dolores County/ Montrose County/ Mesa County/ Montezuma County/ Jefferson County/ Fremont County/
- U.S. Geological Survey, 1957
drilling/ Colorado Plateau/ sandstone/ reserves/ sections/ geology/ exploration/ ore deposits/ Mesa County/ Dolores County/ San Miguel County/ Montrose County/
- U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geochemistry/ geophysics/ thorium/ ore deposits/ sandstone/ igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Gilpin County/ Clear Creek County/
- U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ San Miguel County/ Montrose County/ sandstone/ igneous-metamorphic/ Mesa County/ Clear Creek County/ Gilpin County/ ore deposits/
- U.S. Geological Survey, 1958
Colorado Plateau/ mapping/ geophysics/ Clear Creek County/ geochemistry/ Maybell-Lay area/ Front Range/ Gilpin County/ research/ thorium/ Moffat County/ sandstone/ Mesa County/ San Miguel County/ Montrose County/ igneous-metamorphic/
- U.S. Geological Survey, 1958
Colorado Plateau/ geophysics/ geochemistry/ Gilpin County/ research/ Front Range/ thorium/ reconnaissance/ Mesa County/ sandstone/ Clear Creek County/ Montrose County/ San Miguel County/ igneous-metamorphic/
- U.S. Geological Survey, 1959
Colorado Plateau/ geologic mapping/ geophysics/ sandstone/ ore deposits/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/
- U.S. Geological Survey, 1959
Colorado Plateau/ Lisbon Valley district/ mapping/ research/ thorium/ sandstone/ geophysics/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/
- U.S. Geological Survey, 1970
sandstone/ Gypsum Valley district/ Montrose County/ San Miguel County/ maps/ drilling/ exploration/ Colorado Plateau/
- U.S. Geological Survey, 1970
maps/ drilling/ exploration/ sandstone/ Atkinson Mesa/ Dolores Bench area/ Uravan district/ Montrose County/ Colorado Plateau/
- U.S. Geological Survey, 1970
maps/ drilling/ exploration/ sandstone/ Long Park area/ Uravan district/ Montrose County/ Colorado Plateau/
- U.S. Geological Survey, 1970
maps/ drilling/ exploration/ sandstone/ Outlaw Mesa area/ Gateway district/ Mesa County/ Colorado Plateau/
- U.S. Geological Survey, 1971
maps/ exploration/ drilling/ Slick Rock district/ sandstone/ San Miguel County/ Colorado Plateau/
- U.S. Geological Survey, 1971
map/ aeromagnetism/ Colorado Plateau/ sandstone/ Utah/ Colorado/ Arizona/ San Miguel County/ Montrose County/ Mesa County/
- U.S. Geological Survey, 1971
Colorado/ minerals/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/ map/
- Umbach, P. H., 1952
exploration/ Colorado Plateau/ sandstone/ uranium/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/
- United Nations, 1956
uranium/ thorium/ geology/ ore deposits/ geochemistry/ isotope geology/ Front Range/ Colorado Plateau/ sandstone/ igneous-metamorphic/
- United Nations, 1958
geology/ uranium/ chemistry/ Colorado Plateau/ ore deposits/ isotopes/ geochemistry/ isotope geology/ thorium/ sandstone/
- Updegraff, D. M., 1969
microorganisms/ uranium/ ore deposits/ Wyoming/ Colorado/ ore composition/ abundance/ Colorado Plateau/ bacteria/ fungi/ populations/ variations/ sediments/ sandstone/ geochemistry/ New Mexico/
- Utah Geological Society, 1954
Colorado/ Utah/ ore deposits/ geology/ uranium/ sandstone/ New Mexico/ Arizona/ minerals/ Colorado Plateau/ Thompson district/ Lisbon Valley district/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Big Indian district/

- Van Voorhis, B. W., Jr., 1945
ore deposits/ vanadium oxides/ vanadium/ geological surveys/ uranium prospecting/ reserves/ stratigraphy/ geology/ uranium oxides/ Dolores Plateau/ sandstone/ Dolores County/ San Miguel County/ Colorado Plateau/ Dolores River district/
- Vanderwilt, J. W., 1947
minerals/ resources/ Colorado/ uranium/ thorium/ sandstone/ Colorado Plateau/ Front Range/ igneous-metamorphic/
- Vargas, F. H., 1961
Fremont County/ sediments/ geology/ sandstone/ limestone/ Cotopaxi Inlier/ Sangre de Cristo Range/
- Vickers, R. C., compiler, 1951
bibliography/ trace element reports/ uranium/ vanadium/ thorium/ beryllium/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/
- Vine, J. D., and Flege, R. F., Jr., 1953
ore deposits/ exploration/ carbonaceous rocks/ Colorado/ Utah/ Idaho/ Wyoming/ coal/ Moffat County/ Garfield County/ Eagle County/ Mesa County/ Colorado Plateau/ sandstone/ coal/ shale/ Jackson County/ Montrose County/
- Vine, J. D., and Moore, G. W., 1952
Middle Park/ North Park/ Grand County/ Jackson County/ Moffat County/ Rio Blanco County/ Routt County/ coal/ carbonaceous rocks/ Wyoming/ occurrences/ Idaho/ Colorado/ Colorado Plateau/ ore deposits/ sandstone/
- Vine, J. E., 1956
geology/ uranium/ Tertiary basins/ Wyoming/ North Dakota/ South Dakota/ Colorado/ Moffat County/ Colorado Plateau/ Washakie basin/ sandstone/ Great Plains/ genesis/
- Vogel, J. D., 1957
Klondike Ridge/ uranium/ vanadium/ copper/ manganese/ Colorado Plateau/ San Miguel County/ Gypsum Valley/ Morrison Formation/ sandstone/ veins/ limestone/
- Vogel, J. D., 1960
geology/ ore deposits/ Klondike Ridge/ uranium/ vanadium/ copper/ manganese/ Colorado Plateau/ San Miguel County/ Gypsum Valley district/ Morrison Formation/ sandstone/ veins/ limestone/
- Vogel, J. D., and Elston, D. P., 1953
Colorado Plateau/ reserves/ ore deposits/ Jo Dandy area/ Montrose County/ Morrison Formation/ Salt Wash Member/ drilling/ sandstone/ uranium/ vanadium/
- Vogel, J. D., and Elston, D. P., 1953
Colorado Plateau/ Jo Dandy area/ Montrose County/ ore deposits/ exploration/ sandstone/ reserves/ Morrison Formation/ Salt Wash Member/ drilling/ uranium/ vanadium/ Paradox Valley district/
- Vogel, J. D., and Elston, D. P., 1954
Mineral Joe mine/ Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Salt Wash Member/ Jo Dandy area/ Montrose County/ Morrison Formation/
- Vogel, J. D., and Elston, D. P., 1954
Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Jo Dandy area/ Montrose County/
- Walker, G. W., 1956
ore deposits/ host rocks/ alteration/ veins/ sandstone/ igneous-metamorphic/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ dolomite/ Pitkin County/ Larimer County/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/
- Walker, G. W., 1957
Marysvale/ leaching/ uranium/ ore deposits/ supergene alteration/ veins/ Marshall Pass/ Colorado/ Utah/ Saguache County/ Nigger shaft/ North Star mine/ Jefferson County/ Gilpin County/ Front Range/ sandstone/ igneous-metamorphic/ zoning/ Madonna mine/ Chaffee County/
- Walker, G. W., 1963
alteration/ veins/ igneous-metamorphic/ sandstone/ limestone/ Boulder County/ Park County/ Front Range/ Gilpin County/ Clear Creek County/ Jefferson County/ Saguache County/ coal/ Cochetopa district/ ore deposits/ Placerville district/ San Miguel County/ Larimer County/ Central City district/ Caribou mine/ Los Ochos mine/ Leyden coal mine/ Copper King mine/
- Walker, G. W., 1963
Marysvale/ leaching/ uranium/ ore deposits/ supergene alteration/ veins/ Marshall Pass/ Colorado/ Utah/ Saguache County/ Nigger Shaft/ North Star mine/ Jefferson County/ Gilpin County/ Front Range/ sandstone/ igneous-metamorphic/ zoning/ Madonna mine/ Chaffee County/
- Walker, G. W., and Adams, J. W., 1957
Boulder County/ Larimer County/ Clear Creek County/ Central City district/ Gilpin County/ Caribou mine/ Front Range/ Jefferson County/ Placerville district/ San Miguel County/ Colorado Plateau/ ore deposits/ Marshall Pass/ Saguache County/ Copper King mine/ sandstone/ mineralogy/ veins/ textures/ structures/ paragenesis/ Los Ochos mine/ Schwartzwalder mine/ igneous-metamorphic/
- Walker, G. W., and Adams, J. W., 1963
Boulder County/ Larimer County/ Placerville district/ Central City district/ Gilpin County/ Clear Creek County/ Front Range/ Jefferson County/ Schwartzwalder mine/ San Miguel County/ Colorado Plateau/ Copper King mine/ Saguache County/ ore deposits/ Caribou mine/ Los Ochos mine/ sandstone/ Colorado/ mineralogy/ igneous-metamorphic/ textures/ structures/ paragenesis/
- Walker, G. W., and Osterwald, F. W., 1956
ore deposits/ veins/ fluorite/ Front Range/ Gilpin County/ coal/ Jefferson County/ Placerville district/ San Miguel County/ Clear Creek County/ sandstone/ igneous-metamorphic/ Colorado Plateau/

- Cochetopa district/ Saguache County/ Powderhorn district/ Custer County/ Chaffee County/
- Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ geology/ Front Range/ Gilpin County/ Jefferson County/ sandstone/ Boulder County/ San Miguel County/ Igneous-metamorphic/ Colorado Plateau/ Saguache County/ Custer County/ Chaffee County/ Clear Creek County/ Jamestown district/ Cochetopa district/ Powderhorn district/ Placerville district/
- Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ genesis/ Placerville district/ transportation/ deposition/ depositional environments/ Clear Creek County/ Gilpin County/ Saguache County/ Jefferson County/ Cochetopa district/ Front Range/ San Miguel County/ Leyden coal mine/ Larimer County/ Boulder County/ sandstone/ Igneous-metamorphic/
- Wallace, R. M., 1955
Montrose County/ Bull Canyon district/ sandstone/ geology/ Colorado Plateau/ ore deposits/
- Wallace, R. M., 1957
Monogram Mesa/ Jo Dandy area/ Bull Canyon district/ Colorado Plateau/ reserves/ drilling/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Montrose County/ San Miguel County/ Dry Creek basin/
- Wallace, R. M., and Roach, C. H., 1956
Dry Creek basin/ ore deposits/ exploration/ Jurassic/ Morrison Formation/ Bull Canyon district/ Montrose County/ San Miguel County/ Colorado Plateau/ sandstone/ geology/
- Wallace, R. M., and Santos, E. S., 1956
Colorado Plateau/ ore deposits/ exploration/ Montrose County/ San Miguel County/ Jurassic/ Morrison Formation/ diamond drilling/ Jo Dandy area/ Dry Creek basin/ sandstone/ Bull Canyon district/
- Wantland, Dart, 1955
Colorado Plateau/ geophysics/ seismic refraction/ uranium/ exploration/ sandstone/
- Wardwell, H. R., 1948
uranium/ ore deposits/ exploration/ geology/ stratigraphy/ mining/ mineralogy/ vanadium/ minerals/ reserves/ Coyote Mesa district/ Dolores Plateau/ sandstone/ Colorado Plateau/ San Miguel County/ Dolores County/
- Warren, C. G., 1972
Isotopes/ sulfur/ genesis/ geochemistry/ ore deposits/ roll-type/ sandstone/ uranium/
- Warren, C. G., and Granger, H. C., 1973
pyrite/ ore stage/ growth/ deposit maturity/ ore deposits/ roll-type uranium deposits/ sandstone/ oxidation/ uranium/ supergene enrichment/ Colorado Plateau/
- Waters, A. C., and Granger, H. C., 1952
Colorado Plateau/ Uravan district/ Dolores mines/ volcanic debris/ sandstone/ genesis/ Georgetown group/ precipitation/ San Miguel County/ Montrose County/
- Waters, A. C., and Granger, H. C., 1953
Colorado Plateau/ ore deposits/ genesis/ volcanic debris/ sandstone/ precipitation/ uranium/
- Waters, A. C., and Granger, H. C., 1953
uranium/ sandstone/ volcanic debris/ Triassic formations/ Jurassic formations/ Colorado Plateau/
- Webber, B. N., 1943
uranium/ ore deposits/ geology/ stratigraphy/ topography/ geological surveys/ mineralization/ White River uplift/ Rio Blanco County/ sandstone/ Colorado Plateau/ Oak Ridge fold district/
- Webber, B. N., 1943
Colorado Plateau/ uranium/ ore deposits/ geology/ carnotite/ sandstone/ stratigraphy/ vanadium/ uranium/ reserves/ Coal Creek anticline/ White River uplift/ Rio Blanco County/ mineralization/ maps/ Coal Creek anticline district/
- Webber, B. N., 1944
uranium/ ore deposits/ maps/ geology/ Colorado Plateau/ mineralization/ Grand Hogback district/ White River uplift/ Rio Blanco County/ Garfield County/ sandstone/
- Webber, B. N., 1947
geology/ Colorado/ uranium/ ore deposits/ vanadium/ lithology/ stratigraphy/ geological surveys/ reserves/ Colorado Plateau/ resources/ sandstone/
- Weeks, A. D., 1951
ore deposits/ Jurassic/ Morrison Formation/ clay studies/ Calamity Mesa/ Mesa County/ Montrose County/ mineralogy/ petrology/ geochemistry/ clay (red and gray)/ sandstone/ Colorado Plateau/ Bitter Creek district/
- Weeks, A. D., 1952
Colorado Plateau/ alteration/ sandstone/ oxidation/ paragenesis/ ore deposits/ pitchblende/ roscoelite/ mineralogy/ Uravan district/ Chinle Formation/ Shinarump Member/ Morrison Formation/ uraninite/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/
- Weeks, A. D., 1952
Colorado Plateau/ clay studies/ alteration/ ore deposits/ vanadium/ clay/ sandstone/ Colorado/ genesis/
- Weeks, A. D., 1952
mineralogy/ Colorado Plateau/ Colorado/ uranium/ vanadium/ ore identification/ minerals/ sandstone/
- Weeks, A. D., 1953
mineralogy/ petrology/ geochemistry/ Cretaceous/ claystone/ siltstone/ Colorado Plateau/ clay studies/ Utah/ Jurassic/ Dolores Group/ Dry Creek anticline/ sandstone/ Mesa County/ Montrose County/ Unaweep/ Escalante Forks/
- Weeks, A. D., 1954
Colorado Plateau/ ore deposits/ mineral assemblages/ mineral properties/ sandstone/

- Weeks, A. D., 1955
Colorado Plateau/ ore deposits/ mineral properties/
minerals/ sandstone/ mineralogy/
- Weeks, A. D., 1955
ore deposits/ geologic history/ uranium/ sandstone/
genesis/ oxidation/ Colorado Plateau/
- Weeks, A. D., 1956
Colorado Plateau/ mineralogy/ oxidation/ sandstone/
ore deposition/ uranium/ geology/
- Weeks, A. D., 1956
Uravan district/ ore deposits/ mineralogy/ sandstone/
Colorado Plateau/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/
- Weeks, A. D., 1956
Colorado Plateau/ ore deposits/ classification/
oxidation/ mineralization/ mineralogy/ sandstone/
geology/
- Weeks, A. D., 1957
Colorado Plateau/ sandstone/ uranium/ ore deposits/
mineralogy/ Colorado/ Utah/
- Weeks, A. D., and Coleman, R. G., 1955
Colorado Plateau/ sandstone/ mineralogy/ ore
deposits/ geology/
- Weeks, A. D., and Garrels, R. M., 1959
Colorado Plateau/ ore deposits/ resources/ geology/
reserves/ production/ sandstone/ geochemistry/
mineralogy/
- Weeks, A. D., and Riley, L. B., 1952
Colorado Plateau/ ore deposits/ ore guides/
mineralization/ mineralogy/ trace elements/
sandstone/
- Weeks, A. D., and Riley, L. B., 1953
Colorado Plateau/ sandstone/ mineralogy/ trace
elements/
- Weeks, A. D., and Riley, L. B., 1953
Colorado Plateau/ sandstone/ mineralogy/ geology/
exploration/ ore deposits/
- Weeks, A. D., and Thompson, M. E., 1953
Colorado Plateau/ sandstone/ mineralogy/ vanadium/
minerals/ uranium / mineral identification/
- Weeks, A. D., and Thompson, M. E., 1953
mineralogy/ ore deposits/ Colorado Plateau/
uranium/ vanadium/ copper/ Placerville district/
Rifle district/ Garfield County/ San Miguel
County/ sandstone/
- Weeks, A. D., and Thompson, M. E., 1954
Colorado Plateau/ ore deposits/ uranium/ vanadium/
minerals/ mineralogy/ identification/ x-ray
data/ Mesa County/ analyses/ Montrose County/
San Miguel County/ Dolores County/ sandstone/
- Weeks, A. D., and Truesdell, A. H., 1957
Uravan district/ sandstone/ Colorado Plateau/
mineralogy/ Dolores County/ San Miguel County/
Montrose County/ Mesa County/ ore deposits/
- Weeks, A. D., Cisney, E. A., and Sherwood, A. M.,
1950
hummerite/ montroselite/ vanadium/ Montrose County/
sandstone/ Paradox Valley/ analyses/ minerals/
Colorado Plateau/
- Weeks, A. D., Cisney, E. A., and Sherwood, A. M.,
1951
hummerite/ montroselite/ minerals/ Montrose County/
Colorado/ sandstone/ vanadium/ x-ray analyses/
Hummer mine/ Paradox Valley/ Colorado Plateau/
- Weeks, A. D., Cisney, E. A., and Sherwood, A. M.,
1953
montroselite/ Montrose County/ Bitter Creek mine/
Jo Dandy mine/ Matchless mine/ Mesa County/
Colorado Plateau/ vanadium/ mineral properties/
geochemistry/ x-ray analyses/ sandstone/
- Weeks, A. D., Cisney, E. A., and Sherwood, A. M.,
1953
montroselite/ Montrose County/ Jo Dandy mine/
Matchless mine/ Mesa County/ Bitter Creek mine/
Colorado Plateau/ vanadium/ mineral properties/
sandstone/ geochemistry/ x-ray analyses/
- Weeks, A. D., Coleman, R. G., and Thompson, M.
E., 1956
Colorado Plateau/ asphaltic rocks/ Atkinson
Mesa/ Club Mesa/ Flat Top Mesa/ Jo Dandy area/
Paradox district/ Placerville district/ Rifle
district/ Slick Rock district/ Uravan/ Montrose
County/ San Miguel County/ mineralogy/ petrology/
geochemistry/ vanadium/ ore deposits/ Garfield
mine/ roscoelite/ chemical analyses/ sandstone/
Garfield County/
- Weeks, A. D., Coleman, R. G., and Thompson, M.
E., 1959
Colorado Plateau/ ore deposits/ mineralogy/
oxidation/ vanadium/ sandstone/ uranium/ Moffat
County/ Dolores County/ Garfield County/ Rio
Blanco County/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Montezuma County/
La Plata County/ Archuleta County/
- Weeks, A. D., Lindberg, M., and Meyrowitz, R., 1961
grantsite/ vanadium/ mineral properties/ mineralogy/
sandstone/ limestone/ Colorado Plateau/ Club
Mesa/ Montrose County/ Atkinson Mesa/ Golden
Cycle mine/ Morrison Formation/ ore deposits/
- Weeks, A. D., Lindberg, M., Truesdell, A. H., and
others, 1964
grantsite/ vanadium/ Golden Cycle mine/ La Salle
mine/ Montrose County/ Morrison Formation/ sandstone/
Colorado Plateau/ mineral properties/ geochemistry/
x-ray analyses/ ore deposits/
- Weeks, A. D., Thompson, M. E., and Thompson, R.
B., Jr., 1954
Colorado Plateau/ minerals/ mineral associations/
ore classification/ uranium/ Placerville district/
San Miguel County/ sandstone/ ore deposits/
Rifle district/ Garfield County/ Entrada Sandstone/
Morrison Formation/

- Weeks, A. D., Truesdell, A. H., and Haffty, J., 1957
ore boundary/ uranium/ diagenesis/ mineralization/
Uravan district/ geochemistry/ paragenesis/
Montrose County/ sandstone/ Colorado Plateau/
- Weir, D. B., 1951
Colorado Plateau/ sandstone/ carnotite/ ore
guides/ exploration/ ore deposits/ Morrison
Formation/ Mesa County/ Montrose County/ San
Miguel County/ Dolores County/ geology/
- Weir, D. B., 1951
Morrison Formation/ Salt Wash Member/ lithology/
sandstone/ sedimentary structure/ flow direction/
Colorado/ cross lamination/ Colorado Plateau/
- Weir, D. B., 1952
Colorado Plateau/ ore guides/ exploration/ carnotite/
ore deposits/ Morrison Formation/ sandstone/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ geology/
- Weir, G. W., 1954
Colorado Plateau/ sandstone/ Dolores anticline/
San Miguel County/ Lisbon Valley area/ quadrangle
mapping/ geology/ Utah/ ore deposits/
- Weir, G. W., 1955
quadrangle mapping/ geology/ Colorado Plateau/
sandstone/ San Miguel County/ Utah/ ore deposits/
Lisbon Valley area/
- Weir, G. W., 1955
Lisbon Valley area/ quadrangle mapping/ Colorado
Plateau/ sandstone/ Dolores anticline/ San Miguel
County/ Utah/ geology/ ore deposits/
- Weir, G. W., 1956
Utah/ Lisbon Valley area/ ore deposits/ mapping/
Colorado Plateau/ sandstone/ Dolores anticline/
geology/ San Miguel County/
- Weir, G. W., and Kennedy, V. C., Dodson, C. L.,
and Puffett, W. P., 1957
Utah/ Lisbon Valley area/ ore deposits/ geochemistry/
mineralization/ mapping/ Colorado Plateau/ Dolores
anticline/ sandstone/ San Miguel County/ geology/
- Weir, G. W., and Puffett, W. P., 1958
Mount Peale quadrangle/ Lisbon Valley area/
mapping/ Colorado Plateau/ sandstone/ Dolores
anticline/ San Miguel County/ geology/ ore deposits/
- Weir, G. W., and Puffett, W. P., 1960
uranium/ vanadium/ copper/ Lisbon Valley area/
Utah/ San Miguel County/ Cutler Formation/ Chinle
Formation/ Morrison Formation/ sandstone/ ore
deposits/ Colorado Plateau/ Dolores anticline/
Igneous-metamorphic/
- Weir, G. W., and Puffett, W. P., 1960
Utah/ San Miguel County/ Mount Peale 4 SE quadrangle/
geology/ Burro Canyon Formation/ Morrison Formation/
Salt Wash Member/ sandstone/ uranium/ vanadium/
map/ Colorado Plateau/ stratigraphy/ section/
- Weir, G. W., Carter, W. D., Puffett, W. P., and
others, 1960
- Utah/ San Miguel County/ Montrose County/ Colorado
Plateau/ Mount Peale 4 NE quadrangle/ geology/
stratigraphy/ section/ uranium/ vanadium/ Morrison
Formation/ Salt Wash Member/ sandstone/ map/
- Weir, G. W., Puffett, W. P., and Kennedy, V. C., 1957
Utah/ Lisbon Valley area/ ore deposits/ trace
elements/ geochemistry/ zirconium/ sandstone/
mines/ Colorado Plateau/ Plateau/ Dolores anticline/
San Miguel County/
- Wengerd, S. A., and Lamsens, O. R., Jr., 1952
bibliography/ Colorado/ Four Corners region/
Colorado Plateau/ geology/ sandstone/
- Williams, G. A., 1953
Morrison Formation/ Colorado Plateau/ stratigraphy/
sandstone/ trace elements/
- Williams, G. A., 1953
stratigraphy/ Colorado Plateau/ sandstone/ Morrison
Formation/ geology/ ore deposits/
- Williams, G. A., 1953
stratigraphy/ sandstone/ Colorado Plateau/ geology/
Morrison Formation/ ore deposits/
- Williams, G. A., 1954
Morrison Formation/ sandstone/ stratigraphy/
Colorado Plateau/ geology/ ore deposits/
- Williams, G. A., 1954
Morrison Formation/ sandstone/ stratigraphy/
Colorado Plateau/ ore deposits/
- Williams, G. A., 1955
stratigraphy/ sandstone/ Morrison Formation/
Jurassic formations/ Triassic formations/ ore
deposits/ Colorado Plateau/
- Williams, G. A., Cadigan, R. A., Albee, H. F.,
and Stewart, J. H., 1953
Colorado Plateau/ sandstone/ Triassic formations/
stratigraphy/
- Williams, N. C., 1954
Colorado Plateau/ ore deposits/ popular and
elementary geology/ geology/ structure/ sandstone/
uranium/
- Williams, P. L., 1964
Colorado/ Utah/ Moab quadrangle/ ore deposits/
uranium/ maps/ San Miguel County/ Montrose County/
Mesa County/ Delta County/ Ouray County/ geology/
structure/ sandstone/
- Wilmarth, V. R., 1951
thucholite/ Robinson property/ Placerville district/
Weatherly property/ asphaltite/ hydrocarbons/
pyrobitumens/ base metals/ precious metals/
veins/ fault breccia/ shear zone material/ limestone/
Dolores Formation/ ore deposits/ Colorado Plateau/
San Miguel County/ structure/ Cutler Formation/
sandstone/
- Wilmarth, V. R., 1953
veins/ Shirley May mine/ radioactivity/ Garo
deposit/ sandstone/ Maroon Formation/ copper/

- vanadium/ Park County/ uranium/ geology/ ore deposits/
- Wilmarth, V. R., 1958
Park County/ Shirley May mine/ Garo deposit/ sandstone/ uranium/ vanadium/ copper/ Maroon Formation/ geology/ ore deposits/
- Wilmarth, V. R., 1959
geology/ uranium/ vanadium/ Park County/ sandstone/ Maroon Formation/ Shirley May mine/ ore deposits/ Garo deposits/ copper/
- Wilmarth, V. R., and Hawley, C. C., 1958
San Miguel County/ Placerville district/ vanadium/ sandstone/ geology/ ore deposits/ Colorado Plateau/ Entrada Sandstone/
- Wilmarth, V. R., and Smith, L. E., 1952
drilling/ geology/ reconnaissance/ Maroon Formation/ sandstone/ ore deposits/ structure/ Park County/ uranium/ reserves/ resources/ minerals/ calciovolborthite/ carnotite/ tyuyamunite/ volborthite/ vanadium/ copper/ Garo deposit/ Shirley May deposit/
- Wilmarth, V. R., and Vickers, R. C., 1953
Colorado Plateau/ geology/ organic material/ sandstone/ shale/ San Miguel County/ Placerville district/ minerals/ uranophane/ asphaltite/ hydrocarbons/ pyrobitumen/ thucholite/ Barbara J claim/ ore deposits/ New Discovery lode/ Robinson property/ Weatherly property/ White Spar claims/ Black King claims/ Cutler Formation/ economic geology/ Dolores Formation/
- Wilpolt, R. H., 1956
Colorado Plateau/ ore deposits/ exploration/ sandstone/
- Wilson, H. D., 1953
chromium/ vanadium/ titanium/ ore deposits/ geochemistry/ Colorado Plateau/ sandstone/
- Wilson, J. H., 1923
Denver area/ ore deposits/ carnotite/ sandstone/ Jefferson County/ Leyden coal mine/ Front Range/ Laramie Formation/
- Winterhalder, E. C., 1953
veins/ reconnaissance/ North Park/ Jackson County/ uranium/ Sheep Mountain prospect/ Pedad prospect/ igneous-metamorphic/ fluorite/ ore deposits/ Dakota Sandstone/ sandstone/ conglomerate/ chert/ breccia breccia zones/ geology/ Precambrian rocks/
- Withington, C. F., 1949
Montrose County/ Paradox quadrangle/ Colorado Plateau/ Uravan district/ carnotite/ structure/ stratigraphy/ Salt Wash Member/ sandstone/ Cashin mine/ Cliff Dweller mine/ copper/ silver/ vanadium/ uranium/ Skeln Mesa/ geology/ Morrison Formation/
- Withington, C. F., 1950
minerals/ carnotite/ geology/ sandstone/ reserves/ Slick Rock district/ San Miguel County/ Upper group area/ exploration/ drilling/ production/ resources/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ ore deposits/
- Withington, C. F., 1951
Colorado Plateau/ San Miguel County/ exploration/ drilling/ Upper group claims/ uranium/ production/ reserves/ resources/ vanadium/ Slick Rock/ geology/ minerals/ carnotite/ roscoelite/ sandstone/ Morrison Formation/ Salt Wash Member/
- Withington, C. F., 1954
Uravan district/ Montrose County/ Paradox quadrangle/ geology/ ore guides/ minerals/ carnotite/ Cashin mine/ Cliff Dweller mine/ genesis/ uranium/ ore deposits/ sandstone/ Morrison Formation/ Salt Wash Member/ stratigraphy/ Colorado Plateau/
- Withington, C. F., 1955
Colorado Plateau/ stratigraphy/ structure/ Salt Wash Member/ sandstone/ carnotite/ copper/ silver/ vanadium/ uranium/ Wray Mesa/ Skeln Mesa/ Cliff Dweller mine/ Uravan district/ Cashin mine/ Morrison Formation/ Montrose County/ geology/
- Withington, C. F., 1955
Montrose County/ Paradox quadrangle/ Colorado Plateau/ stratigraphy/ structure/ Morrison Formation/ geology/ Salt Wash Member/ sandstone/ carnotite/ vanadium/ uranium/ copper/ silver/ Skeln Mesa/ Cashin mine/ Cliff Dweller mine/ Wray Mesa/ Uravan district/
- Withington, C. F., and Bush, A. L., 1950
carnotite/ geology/ exploration/ Colorado Plateau/ San Miguel County/ drilling/ Burro claim/ Ellison claim/ production/ uranium/ vanadium/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/
- Withington, C. F., and Hasler, J. W., n.d.
Montrose County/ San Miguel County/ Gypsum Valley district/ exploration/ sandstone/ Colorado Plateau/
- Withington, C. F., and Scott, J. B., 1953
Colorado Plateau/ drilling/ exploration/ ore deposits/ reserves/ Contact No. 4 claim/ Gypsum Valley district/ San Miguel County/ sandstone/ Morrison Formation/ breccia/ uranium/ vanadium/
- Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/ ore deposits/ Jefferson County/ San Miguel County/ Saguache County/ Park County/ Boulder County/ Montrose County/ Moffat County/ sandstone/ Front Range/ coal/ igneous-metamorphic/
- Wood, H. B., 1956
Colorado Plateau/ ore deposits/ genesis/ age/ environment/ production/ host rocks/ sandstone/
- Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/ sandstone/ production/ geology/ Boulder County/ Jefferson County/ Saguache County/ Park County/ Montrose County/ San Miguel County/ Moffat County/ coal/ igneous-metamorphic/ Front Range/
- Wood, H. B., 1968
geology/ ore deposits/ uranium/ Lisbon Valley area/ Utah/ Colorado Plateau/ sandstone/ San Miguel County/

- Wood, H. B., and Grundy, W. D., 1956
exploration guides/ exploration techniques/
Shinarump Formation/ channels/ Colorado Plateau/
uranium/ Moffat County/ Rio Blanco County/ Garfield
County/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ sandstone/
- Wood, H. B., and Lekas, M. A., 1958
uranium/ sandstone/ ore deposits/ Colorado Plateau/
Uravan district/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/
- Wood, H. B., and Lekas, M. A., 1958
Uravan district/ ore deposits/ sandstone/ uranium/
Colorado Plateau/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/
- Wright, J. C., 1955
Entrada Sandstone/ Jurassic/ sandstone/ stratigraphy/
Colorado/ Utah/ Colorado Plateau/ ore deposits/
geology/
- Wright, J. C., 1959
San Rafael Group/ Entrada Sandstone/ sandstone/
Colorado Plateau/ geology/ ore deposits/
- Wright, J. C., and Dickey, D. D., 1956
Entrada Sandstone/ sandstone/ San Rafael Group/
Colorado Plateau/ geology/ ore deposits/
- Wright, J. C., and Dickey, D. D., 1956
San Rafael Group/ Entrada Sandstone/ sandstone/
Colorado Plateau/ geology/ ore deposits/
- Wright, J. C., and Dickey, D. D., 1957
Entrada Sandstone/ sandstone/ San Rafael Group/
geology/ Colorado Plateau/ ore deposits/
- Wright, J. C., and Dickey, D. D., 1957
San Rafael Group/ Entrada Sandstone/ sandstone/
Colorado Plateau/ geology/ ore deposits/
- Wright, J. C., and Dickey, D. D., 1958
San Rafael Group/ Entrada Sandstone/ sandstone/
Colorado Plateau/ geology/ ore deposits/
- Wright, J. C., Shawe, D. R., and Lohman, S. W., 1962
Jurassic/ Entrada Sandstone/ Utah/ Colorado/
sandstone/ Colorado Plateau/ Montrose County/
Mesa County/ San Miguel County/
- Wright, R. J., 1953
uranium/ exploration/ Colorado/ Colorado Plateau/
sandstone/ ore deposits/ galger counters/
- Wright, R. J., 1953
lithology/ ore controls/ sandstone/ uranium/
ore deposits/ Colorado Plateau/ Colorado/ genesis/
- Wright, R. J., 1955
Colorado Plateau/ ore deposits/ lithologic controls/
sandstone/ lithology/ ore controls/ genesis/
- Wright, R. J., 1955
Colorado Plateau/ ore deposits/ ore controls/
lithology/ sandstone/ genesis/ Moffat County/
Dolores County/ Rio Blanco County/ Garfield
County/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ La Plata County/
Archuleta County/
- Wright, R. J., 1955
Colorado Plateau/ ore deposits/ genesis/ uranium/
sandstone/
- Wright, R. J., and Everhart, D. L., 1960
ore deposits/ resources/ reserves/ Colorado
Plateau/ production/ sandstone/
- Wyant, D. G., and Fischer, W. A., 1957
Colorado Plateau/ geologic maps/ 2° sheets/
ore deposits/ geology/ sandstone/
- Wyant, D. G., Beroni, E. P., and Granger, H. C., 1951
Colorado Plateau/ uranium/ ore deposits/ conglomerate/
shale/ sandstone/
- Wyant, D. G., Beroni, E. P., and Granger, H. C., 1952
ore deposits/ uranium/ sandstone/ Colorado Plateau/
- Wyant, D. G., Fischer, W. A., O'Sullivan, R. B.,
and others, 1958
Colorado Plateau/ sandstone/ 2° sheets/ geology/
geologic maps/ ore deposits/
- Wyant, D. G., Fischer, W. A., O'Sullivan, R. B.,
and others, 1958
Colorado Plateau/ geologic mapping/ geologic
maps/ sandstone/ geology/ ore deposits/
- Wyman, R. V., 1970
Colorado Plateau/ ore deposits/ genesis/ geochemistry/
ground water/ uranium/ sandstone/
- Young, Neal, 1957
economic map/ ore deposits/ Mount Peale quadrangle/
Utah/ Colorado/ Montrose County/ San Miguel
County/ sandstone/ Colorado Plateau/ geology/
- Zareski, G. K., 1954
Colorado/ Utah/ Wray Mesa/ ore deposits/ Morrison
Formation/ exploration/ reconnaissance/ Montrose
County/ stratigraphy/ structure/ Brushy Basin
Member/ Salt Wash Member/ sandstone/ carnotite/
uranium/ vanadium/ shale/ mudstone/ Colorado
Plateau/
- Zeller, E. J., Dreschhoff, G., Angino, E., and
others, 1975
Great Plains/ uranium/ host rocks/ structure/
sandstone/

SPRING DEPOSITS, GROUNDWATER

- Beroni, E. P., and McKeown, F. A., 1952
geology/ sandstone/ reconnaissance/ marine black shales/ Entrada Sandstone/ Curtls Formation/ Igneous-metamorphic/ Skull Creek district/ Bozo claims/ Fair-U claim/ Lucky Strike claims/ Grand County/ Moffat County/ Routt County/ coal/ copper/ uranium/ limestone/ phosphates/ carnotite/ uraninite/ spring deposits/ migmatite/ granite/ Colorado/ Wyoming/ Utah/
- Cadigan, R. A., and Felmlee, J. K., 1975
Delta County/ spring deposits/ radioactive springs/ radium/ geochemistry/
- Cadigan, R. A., and Felmlee, J. K., 1975
geochemistry/ radioactive springs/ exploration/ Delta County/ spring deposits/ radium/ uranium/
- Cadigan, R. A., and Felmlee, J. K., 1976
springs/ spring deposits/ Delta County/ geochemistry/ exploration/ radioactive springs/ uranium/
- Cadigan, R. A., Felmlee, J. K., and Rosholt, J. N., 1976
Delta County/ radioactive springs/ spring deposits/ geochemistry/
- George, R. D., Curtls, H. A., Lester, O. C., and others, 1920
Colorado Plateau/ mineralized waters/ springs/ spring deposits/ Front Range/ Jefferson County/ Pitkin County/ Pueblo County/ Garfield County/ Park County/ El Paso County/ Ouray County/ Boulder County/ Gunnison County/ Delta County/ Chaffee County/
- Gott, G. B., 1948
Boulder County/ water/ nonsaline waters/ Jamestown/ radioactivity/ spring deposits/ Front Range/ radioactive springs/
- Gott, G. B., 1948
Boulder County/ water/ nonsaline waters/ Jamestown/ radioactivity/ spring deposits/ Front Range/ radioactive springs/
- Headden, W. P., 1905
Delta County/ spring deposits/ radium/ Doughty Springs/ Colorado Plateau/
- Headden, W. P., 1905
Delta County/ spring deposits/ radium/ alunogen/ Doughty Springs/ Colorado Plateau/
- King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/ igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/
- King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ Rio Blanco County/ Routt County/ ore guides/ pitchblende/ hydrocarbons/ metal-mining districts/ ore deposits/ limestone/ sandstone/ veins/ breccia pipes/ Eagle County/ hot spring deposits/ fluorite/ igneous-metamorphic/
- Lester, O. C., 1918
springs/ radioactivity/ mineral springs/ Colorado/ spring deposits/ Delta County/ Boulder County/
- Lovering, T. G., and Beroni, E. P., 1956
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive ilmonite/ Lucky Break Iron mine/ sandstone/ thorium/ uranium/ spring deposits/ Front Range/ conglomerate/ limestone/ tufa/ analyses/ igneous-metamorphic/ ore deposits/ El Paso County/
- Lovering, T. G., and Beroni, E. P., 1959
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive ilmonite/ Lucky Break Iron mine/ thorium/ uranium/ spring deposits/ Front Range/ sandstone/ conglomerate/ limestone/ tufa/ El Paso County/ igneous-metamorphic/ ore deposits/
- Maise, C. R., 1953
Colorado Plateau/ ore deposits/ genesis/ ground water/ mineralization/ sandstone/ Jurassic/ syncline/ aquifers/ experimental simulation/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/

Malan, R. C., 1957

uranium/ mineralization/ surface waters/ meteoric waters/ geochemistry/ radiometric analysis/ chemical analysis/ carbonates/ carbon dioxide/ geology/ peat beds/ Spring claims/ organics/ Jackson County/ spring deposits/

Pierson, C. T., Weeks, W. F., and Kleinhampl, F. J., 1956

San Juan Mountains/ Dolores County/ La Plata County/ pitchblende/ reconnaissance/ radioactivity/ mining districts/ fractures/ andesite/ San Miguel County/ hydrocarbons/ calcareous tufa/ hot springs/ limonite/ alteration/ diorite/ veins/ fault breccia/ shear zone materials/ San Juan tuff/ Uncompahgre Formation/ igneous-metamorphic/ spring deposits/ Colorado Plateau/

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geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Jackson County/ reconnaissance/ ore deposits/ igneous-metamorphic/ spring deposits/ sandstone/

U.S. Atomic Energy Commission, 1966

geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Ouray County/ reconnaissance/ ore deposits/ spring deposits/ igneous-metamorphic/ Colorado Plateau/ San Juan Mountains/

Wyman, R. V., 1970

Colorado Plateau/ ore deposits/ genesis/ geochemistry/ ground water/ uranium/ sandstone/

Colorado Plateau

- Abdel-Gawad, A. M., 1960
Colorado Plateau/ ore deposits/ alteration/
sandstone/ Chinle Formation/
- Abdel-Gawad, A. M., and Kerr, P. F., 1959
Chinle Formation/ silicification/ Colorado Plateau/
Colorado/ sandstone/ uranium/
- Abdel-Gawad, A. M., and Kerr, P. F., 1959
Chinle Formation/ silicification/ Colorado Plateau/
Colorado/ sandstone/
- Abdel-Gawad, A. M., and Kerr, P. F., 1961
organic material/ asphaltite/ uranium/ coffinite/
Colorado Plateau/ spectroscopy/ chemistry/minerals/
- Adler, H. H., 1963
genesis/ sandstone/ ore deposits/ Jefferson
County/ Pueblo County/ Gunnison County/ Moffat
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/ Colorado Plateau/ Front Range/
Rio Blanco County/
- Adler, H. H., 1964
uranium/ roll ore/ exploration/ sandstone/ ore
deposits/ Jefferson County/ Pueblo County/ Gunnison
County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
San Miguel County/ Montezuma County/ La Plata
County/ Archuleta County/ Moffat County/ Colorado
Plateau/ Front Range/ Dolores County/
- Adler, H. H., and Sharp, B. J., 1967
ore rolls/ uranium/ occurrence/ genesis/ chemical
characteristics/ Utah/ sandstone/ New Mexico/
Colorado Plateau/ Entrada Sandstone/ physical
characteristics/ Morrison Formation/
- Albee, H. F., 1956
sandstone/ pebbles/ size/ Shinarump Member/
Moss Back Member/ Chinle Formation/ conglomerate/
Colorado Plateau/
- Allen, M. A., and Butler, G. M., 1921
Colorado/ Utah/ Arizona/ vanadium/ Placerville
district/ San Miguel County/ sandstone/ Eagle
County/ carnotite/ uranium/ Paradox Valley/
production/ uses/ ore treatment/ geology/ Colorado
Plateau/
- Alvord, D. C., 1953
Colorado Plateau/ reserves/ ore deposits/ sandstone/
Montrose County/ Morrison Formation/ uranium/
vanadium/ San Miguel Bench/
- Alvord, D. C., 1953
Colorado Plateau/ reserves/ ore deposits/ sandstone/
San Miguel Bench/ Montrose County/ uranium/
vanadium/ Morrison Formation/
- Alvord, D. C., 1953
Spring Creek Mesa/ Colorado Plateau/ reserves/
exploration/ sandstone/ ore deposits/ uranium/
vanadium/ Montrose County/ Morrison Formation/
Salt Wash Member/ San Miguel Bench/
- Alvord, D. C., 1955
Montrose County/ San Miguel Bench/ exploration
guides/ minerals/ carnotite/ sandstone/ Salt
Wash Member/ Morrison Formation/ Colorado Plateau/
ore deposits/ ore guides/ geology/ uranium/
vanadium/ drilling/ reserves/ resources/
- Anderson, J. P., 1950
reconnaissance/ Colorado/ Colorado Plateau/
- Anonymous, 1904
radium/ Colorado Plateau/ sandstone/
- Anonymous, 1908
Colorado Plateau/ Colorado/ carnotite/ sandstone/
- Anonymous, 1913
carnotite/ pitchblende/ radium/ Gilpin County/
Quartz Hill/ Meeker/ Skull Creek/ Utah/ Colorado/
Moffat County/ Paradox Valley/ Colorado Plateau/
uranium/ sandstone/ igneous-metamorphic/ Rio
Blanco County/ Front Range/ San Miguel County/
- Anonymous, 1913
carnotite/ Long Park/ Montrose County/ Colorado
Plateau/ Huerfano County/ sandstone/ San Juan
region/
- Anonymous, 1913
radium/ uranium/ vanadium/ economics/ business/
carnotite/ Colorado Plateau/ sandstone/
- Anonymous, 1950
McElmo Canyon/ sandstone/ Montezuma County/
Colorado Plateau/ ore deposits/
- Anonymous, 1950
Grand Junction/ Mesa County/ ore processing/
Colorado Plateau/
- Anonymous, 1950
San Miguel County/ sandstone/ Colorado Plateau/
mines/ uranium/
- Anonymous, 1950
Rifle plant/ milling/ Garfield County/ Colorado
Plateau/ ores/ sandstone/ vanadium/
- Anonymous, 1950
Colorado Plateau/ refining/ San Miguel County/
Mesa County/ sandstone/
- Anonymous, 1951
Colorado Plateau/ Grand County/ sandstone/ bonus
payments/ uranium/ mines/
- Anonymous, 1951
Colorado Plateau/ San Miguel County/ Montrose
County/ Mesa County/ vanadium/ sandstone/
- Anonymous, 1951
Colorado/ Utah/ processing/ sandstone/ San Miguel
County/ Colorado Plateau/
- Anonymous, 1952
Colorado Plateau/ Uruvan belt/ sandstone/ mill/

- exploration/ Mesa County/ San Miguel County/ Dolores County/
- Archbold, N. L., 1955
 lithology/ vanadium/ uranium/ ore deposits/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ sandstone/ analyses/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ calcium carbonate/
- Archbold, N. L., 1955
 vanadium/ uranium/ sandstone/ mudstone/ calcium carbonate/ Morrison Formation/ Salt Wash Member/ ore deposits/ geochemistry/ lithology/ Colorado Plateau/
- Archbold, N. L., 1956
 uranium/ vanadium/ Colorado Plateau/ Salt Wash Member/ Morrison Formation/ sandstone/ Mesa County/ Montrose County/ Dolores County/ Montezuma County/ ore deposits/ lithology/ San Miguel County/
- Archbold, N. L., 1958
 carbonate cement/ lithology/ vanadium/uranium/ sandstone/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ Slick Rock district/ Uruan/ geochemistry/ ore deposits/ weathering/ alteration/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Cougar mine/ Golden Cycle mine/ Virgin mine/ Upper Group/
- Archbold, N. L., 1959
 carbonate cement/ lithology/ vanadium/ uranium/ sandstone/ Morrison Formation/ Colorado Plateau/ Salt Wash Member/ Slick Rock district/ Uruan/ geochemistry/ ore deposits/ weathering/ alteration/ Mesa County/ Montrose County/ Dolores County/ Cougar mine/ Golden Cycle mine/ Virgin mine/ Upper group/
- Argall, G. O., Jr., 1943
 vanadium ores/ carnotite/ occurrences/ production/ Colorado/ Colorado Plateau/ sandstone/
- Aurand, H. A., 1920
 minerals/ ore deposits/ Western Slope/ Colorado Plateau/
- Bachmann, H. G., 1957
 Colorado Plateau/ vanadium/ mineralogy/ crystal chemistry/ Colorado/ sandstone/ calcium-sodium vanadates/
- Bain, G. W., 1950
 genesis/ ore deposits/ fissionable materials/ geochemistry/ geology/ sandstone/ Colorado Plateau/
- Bain, G. W., 1952
 Colorado Plateau/ southwest/ ore deposits/ evaluation/ sandstone/ Shinarump Member/ Arizona/ Utah/ conglomerate/ uranium/ vanadium/ mines/ prospects/ Chinle Formation/
- Bain, G. W., 1952
 Colorado Plateau/ geologic history/ uranium/ ore deposits/ sandstone/
- Bain, G. W., 1953
 Colorado Plateau/ ore deposits/ sediments/ sandstone/ stratigraphy/ Dakota Group/ Morrison Formation/ structure/ topography/ geologic history/ Mesa County/ Montrose County/ San Miguel County/ geology/ Montezuma County/ reconnaissance/ Colorado Plateau/ Dolores County/
- Bain, G. W., 1953
 Colorado Plateau/ ore deposits/ observations/ sedimentation/ Shinarump Member/ carnotite/ Morrison Formation/ tectonic structure/ sandstone/ fluvial sediments/ simulation/ precipitation/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ conglomerate/ Chinle Formation/ Dolores County/ experimental studies/ Salt Wash Member/
- Bain, G. W., 1956
 uranium/ Phosphoria Formation/ Moffat County/ Colorado/ distribution/ analyses/ shale/ Colorado Plateau/ reconnaissance/
- Bain, G. W., 1957
 Colorado Plateau/ ore deposits/ organic ores/ genesis/ Colorado/ general/ Mesa County/ Delta County/ sandstone/ Montrose County/ San Miguel County/ Dolores County/ Archuleta County/ Garfield County/ La Plata County/
- Bain, G. W., Eastman, H. P., Ruckmick, J. C., and others, 1953
 Colorado Plateau/ ore deposits/ experimental studies/ sandstone/ fluvial sediments/ field observations/ heavy minerals/ Shinarump Member/ Morrison Formation/ Dakota Sandstone/ geology/ sedimentation/ ground water/ stratigraphy/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Chinle Formation/
- Baker, A. A., Dane, C. H., and Reeside, J. B., Jr., 1936
 Colorado/ Utah/ Arizona/ New Mexico/ Jurassic formations/ correlation/ Morrison Formation/ sandstone/Colorado Plateau/
- Baker, A. A., Dane, C. H., and Reeside, J. B., Jr., 1947
 Colorado/ Arizona/ New Mexico/ Utah/ Jurassic formations/ correlation/ Morrison Formation/ sandstone/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/
- Ball, M. M., 1954
 Colorado Plateau/ ore deposits/ carnotite/ sedimentary occurrence/ sandstone/
- Baltz, E. H., Jr., 1953
 Colorado/ New Mexico/ ore deposits/ exploration/ occurrence/ carbonaceous rocks/ Paradox Formation/ San Miguel County/ shale/ sandstone/ siltstone/ coal/ Archuleta County/ La Plata County/ Montezuma County/ tuff/ igneous-metamorphic/ Colorado Plateau/ Bald Eagle prospect/
- Baltz, E. H., Jr., 1954
 Colorado/ New Mexico/ ore deposits/ carbonaceous rocks/ shale/ siltstone/ Hermosa Formation/

- San Miguel County/ Bald Eagle prospect/ Colorado Plateau/
- Baltz, E. H., Jr., 1955
Colorado/ New Mexico/ ore deposits/ exploration/ carbonaceous rocks/ sandstone/ Mesa County/ Delta County/ Montrose County/ Gunnison County/ Ouray County/ San Miguel County/ Hinsdale County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ coal/ shale/ reconnaissance/ Colorado Plateau/
- Baltz, E. H., Jr., 1957
stratigraphy/ structure/ salt/ salt anticlines/ Colorado/ Utah/ Hermosa Formation/ Colorado Plateau/ evaporites/ general/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ sandstone/ Paradox Basin/
- Barge, E. M., 1953
limestone/ sandstone/ Colorado Plateau/ Hermosa Formation/ reserves/ exploration/ drilling/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Early Morn group/ Gypsum Valley district/ San Miguel County/
- Barge, E. M., 1953
Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Tiny claim/ Gypsum Valley district/ San Miguel County/ Morrison Formation/
- Barge, E. M., 1953
Colorado Plateau/ drilling/ ore deposits/ reserves/ exploration/ Gypsum Valley district/ Sunset claim/ San Miguel County/ sandstone/ Morrison Formation/ carnotite/ uranium/ vanadium/ Early Morn group/ limestone/ Salt Wash Member/
- Barton, P. B., Jr., 1957
carnotite/ synthesis/ properties/ alkali analogues/ experimental/ Colorado Plateau/ sandstone/
- Bates, R. C., 1959
Colorado Plateau/ ore deposits/ resources/ exploration/ statistical analysis/ uranium/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Morrison Formation/ sandstone/
- Bell, Henry, 3d, 1950
minerals/ carnotite/ Colorado Plateau/ ore deposits/ geology/ San Miguel County/ Legln group area/ exploration/ drilling/ ore production/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/
- Bell, Henry, 3d, 1950
uranium/ vanadium/ carnotite/ geology/ reserves/ ore deposits/ Colorado Plateau/ San Miguel County/ exploration/ Cougar claim/ Helen claim/ Last Chance claim/ Lower group/ Rainbow claim/ Cougar mine/ ore production/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/
- Bell, Henry, 3d, 1951
Colorado Plateau/ ore deposits/ reserves/ sandstone/ San Miguel County/ drilling/ exploration/ carnotite/
- Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ Legln group area/
- Bell, Henry, 3d, 1951
drilling/ exploration/ Legln group area/ San Miguel County/ ore deposits/ sandstone/ Colorado Plateau/ geology/ reserves/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Bell, Henry, 3d, 1951
reserves/ Legln group/ San Miguel County/ sandstone/ Colorado Plateau/ ore deposits/ uranium/ vanadium/ Morrison Formation/
- Bell, Henry, 3d, 1951
reserves/ Legln group/ San Miguel County/ sandstone/ Colorado Plateau/ ore deposits/ uranium/ vanadium/ Morrison Formation/
- Bell, Henry, 3d, 1952
ore deposits/ Egnar district/ San Miguel County/ minerals/ exploratory drilling/ carnotite/ U.S. Vanadium Co. property/ Vanadium Corp. of America property/ Morrison Formation/ geology/ Colorado Plateau/ uranium/ vanadium/ sandstone/ Salt Wash Member/ Spud Patch area/
- Bell, Henry, 3d, 1952
Colorado Plateau/ ore deposits/ ore guides/ Uravan/ geology/ San Miguel County/ exploration/ drilling/ minerals, carnotite/ Legln group/ uranium/ ore production/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/
- Bell, Henry, 3d, 1953
ore deposits/ Colorado Plateau/ geology/ ore guides/ San Miguel County/ minerals/ carnotite/ Vanadium Corp. of America property/ uranium/ vanadium/ Spud Patch area/ ore production/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/ U.S. Vanadium Co. property/
- Bell, Henry, 3d, and Cramer, M. A., 1951
Colorado Plateau/ ore deposits/ reserves/ sandstone/ Legln group area/ San Miguel County/ Morrison Formation/ Salt Wash Member/
- Bell, Henry, 3d, and Cramer, M. A., 1951
reserves/ Legln group area/ San Miguel County/ sandstone/ Colorado Plateau/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Bell, Henry, 3d, and Cramer, M. A., 1952
Colorado Plateau/ sandstone/ ore deposits/ reserves/ Spud Patch area/ San Miguel County/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Bell, Henry, 3d, and Icke, H. M., 1950
minerals/ carnotite/ Colorado Plateau/ geology/ San Miguel County/ Spud Patch area/ exploration/ drilling/ ore production/ sandstone/ Morrison Formation/ Salt Wash Member/ reserves/ uranium/ vanadium/ ore deposits/
- Bell, K. G., 1949
analyses/ carnotite/ uranium/ stratigraphic correlation/ gamma-ray logging/ drilling/ Colorado Plateau/ sandstone/ Morrison Formation/ ore deposits/

- Bell, K. G., 1954
uranium/ thorium/ sedimentary rocks/ sandstone/
geology/ genesis/ placers/ stream deposits/
mudstone/ Chinle Formation/ Morrison Formation/
shale/ black shale/ carnotite/ uraninite/ Colorado
Plateau/
- Bell, K. G., 1956
Colorado Plateau/ ore deposits/ occurrence/
precipitates/ evaporites/ uranium/
- Bell, K. G., 1956
uranium/ precipitates/ evaporites/ Colorado
Plateau/ occurrence/
- Bell, K. G., 1960
uranium/ trace elements/ petroleum/ asphalts/
distribution/ occurrence/ Colorado Plateau/
Rocky Mountains/ United States/ Rio Blanco County/
Jefferson County/ Front Range/
- Bell, K. G., and Rogers, A. S., 1950
Mesa County/ Calamity Mesa area/ gamma-ray logging/
Maverick claims/ Morrison Formation/ sandstone/
drilling/ stratigraphic correlation/ leaching/
ore deposits/ reserves/ geophysics/ "Barnaby"
logs/ Schlumberger logs/ carnotite/ Colorado
Plateau/ Calamity claims/
- Bendix Field Engineering Corporation, 1975
California/ Colorado/ New Mexico/ Texas/ Utah/
Virginia/ Washington/ Washington D.C./ Wyoming/
lands/ survey/ United States/ Industry/ leases/
claims/ development/ production/ exploration/
uranium/ land holdings/ Colorado Plateau/
- Bendix Field Engineering Corporation, 1977
western states/ land surveys/ Industry/ claims/
leases/ survey/ exploration/ development/ production/
Colorado/ Colorado Plateau/
- Bendix Field Engineering Corporation, 1977
survey/ uranium/ exploration/ development/ production/
Colorado/ Colorado Plateau/
- Benicke, A., 1911
ore deposits/ occurrence/ vanadium/ sandstone/
uranium/ Colorado/ Colorado Plateau/ sandstone/
- Berglof, W. R., 1970
Colorado Plateau/ absolute age/ ore deposits/
age estimation/ Colorado/ isotope dating/ lead/
New Mexico/ uranium/ uranium-235/ uranium-238/
Utah/ Morrison Formation/ Chinle Formation/
Todilto Limestone/ sandstone/
- Berglof, W. R., 1973
Colorado Plateau/ absolute age/ ore deposits/
Utah/ age estimation/ Colorado/ isotope dating/
lead/ New Mexico/ uranium/ uranium-235/ uranium-238/
Morrison Formation/ Chinle Formation/ Todilto
Limestone/ sandstone/
- Bethke, P. M., 1953
uranium salts/ Colorado Plateau/ simulation/
precipitation/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ sandstone/ ground water/ Morrison Formation/
Salt Wash Member/ uraninite/ carnotite/
- Beverly, R. G., and Bishop, V. P., 1961
Colorado Plateau/ radon gas/ air sampling/ radiation
exposure/ mines/ uranium/
- Bieber, P. P., 1954
Colorado Plateau/ reserves/ exploration/ sandstone/
ore deposits/ uranium/ vanadium/ Morrison Formation/
Salt Wash Member/ Long Park/ Montrose County/
- Bieber, P. P., and Bowers, H. E., 1954
Colorado Plateau/ reserves/ exploration/ sandstone/
ore deposits/ uranium/ vanadium/ Morrison Formation/
Salt Wash Member/ Long Park area/ Montrose County/
- Bieniewski, C. L., Persse, F. H., and Brauch, E.
F., 1971
Colorado Plateau/ Rifle district/ Front Range/
Garfield County/ Clear Creek County/ Jefferson
County/ Boulder County/ resources/ price/ cost
analysis/ sandstone/ igneous-metamorphic/ Marshall
Pass/
- Black, R. A., 1953
Colorado Plateau/ geophysics/ mining districts/
logging/ Spud Patch area/ San Miguel County/
sandstone/ Long Park area/ Montrose County/
Morrison Formation/ ore deposits/
- Black, R. A., 1953
Colorado Plateau/ ore deposits/ exploration/
geophysics/ methods/ uranium/ sandstone/
- Black, R. A., 1953
Colorado Plateau/ reserves/ geophysics/ exploration/
sandstone/ ore deposits/ uranium/ vanadium/
Morrison Formation/ Salt Wash Member/ Gramlich
group/ Paradox district/ Montrose County/
- Black, R. A., 1954
geophysics/ mining districts/ logging/ Monogram
Mesa/ Arizona/ Utah/ Peanut Group/ Bull Canyon/
Morrison Formation/ sandstone/ Mesa County/
Colorado/ Colorado Plateau/ ore deposits/
- Black, R. A., 1954
Colorado Plateau/ geophysics/ mining districts/
Long Park area/ Montrose County/ electrical
logging/ ore deposits/ sandstone/
- Black, R. A., 1956
Colorado Plateau/ geophysics/ exploration/ Colorado/
electrical logging/ seismic logging/ gravity
surveys/ sandstone/ ore deposits/
- Black, R. A., 1956
Colorado Plateau/ geophysics/ exploration/ Colorado/
electrical logging/ seismic logging/ gravity
surveys/ sandstone/ ore deposits/
- Black, R. A., and Davis, W. E., 1953
Colorado Plateau/ geophysical investigations/
ore deposits/ uranium/ geophysics/ exploration/
sandstone/

- Blackman, D. H., 1950
 Colorado Plateau/ ore guides/ sandstone/ uranium/
 ore deposits/ Mesa County/ minerals/ carnotite/
 Calamity claims/
- Blackman, D. H., 1950
 Colorado Plateau/ sandstone/ uranium/ ore deposits/
 ore guides/ carnotite/
- Blackman, D. H., 1950
 Colorado Plateau/ ore deposits/ carnotite/ exploration/
 ore guides/ sandstone/ geology/
- Blackman, D. H., 1951
 Calamity Mesa/ exploration/ drilling/ Calamity
 claims/ sandstone/ Morrison Formation/ Colorado
 Plateau/ ore guides/ uranium/ Mesa County/ geology/
 vanadium/ ore deposits/ carnotite/ carbonaceous
 materials/
- Boardman, R. L., 1954
 Guadalcanal mine/ Colorado Plateau/ reserves/
 exploration/ ore deposits/ sandstone/ uranium/
 vanadium/ Morrison Formation/ Salt Wash Member/
 Long Park area/ Montrose County/
- Boardman, R. L., 1954
 King Solomon #5 claim/ U.S. Vanadium Co. property/
 reserves/ Golden Cycle mine/ Colorado Plateau/
 exploration/ sandstone/ ore deposits/ uranium/
 Morrison Formation/ vanadium/ Salt Wash Member/
 Atkinson Mesa/ Dolores Bench/ Montrose County/
- Boardman, R. L., 1955
 Uravan district/ sandstone/ Jurassic/ Morrison
 Formation/ Salt Wash Member/ exploration/ drilling/
 Montrose County/ uranium/ vanadium/ Colorado
 Plateau/ ore deposits/
- Boardman, R. L., 1955
 Uravan district/ ore deposits/ sedimentary structures/
 Montrose County/ sandstone/ Morrison Formation/
 Salt Wash Member/ appraisal/ drilling/ Long
 Park/ uranium/ vanadium/ Colorado Plateau/ Uravan
 project/
- Boardman, R. L., 1955
 Long Park/ Third Park/ Second Park Bench/ Uravan
 district/ Montrose County/ Colorado Plateau/
 reserves/ exploration/ drilling/ sandstone/
 ore deposits/ uranium/ vanadium/ Morrison Formation/
 Salt Wash Member/
- Boardman, R. L., 1956
 Uravan district/ Montrose County/ sandstone/
 Club Mesa/ Long Park/ drilling/ Morrison Formation/
 Salt Wash Member/ Colorado Plateau/ uranium/
 vanadium/
- Boardman, R. L., 1957
 Uravan district/ ore deposits/ Colorado Plateau/
 uranium/ vanadium/ Montrose County/ Mesa County/
 stratigraphy/ structure/ sandstone/ Morrison
 Formation/ Salt Wash Member/ Brushy Basin Member/
 exploration/ drilling/
- Boardman, R. L., Bowers, H. E., Litsey, L. R.,
 and others, 1955
 Colorado Plateau/ drilling/ Third Park/ Second
 Park Bench/ exploration/ uranium/ vanadium/
 ore deposits/ Long Park/ Uravan district/ Montrose
 County/ sandstone/ geology/ stratigraphy/ Morrison
 Formation/ Salt Wash Member/ structure/ mineralogy/
 ore guides/ reserves/ uraninite/ coffinite/
 carnotite/
- Boardman, R. L., Ekren, E. B., and Bowers, H. E.,
 1956
 sedimentary features/ sandstone/ Morrison Formation/
 Salt Wash Member/ uranium/ vanadium/ ore deposits/
 Uravan district/ Montrose County/ Colorado Plateau/
 geology/ Jurassic/
- Boardman, R. L., Litsey, L. R., and Bowers, H.
 E., 1957
 Montrose County/ Club Mesa area/ Uravan district/
 vanadium/ exploration/ sandstone/ Morrison Formation/
 La Salle mine/ Salt Wash Member/ Club group
 mines/ Tramp No. 2 mine/ uranium/ Bunker mines/
 ore deposits/ Colorado Plateau/
- Boardman, R. L., Litsey, L. R., and Bowers, H.
 E., 1958
 Montrose County/ Club Mesa area/ Uravan district/
 uranium/ vanadium/ exploration/ Morrison Formation/
 La Salle mine/ Salt Wash Member/ sandstone/
 Club group mines/ Tramp No. 2 mine/ Bunker mines/
 ore deposits/ Colorado Plateau/
- Botinelly, Theodore, 1955
 Peanut mine/ J. J. mine/ Jo Dandy group/ uranium/
 vanadium/ geology/ mineralogy/ Montrose County/
 sandstone/ carnotite/ Colorado Plateau/ Bull
 Canyon district/ ore deposits/ Morrison Formation/
 Salt Wash Member/
- Botinelly, Theodore, 1955
 J. J. mine/ Jo Dandy group/ Bull Canyon district/
 geology/ mineralogy/ Montrose County/ sandstone/
 carnotite/ uranium/ vanadium/ ore deposits/
 Rifle mine/ Garfield County/ Colorado Plateau/
 Morrison Formation/ Salt Wash Member/
- Botinelly, Theodore, 1956
 Colorado Plateau/ ore deposits/ Jurassic/ Salt
 Wash Member/ Morrison Formation/ sandstone/
 Montrose County/ geology/ mineralogy/ carnotite/
 uranium/ uraninite/ vanadium/
- Botinelly, Theodore, and Fischer, R. P., 1955
 Garfield County/ mineralogy/ petrology/ geochemistry/
 Garfield mine/ Colorado Plateau/ galena/ Rifle
 mine/ minerals/ clausthalite/ montrosite/ roscoelite/
 sandstone/ geology/ uranium/ vanadium/ Entrada
 Sandstone/ Wingate Sandstone/ ore deposits/
 stratigraphy/ structure/ chromium/
- Botinelly, Theodore, and Fischer, R. P., 1959
 mineralogy/ geology/ Rifle mine/ Garfield mine/
 sandstone/ uranium/ vanadium/ Entrada Sandstone/
 Chinle Formation/ ore deposits/ stratigraphy/
 structure/ chromium/ petrology/ geochemistry/
 galena/ minerals/ Garfield County/ clausthalite/
 montrosite/ roscoelite/

- Botinelly, Theodore, and Weeks, A. D., 1954
Jo Dandy area/ Montrose County/ sandstone/ mineralogic/ clays/ Peanut mine/ Colorado Plateau/
- Botinelly, Theodore, and Weeks, A. D., 1954
mineralogy/ ore deposits/ minerals/ Colorado Plateau/ sandstone/ Montrose County/ Jo Dandy area/ Rifle mine/ Garfield County/ clay minerals/
- Botinelly, Theodore, and Weeks, A. D., 1957
sandstone/ uranium/ vanadium/ Colorado Plateau/ Mesa County/ Montrose County/ minerals/ Dolores County/ San Miguel County/ ore deposits/ mineralogic classification/
- Botinelly, Theodore, and Weeks, A. D., 1957
Colorado Plateau/ mineralogic classification/ uranium/ vanadium/ composition/ oxidation/ mineralogy/ sandstone/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/
- Botinelly, Theodore, Weeks, A. D., and Johnson, D. H., 1953
Colorado Plateau/ South Dakota/ Wyoming/ mineralogy/ petrology/ ore deposits/ vanadium/ Uravan/ Montrose County/ sandstone/ Long Park/ La Salle Creek/ Mesa County/ Utah/ Arizona/ uranium/
- Boudette, E. L., 1956
Colorado Plateau/ aerial photographs/ regional fracture pattern/ sandstone/
- Boutwell, J. M., 1904
Colorado/ Utah/ ore deposits/ vanadium/ uranium/ Colorado Plateau/ sandstone/
- Bowers, H. E., 1954
Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ Morrison Formation/ Salt Wash Member/ Long Park area/ vanadium/ Montrose County/
- Bowers, H. E., 1955
Montrose County/ Long Park area/ exploration/ drilling/ uranium/ reserves/ resources/ sandstone/ vanadium/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/
- Bowers, H. E., 1955
Guadalcanal claims/ Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Long Park area/ Montrose County/
- Bowers, H. E., and Shaw, D. R., 1961
Slick Rock district/ Disappointment Valley/ ore deposits/ exploration/ heavy minerals/ uranium/ vanadium/ sandstone/ Morrison Formation/ San Miguel County/ Salt Wash Member/ Dolores County/ ore guides/ Colorado Plateau/
- Bowie, S. H. U., 1970
Canada/ Ontario/ Blind River/ Colorado Plateau/ ore deposits/ genesis/ reserves/ sedimentary rocks/ sandstone/ conglomerate/ metamorphic rocks/ exploration/ igneous-metamorphic/ geology/ uranium provinces/
- Boyden, T. A., 1975
Colorado Plateau/ uranium/ marketing/ economics/
- Boyer, W. H., 1956
ore deposits/ sandstone/ stratigraphy/ Colorado Plateau/ vanadium/ mineralization/ exploration/ White River Plateau/ Rio Blanco County/ conglomerate/ siltstone/ mudstone/ Garfield County/ reconnaissance/ geology/ Morrison Formation/ Chinle Formation/ Burrell mines/ Last Day mine/ Coal Creek mine/ Uranium Peak/ Coal Creek anticline/ Sleepy Cat area/
- Bradley, W. H., 1945
Colorado/ Wyoming/ Moffat County/ sections/ sandstone/ Green River Formation/ Wasatch Formation/ stratigraphy/ structure/ oil/ gas/ Washakie basin/ Colorado Plateau/ Browns Park Formation/
- Bradley, W. H., 1950
uranium/ Colorado Plateau/ sandstone/ occurrences/ San Miguel County/ Montrose County/ Mesa County/ ore deposits/
- Brady, F. W., 1911
vanadium/ occurrences/ properties/ metallurgy/ Colorado Plateau/ sandstone/
- Brasher, G. K., 1951
Colorado Plateau/ ore deposits/ reserves/ sandstone/ Mesa County/ uranium/ vanadium/ Morrison Formation/ Outlaw Mesa/
- Brasher, G. K., 1952
Mesa County/ Outlaw Mesa area/ exploration/ drilling/ carnotite/ Colorado Plateau/
- Brasher, G. K., 1952
Colorado Plateau/ ore deposits/ geology/ Mesa County/ exploration/ drilling/ minerals/ carnotite/ production/ Outlaw Mesa/ uranium/ vanadium/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/
- Brasher, G. K., and Douglas, R. F., 1952
Colorado Plateau/ Gramlich group/ Paradox district/ drilling/ exploration/ sandstone/ ore deposits/ reserves/ Montrose County/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/
- Brasher, G. K., and Jobin, D. A., 1951
reserves/ resources/ Colorado Plateau/ sandstone/ Outlaw Mesa/ Morrison Formation/ ore deposits/ drilling/ exploration/ uranium/ vanadium/ Salt Wash Member/ Mesa County/
- Brasher, G. K., and Jobin, D. A., 1951
Colorado Plateau/ Mesa County/ reserves/ resources/ Outlaw Mesa/ sandstone/ ore deposits/ Salt Wash Member/ uranium/ vanadium/ Morrison Formation/
- Brasher, G. K., and Jobin, D. A., 1951
Outlaw Mesa area/ Mesa County/ reserves/ resources/ Mineral Channel claims/ Colorado Plateau/ ore deposits/ sandstone/ uranium/ vanadium/ Salt Wash Member/ Morrison Formation/

- Breger, I. A., 1955
uranium/ coal/ Colorado Plateau/ Colorado/ analyses/
vanadium/ carbonaceous material/
- Breger, I. A., 1955
uranium/ vanadium/ coal/ carbonaceous material/
Colorado Plateau/ analyses/ Colorado/ general/
- Breger, I. A., 1956
fossil wood/ coalification/ ore deposits/ Colorado
Plateau/ geochemistry/ organic/ uranium/ sandstone/
conglomeratic sandstone/ conglomerate/
- Breger, I. A., 1956
coalified wood/ uranium/ ore deposits/ Colorado
Plateau/ ash/ analyses/ geochemistry/ sandstone/
Morrison Formation/ Chinle Formation/ lignite/
- Breger, I. A., 1956
Colorado Plateau/ sandstone/ fossil plant debris/
uranium/
- Breger, I. A., 1957
organic geochemistry/ coal/ uranium/ Colorado
Plateau/ sandstone/ Wyoming/ Colorado/ New Mexico/
Utah/ peat/
- Breger, I. A., 1957
uranium/ carbonaceous materials/ sedimentary
rocks/ coal/ South Dakota/ Wyoming/ Colorado
Plateau/ Colorado/ sandstone/ New Mexico/ crude
oil/ asphaltite/ organic geochemistry/
- Breger, I. A., 1958
Colorado Plateau/ ore deposits/ exploration/
sandstone/ coalified logs/ organic materials/
fossil wood/ petroleum/ uranium/ geochemistry/
analyses/ sulfur/
- Breger, I. A., 1961
Colorado Plateau/ coal/ uranium/ carbonaceous
material/ vanadium/ sandstone/ coalified wood/
- Breger, I. A., 1974
uranium/ ore deposits/ geochemistry/ organic
compounds/ coal/ sandstone/ Colorado/ Colorado
Plateau/
- Breger, I. A., and Chandler, J. C., 1959
humic substances/ coal/ geochemistry/ geothermometry/
Colorado Plateau/ sediments/ sandstone/ analyses/
Colorado/ coalified logs/ Morrison Formation/
Montrose County/
- Breger, I. A., and Chandler, J. C., 1960
geochemistry/ humic substances/ coal/ coalified
logs/ Colorado/ Colorado Plateau/ Montrose County/
Morrison Formation/ analyses/ geothermometry/
sandstone/
- Breger, I. A., and Deul, Maurice, 1953
Colorado Plateau/ ore deposits/ lignite/ coal/
uranium/ Colorado/ Wyoming/ South Dakota/ retorts/
asphaltite/ sandstone/
- Breger, I. A., and Deul, Maurice, 1955
Colorado Plateau/ uranium/ carbonaceous materials/
sandstone/ shale/ coalified wood/ asphaltites/
Utah/ New Mexico/ Colorado/ crude oil/
- Breger, I. A., and Deul, Maurice, 1955
carbonaceous rocks/ ore deposits/ Colorado Plateau/
geochemistry/ Temple Mountain/ Utah/ comparisons/
ash/ sandstone/ coal/
- Breger, I. A., and Deul, Maurice, 1956
organic materials/ ore deposits/ Colorado Plateau/
geochemistry/ Colorado/ coalified wood/ sandstone/
Black King mine/ Placerville district/ San Miguel
County/ Utah/ Arizona/ carbonaceous rocks/
- Breger, I. A., and Deul, Maurice, 1956
bituminous substances/ uranium/ coal/ San Miguel
County/ Colorado Plateau/ oil/ organics/ geochemistry/
sandstone/
- Breger, I. A., and Deul, Maurice, 1956
bituminous substances/ uranium/ coal/ San Miguel
County/ geochemistry/ Colorado Plateau/ oil/
organics/ sandstone/
- Breger, I. A., and Moore, R. T., 1955
El Paso County/ Montrose County/ Virgin mine/
coal/ uraninite/ uranyl ion/ geochemistry/ reduction/
Colorado Plateau/ Front Range/ sandstone/ carbonaceous
substances/
- Breger, I. A., and Schopf, J. M., 1956
geochemistry/ coal/ Colorado Plateau/ petrography/
analyses/ Colorado/ Morrison Formation/ sandstone/
coalified wood/
- Brew, D. A., 1953
drilling/ exploration/ Colorado Plateau/ ore
deposits/ American Eagle group/ Gypsum Valley
district/ Montrose County/ sandstone/ Morrison
Formation/ reserves/ Salt Wash Member/ Mary
Jane claims/ uranium/ vanadium/
- Brew, D. A., 1953
Colorado Plateau/ reserves/ ore deposits/ sandstone/
Atkinson Mesa/ Montrose County/ Morrison Formation/
uranium/ vanadium/
- Brew, D. A., 1953
U.S. Vanadium Co. property/ Colorado Plateau/
sandstone/ ore deposits/ reserves/ Atkinson
Mesa area/ Montrose County/ exploration/ uranium/
vanadium/ Morrison Formation/ Salt Wash Member/
- Brew, D. A., 1954
exploration/ ore deposits/ Colorado Plateau/
ore guides/ Montrose County/ Atkinson Mesa area/
minerals/ carnotite/ coffinite/ corvusite/ montrosite/
sandstone/ vanadium/ Morrison Formation/ Salt
Wash Member/ drilling/ uranium/
- Broding, R. A., and Rummerfeld, B. F., 1956
Colorado Plateau/ exploration/ techniques/ uranium/
methods/ ore deposits/ petroleum/ geophysics/
logging/ sandstone/
- Broding, R. A., and Rummerfeld, B. F., 1956
Colorado Plateau/ ore deposits/ exploration/
Utah/ uranium/ petroleum/ sandstone/ logging/
geophysics/ techniques/
- Bromfield, C. S., 1967
San Miguel County/ Dolores County/ Mount Wilson

- quadrangle/ San Juan Mountains/ vanadium/ uranium/
Entrada Sandstone/ sandstone/ gold/ silver/
geology/ Colorado Plateau/
- Bromfield, C. S., and Conroy, A. R., 1964
San Miguel County/ Dolores County/ Mount Wilson
quadrangle/ vanadium/ San Juan Mountains/ uranium/
Entrada Sandstone/ sandstone/ gold/ silver/
geology/ Colorado Plateau/
- Bromfield, C. S., and Williams, F. E., 1972
resources/ Wilson Mountains Primitive area/
uranium/ San Miguel County/ Dolores County/
vanadium/ sediments/ sandstone/ Colorado Plateau/
geophysics/
- Brooks, R. A., and Campbell, J. A., 1976
elements/ variation/ analyses/ diagenesis/ ore
deposits/ tabular uranium deposits/ La Sal mines/
Utah/ Rajah 49 mine/ Uravan district/ Morrison
Formation/ Salt Wash Member/ Colorado Plateau/
Mesa County/ sandstone/
- Brooks, R. A., and Campbell, J. A., 1976
elements/ variation/ analyses/ diagenesis/ sandstone/
tabular uranium deposit/ La Sal mine/ Utah/
Rajah 49 mine/ ore deposits/ Morrison Formation/
Colorado Plateau/ Uravan district/ Salt Wash
Member/ Mesa County/
- Brown, Andrew, 1961
bibliography/ radioactive deposits/ geology/
uranium/ thorium/ mineralogy/ geochemistry/
reconnaissance/ Colorado/ Colorado Plateau/
sandstone/ geobotany/ geophysics/ United States/
veins/ igneous-metamorphic/ Front Range/ geologic
investigations/
- Bruyn, Kathleen, 1955
Colorado Plateau/ ore deposits/ sandstone/ Dolores
County/ history/ San Miguel County/ Montrose
County/ Mesa County/
- Bryner, Leonid, 1950
Colorado Plateau/ geology/ ore deposits/ uranium/
vanadium/ Club Mesa area/ minerals/ carnotite/
Uravan district/ Montrose County/ exploration/
drilling/ reserves/ resources/ sandstone/ Morrison
Formation/ Salt Wash Member/
- Bryner, Leonid, 1952
uranium/ vanadium/ geology/ stratigraphy/ ore
deposits/ Club Mesa/ Montrose County/ exploration/
drilling/ Colorado Plateau/ carnotite/ Buckshot
claim/ Club mines/ Shamrock mines/ Tramp mines/
Morrison Formation/ production/ reserves/ resources/
sandstone/ Salt Wash Member/
- Bryner, Leonid, 1971
Club Mesa area/ drilling/ Montrose County/ map/
Colorado Plateau/ sandstone/ exploration/ reserves/
- Bryner, Leonid, and Cramer, M. A., 1951
Colorado Plateau/ ore deposits/ sandstone/ reserves/
Montrose County/ Club Mesa area/ uranium/ vanadium/
Morrison Formation/ Salt Wash Member/
- Bryner, Leonid, and Cramer, M. A., 1952
Club Mesa area/ Montrose County/ Tramp mine/
uranium/ Colorado Plateau/ ore deposits/ reserves/
sandstone/ vanadium/ Morrison Formation/ Salt
Wash Member/
- Bryner, Leonid, and Cramer, M. A., 1952
Colorado Plateau/ ore deposits/ reserves/ sandstone/
Club Mesa area/ Montrose County/ uranium/ vanadium/
Morrison Formation/ Salt Wash Member/
- Bryner, Leonid, and Douglas, R. F., 1952
Colorado Plateau/ Club Mesa area/ Montrose County/
ore deposits/ exploration/ sandstone/ geology/
reserves/ carnotite/ Morrison Formation/ Salt
Wash Member/ vanadium/ uranium/ Uravan district/
- Bryner, Leonid, and Withington, C. F., 1951
drilling/ exploration/ Club Mesa area/ Montrose
County/ sandstone/ ore deposits/ Colorado Plateau/
reserves/ Uravan district/ carnotite/ Morrison
Formation/ Salt Wash Member/
- Bunker, C. M., and Hamontre, H. C., 1955
Jo Dandy area/ Montrose County/ sandstone/ well
logs/ drill data/ gamma-ray logs/ caliper log/
Colorado Plateau/ drilling/ geophysics/
- Bunker, C. M., and Hamontre, H. C., 1959
caliper log/ gamma-ray log/ Colorado Plateau/
drill data/ Jo Dandy area/ Montrose County/
drilling/ well logs/ geophysics/ sandstone/
- Burbank, W. S., and Pierson, C. T., 1952
Gunnison County/ Ouray County/ San Juan County/
Dolores County/ radioactivity/ reconnaissance/
San Juan Mountains/ igneous-metamorphic/ Colorado
Plateau/ sandstone/ veins/ San Miguel County/
- Burbank, W. S., and Pierson, C. T., 1953
radioactivity/ reconnaissance/ San Juan Mountains/
Ouray County/ San Miguel County/ Gunnison County/
Dolores County/ igneous-metamorphic/ sandstone/
Colorado Plateau/ veins/ San Juan County/
- Burwell, Blair, 1920
ore deposits/ resources/ mining/ carnotite/
Mesa County/ Dolores County/ San Miguel County/
Montrose County/ uranium/ vanadium/ Colorado
Plateau/ sandstone/
- Busch, P. M., 1961
vanadium/ Colorado Plateau/ uranium/ Placerville
district/ Garfield County/ San Miguel County/
Dolores County/ San Juan County/ sandstone/
Uravan district/ Rico district/ metallurgy/
Rifle district/
- Bush, A. L., 1950
Legin group area/ San Miguel County/ Eloisa
claim/ reserves/ resources/ sandstone/ Colorado
Plateau/ ore deposits/ vanadium/ Morrison Formation/
Salt Wash Member/ Otero claim/
- Bush, A. L., 1950
Colorado Plateau/ Egnar area/ San Miguel County/
exploration/ drilling/ Charles T. claim/ Easton
B claim/ Golden Rod claim/ Ownbey claim/ Charles
T. area/ vanadium/ production/ sandstone/ carnotite/

- geology/ ore deposits/ ore guides/ Morrison Formation/ Salt Wash Member/ reserves/ resources/ uranium/
- Bush, A. L., 1953
San Juan Mountains/ Colorado Plateau/ Placerville district/ vanadium/ Entrada Sandstone/ sandstone/ San Miguel County/ ore deposits/ uranium/ veins/
- Bush, A. L., 1953
San Juan Mountains/ uranium/ vanadium/ Entrada Sandstone/ San Miguel County/ ore deposits/ Colorado Plateau/ veins/ Placerville district/ sandstone/
- Bush, A. L., 1954
San Juan Mountains/ San Miguel County/ mapping/ uranium/ vanadium/ sandstone/ Colorado Plateau/ veins/ Entrada Sandstone/ geology/ ore deposits/ Placerville district/ Dolores County/
- Bush, A. L., 1954
San Juan Mountains/ Placerville district/ San Miguel County/ uranium/ vanadium/ Entrada Sandstone/ sandstone/ structure/ geology/ ore deposits/ Dolores County/ Colorado Plateau/ veins/
- Bush, A. L., 1955
mapping/ Placerville district/ San Juan Mountains/ San Miguel County/ Entrada Sandstone/ sandstone/ uranium/ vanadium/ ore deposits/ geology/ veins/ Colorado Plateau/
- Bush, A. L., 1955
San Juan Mountains/ San Miguel County/ Dolores County/ Placerville district/ vanadium/ uranium/ Entrada Sandstone/ sandstone/ ore deposits/ igneous-metamorphic/ Colorado Plateau/ veins/ geology/
- Bush, A. L., 1956
vanadium/ uranium/ ore deposits/ Entrada Sandstone/ veins/ sandstone/ San Juan Mountains/ San Miguel County/ Dolores County/ mineralogy/ Placerville district/ geology/ Colorado Plateau/
- Bush, A. L., and Bromfield, C. S., 1966
Dolores Peak quadrangle/ Dolores County/ San Miguel County/ geology/ sandstone/ Colorado Plateau/
- Bush, A. L., and Bryner, Leonid, 1953
carnotite/ roscoelite/ stratigraphy/ Entrada Sandstone/ minerals/ Pony Express Limestone Member/ Wanakah Formation/ limestone/ sandstone/ Colorado Plateau/ uranium/ vanadium/ San Juan Mountains/ San Miguel County/ ore deposits/ San Juan County/ Dolores County/ La Plata County/ Lightner Creek district/ Placerville district/ resources/
- Bush, A. L., and Stager, H. K., 1954
minerals/ carnotite/ Calamity claims/ Calamity mines/ uranium/ Charles T. claims/ Club Mesa claims/ Legin mines/ sandstone/ Morrison Formation/ vanadium/ Mesa County/ Colorado Plateau/ reserves/ Uravan district/ Montrose County/ San Miguel County/ ore deposits/
- Bush, A. L., and Stager, H. K., 1954
reserves/ uranium/ vanadium/ ore deposits/ Colorado Plateau/ Colorado/ sandstone/
- Bush, A. L., and Stager, H. K., 1954
estimation/ reserves/ uranium/ vanadium/ Colorado Plateau/ Colorado/ sandstone/ ore deposits/
- Bush, A. L., and Stager, H. K., 1955
Mesa County/ Montrose County/ San Miguel County/ Uravan district/ reserves/ uranium/ vanadium/ carnotite/ sandstone/ Colorado Plateau/ Morrison Formation/
- Bush, A. L., and Stager, H. K., 1956
Mesa County/ Montrose County/ San Miguel County/ Uravan district/ reserves/ uranium/ vanadium/ carnotite/ sandstone/ Colorado Plateau/ Morrison Formation/
- Bush, A. L., and Taylor, R. B., 1958
San Juan Mountains/ ore deposits/ Gray head quadrangle/ San Miguel County/ uranium/ vanadium/ granodiorite/ Placerville district/ Pony Express Limestone Member/ sandstone/ limestone/ Colorado Plateau/ igneous-metamorphic/
- Bush, A. L., Bromfield, C. S., and Pierson, C. T., 1956
San Miguel County/ Placerville quadrangle/ geology/ map/ sandstone/ uranium/ vanadium/ Leopard Vanadium mine/ Entrada Sandstone/ Colorado Plateau/
- Bush, A. L., Bromfield, C. S., and Pierson, C. T., 1956
Placerville quadrangle/ Entrada Sandstone/ sandstone/ uranium/ vanadium/ Leopard Vanadium mine/ San Miguel County/ areal geology/ stratigraphy/ igneous-metamorphic/ structure/ geomorphology/ gold/ silver/ copper/ geology/ Colorado Plateau/
- Bush, A. L., Bromfield, C. S., and Pierson, C. T., 1956
Placerville quadrangle/ Entrada Sandstone/ sandstone/ uranium/ vanadium/ Black King mine/ Leopard Vanadium mine/ San Miguel County/ geology/ map/ Colorado Plateau/ ore deposits/
- Bush, A. L., Bromfield, C. S., and Pierson, C. T., 1959
Colorado Plateau/ uranium/ vanadium/ ore deposits/ San Miguel County/ sediments/ Entrada Sandstone/ geology/ Jurassic/ areal geology/ uranium/ sandstone/ Placerville quadrangle/
- Bush, A. L., Bromfield, C. S., Marsh, O. T., and others, 1961
San Miguel County/ Gray Head quadrangle/ Entrada Sandstone/ sandstone/ uranium/ vanadium/ Colorado Plateau/ map/
- Bush, A. L., Hilpert, L. S., and Trace, R. D., 1950
sandstone/ ore deposits/ ore guides/ Colorado Plateau/ San Miguel County/ exploration/ drilling/ carnotite/ uranium/ Georgetown group claims/ Georgeto claim/ vanadium/ Veta Mad claim/ ore production/ reserves/ resources/ Morrison Formation/ Salt Wash Member/

- Bush, A. L., Marsh, O. T., and Taylor, R. B., 1957
San Juan Mountains/ structure/ Placerville district/
San Miguel County/ igneous-metamorphic/ uranium/
vanadium/ selenium/ ore deposits/ Colorado Plateau/
San Juan County/ La Plata County/ Dolores County/
sandstone/ veins/
- Bush, A. L., Marsh, O. T., and Taylor, R. B., 1958
San Miguel County/ Little Cone quadrangle/ structure/
sandstone/ vanadium/ uranium/ areal geology/
ore deposits/ Colorado Plateau/ Entrada Sandstone/
- Bush, A. L., Marsh, O. T., and Taylor, R. B., 1959
San Miguel County/ sandstone/ vanadium/ uranium/
Entrada Sandstone/ geology/ ore deposits/ Colorado
Plateau/ Little Cone quadrangle/
- Bush, A. L., Marsh, O. T., and Taylor, R. B., 1960
areal geology/ Little Cone quadrangle/ San Miguel
County/ Entrada Sandstone/ Jurassic/ vanadium/
uranium/ sandstone/ geology/ ore deposits/ Colorado
Plateau/
- Bush, A. L., Taylor, R. B., and Marsh, O. T., 1956
San Juan Mountains/ uranium/ vanadium/ Placerville
district/ San Miguel County/ Entrada Sandstone/
sandstone/ veins/ igneous-metamorphic/ Colorado
Plateau/ ore deposits/
- Bush, A. L., Taylor, R. B., Marsh, O. T., and others,
1956
San Juan Mountains/ uranium/ vanadium/ Placerville
district/ San Miguel County/ igneous-metamorphic/
stocks/ sandstone/ quartz monzonite/ ore deposits/
veins/ Colorado Plateau/
- Butler, A. P., Jr., 1952
Front Range/ thorium/ Colorado Plateau/ Morrison
Formation/ igneous-metamorphic/ Chinle Formation/
Shinarump Member/ geology/ ore deposits/ pegmatites/
veins/ sandstone/ placers/ carnotite/ fresh
waters/ gases/ Gilpin County/ Clear Creek County/
Custer County/ Lake County/ San Miguel County/
Gunnison County/
- Butler, A. P., Jr., 1955
resources/ uranium/ Colorado Plateau/
- Butler, A. P., Jr., 1973
uranium/ ore deposits/ resources/ politics/
Colorado Plateau/
- Butler, A. P., Jr., 1974
uranium/ resources/ ore deposits/ Colorado Plateau/
politics/
- Butler, A. P., Jr., and Schnabel, R. W., 1956
veins/ Front Range/ uranium/ occurrences/ United
States/ Colorado/ Colorado Plateau/ sedimentary
rocks/ water/ igneous-metamorphic/ sandstone/
- Butler, A. P., Jr., and Schnabel, R. W., 1956
veins/ occurrences/ United States/ Colorado/
Front Range/ Colorado Plateau/ uranium/ sedimentary
rocks/ water/ igneous-metamorphic/ sandstone/
- Butler, A. P., Jr., and Stead, F. W., 1947
ore deposits/ investigations/ Colorado Plateau/
Front Range/ sandstone/ igneous-metamorphic/
radioactive raw materials/ costs/
- Butler, A. P., Jr., Finch, W. I., and Twenhofel,
W. S., 1962
map/ uranium/ Colorado/ United States/ epigenetic
deposits/ ore deposits/ Colorado Plateau/ Front
Range/ sandstone/ igneous-metamorphic/
- Butler, A. P., Jr., Killeen, P. L., Page, G. B.,
and Rubey, W. W., 1947
ore deposits/ resources/ reconnaissance/ Front
Range/ reserves/ Colorado Plateau/ carnotite/
uranium/ vanadium/ igneous-metamorphic/ uraninite/
Iron Hill/ Gunnison County/ Gilpin County/ Clear
Creek County/ radioactive springs/ thorium/
mineralogy/ San Miguel County/ Montrose County/
Mesa County/ sandstone/ genesis/
- Byerly, P. E., and Joesting, H. R., 1958
geophysical investigations/ Lisbon Valley area/
Utah/ Colorado/ Paradox Basin/ stratigraphy/
salt anticlines/ Montrose County/ geophysics/
Colorado Plateau/ sandstone/
- Byerly, P. E., and Joesting, H. R., 1959
Lisbon Valley area/ Colorado/ Colorado Plateau/
geophysical investigations/ uranium/ Mesa County/
San Miguel County/ Dolores County/ gravity/
aeromagnetism/ sandstone/ geophysics/ Montrose
County/
- Cadigan, R. A., 1954
Colorado Plateau/ sandstone/ tuff/ alteration/
tuff estimation/ petrology/ stratigraphy/ ore
deposits/ geochemistry/
- Cadigan, R. A., 1954
correlation/ stratigraphy/ San Rafael group/
sandstone/ Colorado Plateau/ Colorado/ Entrada
Sandstone/ limestone/ Todilto Limestone/ siltstone/
- Cadigan, R. A., 1955
Dolores County/ Garfield County/ Mesa County/
sandstone/ Montrose County/ Rio Blanco County/
San Miguel County/ Entrada Sandstone/ Morrison
Formation/ stratigraphy/ Todilto Limestone/
Chinle Formation/ limestone/ host rocks/ conglomerate/
Colorado Plateau/ Triassic/ Jurassic/
- Cadigan, R. A., 1955
sedimentary petrology/ Colorado Plateau/ Morrison
Formation/ sandstone/ stratigraphy/ heavy minerals/
sources/
- Cadigan, R. A., 1956
lithology/ Colorado Plateau/ petrology/ sediments/
Morrison Formation/ sandstone/ Montrose County/
ore deposits/ San Miguel County/ geochemistry/
- Cadigan, R. A., 1957
lithology/ Colorado/ Cutler Formation/ Dolores
Formation/ petrology/ arkose/ quartzite/ Utah/
Colorado Plateau/ ore deposits/ sandstone/ shale/
- Cadigan, R. A., 1959
Colorado Plateau/ ore deposits/ sandstone/ host
rock/ Garfield County/ Rio Blanco County/ Mesa
County/ Montrose County/ San Miguel County/

- Dolores County/ San Juan County/ Morrison Formation/ Entrada Sandstone/
- Cadigan, R. A., 1963
tuffaceous sandstone/ sandstone/ Chinle Formation/ Colorado Plateau/ petrography/ analyses/ Tertiary strata/
- Cadigan, R. A., 1967
petrology/ Morrison Formation/ Colorado Plateau/ sandstone/ Gunnison County/ La Plata County/ Archuleta County/ San Miguel County/ Mesa County/ Delta County/ Eagle County/ Montrose County/ Montezuma County/ mineralogy/ Rio Blanco County/ Salt Wash Member/
- Cadigan, R. A., 1971
petrology/ Moenkopi Formation/ Colorado Plateau/ mineralogy/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/ stratigraphy/
- Cadigan, R. A., 1971
geochemical distribution/ Colorado Plateau/ red beds/ vanadium/ sandstone/ La Plata County/ Montezuma County/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Delta County/ Rio Blanco County/ geochemistry/ Garfield County/ Moenkopi Formation/
- Cadigan, R. A., 1972
stratigraphy/ genesis/ Chinle Formation/ Colorado Plateau/ paleontology/ sandstone/ Tertiary strata/ Eagle County/ La Plata County/ Archuleta County/ Garfield County/ Mesa County/ Moffat County/ Montezuma County/ Pitkin County/ Montrose County/ Rio Blanco County/ Routt County/ San Miguel County/ San Juan County/ Summit County/ Park County/ Delta County/ Dolores County/ mineralogy/ conglomerate/ Gunnison County/ Ouray County/
- Cadigan, R. A., 1972
geochemistry/ anomalies/ alteration/ Moenkopi Formation/ Skull Creek area/ Moffat County/ shale/ sandstone/ Colorado Plateau/
- Cadigan, R. A., and Miesch, A. T., 1958
Morrison Formation/ Salt Wash Member/ sandstone/ lithology/ ore deposits/ mineralogy/ uranium/ statistics/ Colorado Plateau/
- California Division of Mines, 1955
uranium/ occurrence/ California/ Colorado Plateau/ comparisons/ sandstone/ geology/
- Campbell, J. A., 1975
uranium potential/ Permian rocks/ Colorado Plateau/ sandstone/ ore deposits/
- Campbell, J. A., and Steele, B. A., 1976
uranium potential/ Permian rocks/ Colorado Plateau/ sandstone/ ore deposits/
- Cannon, H. L., 1951
Colorado Plateau/ botanical studies/ uranium/ geobotany/ vanadium/ indicator plants/ Colorado/ Utah/ Salt Wash Member/ sandstone/ Astragalus/ geology/ analyses/ ore deposits/ Mesa County/
- Montrose County/ Morrison Formation/ San Miguel County/ Dolores County/
- Cannon, H. L., 1951
Colorado Plateau/ botanical studies/ ore deposits/ sandstone/ geobotany/
- Cannon, H. L., 1952
Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/ vegetation/ uranium/ vanadium/ sandstone/ botanical studies/ Dolores County/ Colorado/ indicator plants/ Utah/ Morrison Formation/ Astragalus/ Salt Wash Member/ geology/ analyses/ ore deposits/ geobotany/
- Cannon, H. L., 1953
geobotanical studies/ indicator plants/ carnotite/ Colorado Plateau/ New Mexico/ experimental garden/ sandstone/ uranium/ vanadium/ selenium/ absorber plants/ ore deposits/ geobotany/
- Cannon, H. L., 1954
Colorado Plateau/ botanical studies/ uranium/ geobotany/ ore deposits/ soils/ ground water/ exploration/ absorber plants/ indicator plants/ Astragalus/ sandstone/ plant descriptions/
- Cannon, H. L., 1954
Colorado Plateau/ sandstone/ exploration/ vegetation/ indicator plants/ geobotany/
- Cannon, H. L., 1955
Colorado Plateau/ botanical studies/ experimental garden/ New Mexico/ Arizona/ Utah/ Wyoming/ uranium/ ore deposits/ geobotany/ sandstone/
- Cannon, H. L., 1955
Colorado Plateau/ sandstone/ vegetation/ exploration/ geobotany/ indicator plants/
- Cannon, H. L., 1956
Colorado Plateau/ botanical studies/ Astragalus/ indicator plants/ radium/ New Mexico/ equipment/ sandstone/ analysis methods/ ore deposits/ geobotany/
- Cannon, H. L., 1957
Colorado Plateau/ ore deposits/ exploration/ vegetation/ indicator plants/ Utah/ botanical prospecting/ geobotany/ Colorado/ sandstone/ geochemistry/ Marshall Pass/ Saguache County/ Lookout No. 22 claim/ uraninite/ igneous-metamorphic/ Astragalus/ botanical studies/
- Cannon, H. L., 1957
Colorado Plateau/ botanical prospecting/ indicator plants/ ore deposits/ exploration/ soil/ sandstone/ geobotany/ plant descriptions/
- Cannon, H. L., 1957
plant descriptions/ Colorado Plateau/ sandstone/ exploration/ uranium/ Astragalus/ vanadium/ Utah/ ore deposits/ New Mexico/ Arizona/ Colorado/ Wyoming/ San Miguel County/ Montrose County/ Mesa County/ geobotany/ Dolores County/ botanical studies/ indicator plants/
- Cannon, H. L., 1960
Colorado Plateau/ ore deposits/ botanical prospecting/ exploration/ indicator plants/ sandstone/ Rio

- Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ geobotany/
- Cannon, H. L., 1963
vanadium/ sandstone/ geochemistry/ Colorado Plateau/ biochemistry/
- Cannon, H. L., and Kleinhampl, F. J., 1956
Colorado Plateau/ botanical methods/ exploration/ geobotany/ prospecting/ uranium/ analyses/ indicator plants/ Colorado/ biogeochemistry/ sandstone/
- Cannon, H. L., and Kleinhampl, F. J., 1956
botanical methods/ exploration/ uranium/ geobotany/ analyses/ indicator plants/ Colorado/ biogeochemistry/ sandstone/ Colorado Plateau/
- Cannon, R. S., Jr., 1952
isotope geology/ uranium/ thorium/ decay products/ Colorado Plateau/ Front Range/ Morrison Formation/ sandstone/ igneous-metamorphic/
- Carithers, L. W., and Clinton, N. J., 1956
Colorado Plateau/ ore deposits/ sedimentary rocks/ sandstone/ terrestrial rocks/ marine rocks/ Moffat County/ Skull Creek district/ Montezuma County/ uranium/ Curtis Formation/ shoreline sandstone/
- Carr, W. J., 1948
Rangely area/ Skull Creek district/ Moffat County/ Morrison Formation/ sandstone/ Colorado Plateau/ uranium/ ore deposits/
- Carter, W. D., 1953
Colorado Plateau/ reserves/ drilling/ exploration/ vanadium/ sandstone/ ore deposits/ uranium/ Morrison Formation/ Salt Wash Member/ Long Park area/ Montrose County/ La Sal Creek area/ Paradox district/ Colorado/ Utah/ geology/
- Carter, W. D., 1955
La Sal Creek area/ Paradox district/ Montrose County/ Colorado/ Utah/ Colorado Plateau/ sandstone/ ore deposits/ exploration/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Carter, W. D., 1956
Colorado/ Utah/ Cretaceous/ sandstone/ disconformity/ Dakota Sandstone/ Montrose County/ Colorado Plateau/ Burro Canyon Member/ stratigraphy/
- Carter, W. D., 1956
Burro Canyon Member/ Mount Peale No. 1 quadrangle/ Colorado/ Utah/ sandstone/ Montrose County/ stratigraphy/ ore deposits/ geology/ Colorado Plateau/ Dakota Sandstone/
- Carter, W. D., 1956
disconformity/ stratigraphy/ Cretaceous/ Colorado Plateau/ Dakota Sandstone/ Burro Canyon Member/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/ sandstone/
- Carter, W. D., 1957
disconformity/ stratigraphy/ Cretaceous/ Colorado/ Utah/ Colorado Plateau/ Dakota Sandstone/ Burro Canyon Member/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ sandstone/
- Carter, W. D., and Gualtieri, J. L., 1956
Montrose County/ Colorado/ Utah/ La Sal Creek area/ Morrison Formation/ sandstone/ Salt Wash Member/ drilling/ ore deposits/ Colorado Plateau/ Paradox district/
- Carter, W. D., and Gualtieri, J. L., 1957
Colorado Plateau/ La Sal Creek area/ Paradox district/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado/ Utah/ drilling/ stratigraphy/ structure/ Montrose County/ ore deposits/
- Carter, W. D., and Gualtieri, J. L., 1957
Mount Peale 1 SE quadrangle/ geology/ map/ Montrose County/ Colorado/ Utah/ sandstone/ uranium/ Colorado Plateau/
- Carter, W. D., and Gualtieri, J. L., 1965
Colorado/ Utah/ La Sal quadrangle/ ore deposits/ areal geology/ Montrose County/ vanadium/ uranium/ sandstone/ Colorado Plateau/ Morrison Formation/ geology/
- Carter, W. D., and Gualtieri, J. L., 1970
maps/ drilling/ exploration/ La Sal Creek area/ Montrose County/ Colorado/ Utah/ sandstone/ Paradox district/ Colorado Plateau/
- Carter, W. D., Gualtieri, J. L., and Hedlund, D. C., 1954
Colorado Plateau/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ La Sal Creek area/ Paradox district/ Montrose County/ Colorado/ Utah/
- Carter, W. D., Gualtieri, J. L., and Warman, J., 1954
Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Paradox district/ Montrose County/ Colorado/ Utah/ La Sal Creek area/
- Carter, W. D., Gualtieri, J. L., and Warman, J., 1955
La Sal Creek area/ Montrose County/ Utah/ Colorado/ Morrison Formation/ Salt Wash Member/ sandstone/ structure/ Colorado Plateau/ ore deposits/ exploration/ Paradox district/
- Carter, W. D., Gualtieri, J. L., and Shoemaker, E. M., 1958
Colorado/ Montrose County/ Mount Peale 1 NE quadrangle/ Utah/ Morrison Formation/ sandstone/ geology/ map/ uranium/ vanadium/ Colorado Plateau/
- Case, J. E., and Joesting, H. R., 1972
geophysical investigations/ Colorado Plateau/ stratigraphy/ gravity surveys/ aeromagnetic surveys/ exploration/ Montezuma County/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ geophysics/ geology/
- Case, J. E., Joesting, H. R., and Byerly, P. E., 1963
geophysical investigations/ La Sal Mountains/ geophysics/ Colorado Plateau/ geology/ aeromagnetic surveys/ Mesa County/ Montrose County/ San Miguel

- County/ Dolores County/ Montezuma County/ sandstone/
Igneous-metamorphic/
- Cashlon, W. B., 1973
geology/ structure/ map/ Grand Junction quadrangle/
Colorado/ Utah/ Colorado Plateau/ Mesa County/
sandstone/ Rio Blanco County/ Garfield County/
- Cater, F. W., Jr., 1953
Uravan district/ Montrose County/ San Miguel
County/ quadrangle/ geology/ ore guides/ exploration/
minerals/ carnotite/ Colorado Plateau/ Morrison
Formation/ map/ sandstone/ Gyp mine/ Raven mine/
Silveys Pocket/ structure/ ore deposits/ Anderson
Mesa quadrangle/ Salt Wash Member/
- Cater, F. W., Jr., 1953
Uravan district/ Montrose County/ San Miguel
County/ map/ geology/ ore guides/ exploration/
minerals/ ore deposits/ carnotite/ Morrison
Formation/ Salt Wash Member/ sandstone/ Colorado
Plateau/ Jo Dandy group/ Monogram group/ Wild
Steer mine/ Tea Pot Dome mine/ Bull Canyon quadrangle/
- Cater, F. W., Jr., 1953
Mesa County/ Calamity Mesa quadrangle/ geology/
map/ ore guides/ exploration/ minerals/ carnotite/
ore deposits/ Morrison Formation/ Salt Wash
member/ sandstone/ Maverick mines/ Arrowhead
mines/ Calamity mines/ G-1 mine/ Ronnie mine/
Blue Creek mines/ mines/ Colorado Plateau/ Uravan
district/
- Cater, F. W., Jr., 1953
Montrose County/ Davls Mesa quadrangle/ geology/
ore guides/ exploration/ minerals/ carnotite/
Morrison Formation/ Salt Wash Member/ sandstone/
Club mines/ Long Park/ Tramp No. 2 mine/ mines/
Colorado Plateau/ Uravan district/ ore deposits/
map/
- Cater, F. W., Jr., 1953
Uravan district/ Mesa County/ Gateway quadrangle/
geology/ carnotite/ Colorado Plateau/ Brushy
Basin member/ Morrison Formation/ Salt Wash
Member/ sandstone/ shale/ Mammoth mine/ Yanaking
No. 1 mine/ minerals/ map/ ore guides/ exploration/
ore deposits/
- Cater, F. W., Jr., 1953
San Miguel County/ Gypsum Gap quadrangle/ geology/
ore guides/ exploration/ minerals/ carnotite/
Morrison Formation/ Salt Wash Member/ sandstone/
Hermosa Formation/ Pitchfork mines/ Bald Eagle
mines/ Long Ridge mines/ Uravan district/ ore
deposits/ map/ Colorado Plateau/
- Cater, F. W., Jr., 1953
San Miguel County/ Hamm Canyon quadrangle/ geology/
ore guides/ exploration/ minerals/ carnotite/
map/ Salt Wash Member/ sandstone/ Colorado Plateau/
ore deposits/ Rambler claim/ Mexico mines/ Lookout
mine/ Riverview claim/ Morrison Formation/ Uravan
district/
- Cater, F. W., Jr., 1953
San Miguel County/ Horse Range Mesa quadrangle/
geology/ minerals/ carnotite/ Uravan district/
- ore guides/ Colorado Plateau/ Morrison Formation/
Salt Wash Member/ sandstone/ Radium group/ Charles
T. mines/ ore deposits/ Georgetown mine/ Veta
Mad mine/ Lower group of mines/ map/ Upper group
of mines/
- Cater, F. W., Jr., 1953
Uravan district/ Montrose County/ San Miguel
County/ geology/ ore guides/ exploration/ minerals/
ore deposits/ carnotite/ Morrison Formation/
Salt Wash Member/ sandstone/ Colorado Plateau/
Thunderbolt mine/ Oversight claim/ map/ Jo Dandy
area/ mines/ Naturita NW quadrangle/
- Cater, F. W., Jr., 1953
Uravan district/ Mesa County/ Pine Mountain
quadrangle/ ore guides/ exploration/ minerals/
carnotite/ geology/ Sunflower claim/ Colorado
Plateau/ Morrison Formation/ Salt Wash Member/
sandstone/ ore deposits/ maps/
- Cater, F. W., Jr., 1953
carnotite/ Colorado/ stratigraphy/ structure/
mapping/ Colorado Plateau/ geology/ San Miguel
County/ Mesa County/ Montrose County/
- Cater, F. W., Jr., 1953
Colorado/ carnotite/ Mesa County/ Montrose County/
sandstone/ ore deposits/ Morrison Formation/
salt anticlines/ Salt Wash Member/ stratigraphy/
structure/ Colorado Plateau/ geology/ exploration/
mapping/ San Miguel County/
- Cater, F. W., Jr., 1954
Uravan district/ Dolores County/ San Miguel
County/ Egnar quadrangle/ geology/ ore guides/
exploration/ minerals/ carnotite/ Colorado Plateau/
Salt Wash Member/ Morrison Formation/ sandstone/
Charles T. mines/ map/ Golden Rod mines/ Ownbey
group/ Spud Patch group/ Legln mines/ Ike group
of mines/ mines/ ore deposits/
- Cater, F. W., Jr., 1954
Bull Canyon quadrangle/ Montrose County/ sandstone/
San Miguel County/ Uravan district/ geology/
carnotite/ Salt Wash Member/ Colorado Plateau/
map/ Morrison Formation/
- Cater, F. W., Jr., 1955
Dolores County/ San Miguel County/ Egnar quadrangle/
Colorado Plateau/ carnotite/ Morrison Formation/
sandstone/ Charles T. mines/ Golden Rod mines/
ore deposits/ Ownbey group of mines/ Spud Patch
group/ Legln mines/ Ike group of mines/ geology/
map/ mines/ Salt Wash Member/
- Cater, F. W., Jr., 1955
Mesa County/ Gateway district/ sandstone/ Colorado
Plateau/ carnotite/ Morrison Formation/ Salt
Wash Member/ shale/ Mammoth mine/ Yanaking No.
1 mine/ ore deposits/ Gateway quadrangle/ geology/
map/ carnotite/ Brushy Basin Member/
- Cater, F. W., Jr., 1955
San Miguel County/ Gypsum Gap quadrangle/ sandstone/
Colorado Plateau/ Morrison Formation/ Salt Wash
Member/ Hermosa Formation/ Pitchfork mines/
Bald Eagle mines/ Long Ridge mines/ limestone/
geology/ map/ carnotite/

Cater, F. W., Jr., 1955

Pine Mountain quadrangle/ sandstone/ Mesa County/ carnotite/ Uravan district/ Colorado Plateau/ Morrison Formation/ sandstone/ Sunflower claim/ geology/ map/ ore deposits/ Salt Wash Member/

Cater, F. W., Jr., 1955

Mesa County/ carnotite/ Morrison Formation/ sandstone/ Maverick mines/ Arrowhead mines/ ore deposits/ Calamity mines/ G-1 mine/ Ronnie mine/ Blue Creek mines/ Calamity Mesa quadrangle/ Colorado Plateau/ geology/ map/ mines/ Salt Wash Member/

Cater, F. W., Jr., 1955

San Miguel County/ Colorado Plateau/ ore deposits/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Radium group mines/ Charles T. mines/ Georgeto mine/ Veta Mad mine/ Lower group mines/ Upper group mines/ mines/ geology/ map/ Horse Range Mesa quadrangle/

Cater, F. W., Jr., 1955

Montrose County/ San Miguel County/ Naturita NW quadrangle/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ sandstone/ carnotite/ Thunderbolt mine/ Oversight claim/ Jo Dandy area/ geology/ map/ mines/ ore deposits/

Cater, F. W., Jr., 1955

Dolores County/ San Miguel County/ Colorado Plateau/ Joe Davis Hill quadrangle/ Morrison Formation/ ore deposits/ sandstone/ carnotite/ geology/ map/ Salt Wash Member/

Cater, F. W., Jr., 1955

San Miguel County/ Hamm Canyon quadrangle/ sandstone/ Morrison Formation/ Salt Wash member/ Colorado Plateau/ carnotite/ Rambler claim/ Mexico mines/ Lookout mine/ Riverview claim/ geology/ map/ ore deposits/

Cater, F. W., Jr., 1955

Davis Mesa quadrangle/ Salt Wash member/ sandstone/ Morrison Formation/ Club mines/ Long Park/ carnotite/ Montrose County/ Colorado Plateau/ geology/ map/ mines/ ore deposits/

Cater, F. W., Jr., 1955

San Miguel County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ carnotite/ Hermosa Formation/ limestone/ Pitchfork mines/ geology/ Bald Eagle mines/ Long Ridge mines/ map/ ore deposits/ Gypsum Gap quadrangle/

Cater, F. W., Jr., 1955

San Miguel County/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado Plateau/ carnotite/ Rambler claim/ Mexico mines/ Lookout mine/ Riverview claim/ geology/ map/ ore deposits/ Hamm Canyon quadrangle/

Cater, F. W., Jr., 1955

Montrose County/ San Miguel County/ ore deposits/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado Plateau/ Gyp mine/ Raven mine/ Silveys Pocket/ geology/ map/ Anderson Mesa quadrangle/

Cater, F. W., Jr., 1955

Dolores County/ San Miguel County/ Egnar quadrangle/ Colorado Plateau/ carnotite/ Morrison Formation/ sandstone/ Charles T. mines/ Ike group mines/ ore deposits/ Ownbey group/ Spud Patch group/ Legln mines/ geology/ map/ mines/ Golden Rod mines/ Salt Wash Member/

Cater, F. W., Jr., 1955

Dolores County/ San Miguel County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ map/ mines/ carnotite/ Joe Davis Hill quadrangle/ geology/ ore deposits/

Cater, F. W., Jr., 1955

San Miguel County/ Colorado Plateau/ ore deposits/ map/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Radium group/ Charles T. mines/ Georgeto mine/ Lower group of mines/ Upper group of mines/ mines/ geology/ Veta Mad mine/ Horse Range Mesa quadrangle/

Cater, F. W., Jr., 1955

Naturita NW quadrangle/ Morrison Formation/ ore deposits/ sandstone/ Colorado Plateau/ carnotite/ Thunderbolt mine/ Oversight claim/ Jo Dandy area/ Montrose County/ San Miguel County/ geology/ map/ mines/ Salt Wash Member/

Cater, F. W., Jr., 1955

Calamity Mesa quadrangle/ Colorado Plateau/ Mesa County/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Maverick mines/ Arrowhead mines/ Calamity mines/ G-1 mine/ Ronnie mine/ Blue Creek mines/ mines/ geology/ ore deposits/ map/

Cater, F. W., Jr., 1955

geology/ Dolores County/ salt anticlines/ Montrose County/ San Miguel County/ sandstone/ Utah/ Paradox Basin/ Colorado Plateau/ carnotite/ San Juan Basin/ Archuleta County/ La Plata County/

Cater, F. W., Jr., 1955

Colorado Plateau/ Colorado/ mapping/ maps published/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ sandstone/ carnotite/ ore deposits/

Cater, F. W., Jr., 1955

Colorado Plateau/ Mesa County/ Pine Mountain quadrangle/ quadrangle/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Sunflower claim/ geology/ map/ Uravan district/ ore deposits/

Cater, F. W., Jr., 1956

Montrose County/ San Miguel County/ Morrison Formation/ Anderson Mesa quadrangle/ carnotite/ ore deposits/ Salt Wash Member/ sandstone/ Colorado Plateau/ Gyp mine/ Silveys Pocket/ geology/ map/ mines/ Raven mine/

Cater, F. W., Jr., 1964

Gypsum Valley/ salt anticlines/ San Miguel County/ structure/ geology/ Colorado Plateau/ history/ sandstone/

Cater, F. W., Jr., 1967

salt anticlines/ Paradox Basin/ Utah/ Colorado/

- sandstone/ San Miguel County/ Montrose County/ Mesa County/ structure/ Colorado Plateau/ geology/
- Cater, F. W., Jr., 1970
salt anticlines/ geology/ Colorado/ Mesa County/ San Miguel County/ Colorado Plateau/ stratigraphy/ structure/ sandstone/ Montrose County/
- Cater, F. W., Jr., and Bell, H., 3d, 1953
Uravan district/ Dolores County/ San Miguel County/ geology/ ore guides/ exploration/ minerals/ carnotite/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ Norma Jean mine/ Mucho Grande mine/ ore deposits/ map/ Joe Davis Hill quadrangle/
- Cater, F. W., Jr., and Elston, D. P., 1961
salt anticlines/ tectonics/ Colorado/ Mesa County/ San Miguel County/ Colorado Plateau/ structural development/ geology/ Utah/ sandstone/ Montrose County/
- Cater, F. W., Jr., and Elston, D. P., 1963
salt anticlines/ tectonics/ Colorado/ Mesa County/ Montrose County/ San Miguel County/ geology/ structural development/ Utah/ sandstone/ Colorado Plateau/
- Cater, F. W., Jr., and McKay, E. J., 1955
Montrose County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ carnotite/ Club mines/ Long Park area/ Davis Mesa quadrangle/ geology/ map/ mines/ ore deposits/
- Cater, F. W., Jr., and McKay, E. J., 1955
Montrose County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ carnotite/ map/ mines/ Long Park No. 6 mine/ Uravan district/ Black Dinah mine/ Bitter Creek mines/ Uravan quadrangle/ geology/ ore deposits/
- Cater, F. W., Jr., Butler, A. P., Jr., and McKay, E. J., 1954
Uravan district/ Montrose County/ Uravan quadrangle/ exploration/ minerals/ carnotite/ Bitter Creek mines/ Black Dinah mine/ Long Park No. 6 mine/ genesis/ ore deposits/ sandstone/ map/ mines/ Salt Wash Member/ Morrison Formation/ geology/ ore guides/ Colorado Plateau/
- Cater, F. W., Jr., Butler, A. P., Jr., and McKay, E. J., 1955
Montrose County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ carnotite/ Long Park No. 6 mine/ Black Dinah mine/ Bitter Creek mines/ ore deposits/ genesis/ map/ Uravan quadrangle/ geology/
- Cater, F. W., Jr., Craig, L. C., and Phoenix, D. A., 1950
sandstone/ Morrison Formation/ Salt Wash Member/ geology/ Colorado Plateau/ ground water studies/ carnotite/ stratigraphy/ structure/ ore deposits/ Colorado/ New Mexico/ Utah/ Arizona/ San Miguel County/ Montrose County/ Mesa County/ Garfield County/ Rio Blanco County/
- Chapman, E. P., Jr., 1958
Colorado Plateau/ ore deposits/ exploration/ rotary drilling/ sampling/ logging/ sandstone/
- Chenoweth, W. L., 1975
Utah/ Colorado/ uranium/ ore deposits/ Canyonlands area/ La Sal Creek area/ sandstone/ Montrose County/ Colorado Plateau/
- Chenoweth, W. L., 1975
Utah/ Colorado/ uranium/ ore deposits/ Canyonlands area/ La Sal Creek area/ sandstone/ Montrose County/ Colorado Plateau/
- Chenoweth, W. L., 1977
Colorado Plateau/ sandstone/ Garfield County/ San Miguel County/ Mesa County/ Dolores County/ Montezuma County/ Montrose County/
- Chenoweth, W. L., and Malan, R. C., 1969
uranium/ ore deposits/ geology/ classifications/ Canada/ sandstone/ Igneous-metamorphic/ Colorado/ Colorado Plateau/ United States/
- Chew, R. T., 3d, 1955
Colorado Plateau/ Rifle mine/ Uravan district/ map/ Uranium Peak/ sandstone/ production/ uranium/ vanadium/ Morrison Formation/ La Plata County/ ore deposits/ Entrada Sandstone/ Rio Blanco County/ Mesa County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Gateway district/
- Chew, R. T., 3d, 1955
sandstone/ Mesa County/ Utah/ stream sediments/ exploration/ radioactivity/ Delta County/ Montrose County/ gravels/ San Miguel County/ Dolores County/ Ouray County/ San Juan County/ Montezuma County/ La Plata County/ Colorado Plateau/
- Chew, R. T., 3d, 1956
Mesa County/ Delta County/ Montrose County/ sandstone/ Dolores County/ Ouray County/ San Juan County/ gravels/ Montezuma County/ La Plata County/ Colorado Plateau/ exploration/ stream sediments/ radioactivity/ San Miguel County/
- Chew, R. T., 3d, 1956
Rifle mine/ Uravan district/ Uranium Peak/ vanadium/ production/ Colorado Plateau/ uranium/ sandstone/ Rio Blanco County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Entrada Sandstone/ ore deposits/ Garfield County/ Morrison Formation/
- Chew, R. T., 3d, and Fischer, R. P., 1954
ore deposits/ Rifle district/ Rio Blanco County/ Colorado/ Moffat County/ Maybell-Lay district/ Coal Creek area/ Skull Creek district/ Browns Park Formation/ Garfield County/ Meeker district/ Utah/ Entrada Sandstone/ sandstone/ Colorado Plateau/
- Clinton, N. J., and Carithers, L. W., 1956
Colorado Plateau/ sandstone/ marginal marine rocks/ uranium/ Curtis Formation/ genesis/ geology/ Moffat County/ ore deposits/ Montezuma County/

- terrestrial rocks/ Skull Creek district/ Shoreline Sandstone/
- Coffin, R. C., 1921
ore deposits/ resources/ structure/ composition/ sandstone/ carnotite/ radium/ uranium/ vanadium/ Colorado Plateau/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/
- Coffin, R. C., 1921
carnotite/ Colorado Plateau/ radium/ uranium/ Mesa County/ vanadium/ sandstone/ ore deposits/ San Miguel County/ Dolores County/ Montrose County/
- Cohenour, R. E., 1967
Colorado Plateau/ ore deposits/ production/ history/ Utah/ mineral economics/ Placerville district/ Uravan district/ sandstone/ San Miguel County/ development/ Montrose County/
- Coleman, R. G., 1956
thermometry/ radioactive minerals/ Colorado Plateau/ sulfides/ sandstone/ uraninite/ San Miguel County/ geology/ ore deposits/ geothermometry/
- Coleman, R. G., 1957
mineralogy/ temperature of formation/ uranium/ ore deposits/ Colorado Plateau/ San Miguel County/ geothermometry/ sandstone/
- Coleman, R. G., Lep, G. W., and Stewart, D. B., 1957
Colorado Plateau/ ore deposits/ genesis/ geologic thermometry/ radioactive minerals/ sphalerite/ pyrite/ sulfides/ Good Hope mine/ Lytner (Lightner) Creek/ Wyoming/ sandstone/ Colorado/ Utah/ La Plata County/ Dolores County/ geothermometry/
- Collins, G. E., 1914
carnotite/ sandstone/ San Miguel County/ Montrose County/ pitchblende/ igneous-metamorphic/ Gilpin County/ mining/ Colorado Plateau/ Front Range/
- Colorado Geological Survey, 1968
minerals/ water/ resources/ Colorado/ uranium/ thorium/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/
- Colorado Geological Survey, 1976
bibliography/ geology/ uranium/ Colorado/ Front Range/ Colorado Plateau/
- Columbia University, 1968
Colorado Plateau/ uranium/ geology/ minerals/ Colorado/ ore deposits/ environment/ precipitation/ reduction/ sulfides/ Arizona/ copper/ geography/ genesis/ Utah/ mineralization/ alteration/ sandstone/
- Columbia University, 1968
Colorado/ geology/ precipitation/ genesis/ reduction/ sulfides/ uranium/ hydrogen sulfide/ Arizona/ Colorado Plateau/ copper/ geography/ Utah/ ore deposits/ mineralization/ alteration/ sandstone/
- Columbia University, 1971
plants/ uranium/ Colorado Plateau/ ore deposits/ sandstone/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/
- Comstock, S. S., 1951
radioactivity/ exploration/ drilling/ Arizona/ Utah/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ gamma-ray logging/ Colorado Plateau/
- Cooper, Margaret, 1951
bibliography/ uranium/ thorium/ carbonaceous deposits/ Colorado/ Colorado Plateau/ Mesa County/ sandstone/ San Miguel County/ Dolores County/ Montezuma County/ ore deposits/ Montrose County/
- Cooper, Margaret, 1951
bibliography/ uranium/ thorium/ carbonaceous deposits/ Colorado/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ Dolores County/ organics/ sandstone/
- Cooper, Margaret, 1953
Colorado/ Utah/ bibliography/ uranium/ thorium/ sandstone/ radioactive occurrences/ ore deposits/ Colorado Plateau/ Front Range/ igneous-metamorphic/
- Cooper, Margaret, 1954
Colorado/ Utah/ bibliography/ uranium/ thorium/ sandstone/ radioactive occurrences/ ore deposits/ Colorado Plateau/ Front Range/ igneous-metamorphic/
- Craig, L. C., 1953
Colorado Plateau/ genesis/ relation/ ground water/ sandstone/ geology/
- Craig, L. C., 1953
Colorado Plateau/ mapping/ stratigraphy/ Morrison Formation/ sandstone/ geology/
- Craig, L. C., 1953
Colorado Plateau/ stratigraphy/ Morrison Formation/ ore deposits/ sandstone/ conglomerate/
- Craig, L. C., 1955
stratigraphy/ Colorado Plateau/ sandstone/ ore deposits/ Morrison Formation/
- Craig, L. C., 1958
stratigraphy/ Colorado Plateau/ Mesa County/ Colorado/ New Mexico/ sandstone/ Triassic/ Mesozoic/
- Craig, L. C., and Cadigan, R. A., 1958
Morrison Formation/ Colorado Plateau/ ore deposits/ stratigraphy/ sandstone/ Colorado/ Utah/ Paradox basin/ San Miguel County/ Montrose County/
- Craig, L. C., and Dickey, D. D., 1956
Jurassic/ stratigraphy/ Colorado/ Utah/ sandstone/ Morrison Formation/ ore deposits/ Colorado Plateau/
- Craig, L. C., and Dickey, D. D., 1956
stratigraphy/ Colorado Plateau/ ore deposits/ sandstone/
- Craig, L. C., and Holmes, C. N., 1951
Morrison Formation/ Colorado Plateau/ sandstone/ Moffat County/ Rio Blanco County/ Garfield County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Mesa County/ stratigraphy/ Glen Canyon group/ San Rafael group/

- Craig, L. C., and Holmes, C. N., 1951
Colorado/ Utah/ Jurassic/ stratigraphy/ Morrison Formation/ Glen Canyon group/ San Rafael group/ sandstone/ San Juan basin/ Montezuma County/ La Plata County/ Colorado Plateau/
- Craig, L. C., and Koteff, C., 1956
stratigraphy/ Colorado Plateau/ Paleozoic/ Cretaceous/ sandstone/ limestone/ ore deposits/
- Craig, L. C., and Koteff, C., 1957
stratigraphy/ Colorado Plateau/ sandstone/ ore deposits/
- Craig, L. C., and Mytton, J. W., 1957
Cretaceous/ sandstone/ stratigraphy/ Colorado Plateau/ ore deposits/
- Craig, L. C., and Mytton, J. W., 1958
stratigraphy/ Colorado Plateau/ Paleozoic/ Mesozoic/ sandstone/ limestone/ ore deposits/
- Craig, L. C., and Weir, G. W., 1953
ore deposits/ geology/ Colorado Plateau/ Morrison Formation/ sandstone/ conglomerate/ uranium/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1951
Colorado Plateau/ Morrison Formation/ Mesa County/ stratigraphy/ Glen Canyon group/ Montezuma County/ Delta County/ San Rafael group/ Dolores County/ Gunnison County/ Montrose County/ sandstone/ Moffat County/ Ouray County/ San Juan County/ San Miguel County/ La Plata County/ Rio Blanco County/ Garfield County/ Archuleta County/
- Craig, L. C., Holmes, C. N., Cadigan, R. A., and others, 1955
stratigraphy/ Morrison Formation/ Colorado Plateau/ sandstone/ Recapture Member/ Mesa County/ Ouray County/ Delta County/ Gunnison County/ Montrose County/ San Juan County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Salt Wash Member/
- Craig, L. C., Holmes, C. N., Freeman, V. L., and others, 1977
Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ member/ sandstone/ shale/ Colorado Plateau/ facies/ maps/ Montrose County/ Mesa County/ San Miguel County/ Dolores County/
- Cross, C. W., 1907
Colorado/ Utah/ stratigraphy/ reconnaissance/ sandstone/ Colorado Plateau/
- Cross, C. W., and Larsen, E. S., 1915
stratigraphy/ La Plata Sandstone/ unconformity/ Precambrian/ San Juan Mountains/ Montrose County/ Gunnison County/ Igneous-metamorphic/ sandstone/ Colorado Plateau/ geology/
- Cumenge, E., and Friedel, C., 1899
carnotite/ mineralogy/ sandstone/ Colorado Plateau/
- Cumenge, E., and Friedel, C., 1899
carnotite/ mineralogy/ sandstone/ Colorado Plateau/
- Curran, T. F., 1911
Paradox Valley/ ore deposits/ carnotite/ Colorado Plateau/ sandstone/ Montrose County/
- Curran, T. F., 1913
Colorado Plateau/ ore deposits/ carnotite/ history/ Gilpin County/ Wood mine/ Montrose County/ sandstone/ pitchblende/ San Miguel County/ Mesa County/ Dolores County/ Routt County/ Paradox Valley/ Rio Blanco County/ Utah/ Australia/ Front Range/ Igneous-metamorphic/
- Curran, T. F., 1913
ore deposits/ carnotite/ San Miguel County/ history/ Gilpin County/ Wood mine/ Montrose County/ Colorado Plateau/ sandstone/ pitchblende/ Mesa County/ Dolores County/ Routt County/ Rio Blanco County/ Paradox Valley/ Utah/ Australia/ Front Range/ Igneous-metamorphic/
- Curtis, Diane, 1956
bibliography/ annotated/ uranium/ geology/ United States/ Igneous-metamorphic/ Colorado/ Colorado Plateau/ Front Range/
- Dalrymple, J. W., Jr., Young, N. B., and Ulbarri, A., 1957
uranium/ ore deposits/ fracture properties/ fractures/ sandstone/ Bull Canyon district/ Montrose County/ San Miguel County/ Colorado Plateau/
- Dane, C. H., 1935
Morrison Formation/ uranium/ vanadium/ sandstone/ Colorado/ Colorado Plateau/ Utah/ Salt Valley anticline/ salt anticlines/ geology/
- Dare, W. L., 1959
Salt Wash Member/ ore deposits/ production/ methods/ economics/ costs/ Jurassic formations/ Morrison Formation/ Mesa County/ Montrose County/ sandstone/ mining/ Colorado Plateau/
- Dare, W. L., 1959
Montrose County/ Mesa County/ Mineral Joe mine/ G-1 mine/ sandstone/ mining methods/ mining costs/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/
- Dare, W. L., Lindblom, R. A., and Soule, J. H., 1955
Colorado Plateau/ ore deposits/ production/ geology/ mining/ sandstone/ costs/ uranium/
- Dare, W. L., Lindblom, R. A., and Soule, J. H., 1961
Mesa County/ Montrose County/ San Miguel County/ sandstone/ mining methods/ mining costs/ mine maps/ Colorado Plateau/ Veta Mad mine/
- Davidson, C. F., 1951
radioactivity/ distribution/ Colorado Plateau/
- Davidson, C. F., 1955
bituminous substances/ uranium/ concentration/ thucholite/ Colorado Plateau/ Colorado/ sandstone/ carbon compounds/ carbonaceous materials/
- Davidson, D. F., 1963
ore deposits/ oxidized/ sandstone/ composition/

- selenium/ geochemistry/ Baggs area/ uranium/
Moffat County/ Colorado Plateau/
- Davis, W. E., 1951
Colorado Plateau/ Mesa County/ Montrose County/
carnotite/ exploration/ electrical resistivity/
sandstone/ geophysics/ ore deposits/
- Davis, W. E., 1953
Colorado Plateau/ geophysics/ exploration/ Salt
Wash Member/ sandstone/ Gramlich mine/ Spud
Patch area/ La Sal Creek area/ San Miguel County/
Mesa County/ Montrose County/ Colorado/ Utah/
Arizona/ Morrison Formation/
- Davis, W. E., 1953
Colorado Plateau/ geophysics/ exploration/ carnotite/
sandstone/ Morrison Formation/ Salt Wash Member/
drilling/ Mesa County/ San Miguel County/ Montrose
County/
- Davis, W. E., Swartz, J. H., and Shuler, R. M., 1949
Calamity Mesa area/ Outlaw Mesa area/ Sage Flat
area/ Mesa County/ geophysical investigations/
Calamity claims/ carnotite/ sandstone/ ore deposits/
geology/ Morrison Formation/ Salt Wash Member/
geophysics/ Colorado Plateau/
- Davis, W. T., 1956
Colorado Plateau/ ore deposits/ uranium/ vanadium/
drilling/ sandstone/ exploration/ Tenderfoot
Mesa/ Mesa County/
- Del Rio, S. M., compiler, 1960
minerals/ resources/ Colorado/ uranium/ Colorado
Plateau/ San Miguel County/ Montrose County/
Mesa County/ Front Range/ Jefferson County/
Fremont County/ sandstone/ igneous-metamorphic/
Moffat County/
- Dickson, R. E., Blair, R. G., Hart, H. R., and
others, 1955
ore deposits/ exploration/ Bull Canyon/ Montrose
County/ San Miguel County/ drilling/ sandstone/
ore favorability/ Colorado Plateau/
- Dodd, P. H., 1956
Jurassic/ Morrison Formation/ Colorado Plateau/
Wedding Bell mines/ Montrose County/ San Miguel
County/ sandstone/ uranium/ vanadium/
ore controls/ ore deposits/
- Dodd, P. H., 1956
Jurassic/ Morrison Formation/ Colorado Plateau/
ore deposits/ Wedding Bell mines/ Montrose County/
County/ sandstone/ uranium/ vanadium/ ore controls/
San Miguel County/
- Doelling, H. H., 1969
Colorado/ Utah/ ore deposits/ mining/ Montrose
County/ sandstone/ Colorado Plateau/ uranium/
mineral resources/
- Douglas, R. F., 1953
Colorado Plateau/ ore deposits/ reserves/ Club
Mesa/ Montrose County/ sandstone/ Morrison Formation/
Salt Wash Member/ uranium/ vanadium/
- Downs, W. F., and Runnells, D. D., 1975
trace elements/ pyrite/ uranium/ ore deposits/
sandstone/ Colorado Plateau/ Colorado/
- Doyle, J. W., 1975
Garfield County/ Garfield mine/ Rifle mine/
sandstone/ uranium/ vanadium/ Colorado Plateau/
Entrada Sandstone/
- Duncan, D. C., compiler, 1953
ore deposits/ black shale/ Weber Formation/
exploration/ shale/ reconnaissance/ Belden Formation/
Paradox Member/ Eagle County/ Garfield County/
Gunnison County/ Hermosa Formation/ San Juan
County/ La Plata County/ Lake County/ Pony Express
Limestone Member/ Ouray County/ Dakota Sandstone/
Archuleta County/ Pierre Shale/ Las Animas County/
Huerfano County/ Vermejo Formation/ limestone/
sandstone/ Front Range/ Colorado Plateau/
- Dutro, H. B., 1953
Pooch claims/ Rattlesnake claims/ Golden Eagle
claims/ Ute claims/ Colorado Plateau/ reserves/
exploration/ drilling/ sandstone/ ore deposits/
uranium/ vanadium/ Morrison Formation/ Salt
Wash Member/ Gypsum Valley district/ Montrose
County/
- Dutro, H. B., and Bivens, N. W., 1953
Pond claim/ Colorado Plateau/ reserves/ exploration/
drilling/ sandstone/ ore deposits/ uranium/
vanadium/ Morrison Formation/ Salt Wash Member/
Long Ridge group/ Gypsum Valley district/ San
Miguel County/
- Dutro, H. B., and Bivens, N. W., 1953
Paradox Member/ Hermosa Formation/ Colorado
Plateau/ reserves/ exploration/ drilling/ sandstone/
limestone/ ore deposits/ uranium/ vanadium/
Spectacle Point claims/ Gypsum Valley district/
San Miguel County/
- Dwornik, E. J., and Ross, M., 1955
Colorado Plateau/ uranium minerals/ bog iron
deposit/ Summit County/ sandstone/ photomicrographs/
electron microscope/ Montrose County/ Jo Dandy
mine/ Mesa County/ Matchless mine/ Colorado/
Utah/ South Dakota/ sandstone/ mineralogy/
- Dwornik, E. J., and Ross, M., 1955
Colorado Plateau/ minerals/ uranium/ electron
microscope/ photomicrographs/ Montrose County/
Mesa County/ Matchless mine/ Colorado/ Utah/
bog iron deposit/ Summit County/ sandstone/
Jo Dandy mine/ South Dakota/
- Eastman, H. P., 1953
detritus/ river channels/ sphericity/ simulation/
transportation/ Shinarump Member/ sandstone/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ Colorado Plateau/
- Ebbley, Norman, 1949
drilling/ Colorado Plateau/ uranium/ vanadium/
sandstone/ ore deposits/
- Ebbley, Norman, 1950
Colorado Plateau/ mines/ uranium/ Colorado/
Utah/ vanadium/ production problems/ Uravan

- district/ Gateway district/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ sandstone/ Garfield County/ Rifle mine/ Morrison Formation/ Entrada Sandstone/ Dolores County/
- Eckel, E. B., 1961
description/ minerals/ Colorado/ uranium/ vanadium/ thorium/ Colorado Plateau/ Front Range/ sandstone/ Igneous-metamorphic/
- Elcher, L. J., 1953
drilling/ exploration/ ore deposits/ sandstone/ Montrose County/ minerals/ carnotite/ uranium/ vanadium/ Vanadium Co. property/ San Miguel Bench/ Morrison Formation/ Salt Wash Member/ reserves/ Colorado Plateau/
- Elcher, L. J., 1953
exploration/ drilling/ Colorado Plateau/ sandstone/ reserves/ Spring Creek Mesa area/ Montrose County/ Morrison Formation/ Salt Wash Member/ geology/ uranium/ vanadium/ ore deposits/ Uravan district/
- Elcher, L. J., 1955
Mesa County/ Colorado/ Utah/ Gateway district/ Morrison Formation/ Salt Wash Member/ sandstone/ conglomerate/ uranium/ vanadium/ Colorado Plateau/ ore deposits/ Beaver Mesa area/ Brushy Basin Member/
- Elcher, L. J., 1955
Mesa County/ Colorado/ Utah/ Gateway district/ Morrison Formation/ Salt Wash Member/ sandstone/ conglomerate/ uranium/ vanadium/ Colorado Plateau/ ore deposits/ Beaver Mesa area/ Brushy Basin Member/
- Elcher, L. J., 1956
Mesa County/ Colorado/ Utah/ Gateway district/ Ajax mine/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ sandstone/ conglomerate/ La Sal mines/ Pack Rat No. 1 mine/ Lost Indian No. 2 mine/ Lumsden mines/ Colorado Plateau/ ore deposits/ Beaver Mesa area/
- Elcher, L. J., and Bivens, N. W., 1955
Cedar Point mines/ Lumsden #1 and 2 mines/ Pack Rat mine/ Rae Marie mines/ Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Salt Wash Member/ Beaver Mesa area/ Mesa County/ Colorado/ Utah/ Morrison Formation/
- Elcher, L. J., and Miller, G. A., 1956
Mesa County/ Colorado/ Utah/ Gateway district/ uranium/ vanadium/ Morrison Formation/ Brushy Basin Member/ sandstone/ conglomerate/ Lumsden mines/ Colorado Plateau/ ore deposits/ Beaver Mesa area/ Salt Wash Member/
- Elcher, L. J., and Myers, A. R., 1954
Colorado Plateau/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Beaver Mesa area/ Mesa County/ Colorado/ Utah/ Gateway district/
- Elcher, L. J., and Myers, A. R., 1970
maps/ drilling/ exploration/ Beaver Mesa area/
- Mesa County/ Colorado/ Utah/ sandstone/ Colorado Plateau/ Gateway district/ ore deposits/
- Elcher, L. J., Hedlund, D. C., and Miller, G. A., 1957
Beaver Mesa area/ Mesa County/ Colorado/ Utah/ Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ sandstone/ conglomerate/ Ajax mine/ La Sal mines/ Pack Rat No. 1 mine/ Lumsden mines/ map/ geology/ Colorado Plateau/ ore deposits/ Gateway district/
- Elcher, L. J., Hedlund, Donald C., and Miller, G. A., 1956
Mesa County/ Colorado/ Utah/ Gateway district/ Salt Wash Member/ Brushy basin Member/ sandstone/ conglomerate/ Ajax mine/ La Sal mines/ Pack Rat No. 1 mine/ Lost Indian No. 1 mine/ Lumsden mines/ uranium/ vanadium/ geology/ map/ sections/ Colorado Plateau/ ore deposits/ Morrison Formation/
- Ekren, E. B., 1954
Bitter Creek mines/ Colorado Plateau/ reserves/ exploration/ sandstone/ ore deposits/ uranium/ vanadium/ Salt Wash Member/ Long Park area/ Montrose County/ Morrison Formation/
- Ekren, E. B., 1955
Ute Mountains/ ore deposits/ Montezuma County/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1956
Ute Mountains/ ore deposits/ Montezuma County/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1956
Ute Mountains/ ore deposits/ Montezuma County/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1957
Ute Mountains/ Montezuma County/ sandstone/ Salt Wash Member/ Entrada Sandstone/ uranium/ vanadium/ Sentinel Peak NW quadrangle/ geology/ map/ ore deposits/ Morrison Formation/ Colorado Plateau/ Igneous-metamorphic/
- Ekren, E. B., and Houser, F. N., 1957
Ute Mountains/ ore deposits/ Montezuma County/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1957
Ute Mountains/ ore deposits/ Montezuma County/ sandstone/ igneous-metamorphic/ volcanics/ uranium/ vanadium/ Colorado Plateau/
- Ekren, E. B., and Houser, F. N., 1958
Ute Mountains/ ore deposits/ porphyry/ petrology/ sandstone/ volcanics/ igneous-metamorphic/ uranium/ vanadium/ stratigraphy/ conglomerate/ Entrada Sandstone/ Colorado Plateau/ Montezuma County/
- Ekren, E. B., and Houser, F. N., 1958
Ute Mountains/ Montezuma County/ stratigraphy/ structure/ ore deposits/ sandstone/ volcanics/

- uranium/ vanadium/ Colorado Plateau/ geology/
Paradox basin/ igneous-metamorphic/
- Ekren, E. B., and Houser, F. N., 1959
Morrison Formation/ Salt Wash Member/ Montezuma
County/ Ute Mountains/ sandstone/ Colorado Plateau/
uranium/ vanadium/ Sentinel Peak NE quadrangle/
map/ geology/
- Ekren, E. B., and Houser, F. N., 1959
Junction Creek Sandstone/ Morrison Formation/
Entrada Sandstone/ Montezuma County/ Ute Mountains/
sandstone/ Colorado Plateau/ uranium/ vanadium/
Moqui SE quadrangle/ map/ geology/ Salt Wash
Member/
- Ekren, E. B., and Houser, F. N., 1959
Morrison Formation/ Salt Wash Member/ Montezuma
County/ Ute Mountains/ sandstone/ Colorado Plateau/
uranium/ vanadium/ Cortez SW quadrangle/ map/
geology/
- Ekren, E. B., and Houser, F. N., 1959
Ute Mountains/ Montezuma County/ sandstone/
Morrison Formation/ Salt Wash Member/ Entrada
Sandstone/ Colorado Plateau/ igneous-metamorphic/
uranium/ vanadium/ Sentinel Peak NW quadrangle/
map/ geology/
- Ekren, E. B., and Houser, F. N., 1959
stratigraphy/ Cretaceous/ Jurassic/ sandstone/
conglomerate/ Montezuma County/ La Plata County/
Archuleta County/ Colorado Plateau/ San Juan
basin/
- Ekren, E. B., and Houser, F. N., 1965
geology/ petrology/ Ute Mountains/ Montezuma
County/ sandstone/ Colorado Plateau/ Morrison
Formation/ uranium/ vanadium/ economic geology/
Salt Wash Member/ Entrada Sandstone/ ore deposits/
igneous-metamorphic/
- Elston, D. P., and Botinelly, T., 1955
Montrose County/ Jo Dandy area/ mineralogy/
petrology/ geochemistry/ J. J. mine/ genesis/
geology/ uranium/ vanadium/ sandstone/ Morrison
Formation/ Uruvan district/ Colorado Plateau/
stratigraphy/ structure/ ore deposits/ paragenesis/
- Elston, D. P., and Botinelly, T., 1959
geology/ mineralogy/ J. J. mine/ Montrose County/
uranium/ vanadium/ sandstone/ Morrison Formation/
Uruvan district/ Colorado Plateau/ ore deposits/
Jo Dandy area/
- Elston, D. P., and Haynes, D. D., 1955
Colorado Plateau/ exploration/ sandstone/ ore
deposits/ uranium/ vanadium/ Morrison Formation/
Salt Wash Member/ Jo Dandy area/ Montrose County/
Uruvan district/
- Elston, D. P., and Landis, E. R., 1960
sandstone/ unconformities/ Paradox Valley/ Gypsum
Valley/ salt anticlines/ Colorado Plateau/ Mesa
County/ Montrose County/ San Miguel County/
Montezuma County/ La Plata County/ Dolores County/
Hermosa Formation/ stratigraphy/
- Elston, D. P., Flint, A. E., Haynes, D. D., and
others, 1970
maps/ drilling/ exploration/ Jo Dandy area/
Bull Canyon district/ Montrose County/ sandstone/
Colorado Plateau/ ore deposits/ Monogram Mesa
area/
- Emerick, W. L., 1953
uranium/ vanadium/ drilling/ exploration/ Colorado
Plateau/ Lost group area/ Gypsum Valley district/
San Miguel County/ sandstone/ Morrison Formation/
Salt Wash Member/ reserves/ Lost claims/ Rattlesnake
claims/ Blue Raven claims/ ore deposits/
- Emerick, W. L., and Gaultier, J. L., 1953
Colorado Plateau/ reserves/ exploration/ sandstone/
uranium/ vanadium/ Morrison Formation/ Salt
Wash Member/ South Radium group area/ Slick
Rock district/ San Miguel County/ ore deposits/
- Emerick, W. L., and Gaultier, J. L., 1953
Black Belle claim/ Colorado Maiden claim/ Jessie
claim/ Colorado Plateau/ reserves/ exploration/
drilling/ sandstone/ ore deposits/ uranium/
vanadium/ Morrison Formation/ Salt Wash Member/
Upper group area/ Slick Rock district/ San Miguel
County/
- Emerick, W. L., and Gaultier, J. L., 1953
Colorado Plateau/ reserves/ exploration/ drilling/
sandstone/ ore deposits/ uranium/ vanadium/
Salt Wash Member/ Ellison-Burro claims area/
Slick Rock district/ San Miguel County/ Morrison
Formation/
- Emerick, W. L., and Gaultier, J. L., 1953
Georgeto claim/ Veta Glad claim/ Colorado Plateau/
reserves/ exploration/ drilling/ sandstone/
ore deposits/ uranium/ vanadium/ Morrison Formation/
Salt Wash Member/ Georgetown group/ Slick Rock
district/ San Miguel County/
- Emerson, J. F., 1945
uranium/ ore deposits/ vanadium/ geological
surveys/ geography/ mining/ exploration/ tables/
maps/ Dolores Plateau area/ Colorado Plateau/
Montrose County/ County/ San Miguel County/
sandstone/ Bull Canyon district/
- Emerson, J. F., 1975
uranium/ Colorado/ Colorado Plateau/ sandstone/
- Emmons, S. F., 1905
Colorado Plateau/ red beds/ Dolores Formation/
Telluride/ Ouray County/ San Juan County/ copper/
sandstone/ veins/ ore deposits/
- Emmons, W. H., 1906
Cashin mine/ Montrose County/ copper/ production/
veins/ La Plata Sandstone/ sandstone/ Colorado
Plateau/
- Ergun, Sabri, Donaldson, W. F., and Breger, I.
A., 1960
Colorado Plateau/ ore deposits/ mineral assemblages/
coal/ macerals/ vitrain/ physical properties/
chemical properties/ uranium/ organics/ sandstone/

- Evans, H. T., Jr., 1954
crystallography/ uranium/ minerals/ vanadium/ illeblite/ Colorado Plateau/ Peanut mine/ Montrose County/ sandstone/ ore deposits/ Bull Canyon district/
- Evans, H. T., Jr., 1955
crystallography/ uranium/ minerals/ vanadium/ Colorado Plateau/ Peanut mine/ Bull Canyon district/ Montrose County/ sandstone/ ore deposits/
- Evans, H. T., Jr., 1959
Colorado Plateau/ ore deposits/ mineralogy/ vanadium/ Colorado/ uranium/ crystallography/ sandstone/ crystal chemistry/
- Evans, H. T., Jr., and Block, S., 1953
Colorado/ crystal structure/ chemistry/ montroselite/ Colorado Plateau/ vanadium/ diasporite group/ Montrose County/ crystallography/ sandstone/
- Evans, H. T., Jr., and Garrels, R. M., 1957
thermodynamic equilibria/ vanadium/ aqueous systems/ Colorado Plateau/ ore deposits/ paragenesis/ montroselite/ geochemistry/ Colorado/ Utah/ mineralogy/ sandstone/ Montrose County/ J. J. mine/ Peanut mine/ Bull Canyon district/ ground water/
- Evans, H. T., Jr., and Garrels, R. M., 1958
thermodynamic equilibria/ vanadium/ aqueous systems/ Colorado Plateau/ ore deposits/ paragenesis/ montroselite/ geochemistry/ Colorado/ Utah/ mineralogy/ sandstone/ Montrose County/ J. J. mine/ Peanut mine/ Bull Canyon district/ ground water/
- Evans, H. T., Jr., and Morse, M. E., 1958
haggite/ doloresite/ duttonite/ Montrose County/ mineralogy/ chemistry/ Colorado Plateau/ crystal structure/ crystallography/ vanadium oxides/ sandstone/
- Everhart, D. L., 1951
geology/ veins/ ore deposits/ minerals/ sandstone/ igneous-metamorphic/ mudstone/ Colorado Plateau/ phosphates/ pitchblende/ pegmatite/ carnotite/ Morrison Formation/ Entrada Sandstone/ Shinarump Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ asphalt/ limestone/ black shale/ Belgian Congo/ Canadian Shield/
- Everhart, D. L., 1954
Colorado Plateau/ sandstone/ Colorado/ New Mexico/ Utah/ Wyoming/ veins/ igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Jefferson County/ Australia/ South Africa/ Ontario/
- Everhart, D. L., 1956
sandstone/ Colorado Plateau/ Front Range/ Copper King mine/ veins/ Larimer County/ Los Ochos mine/ Saguache County/ Caribou mine/ Boulder County/ Schwartzwalder mine/ Carroll mine/ Placerville district/ San Miguel County/ alteration/ pitchblende/ igneous-metamorphic/ Jefferson County/ Carroll mine/ structural tension/
- Everhart, D. L., 1956
pitchblende/ Colorado Plateau/ igneous-metamorphic/ granite/ Front Range/ Copper King mine/ Larimer County/ alteration/ Los Ochos mine/ Saguache County/ Caribou mine/ Boulder County/ Schwartzwalder mine/ Carroll mine/ Placerville district/ San Miguel County/ alteration/ pitchblende/ igneous-metamorphic/ Jefferson County/ Carroll mine/ structural tension/ United States/ Tertiary/ veins/ alteration/
- Everhart, D. L., and Wright, R. J., 1953
veins/ pitchblende/ geologic features/ sulfides/ Precambrian rocks/ Canadian shield/ Paleozoic/ Tertiary/ paragenesis/ alteration/ sandstone/ Africa/ Idaho/ Front Range/ Gilpin County/ Clear Creek County/ Boulder County/ Utah/ Colorado Plateau/ igneous-metamorphic/
- Farnum, Dwight, 1919
Colorado/ Utah/ Gateway district/ ore deposits/ resources/ carnotite/ uranium/ vanadium/ Mesa County/ sandstone/ Morrison Formation/ Colorado Plateau/
- Fassett, J. E., and Hinds, J. S., 1971
geology/ fuel/ resources/ Fruitland Formation/ San Juan basin/ Montezuma County/ La Plata County/ Archuleta County/ Colorado/ uranium/ sandstone/ New Mexico/ shale/ Colorado Plateau/ Kirtland Shale/
- Finch, W. I., 1951
Mesa County/ carnotite/ uranium production/ sandstone/ Blue Mesa area/ reserves/ resources/ drilling/ core/ Colorado Plateau/ exploration/ ore deposits/
- Finch, W. I., 1951
Mesa County/ Blue Mesa area/ Moon Mesa area/ exploration/ drilling/ core/ carnotite/ uranium/ production/ sandstone/ Colorado Plateau/ drill data/ ore deposits/
- Finch, W. I., 1952
Colorado Plateau/ ore deposits/ geology/ ore guides/ exploration/ drilling/ minerals/ carnotite/ uranium/ production/ Blue Mesa area/ vanadium/ reserves/ resources/ sandstone/ Morrison Formation/ Salt Wash Member/ Mesa County/
- Finch, W. I., 1953
Colorado Plateau/ ore deposits/ resources/ Paleozoic/ Mesozoic/ sandstone/ Morrison Formation/ Chinle Formation/ Shinarump Member/ conglomerate/
- Finch, W. I., 1953
Colorado Plateau/ ore deposits/ resources/ exploration/ Shinarump Member/ conglomerate/ reconnaissance/ sandstone/
- Finch, W. I., 1953
Colorado Plateau/ ore deposits/ resources/ sandstone/
- Finch, W. I., 1953
uranium/ ore deposits/ Shinarump Member/ conglomerate/ Colorado Plateau/ Colorado/ sandstone/
- Finch, W. I., 1953
uranium/ ore deposits/ Shinarump Member/ conglomerate/ Colorado Plateau/ Colorado/ sandstone/

- Finch, W. I., 1953
bituminous substances/ ore deposits/ uranium/
Shinarump member/ conglomerate/ Chinle Formation/
sandstone/ resources/ geology/ Colorado Plateau/
- Finch, W. I., 1954
Colorado Plateau/ sandstone/ ore deposits/ geology/
Chinle Formation/ Shinarump Member/ conglomerate/
reserves/
- Finch, W. I., 1955
Colorado Plateau/ ore deposits/ uranium/ sandstone/
copper/ conglomerate/ ore-bearing formation/
limestone/ vanadium/ Rio Blanco County/ Garfield
County/ Mesa County/ geology/ Delta County/
San Miguel County/ Dolores County/ Rifle mine/
Montezuma County/ La Plata County/ Greysill
mine/ Placerville district/ Uravan district/
Gateway district/ map/ geology/
- Finch, W. I., 1956
Colorado Plateau/ ore deposits/ La Plata County/
production/ Triassic/ Chinle Formation/ shale/
sandstone/ conglomerate/ fossil wood/ minerals/
structures/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ Garfield County/ Rio Blanco County/
geology/
- Finch, W. I., 1956
uranium/ terrestrial sedimentary rocks/ Maroon
Formation/ sandstone/ Sangre de Cristo Formation/
Cucharas district/ Huerfano County/ Park County/
Garco deposit/ vanadium/ carnotite/ tyuyamunite/
- Finch, W. I., 1956
uranium/ terrestrial sedimentary rocks/ Maroon
Formation/ sandstone/ Sangre de Cristo Formation/
Cucharas district/ Huerfano County/ Park County/
Garco deposit/ vanadium/ carnotite/ tyuyamunite/
- Finch, W. I., 1959
Colorado Plateau/ ore deposits/ production/
Triassic/ Chinle Formation/ fossil wood/ minerals/
structures/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ La Plata County/ sandstone/ conglomerate/
shale/ Garfield County/ Rio Blanco County/ geology/
- Finch, W. I., 1967
Colorado Plateau/ Front Range/ Igneous-metamorphic/
geology/ Larimer County/ Jackson County/ Routt
County/ Moffat County/ Garfield County/ Grand
County/ Eagle County/ Boulder County/ Jefferson
County/ Park County/ Mesa County/ Montrose County/
El Paso County/ San Miguel County/ Bent County/
Park County/ Saguache County/ Pueblo County/
Dolores County/ Las Animas County/ Huerfano
County/ Costilla County/ Custer County/ San
Juan County/ La Plata County/ Montezuma County/
- Fischer, R. P., 1936
copper/ vanadium/ uranium/ silver/ ore deposits/
sedimentary deposits/ veins/ hydrothermal/ sandstone/
Igneous-metamorphic/ Entrada Sandstone/ San
Miguel County/ Colorado/ Utah/ Colorado Plateau/
- Fischer, R. P., 1937
copper/ vanadium/ silver/ uranium/ sedimentary
deposits/ Colorado Plateau/ sandstone/ Mesa
County/ Montrose County/ Montezuma County/ Dolores
County/ San Miguel County/
- Fischer, R. P., 1942
vanadium/ production/ sandstone/ Morrison Formation/
Entrada Shinarump Member/ conglomerate/ ore
deposits/ Dolores County/ San Miguel County/
Montrose County/ Colorado/ Utah/ Garfield County/
Colorado Plateau/ Entrada Sandstone/ Mesa County/
- Fischer, R. P., 1943
Colorado/ Utah/ vanadium/ ore deposits/ uranium/
radium/ Morrison Formation/ Entrada Sandstone/
Shinarump Member/ sandstone/ conglomerate/ Mesa
County/ Montrose County/ San Miguel County/
Garfield County/ Dolores County/ Colorado Plateau/
- Fischer, R. P., 1944
vanadium/ Colorado/ Utah/ Colorado Plateau/
uranium/ Entrada Sandstone/ sandstone/ Garfield
County/ San Miguel County/
- Fischer, R. P., 1947
Colorado Plateau/ exploration/ drilling/ sandstone/
carnotite/ recommendations/ Garfield County/
San Miguel County/ Montrose County/ Mesa County/
- Fischer, R. P., 1947
sandstone/ Colorado Plateau/ vanadium/ genesis/
ore deposits/ Garfield County/ San Miguel County/
- Fischer, R. P., 1948
Morrison Formation/ Entrada Sandstone/ Placerville
district/ Colorado Plateau/ production potential/
uranium/ vanadium/ ore deposits/ Colorado/ Utah/
New Mexico/ Arizona/ sandstone/ Uravan district/
Rifle district/ Garfield County/ Dolores County/
San Miguel County/ Montrose County/ Slick Rock
district/
- Fischer, R. P., 1949
Colorado Plateau/ uranium/ vanadium/ ore deposits/
genesis/ structure/ ground water/ sandstone/
Mesa County/ Montrose County/ Dolores County/
San Miguel County/
- Fischer, R. P., 1949
carnotite/ ore deposits/ Federal funding/ sandstone/
Colorado Plateau/ exploration/
- Fischer, R. P., 1950
Colorado Plateau/ ore deposits/ sandstone/ uranium/
Morrison Formation/ Rio Blanco County/ Garfield
County/ Mesa County/ Delta County/ Montrose
County/ Dolores County/ Montezuma County/ La
Plata County/ Archuleta County/ ore guides/
Garfield County/ San Miguel County/
- Fischer, R. P., 1950
Morrison Formation/ Colorado Plateau/ Mesa County/
Dolores County/ Montrose County/ San Miguel
County/ Garfield County/ Rio Blanco County/
sandstone/ ore rolls/ carnotite/ geology/ ore
deposits/ mineralogy/ alteration/ Club mine/
uranium/ radium/ vanadium/ Entrada Sandstone/
genesis/

- Fischer, R. P., 1950
uranium/ vanadium/ potential/ Colorado Plateau/
sandstone/ ore deposits/ reserves/ analyses/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/
- Fischer, R. P., 1951
Colorado Plateau/ Uravan district/ exploration/
drilling/ sandstone/ ore deposits/ Morrison
Formation/ Montrose County/ Mesa County/ Dolores
County/ San Miguel County/
- Fischer, R. P., 1952
reserves/ resources/ Charles T. claims/ uranium/
Club Mesa area/ Maverick claims/ Radlum claims/
Upper group/ Georgetown claims/ vanadium/ Colorado
Plateau/ carnotite/ Morrison Formation/ sandstone/
Dolores County/ San Miguel County/ Mesa County/
Montrose County/
- Fischer, R. P., 1955
Colorado Plateau/ hot springs/ uranium/ vanadium/
geochemistry/ igneous-metamorphic/ sedimentary
rocks/ veins/ sandstone/ ore deposits/ San Miguel
County/ Mesa County/ Montrose County/ Dolores
County/ Garfield County/
- Fischer, R. P., 1955
vanadium/ uranium/ geochemistry/ Colorado Plateau/
igneous-metamorphic/ sedimentary rocks/ veins/
sandstone/ ore deposits/ San Miguel County/
Mesa County/ Montrose County/ Dolores County/
Garfield County/ hot springs/
- Fischer, R. P., 1955
veins/ igneous-metamorphic/ sedimentary rocks/
sandstone/ vanadium/ uranium/ ore deposits/
Colorado Plateau/ geochemistry/ San Miguel County/
Mesa County/ Montrose County/ Dolores County/
Garfield County/ hot springs/
- Fischer, R. P., 1955
Durango district/ Placerville district/ Rico
district/ uranium/ vanadium/ chromium/ Delta
County/ Garfield County/ La Plata County/ Ouray
County/ Rio Blanco County/ San Juan County/
San Miguel County/ minerals/ mariposite/ sandstone/
Entrada Sandstone/ regional relations/ ore deposits/
Colorado Plateau/ Mesa County/ Moffat County/
Montezuma County/ Montrose County/ Rifle area/
Dolores County/
- Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/
genesis/ mineralogy/ Morrison Formation/ Entrada
Sandstone/ sandstone/ Mesa County/ copper/ Montrose
County/ San Miguel County/ Dolores County/ San
Juan County/ Uravan district/
- Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/
genesis/ mineralogy/ Morrison Formation/ Entrada
Sandstone/ sandstone/ Mesa County/ copper/ Montrose
County/ San Miguel County/ Dolores County/ San
Juan County/ Uravan district/
- Fischer, R. P., 1956
ore deposits/ Colorado Plateau/ uranium/ vanadium/
localization/ Entrada Sandstone/ sandstone/
- Rifle district/ Garfield County/ genesis/ San
Miguel County/ La Plata County/ Placerville
district/ Rico district/ Dolores County/
- Fischer, R. P., 1956
vanadium/ uranium/ ore deposits/ Colorado Plateau/
sandstone/ Garfield County/ San Miguel County/
La Plata County/ Rifle district/ Placerville
district/ Rico district/ Durango district/ genesis/
localization/ Dolores County/ Entrada Sandstone/
- Fischer, R. P., 1957
ore deposits/ Colorado Plateau/ uranium/ vanadium/
localization/ genesis/ Rifle Creek area/ Garfield
County/ Entrada Sandstone/ sandstone/ geology/
stratigraphy/ mineralogy/
- Fischer, R. P., 1960
vanadium/ uranium/ mineralogy/ Rifle mine/ Rifle
Creek area/ Garfield County/ ore deposits/ Entrada
Sandstone/ Morrison Formation/ sandstone/ Colorado
Plateau/
- Fischer, R. P., 1962
Colorado/ vanadium/ United States/ sandstone/
Colorado Plateau/ Entrada Sandstone/ Garfield
County/ San Miguel County/
- Fischer, R. P., 1964
Colorado/ vanadium/ sandstone/ Colorado Plateau/
- Fischer, R. P., 1968
Colorado Plateau/ geology/ structure/ ore deposits/
genesis/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/ Dolores County/ Chinle
Formation/ Morrison Formation/ Montezuma County/
La Plata County/ San Juan County/ Garfield County/
Rio Blanco County/ Moffat County/ Entrada Sandstone/
production/ stratigraphy/
- Fischer, R. P., 1968
San Miguel County/ Entrada Formation/ sandstone/
vanadium/ Placerville district/ ore deposits/
guidebook/ Colorado Plateau/
- Fischer, R. P., 1970
Colorado/ Wyoming/ Colorado Plateau/ genesis/
supergene processes/ ore deposits/ sandstone/
configuration/ distribution/ uranium/ Arizona/
mineralogy/ New Mexico/ Utah/ Mesa County/ Montrose
County/ Montezuma County/ Dolores County/ San
Miguel County/ Rio Blanco County/
- Fischer, R. P., 1973
ore guides/ uranium districts/ mineral belts/
exploration/ future/ ore deposits/ Colorado
Plateau/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/
- Fischer, R. P., 1974
exploration/ ore guides/ uranium/ ore deposits/
Colorado Plateau/ Uravan district/ genesis/
sandstone/ Mesa County/ Montrose County/ San
Miguel County/ Dolores County/
- Fischer, R. P., and Blackman, D. H., 1949
Colorado Plateau/ ore guides/ genesis/ Morrison
Formation/ carnotite/ sandstone/ Mesa County/
Montrose County/ Dolores County/ San Miguel

- County/ ore deposits/ Calamity group/ geology/ structure/
- Fischer, R. P., and Blackman, D. H., 1949
Colorado Plateau/ geobotany/ sandstone/ carnotite/ Calamity group/ ore deposits/ geology/ mineralogy/ genesis/ ore guides/ stratigraphy/ ground water/ Morrison Formation/ Mesa County/ Lower group/ San Miguel County/ vanadium/ Club mine/ Montrose County/ Yellow Cat group/ geochemistry/
- Fischer, R. P., and Butler, A. P., Jr., 1947
Colorado Plateau/ exploration/ drilling/ reserves/ resources/ uranium/ vanadium/ sandstone/ ore deposits/ carnotite/ Morrison Formation/ Entrada Sandstone/ Placerville district/ San Miguel County/ Utah/ Arizona/
- Fischer, R. P., and Butler, A. P., Jr., 1947
Colorado Plateau/ exploration/ drilling/ ore deposits/ reserves/ resources/ uranium/ vanadium/ sandstone/ carnotite/ Morrison Formation/ Entrada Sandstone/ Placerville district/ San Miguel County/ Utah/ Arizona/
- Fischer, R. P., and Hilpert, L. S., 1951
Calamity Mesa/ Club Mesa/ Long Park/ Outlaw Mesa/ Mesa County/ Montrose County/ San Miguel County/ ore guides/ production/ Dolores County/ Uravan mineral belt/ sandstone/ ore deposits/ Morrison Formation/ Colorado Plateau/ carnotite/ exploration/ geology/ vanadium/ uranium/ Uravan district/
- Fischer, R. P., and Hilpert, L. S., 1951
Calamity Mesa/ Club Mesa/ Long Park/ Outlaw Mesa/ Mesa County/ Montrose County/ San Miguel County/ ore guides/ production/ Dolores County/ Uravan mineral belt/ sandstone/ Morrison Formation/ Colorado Plateau/ ore deposits/ carnotite/ exploration/ geology/ vanadium/ uranium/ Uravan district/
- Fischer, R. P., and Hilpert, L. S., 1952
Uravan mineral belt/ ore deposits/ carnotite/ Mesa County/ Montrose County/ Outlaw Mesa/ Calamity Mesa/ Club Mesa/ Long Park/ exploration/ geology/ sandstone/ Colorado Plateau/ Morrison Formation/ uranium/ Uravan district/ Dolores County/ San Miguel County/ ore guides/ production/ vanadium/
- Fischer, R. P., and Stewart, J. H., 1960
bed distribution/ lithology/ sandstone/ uranium/ vanadium/ copper/ Colorado/ Morrison Formation/ Colorado Plateau/ ore deposits/ San Miguel County/ Garfield County/ Entrada Sandstone/
- Fischer, R. P., and Stewart, J. H., 1961
copper/ vanadium/ uranium/ ore deposits/ sandstone/ Colorado Plateau/ Entrada Sandstone/ geochemistry/ San Miguel County/ Garfield County/
- Fischer, R. P., Burbank, W. S., Cannon, H. L., and others, 1946
Colorado/ mineral deposits/ map/ Colorado Plateau/ sandstone/ Front Range/ igneous-metamorphic/ ore deposits/
- Fischer, R. P., Haff, J. C., and Rominger, J. R., 1943
vanadium/ uranium/ Placerville district/ San Miguel County/ sandstone/ Entrada Sandstone/ ore deposits/ Colorado Plateau/
- Fischer, R. P., Haff, J. C., and Rominger, J. R., 1947
uranium/ ore deposits/ San Miguel County/ vanadium/ sandstone/ Entrada Sandstone/ Colorado Plateau/ Placerville district/
- Fischer, R. P., Hilpert, L. S., Schumacher, J. I., and others, 1951
Investigations/ carnotite/ ore deposits/ sandstone/ Colorado Plateau/ Morrison Formation/ Chinle Formation/ Entrada Sandstone/ San Miguel County/ Mesa County/ Dolores County/ Garfield County/
- Fischer, R. P., Stokes, W. L., and Smith, L. E., 1944
Rifle mine/ Garfield mine/ uranium/ vanadium/ Garfield County/ Entrada Sandstone/ sandstone/ geology/ Rifle Creek area/ Colorado Plateau/ ore deposits/
- Fischer, R. P., Stokes, W. L., and Smith, L. E., 1945
Garfield County/ vanadium/ Entrada Sandstone/ sandstone/ uranium/ geology/ Rifle Creek area/ Rifle mine/ Garfield mine/ Colorado Plateau/ ore deposits/
- Fix, P. F., 1952
Cimarron Creek/ waters/ stream waters/ Colorado Plateau/ geochemistry/ geologic terrane/ ground water/ nonsaline waters/ Montrose County/ analyses/
- Fix, P. F., 1953
natural waters/ ground water/ streams/ geochemistry/ San Juan County/ Ouray County/ tuffaceous terranes/ Cimarron Creek basin/ Las Animas River basin/ Colorado Plateau/ San Juan Mountains/
- Fix, P. F., 1954
San Miguel River/ Montrose County/ ground water/ nonsaline waters/ analyses/ Big Springs Gulch/ Orvis Hot spring/ streams/ geochemistry/ Mesa County/ San Miguel County/ Ouray County/ Hinsdale County/ Gunnison County/ springs/ Cougar mine spring/ Maverick Mesa spring/ Cimarron Creek/ Blue Creek/ Colorado Plateau/ Calamity Mesa spring/
- Fix, P. F., 1954
Colorado Plateau/ natural waters/ streams/ snow/ ground water/ San Juan Mountains/ San Juan County/ Ouray County/ acid tuff/ igneous-metamorphic/ Front Range/ Colorado Plateau/ surface water/
- Fix, P. F., 1954
natural waters/ hydrogeochemical exploration/ streams/ stream sediments/ ore deposits/ ground water/ mine waters/ Sevier River/ Utah/ Raiston Creek/ Colorado/ Montana/ Schwartzwalder mine/ Front Range/ Colorado Plateau/ Jefferson County/
- Fix, P. F., 1956
hydrogeochemistry/ surface water/ ground water/ uranium/ exploration/ Front Range/ Colorado Plateau/ Central City/ Clear Creek County/

- Fix, P. F., 1956
hydrogeochemistry/ surface water/ ground water/
uranium/ exploration/ Front Range/ Colorado
Plateau/ Central City/ Gilpin County/ Clear
Creek County/
- Fleck, Herman, 1908
rare elements/ vanadium/ uranium/ importance/
Gilpin County/ Front Range/ igneous-metamorphic/
Placerville district/ sandstone/ San Miguel
County/ ore deposits/ Colorado Plateau/
- Fleck, Herman, 1909
Gilpin County/ ore deposits/ pitchblende/ production/
vanadium/ Placerville district/ San Miguel County/
rare metals/ uranium/ Entrada Sandstone/ sandstone/
igneous-metamorphic/ Front Range/ Colorado Plateau/
- Fleck, Herman, 1909
rare metals/ pitchblende/ uranium/ ore deposits/
San Miguel County/ Placerville district/ vanadium/
Entrada Sandstone/ sandstone/ Colorado Plateau/
- Fleck, Herman, 1909
ore deposits/ uranium/ vanadium/ Colorado/ sandstone/
Colorado Plateau/ Front Range/ igneous-metamorphic/
- Fleck, Herman, 1916
ore deposits/ production/ rare metals/ tungsten/
molybdenum/ vanadium/ uranium/ Colorado Plateau/
Placerville district/ San Miguel County/ sandstone/
Front Range/ Gilpin County/ igneous-metamorphic/
- Fleck, Herman, and Haldane, W. G., 1907
uranium/ vanadium/ Colorado Plateau/ San Miguel
County/ Garfield County/ sandstone/ ore deposits/
- Fleck, Herman, and Haldane, W. G., 1908
San Miguel County/ Placerville district/ carnotite/
analyses/ uranium/ vanadium/ radioactivity/
sandstone/ Colorado Plateau/
- Fleck, Herman, and Haldane, W. G., 1909
carnotite/ uranium/ vanadium/ radioactivity/
Dolores County/ Montrose County/ Mesa County/
San Miguel County/ sandstone/ Colorado Plateau/
- Fleck, Herman, and Haldane, W. G., 1909
carnotite/ uranium/ vanadium/ radioactivity/
Dolores County/ Montrose County/ Mesa County/
San Miguel County/ sandstone/ Colorado Plateau/
- Flint, A. E., 1954
Paradox Valley/ Bull Canyon district/ Colorado
Plateau/ Monogram Mesa area/ Montrose County/
reserves/ drilling/ sandstone/ ore deposits/
uranium/ vanadium/ Morrison Formation/ exploration/
Salt Wash Member/
- Flint, A. E., 1955
Montrose County/ Monogram Mesa/ exploration/
drilling/ reserves/ resources/ Mineral Joe mine/
Bull Canyon district/ uranium/ vanadium/ Colorado
Plateau/ sandstone/ ore deposits/ Morrison Formation/
Salt Wash Member/
- Flint, A. E., 1955
Bull Canyon district/ Montrose County/ San Miguel
County/ sandstone/ Morrison Formation/ Salt
Wash Member/ Colorado Plateau/
- Flint, A. E., Wallace, R. M., and Holzle, A. F., 1955
Bull Canyon quadrangle/ Dry Creek Canyon/ Wild
Steer Mesa/ drilling/ exploration/ reserves/
Monogram Mesa area/ Montrose County/ Colorado
Plateau/ sandstone/ ore deposits/ uranium/ vanadium/
Morrison Formation/ Salt Wash Member/
- Foote, R. S., and Page, L. R., 1956
techniques/ exploration/ uranium/ thorium/ geology/
geochemistry/ geophysics/ drilling/ Colorado
Plateau/ sandstone/
- Foshag, W. F., and Hess, F. L., 1927
rossite/ metarossite/ vanadates/ mineralogy/
vanadium/ Colorado Plateau/ sandstone/
- Foster, M. D., 1946
analyses/ vanadium/ chemistry/ mineralogy/ ores/
minerals/ sandstone/ Colorado Plateau/ geochemistry/
- Foster, M. D., 1959
Colorado Plateau/ ore deposits/ mineralogy/
geochemistry/ clay mineralogy/ uranium/ vanadium/
sandstone/ Moffat County/ Rio Blanco County/
Garfield County/ Mesa County/ Delta County/
San Miguel County/ Montrose County/ Dolores
County/ Montezuma County/ La Plata County/ Archuleta
County/
- Four Corners Geological Society, 1952
Colorado/ Arizona/ Utah/ New Mexico/ ore deposits/
geology/ uranium/ sandstone/ Colorado Plateau/
- Four Corners Geological Society, 1960
Colorado Plateau/ Dolores County/ San Miguel
County/ Montrose County/ sandstone/ sediments/
geology/ structures/ Paradox basin/ oil/ gas/
uranium/
- Franklin, J.C., and Marquardt, R. F., 1976
radon/ uranium mining/ environmental radiation/
Colorado Plateau/ data acquisition/ radiation
monitoring/ uranium mines/ Twilight mine/ Montrose
County/ sandstone/
- Franz, G. A., Jr., 1960
Colorado/ minerals/ locations/ Colorado Plateau/
Front Range/
- Franz, G. A., Jr., 1963
Colorado/ minerals/ locations/ Colorado Plateau/
Front Range/
- Franz, G. A., Jr., 1967
Colorado/ minerals/ mining/ Colorado Plateau/
- Franz, G. A., Jr., 1968
Colorado/ minerals/ mining/ Colorado Plateau/
- Freeman, H. D., 1935
uranium/ vanadium/ Triassic/ Jurassic/ sandstone/
Colorado/ Utah/ Colorado Plateau/ ore deposits/
Dolores County/ Montrose County/ San Miguel
County/

- Friedel, Charles, and Cumenge, E., 1899
carnotite/ Colorado/ sandstone/ Colorado Plateau/
minerals/
- Friedel, Charles, and Cumenge, E., 1899
carnotite/ Colorado/ sandstone/ Colorado Plateau/
minerals/
- Friedel, Charles, and Cumenge, E., 1899
carnotite/ Colorado/ sandstone/ Colorado Plateau/
minerals/
- Friedel, Charles, and Cumenge, E., 1899
carnotite/ Colorado/ sandstone/ Colorado Plateau/
minerals/
- Froelich, A. J., 1953
Colorado Plateau/ ore deposits/ exploration/
absorber plants/ geobotanical prospecting/ Shinarump
Member/ conglomerate/ Utah/ Deer Flat/ Elk Ridge/
New Mexico/ sandstone/ geobotany/
- Fussler, K. H., 1916
carnotite/ Colorado/ Colorado Plateau/ sandstone/
trace elements/ actinium/ uranium/
- Gabelman, J. W., 1956
uranium/ ore deposits/ limestone/ Colorado Plateau/
Gypsum Valley area/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/ Wanakah
Formation/
- Gabelman, J. W., 1956
uranium/ ore deposits/ limestone/ Colorado Plateau/
Gypsum Valley area/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/ Wanakah
Formation/
- Gabelman, J. W., 1958
Colorado Plateau/ Uravan district/ mineral belts/
structure/ Montrose County/ San Miguel County/
Dolores County/ sandstone/ alterations/ tectonic
control/
- Gabelman, J. W., and Boyer, W. H., 1958
Colorado/ Arizona/ ore deposits/ mineralization/
feeder structures/ alteration/ mineral zones/
Colorado Plateau/ sandstone/
- Gabelman, J. W., and Boyer, W. H., 1974
exploration/ status/ uranium/ technology/ history/
pitchblende/ radium/ vanadium/ Colorado Plateau/
Front Range/ Montrose County/ Mesa County/ San
Miguel County/ Dolores County/ Moffat County/
Jefferson County/ sandstone/ igneous-metamorphic/
shale/
- Gale, H. S., 1907
Rio Blanco County/ Coal Creek district/ ore
deposits/ carnotite/ areal geology/ coal/ sandstone/
Colorado Plateau/
- Garrels, R. M., 1953
thermodynamics/ vanadium oxides/ uranium/ vanadium/
ore deposits/ Colorado Plateau/ Colorado/ geochemistry/
sandstone/
- Garrels, R. M., 1953
Colorado Plateau/ ore deposits/ carnotite/ genesis/
- Garrels, R. M., 1954
weathering/ transport/ deposition/ Paradox Valley/
Uravan district/ Montrose County/ sandstone/
San Miguel County/ Mesa County/ geology/
- Garrels, R. M., 1954
thermodynamics/ vanadium oxides/ Colorado Plateau/
oxidation state/ genesis/ uranium/ vanadium/
ore deposits/ Colorado/ geochemistry/
- Garrels, R. M., 1954
Colorado Plateau/ oxidation state/ uranium/
vanadium/ ore deposits/ minerals/ sandstone/
thermodynamics/ uranium oxides/ Colorado/
- Garrels, R. M., 1954
thermodynamics/ uranium oxides/ oxidation state/
Colorado Plateau/ Colorado/ geochemistry/ ore
deposits/ vanadium/ uranium/ minerals/ sandstone/
- Garrels, R. M., 1954
weathering/ transportation/ deposition/ Jo Dandy
area/ Colorado Plateau/ Mineral Joe mine/ Montrose
County/ sandstone/ Uravan district/ San Miguel
County/ ore deposits/
- Garrels, R. M., 1954
Colorado Plateau/ weathering/ transportation/
deposition/ Paradox Valley/ Uravan district/
Montrose County/ sandstone/ Jo Dandy group/
Mineral Joe mine/ clays/ Long Park/ San Miguel
County/ ore deposits/
- Garrels, R. M., 1955
Colorado Plateau/ ore deposits/ weathering/
transportation/ deposition/ sandstone/ Mineral
Joe mine/ Jo Dandy area/ Uravan district/ Montrose
County/ geochemistry/ San Miguel County/
- Garrels, R. M., 1955
Colorado Plateau/ ore deposits/ weathering/
sandstone/ genesis/ uranium/ Montrose County/
San Miguel County/
- Garrels, R. M., 1955
Colorado Plateau/ ore deposits/ oxidation state/
uranium oxides/ thermodynamics/ vanadium/ ore
deposits/ minerals/ sandstone/
- Garrels, R. M., 1959
minerals/ oxidation state/ ore deposits/ Colorado
Plateau/ vanadium/ geochemistry/ mineralogy/
uranium/ Mineral Joe No. 1 mine/ Montrose County/
Virgin No. 34 mine/ sandstone/
- Garrels, R. M., and Christ, C. L., 1955
crystal chemistry/ ore deposits/ uranium/ Colorado
Plateau/ crystallography/ oxidation/ sandstone/
- Garrels, R. M., and Christ, C. L., 1955
crystal chemistry/ oxidation/ uranium/ ores
deposits/ Colorado Plateau/ crystallography/
sandstone/
- Garrels, R. M., and Christ, C. L., 1956
Colorado Plateau/ minerals/ uranium/ oxidation/
uraninite/ coffinite/ mineralogy/ crystallography/
sandstone/ ground water/ carnotite/

- Garrels, R. M., and Christ, C. L., 1959
oxidation/ reduction/ ore deposits/ Colorado Plateau/ geochemistry/ uranium/ minerals/ uraninite/ coffinite/ mineralogy/ crystallography/ sandstone/ ground water/ carnotite/
- Garrels, R. M., and Larsen, E. S., 3d, compilers, 1959
Colorado Plateau/ ore deposits/ mineralogy/ geochemistry/ sandstone/ ground water/ clay/ mudstone/ organics/ Peanut mine/ J. J. mine/ Montrose County/ Rifle mine/ Garfield mine/ Moffat County/ Rio Blanco County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ La Plata County/ Montezuma County/ Archuleta County/
- Garrels, R. M., and Pommer, A. M., 1956
Colorado Plateau/ oxidation/ reduction/ ore deposits/ organics/ uraninite/ pyrite/ sandstone/ geochemistry/ San Miguel County/ Garfield County/ Montrose County/ Mesa County/
- Garrels, R. M., and Pommer, A. M., 1959
oxidation/ reduction/ ores/ minerals/ geochemistry/ ore deposits/ mineralogy/ Colorado Plateau/ sandstone/ San Miguel County/ Mesa County/ Montrose County/ Garfield County/
- Garrels, R. M., and Richter, D. H., 1955
thermodynamics/ uranium oxides/ oxidation states/ Colorado Plateau/ ore deposits/ San Miguel County/ genesis/ sandstone/ Montrose County/ Garfield County/ Mesa County/
- Garrels, R. M., and Richter, D. H., 1955
carbon dioxide/ uranium/ ore deposits/ ore-forming fluids/ Colorado Plateau/ sandstone/ geochemistry/
- Garrels, R. M., and Richter, D. H., 1957
Colorado Plateau/ ore deposits/ theoretical studies/ genesis/ chemical properties/ geochemistry/ sandstone/
- Garrels, R. M., Larsen, E. S., 3d, Pommer, A. M., and others, 1957
Mineral Joe No. 1 mine/ mineralogy/ minerals/ oxidation/ ore deposits/ Colorado Plateau/ vanadium/ geochemistry/ uranium/ Montrose County/ sandstone/ Virgin No. 3 mine/ carnotite/ Long Park area/ Jo Dandy area/
- George, D'Arcy, 1949
uranium/ thorium/ mineralogy/ hypogene/ supergene/ rare earth minerals/ chemistry/ pegmatites/ sandstone/ placers/ black shales/ igneous-metamorphic/ Colorado Plateau/ Front Range/
- George, R. D., 1917
minerals/ rocks/ Colorado/ occurrences/ uses/ Colorado Plateau/ sandstone/ igneous-metamorphic/ uranium/ vanadium/ radium/ carnotite/ pitchblende/ Jefferson County/ Gilpin County/ Front Range/ Montrose County/ San Miguel County/ Dolores County/ Garfield County/ Rio Blanco County/ Routt County/ Boulder County/
- George, R. D., Curtis, H. A., Lester, O. C., and others, 1920
Colorado Plateau/ mineralized waters/ springs/ spring deposits/ Front Range/ Jefferson County/ Pitkin County/ Pueblo County/ Garfield County/ Park County/ El Paso County/ Ouray County/ Boulder County/ Gunnison County/ Delta County/ Chaffee County/
- Gilbert, C. C., 1954
resources/ sandstone/ Uravan district/ Morrison Formation/ Mesa County/ Montrose County/ Gateway district/ Gypsum Valley district/ Slick Rock district/ Colorado Plateau/ Salt Wash Member/ Dolores County/ San Miguel County/ Paradox district/
- Gilbert, C. C., 1954
ore deposits/ ore distribution/ Colorado Plateau/ sandstone/ Morrison Formation/ Salt Wash Member/ Bull Canyon district/ Gypsum Valley district/ Slick Rock district/ San Miguel County/ Montrose County/
- Gilbert, G. K., 1875
Colorado Plateau/ sandstone/ geology/
- Gilbert, G. K., 1876
Colorado Plateau/ sandstone/ geology/
- Gill, J. R., 1953
Colorado/ Montana/ Wyoming/ ore deposits/ carbonaceous rocks/ coal/ Park County/ Gunnison County/ Delta County/ Las Animas County/ El Paso County/ Teller County/ La Plata County/ Montezuma County/ Denver Basin/ Larimer County/ shale/ Crested Butte/ Laramie Formation/ Colorado Plateau/ Front Range/
- Girdley, W. A., Flook, J. E., and Harris, R. E., 1975
spectroscopy/ ore deposits/ uranium/ vanadium/ lithology/ mineralogy/ sandstone/ subsurface stratigraphy/ Morrison Formation/ Sage Plain area/ Colorado Plateau/ Utah/ Colorado/ Dolores County/ Montezuma County/ La Plata County/ San Miguel County/
- Goldenstein, S. J., 1957
economic map/ Mount Waas quadrangle/ Utah/ Colorado/ Mesa County/ sandstone/ ore deposits/ resources/ Colorado Plateau/
- Gordon, E. D., Withington, C. F., and Dow, V. T., 1953
sample collectors/ drilling/ cuttings/ Colorado Plateau/ sandstone/ Morrison Formation/ equipment/
- Gott, G. B., and Erickson, R. L., 1951
reconnaissance/ radioactive materials/ sandstone/ copper/ New Mexico/ Colorado/ Utah/ Idaho/ Wyoming/ uranium/ ore deposits/ Cashin mine/ Montrose County/ Colorado Plateau/
- Gott, G. B., and Erickson, R. L., 1952
Colorado Plateau/ New Mexico/ Colorado/ Utah/ Idaho/ Wyoming/ reconnaissance/ Montrose County/ Cashin mine/ sandstone/ ore deposits/ fault breccia/ igneous-metamorphic/ uranium/ copper/ exploration/ bituminous substances/ asphaltite/ Shinarump Member/ Wingate Sandstone/ conglomerate/

- Gott, G. B., and Erickson, R. L., 1952
ore deposits/ exploration/ copper/ New Mexico/ Colorado/ Utah/ Idaho/ Wyoming/ reconnaissance/ bituminous substances/ Cashin mine/ Montrose County/ sandstone/ uranium/ asphaltite/ Shinarump Member/ Wingate Sandstone/ conglomerate/ fault breccia/ Colorado Plateau/
- Granger, H. C., and Warren, C. G., 1969
sulfur compounds/ uranium/ ore deposits/ sandstone/ roll-type ore/ chemistry/ Wyoming/ New Mexico/ genesis/ Colorado Plateau/
- Griffiths, J. C., 1952
sampling/ collection/ Salt Wash Member/ Colorado/ Utah/ Colorado Plateau/ Jurassic/ clays/ Bull Canyon district/ sandstone/ Montrose County/ San Miguel County/ Polar Mesa/ Blue Mesa/ Paradox Valley/ sediments/ Morrison Formation/
- Griffiths, J. C., 1954
Colorado Plateau/ ore deposits/ exploration/ sediments/ sandstone/ mudstone/ Montrose County/ San Miguel County/ Salt Wash Member/ Morrison Formation/ Jurassic/ quantitative analysis/
- Griffiths, J. C., 1954
Morrison Formation/ Salt Wash Member/ sediments/ sandstone/ textures/ grain size/ mudstone/ Jurassic/ Colorado/ Utah/ Colorado Plateau/ Bull Canyon district/ uranium/ vanadium/ Entrada Sandstone/ Arizona/ grain fabric/ Montrose County/ Shinarump Member/ petrography/ San Miguel County/
- Griffiths, J. C., 1957
Salt Wash Member/ sandstone/ mudstone/ Morrison Formation/ Jurassic/ Bull Canyon District/ Monogram Mesa/ San Miguel County/ Colorado/ Utah/ Arizona/ Plateau/ statistics/ petrography/ ore guides/ exploration/ sand grain studies/ ore deposits/ Montrose County/ Colorado Plateau/
- Griffiths, J. C., Cochran, J. A., Groff, D. W., and Kahn, J. S., 1953
lithology/ analyses/ Salt Wash Member/ Jurassic/ sandstone/ mudstone/ cores/ uranium/ vanadium/ ilmonite/ Montrose County/ San Miguel County/ spectrometry/ Bull Canyon district/ Morrison Formation/ Colorado Plateau/
- Griffiths, J. C., Cochran, J. A., Groff, D. W., and Kahn, J. S., 1954
Salt Wash Member/ Morrison Formation/ Jurassic/ sandstone/ mudstone/ Montrose County/ San Miguel County/ thin sections/ Colorado/ Utah/ ilmonite/ Colorado Plateau/ Bull Canyon district/ petrography/
- Griffiths, J. C., Cochran, J. A., Hutta, J. J., and Steinmetz, R., 1956
Salt Wash Member/ sediments/ Morrison Formation/ Jurassic/ grain size/ grain shape/ sandstone/ Utah/ Colorado/ Arizona/ Montrose County/ San Miguel County/ statistics/ grain orientation/ Colorado Plateau/ Bull Canyon district/ quartz/ lithology/
- Griffiths, J. C., Cochran, J. A., Hutta, J. J., and Steinmetz, R., 1956
Salt Wash Member/ Morrison Formation/ Jurassic/ grain size/ grain shape/ sandstone/ Utah/ Colorado/ Arizona/ Montrose County/ San Miguel County/ statistics/ grain orientation/ Colorado Plateau/ Bull Canyon district/ quartz/ lithology/
- Salt Wash Member/ Morrison Formation/ Jurassic/ sandstone/ matrix/ clay/ Colorado Plateau/ Monogram Mesa/ Utah/ Arizona/ Montrose County/ San Miguel County/ petrography/ sediments/ clay pebbles/ grain packing/ statistics/ Bull Canyon district/
- Grimaldi, F. S., and Marsh, C. A., 1947
thorium/ high grade/ low grade/ analyses/ ore deposits/ Colorado Plateau/ sandstone/
- Gruenerwald, William, and Richardson, G. R., 1945
vanadium/ geology/ stratigraphy/ sandstone/ mineralization/ uranium/ ore deposits/ exploration/ Sleepy Cat Mountain/ White River uplift area/ Colorado Plateau/ Rio Blanco County/ carnotite/ Stealey prospect/
- Gruner, J. W., 1951
Shinarump Member/ Morrison Formation/ Colorado Plateau/ conglomerate/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Utah/ pitchblende/ genesis/ Chinle Formation/ ore deposits/
- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ genesis/ shale/ sandstone/ siltstone/ clays/ Morrison Formation/ Colorado/ Utah/ Arizona/ New Mexico/ Moenkopi Formation/ Shinarump Member/ conglomerate/ Mesa County/ Montrose County/ San Miguel County/ asphaltite/ uraninite/ copper/ Chinle Formation/ mineralization/
- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ syngenetic processes/ hydrothermal processes/ ground water/ genesis/ Shinarump Member/ Morrison Formation/ sandstone/ conglomerate/ mudstone/ limestone/ Todilto Limestone/ Mesa County/ Montrose County/ Dolores County/ San Miguel County/ Montezuma County/ Chinle Formation/
- Gruner, J. W., 1953
Colorado Plateau/ ore deposits/ intrusives/ ore sources/ sandstone/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/ extrusives/ Montezuma County/ ground water/ igneous-metamorphic/
- Gruner, J. W., 1954
Colorado Plateau/ ore deposits/ genesis/ mineralogy/ Utah/ Colorado/ sandstone/ siltstone/ conglomerate/ limestone/ uranium/ vanadium/ New Mexico/ geology/ San Miguel County/ Montrose County/ Mesa County/
- Gruner, J. W., 1954
Colorado Plateau/ genesis/ ore deposits/ organic materials/ sandstone/ uranium/ carbon/ San Miguel County/ Montrose County/ Mesa County/
- Gruner, J. W., 1956
uranium concentration/ sediments/ geochemistry/ Colorado Plateau/ sandstone/ Mesa County/ genesis/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ multiple migration-accretion/
- Gruner, J. W., 1956
Colorado Plateau/ ore deposits/ mineral assemblages/

- Utah/ Colorado/ uranium/ sandstone/ continental-type deposits/ Morrison Formation/ San Miguel County/ Montrose County/ Mesa County/
- Gruner, J. W., 1956
uranium concentration/ sediments/ geochemistry/ sandstone/ genesis/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ multiple migration-accretion/ Colorado Plateau/
- Gruner, J. W., 1957
Colorado Plateau/ ore deposits/ genesis/ sedimentary rocks/ sandstone/
- Gruner, J. W., 1958
Colorado Plateau/ sandstone/ ore deposits/
- Gruner, J. W., and Gardiner, L., 1950
ore deposits/ asphalt/ lignite/ geochemistry/ San Miguel County/ sandstone/ Placerville district/ experimental geochemistry/ Colorado Plateau/
- Gruner, J. W., and Gardiner, L., 1952
mineral associations/ Shinarump Member/ Todilto Limestone/ Utah/ New Mexico/ Colorado Plateau/ Salt Wash Member/ Morrison Formation/ Colorado/ Montrose County/ San Miguel County/ Calamity Mesa/ Placerville district/ sandstone/ Chinle Formation/ ore deposits/
- Gruner, J. W., and Knox, J. A., 1957
Colorado/ Arizona/ Montana/ New Mexico/ South Dakota/ minerals/ uranium/ ore deposits/ mines/ San Miguel County/ Colorado Plateau/ Fremont County/ Gunnison County/ Saguache County/ volcanics/ conglomerate/ Morrison Formation/ sandstone/ siltstone/ igneous-metamorphic/ Montrose County/ Mesa County/ Moffat County/ Browns Park Formation/
- Gruner, J. W., and Smith, D. K., Jr., 1954
South Dakota/ Wyoming/ ore deposits/ uranium/ Colorado Plateau/ sandstone/ siltstone/ shale/ coffinite/ uraninite/ organics/ Hopi Buttes/ diatremes/ Arizona/ Colorado/ New Mexico/ Utah/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/
- Gruner, J. W., and Smith, D. K., Jr., 1955
Colorado Plateau/ ore deposits/ mineralization/ Utah/ Arizona/ New Mexico/ Horseshoe diatreme/ sandstone/ limestone/ mineralogy/
- Gruner, J. W., and Smith, D. K., Jr., 1955
Wyoming/ South Dakota/ North Dakota/ Colorado/ sandstone/ Browns Park Formation/ Colorado Plateau/ Morrison Formation/ Chinle Formation/ Mesa County/ San Miguel County/ peat/ lignite/ Moffat County/ Montrose County/
- Gruner, J. W., and Smith, D. K., Jr., 1955
siltstone/ sandstone/ Colorado Plateau/ uranium/ coffinite/ Jurassic/ Larimer County/ Black King mine/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ mineralogy/ Morrison Formation/ Bull Canyon district/ Calamity Mesa/ Paradox Valley/ Salt Wash Member/ Front Range/
- Gruner, J. W., Gardiner, L., and Smith, D. K., Jr., 1953
Colorado Plateau/ Colorado/ Utah/ minerals/ synthetic/ uranium/ vanadium/ chemistry/ experimental/ sandstone/
- Gruner, J. W., Gardiner, L., and Smith, D. K., Jr., 1953
ore deposits/ black shale/ genesis/ carbonaceous materials/ asphaltic materials/ Colorado Plateau/ Colorado/ Utah/ hydrocarbons/ asphaltite/ tucholite/ sandstone/ uranium/ vanadium/ Calamity Mesa/ Mesa County/ Montrose County/
- Gruner, J. W., Gardiner, L., and Smith, D. K., Jr., 1954
Colorado Plateau/ ore deposits/ mineral assemblages/ Calamity Mesa/ Placerville district/ New Mexico/ conglomerate/ Chinle Formation/ Morrison Formation/ sandstone/ limestone/ asphaltite/ tucholite/ Montrose County/ San Miguel County/ Salt Wash Member/ Dolores Formation/ Shinarump Member/ Todilto Limestone/
- Gruner, J. W., Rosenzweig, A., and Smith, D. K., Jr., 1953
clay/ Colorado Plateau/ Chinle Formation/ Dolores County/ San Juan County/ Arizona/ Utah/ New Mexico/ Colorado/ San Juan Mountains/ Entrada Sandstone/ Greysill mine/ sandstone/ San Miguel County/
- Gruner, J. W., Rosenzweig, A., and Smith, D. K., Jr., 1954
Colorado Plateau/ ore deposits/ mineralogy/ uraninite/ coffinite/ vanadium/ uranium/ Colorado/ Utah/ New Mexico/ Todilto Limestone/ limestone/ Morrison Formation/ sandstone/ Entrada Sandstone/ Dolores County/ San Miguel County/ Greysill mine/ Mesa County/ Montrose County/ San Juan County/
- Gruner, J. W., Smith, D. K., Jr., and Knox, J. A., 1956
uranium/ ore deposits/ Colorado/ Wyoming/ South Dakota/ North Dakota/ minerals/ claims/ Moffat County/ sandstone/ Browns Park Formation/ Montana/ Utah/ Colorado Plateau/
- Grutt, E. W., Jr., 1975
statistics/ uranium/ demand/ supply/ exploration/ ore deposits/ veins/ pegmatites/ sandstone/ calccrete/ conglomerate/ Canada/ Australia/ South Africa/ Colorado/ Colorado Plateau/ NURE program/
- Gualtieri, J. L., and Emerick, W. L., 1953
Colorado Plateau/ drilling/ exploration/ ore deposits/ reserves/ Terrible group/ Gypsum Valley district/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ Montrose County/
- Gualtieri, J. L., and Emerick, W. L., 1953
Grass Flats claim/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Hawkeye claim area/ Slick Rock district/ San Miguel County/

- Gulliotte, G. B., 1944
minerals/ hydrocarbons/ Uinta basin/ Colorado/ Utah/ Garfield County/ Rio Blanco County/ uranium/ Colorado Plateau/ reconnaissance/ ore deposits/ sandstone/ Mesa County/ gilsonite/ shale/ Green River Formation/ oil shale/ native asphalt/
- Gulliotte, G. B., 1947
drilling/ well logging/ drill cores/ tables/ data/ ore deposits/ gamma-ray logs/ Slick Rock district/ Colorado Plateau area/ Dolores County/ San Miguel County/ sandstone/ Dolores Plateau/
- Gulliotte, G. B., 1947
drilling/ mineralization/ Mesa County/ sandstone/ radioactivity/ ore deposits/ well logging/ gamma-ray logs/ Calamity district/ Uncompahgre uplift area/ Colorado Plateau/
- Gustafson, J. K., 1949
Colorado Plateau/ uranium/ history/ production/ Colorado/ Utah/ exploration/ sandstone/ San Miguel County/ Montrose County/ Mesa County/
- Gustafson, J. K., 1949
uranium/ resources/ veins/ Gilpin County/ Front Range/ Boulder County/ igneous-metamorphic/ pitchblende/ vanadium/ Morrison Formation/ sandstone/ Montrose County/ Mesa County/ San Miguel County/ Colorado Plateau/
- Hackman, R. J., 1952
Montrose County/ photogeologic map/ Utah/ Colorado/ sandstone/ Morrison Formation/ Salt Wash Member/ carnotite/ Colorado Plateau/ Mount Peale-8 quadrangle/
- Hackman, R. J., 1952
Montrose County/ photogeologic map/ Utah/ carnotite/ Colorado Plateau/ Colorado/ sandstone/ Morrison Formation/ Salt Wash Member/ Mount Peale-1 quadrangle/
- Hackman, R. J., 1952
San Miguel County/ photogeologic map/ Utah/ Colorado/ Morrison Formation/ Salt Wash Member/ sandstone/ carnotite/ Colorado Plateau/ Mount Peale-16 quadrangle/
- Hackman, R. J., 1952
Montezuma County/ photogeologic map/ Aneth-1 quadrangle/ Colorado/ Utah/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ carnotite/ Colorado Plateau/
- Hackman, R. J., 1952
Montezuma County/ photogeologic map/ Verdure-16 quadrangle/ Colorado/ Utah/ sandstone/ carnotite/ Colorado Plateau/
- Hackman, R. J., 1952
Dolores County/ San Miguel County/ photogeologic map/ Verdure-1 quadrangle/ Colorado/ Utah/ sandstone/ Colorado Plateau/ carnotite/
- Hackman, R. J., 1952
Dolores County/ photogeologic map/ Verdure-8 quadrangle/ Colorado/ Utah/ sandstone/ Colorado Plateau/ carnotite/
- Hackman, R. J., 1952
Dolores County/ Montezuma County/ photogeologic map/ Verdure-9 quadrangle/ Colorado/ Utah/ sandstone/ Colorado Plateau/ carnotite/
- Hackman, R. J., 1955
Colorado/ Utah/ sandstone/ Morrison Formation/ Salt Wash Member/ Montezuma County/ photogeologic map/ Aneth-8 quadrangle/ Colorado Plateau/ carnotite/
- Hackman, R. J., 1955
Montezuma County/ photogeologic map/ Aneth-1 quadrangle/ Colorado/ Utah/ sandstone/ Morrison Formation/ Salt Wash Member/ uranium/ Colorado Plateau/ carnotite/
- Hackman, R. J., 1955
Montrose County/ Colorado/ San Miguel County/ sandstone/ photogeologic map/ Mount Peale-9 quadrangle/ Utah/ Morrison Formation/ Salt Wash Member/ carnotite/ Colorado Plateau/
- Hackman, R. J., 1956
Colorado/ Utah/ San Miguel County/ photogeologic map/ Mount Peale-16 quadrangle/ Morrison Formation/ Salt Wash Member/ sandstone/ carnotite/ Colorado Plateau/
- Hackman, R. J., 1956
Colorado/ Utah/ Montrose County/ photogeologic map/ Morrison Formation/ Salt Wash Member/ sandstone/ carnotite/ Colorado Plateau/ Mount Peale-8 quadrangle/
- Hackman, R. J., 1956
Montrose County/ Colorado/ photogeologic map/ Utah/ sandstone/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ carnotite/ Mount Peale-1 quadrangle/
- Hackman, R. J., 1956
Montrose County/ San Miguel County/ Utah/ photogeologic map/ Mount Peale-9 quadrangle/ sandstone/ Morrison Formation/ Salt Wash Member/ carnotite/ Colorado Plateau/
- Hackman, R. J., 1958
Mesa County/ Montrose County/ Delta County/ photogeologic map/ sandstone/ Colorado Plateau/ Escalante Forks quadrangle/
- Hackman, R. J., 1959
Grand County/ photogeologic map/ Coach Creek NE quadrangle/ sandstone/ Colorado Plateau/
- Hackman, R. J., 1959
Grand County/ photogeologic map/ Coach Creek SE quadrangle/ sandstone/ Colorado Plateau/
- Hackman, R. J., 1959
Dolores County/ Montezuma County/ photogeologic map/ Yellow Jacket quadrangle/ sandstone/ Colorado Plateau/
- Hager, Dorsey, 1955
Colorado Plateau/ ore deposits/ exploration/ channels/ sandstone/ uranium/ ore concentration/ San Miguel County/ Montrose County/ Mesa County/

- Hague, R. S., 1956
ore deposits/ stratigraphy/mineralogy/ mineralization/
Bull Canyon area/ Montrose County/ San Miguel
County/ Colorado Plateau/ Uravan district/ Morrison
Formation/ Salt Wash Member/ sandstone/ mudstone/
Brushy Basin Member/ tyuyamunite/ carnotite/
uraninite/ montroseite/
- Hague, R. S., Goldstein, S. J., and Blakey, E., 1958
sandstone/ uranium/ vanadium/ Uravan mineral
belt/ ore deposits/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/ Colorado
Plateau/
- Haji-Vassiliou, Andreas, 1969
Colorado Plateau/ ore deposits/ organic materials/
genesis/ geology/ uranium minerals/ Colorado/
sandstone/
- Haji-Vassiliou, Andreas, 1969
Colorado Plateau/ ore deposits/ organic materials/
genesis/ sandstone/ geology/ uranium minerals/
- Hall, C. R., 1976
alkalic/ igneous rocks/ igneous-metamorphic/
Gilpin County/ Front Range/ bibliography/ San
Juan County/ Custer County/ Fremont County/
La Plata County/ Montezuma County/ Gunnison
County/ Saguache County/ El Paso County/ Rio
Grande County/ Jefferson County/ Larimer County/
Boulder County/ Colorado Plateau/ Clear Creek
County/ Teller County/
- Hampton, O. W., 1955
Colorado Plateau/ ore deposits/ resources/ exploration/
production/ costs/ sandstone/ uranium/ methods/
mining/ San Miguel County/ Montrose County/
Mesa County/
- Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
pegmatites/ geology/ mineralogy/ Chaffee County/
Boulder County/ Clear Creek County/ Douglas
County/ Fremont County/ Gunnison County/ Jefferson
County/ Larimer County/ Montrose County/ Park
County/ Summit County/ monazite/ thorium/ production/
Front Range/ El Paso County/ igneous-metamorphic/
Colorado Plateau/ Wyoming/ Utah/
- Harder, J. O., and Stead, F. W., 1945
Boulder County/ Gilpin County/ Gunnison County/
Mesa County/ Teller County/ ore deposits/ sandstone/
igneous-metamorphic/ reconnaissance/ Front Range/
Colorado Plateau/ Jefferson County/
- Hastings, J. S., 1958
Long Park/ ore deposits/ resources/ geology/
Montrose County/ uranium/ vanadium/ Colorado
Plateau/ sandstone/
- Hastings, J. S., 1963
Uravan mineral belt/ Colorado Plateau/ sandstone/
exploration/ Montrose County/ San Miguel County/
Dolores County/ geology/ mining methods/
- Hathaway, J. C., 1959
Colorado Plateau/ ore deposits/ geochemistry/
mudstone/ clay mineralogy/ mixed-layered structures/
vanadium/ Mineral Joe mine/ Montrose County/
San Miguel County/ sandstone/
- Hawkes, H. E., 1949
Colorado Plateau/ botany/ geobotany/ Garfield
ore zones/ carnotite/ ore deposits/ Charles
T. mine/ geology/ sandstone/ Utah/ selenium/
Rifle mine/ Lower group mines/ Garfield mine/
Mesa County/ Montrose County/ San Miguel County/
Arizona/
- Haynes, D. D., Vogel, J. D., and Wyant, D. G.,
compilers, 1972
Colorado/ Utah/ geology/ structure/ ore deposits/
uranium/ Cortez quadrangle/ map/ host formations/
sandstone/ San Miguel County/ Dolores County/
La Plata County/ Colorado Plateau/ stratigraphy/
Montezuma County/
- Headden, W. P., 1905
Delta County/ spring deposits/ radium/ Doughty
Springs/ Colorado Plateau/
- Headden, W. P., 1905
Delta County/ spring deposits/ radium/ Doughty
Springs/ Colorado Plateau/
- Headden, W. P., 1905
Delta County/ spring deposits/ radium/ alunogen/
Doughty Springs/ Colorado Plateau/
- Headden, W. P., 1909
Delta County/ springs deposits/ Doughty Springs/
radium/ Colorado Plateau/
- Hedge, C. E., Peterman, Z. E., Case, J. E., and
others, 1968
Precambrian rocks/ geochronology/ Uncompahgre
Plateau/ Mesa County/ igneous-metamorphic/ Utah/
Colorado Plateau/
- Henderson, E. P., 1935
stegerrite/ properties/ Gypsum Valley district/
San Miguel County/ Colorado Plateau/ sandstone/
minerals/
- Henderson, E. P., and Hess, F. L., 1933
corvusite/ vanadium/ San Miguel County/ Mesa
County/ Gateway district/ Gypsum Valley district/
Colorado/ Colorado Plateau/ sandstone/ rillandite/
Utah/ carnotite/
- Hendricks, T. A., 1948
Green River Formation/ shale/ oil shale/ radioactivity/
Garfield County/ analyses/ reconnaissance/ Colorado
Plateau/
- Henkes, W. C., Irwin, J. H., and Pratt, W. P., 1976
minerals/ resources/ ore deposits/ Colorado/
New Mexico/ Montezuma County/ sandstone/ Colorado
Plateau/ Ute Mountain Indian Reservation/
- Henning, K. L., 1908
carnotite/ Colorado/ sandstone/ Colorado Plateau/
- Hess, F. L., 1911
Colorado/ vanadium/ uranium/ tungsten/ molybdenum/
bismuth/ tantalum/ sandstone/ ore deposits/
Colorado Plateau/

Hess, F. L., 1911
ore deposits/ Colorado/ vanadium/ sandstone/
Colorado Plateau/ uranium/ tungsten/

Hess, F. L., 1912
Colorado/ vanadium/ uranium/ tungsten/ molybdenum/
bismuth/ sandstone/ Colorado Plateau/ ore deposits/

Hess, F. L., 1912
Colorado/ vanadium/ uranium/ tungsten/ molybdenum/
bismuth/ sandstone/ Colorado Plateau/ ore deposits/

Hess, F. L., 1913
Placerville district/ vanadium/ sandstone/ geology/
San Miguel County/ Entrada Sandstone/ ore deposits/
Colorado Plateau/

Hess, F. L., 1913
Colorado Plateau/ uranium/ vanadium/ sandstone/
ore deposits/

Hess, F. L., 1914
genesis/ carnotite/ Colorado/ uranium/ vanadium/
Rio Blanco County/ Eagle County/ geology/ San
Miguel County/ Montrose County/ Moffat County/
Routt County/ Garfield County/ Mesa County/
Delta County/ Dolores County/ Montezuma County/
La Plata County/ Archuleta County/ Utah/ Colorado
Plateau/ sandstone/ ore deposits/

Hess, F. L., 1922
Colorado Plateau/ ore deposits/ resources/ radium/
uranium/ vanadium/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ sandstone/

Hess, F. L., 1925
carnotite/ vanoxite/ vanadium/ mineralogy/ sandstone/
Rio Blanco County/ Garfield County/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ La Plata County/ Colorado
Plateau/ ore deposits/ Delta County/

Hess, F. L., 1925
Colorado/ Colorado Plateau/ uranium/ vanadium/
sandstone/ radium/ San Miguel County/ Montrose
County/ Mesa County/ ore deposits/ resources/

Hess, F. L., 1927
Colorado/ Colorado Plateau/ uranium/ vanadium/
radium/ sandstone/ ore deposits/ resources/
San Miguel County/ Montrose County/ Mesa County/

Hess, F. L., 1929
Colorado/ Colorado Plateau/ uranium/ vanadium/
radium/ sandstone/ ore deposits/ resources/
San Miguel County/ Montrose County/ Mesa County/

Hess, F. L., 1932
Colorado/ Colorado Plateau/ vanadium/ sandstone/
ore deposits/ San Miguel County/ Montrose County/
Mesa County/

Hess, F. L., 1933
bituminous substances/ uranium/ vanadium/ radium/
gold/ silver/ molybdenum/ sediments/ Colorado
Plateau/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/

Heyl, A. V., 1954
Montrose County/ mineralogy/ petrology/ geochemistry/
zoning/ montroselite/ Bitter Creek mines/ corvusite/
pascolite/ rautite/ uraninite/ Uravan district/
asphaltite/ hydrocarbons/ pyrobitumen/ uranium/
thucholite/ sandstone/ Morrison Formation/ Salt
Wash Member/ vanadium/ Colorado Plateau/ ore
deposits/

Heyl, A. V., 1956
Uravan district/ Bitter Creek mine/ ore deposits/
zoning/ Morrison Formation/ sandstone/ Montrose
County/ Colorado Plateau/ uranium/ geology/
vanadium/ mineralogy/ petrology/ geochemistry/
rautite/ uraninite/ thucholite/ Salt Wash Member/
corvusite/ montroselite/ pascolite/

High, T. D., 1970
uranium/ vanadium/ mines/ sandstone/ reports/
Dolores County/ Gunnison County/ Little Indian
property/ Mesa County/ Montrose County/ San
Miguel County/ Igneous-metamorphic/ Colorado
Plateau/

High, T. D., 1971
uranium/ vanadium/ mines/ sandstone/ Dolores
County/ Montrose County/ Saguache County/ Pitch
mine/ igneous-metamorphic/ San Miguel County/
Colorado Plateau/ Mesa County/

High, T. D., 1972
uranium/ vanadium/ mines/ reports/ sandstone/
Montrose County/ San Miguel County/ Mesa County/
Saguache County/ Igneous-metamorphic/ Pitch
mine/ Colorado Plateau/ Dolores County/

High, T. D., 1973
Dolores County/ uranium/ vanadium/ sandstone/
mines/ reports/ Mesa County/ Montrose County/
San Miguel County/ Colorado Plateau/

High, T. D., 1974
uranium/ vanadium/ Dolores County/ Mesa County/
reports/ Montrose County/ San Miguel County/
sandstone/ mines/ Colorado Plateau/

High, T. D., 1975
uranium/ vanadium/ mapping/ geological studies/
drilling/ Dolores County/ Mesa County/ sandstone/
Colorado Plateau/ Montrose County/ San Miguel
County/ Rico-Argentine district/

Hill, J. W., 1945
uranium/ reserves/ ore deposits/ exploration/
geology/ Coal Creek anticline/ White River uplift/
Colorado Plateau/ sandstone/ Urlo mine/ Riland
N mine/ Riland S mine/ Hess mine/ Quin Burrell
prospect/ Uranium Peak prospect/ Rio Blanco
County/

Hillebrand, W. F., 1900
vanadium/ analyses/ molybdenum/ ore deposits/
Colorado Plateau/ sandstone/

Hillebrand, W. F., 1900
vanadium/ molybdenum/ analyses/ Colorado Plateau/
sandstone/

- Hillebrand, W. F., 1924
Colorado/ Utah/ ore deposits/ minerals/ carnotite/
tyuyamunite/ sandstone/ analyses/ Colorado Plateau/
- Hillebrand, W. F., and Ransome, F. L., 1900
carnotite/ vanadium/ minerals/ sandstone/ ore
deposits/ Colorado Plateau/ Montrose County/
San Miguel County/ analyses/
- Hillebrand, W. F., and Ransome, F. L., 1905
San Miguel County/ Montrose County/ Mesa County/
carnotite/ mineralogy/ vanadium/ sandstone/
Placerville district/ analyses/ Roc Creek area/
La Sal Creek area/ ore deposits/ Colorado Plateau/
- Hillebrand, W. F., Merwin, H. E., and Wright, F.
E., 1914
San Miguel County/ Montrose County/ Mesa County/
carnotite/ mineralogy/ vanadium/ sandstone/
Placerville district/ analyses/ Roc Creek area/
La Sal Creek area/ ore deposits/ hewettite/
metahewettite/ pascolite/ Colorado Plateau/ hydrous
calcium vanadates/
- Hillebrand, W. F., Merwin, H. E., and Wright, F.
E., 1915
Paradox Valley/ Colorado Plateau/ minerals/
sandstone/ San Miguel County/ hydrous calcium
vanadates/ hewettite/ metahewettite/ pascolite/
vanadium/
- Hillebrand, W. F., Wright, F. E., and Merwin, H.
E., 1913
calcium vanadates/ vanadium/ Peru/ Colorado/
Utah/ Montrose County/ San Miguel County/ sandstone/
Colorado Plateau/ minerals/ Mesa County/
- Hilpert, L. S., 1949
San Miguel County/ exploration/ drilling/ reserves/
Ellison claims/ Upper group claims and mines/
sandstone/ ore deposits/ Colorado Plateau/ Burro
claims/ uranium/ vanadium/ Morrison Formation/
Slick Rock district/ Salt Wash Member/
- Hilpert, L. S., 1952
Colorado Plateau/ exploration/ Spud Patch area/
sandstone/ Morrison Formation/ Salt Wash Member/
ore deposit/ reserves/ drilling/ uranium/ vanadium/
San Miguel County/
- Hilpert, L. S., 1953
Colorado Plateau/ sandstone/ exploration/ Mesa
County/ Montrose County/ San Miguel County/
Dolores County/ ore deposits/ drilling/ Morrison
Formation/ Uruvan district/ Yellow Cat mine/
Monogram Mesa/ Gateway district/
- Hilpert, L. S., and Boardman, R. L., 1953
Colorado Plateau/ sandstone/ Colorado/ Utah/
Mesa County/ San Miguel County/ Dolores County/
drilling/ exploration/ ore deposits/ Morrison
Formation/ Salt Wash Member/ Uruvan district/
Gateway district/ Gypsum Valley district/ Montrose
County/
- Hilpert, L. S., and Fischer, R. P., 1949
Mesa County/ uranium/ vanadium/ minerals/ carnotite/
drilling/ exploration/ ore deposits/ Outlaw
- Mesa/ sandstone/ Gateway district/ Colorado
Plateau/ analyses/
- Holland, H. D., and others, 1958
uranium/ leachable ores/ Utah/ ore deposits/
Colorado Plateau/ sandstone/
- Holmes, C. N., 1949
geology/ carnotite/ ore deposits/ Colorado Plateau/
sandstone/ San Miguel County/ Montrose County/
Mesa County/
- Holmes, C. N., 1950
sandstone/ Uncompahgre uplift/ tectonics/ sedimentary
rocks/ Mesozoic/ Chinle Formation/ Pitkin County/
Gunnison County/ Montrose County/ Mesa County/
Delta County/ Dolores County/ Dolores Formation/
Montezuma County/ Entrada Sandstone/ stratigraphy/
Morrison Formation/ Colorado Plateau/
- Holmes, C. N., 1960
Colorado/ Colorado Plateau/ sandstone/ Jurassic
history/ stratigraphy/ paleogeography/ paleogeology/
Morrison Formation/
- Holmes, C. N., 1960
Jurassic history/ stratigraphy/ Colorado/ Colorado
Plateau/ sandstone/ geology/ Morrison Formation/
- Holmes, R. U., and Harrer, C. M., 1952
Mesa County/ Montrose County/ copper/ sandstone/
Colorado Copper Company/ Colorado Plateau/
- Holmes, W. H., 1878
Dolores County/ San Miguel County/ La Plata
County/ San Miguel Mountains/ geology/ Colorado
Plateau/ Igneous-metamorphic/ sandstone/ Sierra
Abajo Mountains/
- Hoover, W. B., 1950
Glen Canyon Formation/ San Raphael Formation/
correlation/ sandstone/ La Plata County/ Jurassic
Formations/ stratigraphy/ Utah/ Colorado/ Arizona/
New Mexico/ San Juan basin/ Archuleta County/
Montezuma County/ sandstone/ Colorado Plateau/
Morrison Formation/
- Houser, F. N., and Ekren, E. B., 1959
Montezuma County/ Colorado Plateau/ Moqui SW
quadrangle/ Ute Mountains/ Morrison Formation/
sandstone/ uranium/ vanadium/ map/ geology/
Salt Wash Member/
- Houser, F. N., and Ekren, E. B., 1959
Ute Mountains/ Montezuma County/ Dolores County/
sandstone/ Cretaceous strata/ Colorado Plateau/
Dakota Sandstone/
- Houston, R. S., and Murphy, J. F., 1977
Colorado Plateau/ Montezuma County/ San Juan
basin/ sandstone/ Cretaceous/ black sandstones/
stratigraphy/ structure/ mineralogy/ placer
deposits/ heavy minerals/ monazite/ zircon/
ilmenite/ depositional environment/
- Huff, L. C., 1954
Sage Plain area/ Utah/ Colorado/ Colorado Plateau/
mapping/ uranium/ vanadium/ Morrison Formation/

- Salt Wash Member/ sandstone/ Dolores County/
San Miguel County/ ore deposits/
- Huff, L. C., 1955
Colorado/ Utah/ ore deposits/ Colorado Plateau/
Dolores County/ San Miguel County/ stratigraphy/
Salt Wash Member/ sandstone/ uranium/ vanadium/
Sage Plain area/ Morrison Formation/
- Huff, L. C., and Lesure, F. G., 1956
Sage Plain area/ Utah/ Colorado/ Colorado Plateau/
uranium/ vanadium/ Dolores County/ San Miguel
County/ Morrison Formation/ sandstone/ Salt
Wash Member/ geochemistry/ Middle Montezuma
group/ Coyote No. 1 mine/ Verdure mine/ Strawberry
mine/ Rainbow mine/ ore deposits/ geophysical
logs/ Lucky Boy mine/
- Huff, L. C., and Lesure, F. G., 1956
Colorado/ Colorado Plateau/ uranium/ vanadium/
Dolores County/ San Miguel County/ Morrison
Formation/ sandstone/ mines/ Salt Wash Member/
peat/ Sage Plain area/ Utah/ ore deposits/
- Huff, L. C., and Lesure, F. G., 1957
Colorado/ Utah/ Colorado Plateau/ uranium/ vanadium/
Dolores County/ San Miguel County/ Salt Wash
Member/ sandstone/ stratigraphy/ mapping/ structure/
ore deposits/ geochemistry/ mines/ Sage Plain
area/ Morrison Formation/
- Huffman, Claude, Jr., and Riley, L. B., 1956
plants/ ash/ uranium/ analyses/ fluorimetry/
geobotany/ Colorado Plateau/ sandstone/
- Huleatt, W. P., Hazen, S. W., Jr., and Traver,
W. M., Jr., 1946
exploration/ vanadium/ Colorado/ Utah/ Colorado
Plateau/ sandstone/ San Miguel County/ Montrose
County/ Mesa County/ Dolores County/
- Hunt, C. B., 1956
Cenozoic/ geology/ Colorado Plateau/ physiography/
stratigraphy/ Moffat County/ sandstone/ Delta
County/ Rio Blanco County/ Garfield County/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Archuleta County/
- Hunt, C. B., 1958
structural geology/ igneous geology/ La Sal
Mountains/ Utah/ stratigraphy/ genesis/ economic
geology/ Mesa County/ Montrose County/ Colorado/
Igneous-metamorphic/ Colorado Plateau/
- Hurley, D. B., and Crew, M. E., 1953
drilling/ Colorado Plateau/ sandstone/ San Miguel
County/ drilling trends/ ore deposits/ reserves/
Montrose County/ Mesa County/
- Isachsen, Y. W., 1955
Skull Creek district/ Uranium Peak district/
ore deposits/ Garfield County/ sandstone/ Rio
Blanco County/ Moffat County/ guidebook/ Colorado
Plateau/
- Isachsen, Y. W., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/
- Holiday Mesa/ Happy Jack mine/ Calyx mines/
Delta mine/ Cameron district/ copper/ vanadium/
sandstone/ geology/ ore deposits/ Montrose County/
San Miguel County/ Dolores County/ Big Indian
Wash - Lisbon Valley district/ Mesa County/
stratigraphy/ structure/
- Isachsen, Y. W., 1956
Colorado Plateau/ tectonics/ ore deposits/ sandstone/
genesis/
- Isachsen, Y. W., 1956
Colorado Plateau/ ore deposits/ genesis/ tectonics/
sandstone/
- Isachsen, Y. W., and Evensen, C. G., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/
Holiday Mesa/ Happy Jack mine/ Calyx mines/
Delta mine/ Cameron district/ copper/ vanadium/
Big Indian Wash - Lisbon Valley district/ sandstone/
geology/ ore deposits/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ stratigraphy/ structure/
- Isachsen, Y. W., Mitcham, T. W., and Wright, R.
J., 1954
uranium/ ore deposits/ exploration/ drilling/
Colorado Plateau/ sandstone/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/
- Isachsen, Y. W., Mitcham, T. W., and Wright, R.
J., 1955
Colorado Plateau/ ore deposits/ absolute age/
host rocks/ sandstone/ formational environments/
Entrada Sandstone/ Kayenta Formation/ Garfield
County/ Moffat County/ Rio Blanco County/ San
Miguel County/ Mesa County/ Montrose County/
Delta County/ Dolores County/ Montezuma County/
La Plata County/ Archuleta County/
- Ives, R. L., 1936
sandstone/ radium/ mining/ ore deposits/ San
Miguel County/ Colorado Plateau/ history/ Utah/
carnotite/ Montrose County/ Dolores County/
Mesa County/ Montezuma County/ uranium/ McElmo
Formation/
- Izett, G. A., Denson, N. M., and Obradovich, J.
D., 1970
Browns Park Formation/ sandstone/ Moffat County/
volcanic rocks/ igneous-metamorphic/ K-Ar age
dating/ stratigraphy/ Colorado Plateau/
- Jensen, M. L., 1957
Colorado Plateau/ ore deposits/ mineralization/
sulfides/ uranium/ sandstone/ sulfur isotopes/
sulfur ratios/ genesis/ San Miguel County/ Montrose
County/ Mesa County/
- Jensen, M. L., 1958
Colorado Plateau/ Wyoming/ ore deposits/ genesis/
geochemistry/ sulfur isotopes/ sandstone/ uranium/
Montrose County/ San Miguel County/ Garfield
County/ Morrison Formation/ Entrada Sandstone/
- Jensen, M. L., 1971
carbon/ oxygen/ sulfur/ isotopes/ genesis/ sandstone/
uranium/ ore deposits/ Colorado Plateau/ Wyoming/

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COLORADO PLATEAU

- San Miguel County/ Montrose County/ Garfield County/ Mesa County/
- Jobin, D. A., 1952
U.S. Vanadium Co. property/ sandstone/ Colorado Plateau/ reserves/ ore deposits/ Dolores Bench/ Montrose County/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Jobin, D. A., 1952
U.S. Vanadium Co. property/ Colorado Plateau/ sandstone/ ore deposits/ reserves/ Dolores Bench/ Montrose County/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Jobin, D. A., 1952
Vanadium Corp. of America property/ Colorado Plateau/ ore deposits/ sandstone/ reserves/ Dolores Bench/ King Solomon claim/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/ Montrose County/
- Jobin, D. A., 1953
Colorado Plateau/ exploration/ Dolores Bench/ ore deposits/ Montrose County/ sandstone/ geology/ reserves/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ Uravan district/
- Jobin, D. A., 1953
ground water/ Colorado Plateau/ sandstone/
- Jobin, D. A., 1953
ground water/ Colorado Plateau/ sandstone/
- Jobin, D. A., 1954
ground water/ Colorado Plateau/ sandstone/
- Jobin, D. A., 1954
ground water/ Colorado Plateau/ sandstone/
- Jobin, D. A., 1955
ground water/ Colorado Plateau/ sandstone/
- Jobin, D. A., 1955
ground water/ Colorado Plateau/ sandstone/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ regional transmissivity/ Delta County/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Montrose County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/
- Jobin, D. A., 1962
Colorado Plateau/ ore deposits/ Morrison Formation/ transmissivity/ sandstone/ San Miguel County/ ground water/ conglomerate/ Chinle Formation/ Moffat County/ Rio Blanco County/ Garfield County/
- Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/
- Jobin, D. A., and Schessler, T. E., 1953
Colorado Plateau/ ore deposits/ sandstone/ reserves/ exploration/ Atkinson Mesa/ Montrose County/ geology/ drilling/ uranium/ vanadium/ Morrison Formation/ Uravan district/ Salt Wash Member/
- Joesting, H. R., 1950
Colorado Plateau/ geophysics/ exploration/ sandstone/
- Joesting, H. R., 1953
geophysics/ regional studies/ Colorado Plateau/ gravity studies/ aeromagnetism/ sandstone/
- Joesting, H. R., 1954
geophysics/ regional studies/ Colorado Plateau/ gravity studies/ aeromagnetism/ sandstone/
- Joesting, H. R., 1957
Colorado Plateau/ geophysics/ sandstone/
- Joesting, H. R., 1957
Colorado Plateau/ geophysics/ sandstone/
- Joesting, H. R., and Byerly, P. E., 1953
Gateway district/ Sleeping Ute Mountain/ Uravan district/ geophysics/ Colorado Plateau/ San Miguel County/ Montrose County/ Mesa County/ Montezuma County/ Dolores County/ sandstone/ Slick Rock district/ vanadium/ uranium/ Egnar district/ ore deposits/
- Joesting, H. R., and Byerly, P. E., 1954
aeromagnetism/ gravity surveys/ Colorado Plateau/ sandstone/ geophysics/ ore deposits/
- Joesting, H. R., and Byerly, P. E., 1956
Disappointment Valley/ Gypsum Valley/ Nucla district/ Paradox district/ Uncompahgre Plateau/ Mesa County/ San Miguel County/ Uravan district/ ore deposits/ salt anticlines/ Disappointment syncline/ geophysics/ sandstone/ Colorado Plateau/ geology/ Dolores County/ Montrose County/
- Joesting, H. R., and Byerly, P. E., 1956
aeromagnetism/ gravity profiles/ sandstone/ Colorado Plateau/ Colorado/ Utah/ Mesa County/ Montrose County/ Dolores County/ Uravan district/ geology/ ore deposits/ geophysics/ San Miguel County/
- Joesting, H. R., and Byerly, P. E., 1958
Disappointment Valley/ Disappointment syncline/ Nucla district/ Paradox district/ Uncompahgre Plateau/ Mesa County/ Montrose County/ San Miguel County/ geophysics/ salt anticlines/ map/ ore deposits/ sandstone/ Gypsum Valley district/ Uravan district/ geology/ Dolores County/ Colorado Plateau/
- Joesting, H. R., and Case, J. E., 1959
geophysics/ aeromagnetism/ gravity surveys/ Colorado Plateau/ sandstone/

- Joesting, H. R., and Case, J. E., 1960
salt anticlines/ structures/ Paradox basin/
Colorado/ Utah/ ore deposits/ sandstone/ Hermosa
Formation/ Paradox Member/ Montrose County/
Mesa County/ San Miguel County/ structural geology/
Colorado Plateau/
- Joesting, H. R., and Case, J. E., 1962
geophysics/ Salt Valley area/ Cisco area/ Utah/
Colorado/ sandstone/ Mesa County/ Colorado Plateau/
- Joesting, H. R., Byerly, P. E., and Plouff, D.
F., 1955
geophysics/ Colorado Plateau/ sandstone/ ore
deposits/
- Joesting, H. R., Byerly, P. E., and Plouff, D.
F., 1955
geophysics/ Colorado Plateau/ gravity/ ore deposits/
aeromagnetism/ sandstone/
- Joesting, H. R., Byerly, P. E., and Plouff, D.
F., 1956
geophysics/ Colorado Plateau/ sandstone/ ore
deposits/
- Joesting, H. R., Byerly, P. E., and Plouff, D.
F., 1956
geophysics/ Colorado Plateau/ sandstone/ ore
deposits/
- Joesting, H. R., Byerly, P. E., and Case, J. E., 1957
geophysics/ Colorado Plateau/ gravity surveys/
aeromagnetism/ sandstone/ ore deposits/
- Joesting, H. R., Byerly, P. E., and Case, J. E., 1958
geophysics/ Colorado Plateau/ gravity/ aeromagnetism/
sandstone/ ore deposits/
- Joesting, H. R., Byerly, P. E., Plouff, D. E., and
others, 1959
gravity/ aeromagnetism/ geophysics/ Colorado
Plateau/ sandstone/ ore deposits/
- Joesting, H. R., Case, J. E., and Plouff, D. F., 1966
Moab area/ Needles area/ Utah/ sandstone/ Mesa
County/ Montrose County/ geophysics/ stratigraphy/
geology/ magnetic survey/ gravity survey/ structural
geology/ San Miguel County/ Dolores County/
Colorado Plateau/
- Johnson, H. S., Jr., 1954
Colorado Plateau/ ore deposits/ resources/ exploration/
sandstone/
- Joubin, F. R., 1955
Triassic sediments/ Jurassic sediments/ Colorado
Plateau/ sandstone/ thucholite/ carbon/ ore
deposits/
- Kahn, J. S., Groff, D. W., and Griffiths, J. C., 1953
lithology/ cores/ Colorado Plateau/ Morrison
Formation/ petrography/ Salt Wash Member/ sediments/
sandstone/ structure/ Mesa County/ Montrose
County/ San Miguel County/ shale/ siltstone/
Bull Canyon district/
- Kaiser, E. P., and Page, L. R., 1952
ore deposits/ Colorado/ uranium/ United States/
sandstone/ Front Range/ igneous-metamorphic/
Colorado Plateau/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and
others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/
Archuleta County/ Routt County/ Eagle County/
Pitkin County/ Gunnison County/ San Juan County/
Fremont County/ Huerfano County/ Ouray County/
Colorado Plateau/ ore deposits/ Moffat County/
Garfield County/ Mesa County/ Delta County/
Montrose County/ San Miguel County/ Dolores
County/ Montezuma County/ La Plata County/ Larimer
County/ Boulder County/ Jefferson County/ Park
County/ Rio Blanco County/ igneous-metamorphic/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and
others, 1952
Front Range/ Jamestown district/ pitchblende/
bostonite/ Colorado Plateau/ sandstone/ coal/
shale/ Moffat County/ Garfield County/ La Plata
County/ Pitkin County/ Gunnison County/ San
Juan County/ Boulder County/ Jefferson County/
Park County/ Delta County/ Fremont County/ Rio
Blanco County/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Montezuma
County/ Archuleta County/ Routt County/ Huerfano
County/ Ouray County/ Larimer County/ Eagle
County/ igneous-metamorphic/
- Kammer, G. D., 1925
carnotite/ sandstone/ ionium/ thorium/ Colorado
Plateau/ Colorado/ barium sulfate/ trace elements/
geochemistry/
- Keeney, R. M., 1919
ore deposits/ resources/ production/ uranium/
sandstone/ Colorado/ Colorado Plateau/
- Keith, S. B., 1945
ore deposits/ uranium/ geography/ mining/ exploration/
maps/ tonnage/ grade/ Lightner Creek district/
San Juan basin/ Colorado Plateau/ production/
sandstone/ La Plata County/
- Keller, G. V., 1953
Colorado Plateau/ electric well logs/ Morrison
Formation/ Spud Patch area/ Montrose County/
San Miguel County/ geophysics/ petrophysical
studies/ sandstone/
- Keller, G. V., 1957
sandstone/ Morrison Formation/ electrical properties/
logging/ geophysics/ Colorado Plateau/ Spud
Patch area/ uranium/ vanadium/ ore deposits/
San Miguel County/ Montrose County/ Gramlich
claims/ La Sal Creek area/ Utah/ Uravan district/
Long Park district/
- Keller, G. V., 1958
resistivity/ geophysics/ exploration/ ore deposits/
Spud Patch area/ San Miguel County/ sandstone/
Morrison Formation/ uranium/ vanadium/ Utah/
White Canyon district/ Colorado Plateau/
- Keller, G. V., 1959
electrical properties/ sandstone/ Morrison Formation/
geophysics/ resistivity/ porosity/ Dolores County/

- Mesa County/ Montrose County/ San Miguel County/
Uravan district/ exploration/ Colorado Plateau/
- Keller, G. V., 1959
Colorado/ Utah/ ore deposits/ exploration/ resistivity/
Colorado Plateau/ Spud Patch area/ San Miguel
County/ sandstone/ Morrison Formation/ geophysics/
- Keller, G. V., and Licastro, P. H., 1959
dielectric constant/ electrical resistivity/
sandstone/ Mesa County/ Montrose County/ San
Miguel County/ Miguel County/ Dolores County/
cores/ Colorado Plateau/ Morrison Formation/
- Keller, W. D., 1953
Colorado Plateau/ ore deposits/ mudstone/ clay
mineralogy/ uranium/ vanadium/ Morrison Formation/
San Miguel County/ Chinle Formation/ Montrose
County/ Mesa County/ Dolores County/ sandstone/
clay minerals/
- Keller, W. D., 1953
clay minerals/ Morrison Formation/ kaolinite/
illite/ depositional environments/ Colorado
Plateau/ sandstone/ type section/ geochemistry/
analyses/ Jefferson County/ Front Range/
- Keller, W. D., 1954
Colorado Plateau/ clay minerals/ mudstone/ sandstone/
mineralogy/
- Keller, W. D., 1955
Colorado Plateau/ clay minerals/ mudstone/ Long
Park area/ Slick Rock district/ Uravan district/
Club mines/ mudstone/ ore deposits/ Utah/ uranium/
vanadium/ mineralogy/ Dolores County/ San Miguel
County/ Montrose County/ sandstone/
- Keller, W. D., 1956
clay studies/ Jurassic rocks/ mineralogy/ sandstone/
Montrose County/ glauconitic mica/ geochemistry/
Colorado Plateau/ Uravan district/ Morrison
Formation/
- Keller, W. D., 1956
clay studies/ Colorado Plateau/ Jurassic rocks/
mudstone/ analyses/ Montrose County/ Gunnison
County/ San Miguel County/ Sapinero/ Slick Rock
district/ sandstone/ Uravan district/ Morrison
Formation/
- Keller, W. D., 1957
glauconite/ mica/ Morrison Formation/ Lone Tree
Mesa/ Montrose County/ analyses/ sandstone/
Colorado Plateau/
- Keller, W. D., 1957
clay/ Jurassic rocks/ Morrison Formation/ sandstone/
mineralogy/ mudstone/ Colorado Plateau/ Montrose
County/
- Keller, W. D., 1962
clay minerals/ Morrison Formation/ Colorado
Plateau/ Salt Wash Member/ mineralogy/ Mesa
County/ Moffat County/ Rio Blanco County/ Garfield
County/ Delta County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ La
Plata County/ Archuleta County/ sandstone/
- Keller, W. D., and Schultz, L. G., 1955
clay/ mineralogy/ Colorado Plateau/ sandstone/
mudstone/
- Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/
tectonics/ structural elements/ Archuleta County/
Mesa County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
Delta County/ Ouray County/ Gunnison County/
Garfield County/ Rio Blanco County/ Moffat County/
- Kelley, V. C., 1955
sandstone/ Colorado Plateau/ ore deposits/ genesis/
tectonics/ structural elements/ Mesa County/
San Miguel County/ Dolores County/ Montezuma
County/ La Plata County/ Delta County/ Garfield
County/ Rio Blanco County/ Moffat County/ Archuleta
County/ Ouray County/ Gunnison County/ Montrose
County/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Delta
County/ uranium/ tectonic history/ regional
structure/ Colorado/ sandstone/ Montezuma County/
San Miguel County/ Dolores County/ Montrose
County/ Mesa County/ Ouray County/ San Juan
County/ Gunnison County/ La Plata County/ Garfield
County/ Rio Blanco County/ Delta County/ structural
controls/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa
County/ structural controls/ uranium/ tectonic
history/ Colorado/ sandstone/ Montezuma County/
San Miguel County/ Dolores County/ Montrose
County/ Moffat County/ San Juan County/ Ouray
County/ Gunnison County/ La Plata County/ Garfield
County/ Rio Blanco County/ Delta County/ regional
structure/
- Kelley, V. C., 1959
structures/ fracture systems/ Colorado Plateau/
faults/ fractures/ Mesa County/ Montrose County/
San Miguel County/ sandstone/ Montezuma County/
Moffat County/ San Juan County/ Ouray County/
Delta County/ Gunnison County/ Garfield County/
La Plata County/ Rio Blanco County/
- Kelley, V. C., 1959
jointing/ Colorado Plateau/ sandstone/ structures/
Montezuma County/ Dolores County/ Montrose County/
Mesa County/ Delta County/ Garfield County/
Rio Blanco County/ Moffat County/ San Miguel
County/
- Kelley, V. C., and Clinton, N. J., 1960
Colorado Plateau/ sandstone/ fractures/ tectonics/
genesis/ structures/ Montezuma County/ Dolores
County/ Montrose County/ Mesa County/ Delta
County/ Garfield County/ Rio Blanco County/
Moffat County/ San Miguel County/
- Kellogg, J. P., 1952
Colorado Plateau/ ore deposits/ exploration/
drilling/ Utah/ Colorado/ Arizona/ New Mexico/
uranium/ Morrison Formation/ Entrada Sandstone/
sandstone/ Mesa County/ Montrose County/ San

- Miguel County/ Dolores County/ Montezuma County/
Salt Wash Member/ Tenderfoot Mesa/
- Kellogg, J. P., 1954
drilling/ statistics/ Colorado Plateau/ Mesa
County/ San Miguel County/ Montezuma County/
Dolores County/ sandstone/ exploration/
- Kellogg, J. P., 1955
cost review/ exploration/ Colorado Plateau/
drilling/ statistics/ Mesa County/ drilling
rates/ Utah/ sandstone/ Montrose County/
- Kelly, S. F., 1941
resources/ exploration/ geophysics/ ore deposits/
Montrose County/ sandstone/ vanadium/ uranium/
Colorado Plateau/ geology/
- Kelly, S. F., 1953
uranium/ vanadium/ geophysics/ exploration/
geology/ Colorado Plateau/ sandstone/ ore deposits/
Montrose County/
- Kerr, G. D., Abdullah, S. A., Auxler, J. A., and
others, 1974
air/ alpha sources/ ore deposits/ building materials/
Colorado/ concretes/ daughter products/ radiation
monitoring/ radioactivity/ radon/ uranium/ Mesa
County/ sandstone/ Colorado Plateau/
- Kerr, P. F., 1936
Colorado Plateau/ uranium/ minerals/ ore deposits/
sandstone/
- Kerr, P. F., 1956
veins/ alteration/ exploration/ uranium/ geology/
Jamestown district/ Colorado Plateau/ Colorado/
sandstone/ Front Range/ Igneous-metamorphic/
fluorite/ Boulder County/
- Kerr, P. F., 1956
uranium/ thorium/ veins/ sediments/ Front Range/
ore deposits/ sandstone/ fluorite/ geology/
Colorado Plateau/ Igneous-metamorphic/
- Kerr, P. F., 1956
veins/ alteration/ exploration/ uranium/ geology/
Colorado Plateau/ Colorado/ sandstone/ Jamestown
district/ Front Range/ Igneous-metamorphic/
fluorite/ Boulder County/
- Kerr, P. F., 1958
uranium/ ore deposits/ genesis/ alteration/
mineralogy/ Colorado Plateau/ Archuleta County/
conglomerate/ sandstone/ Moffat County/ Rio
Blanco County/ Garfield County/ Mesa County/
Delta County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ La Plata County/
- Kerr, P. F., 1958
Colorado Plateau/ ore deposits/ genesis/ sandstone/
stratigraphy/ uranium/ Moffat County/ Rio Blanco
County/ Garfield County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
Montezuma County/ La Plata County/ Archuleta
County/ hydrothermal emplacement/ Dolores County/
- Kerr, P. F., and Jacobs, M. B., 1964
Colorado Plateau/ ore deposits/ mineralization/
alteration/ argillization/ clay/ genesis/ sandstone/
uranium/ siltstone/ Igneous-metamorphic/
- Kerr, P. F., Rasor, C. A., and Hamilton, Peggy-Kay,
1951
Black King prospect/ ore deposits/ San Miguel
County/ veins/ bituminous substances/ sandstone/
Entrada Sandstone/ genesis/ mineralogy/ Colorado
Plateau/ Placerville district/
- Kim, Y. C., and Knudsen, H. P., 1977
geostatistics/ reserves/ ore deposits/ roll
front/ sandstone/ Colorado/ Colorado Plateau/
- Kimball, Gordon, 1904
carnotite/ sandstone/ Colorado Plateau/
- Kirkemo, Harold, 1954
Colorado Plateau/ sandstone/ exploration/ drilling/
Mesa County/ Montrose County/ San Miguel County/
Uravan district/ ore deposits/ Morrison Formation/
Colorado/ Utah/ Arizona/ Long Park district/
Dolores County/ Yellow Cat mine/ Slick Rock
district/
- Kirkemo, Harold, 1954
ore deposits/ Morrison Formation/ Salt Wash
Member/ Colorado Plateau/ exploration/ sandstone/
Monogram Mesa/ Uravan district/ Jo Dandy area/
Mesa County/ Montrose County/ San Miguel County/
Garfield County/ Entrada Sandstone/ Moffat County/
Browns Park Formation/ Slick Rock district/
Long Park district/
- Kirkpatrick, R. K., 1944
uranium/ exploration/ mineralization/ lithology/
Clamity Mesa area/ Uncompahgre uplift area/
sandstone/ stratigraphy/ Mesa County/ ore deposits/
geology/ Colorado Plateau/
- Kirkpatrick, R. K., 1944
Utah/ Colorado/ ore deposits/ vanadium ores/
exploration/ mineralization/ lithology/ sampling/
analyses/ uranium/ geochemistry/Monticello district/
Dry Valley district/ Green River Desert area/
Colorado Plateau/ sandstone/ San Miguel County/
- Kirkpatrick, R. K., 1945
stratigraphy/ mineralization/ exploration/ lithology/
Slick Rock district/ Dolores Plateau area/ Colorado
Plateau/ San Miguel County/ sandstone/ mine
maps/ ore deposits/ Veta-Mad claim/ Georgetown
group/ Mercantile group/ Radium group/ Lower
group/ Upper group/ Goldenrod group/ Charles
T. group/ Middle group/
- Kirkpatrick, R. K., 1946
geology/ stratigraphy/ vanadium/ geologic deposits/
reserves/ uranium/ exploration/ mineralization/
Gypsum Valley district/ Colorado Plateau/ San
Miguel County/ sandstone/ Dolores Plateau area/
- Kithil, K. L., and Davis, J. A., 1917
ore deposits/ carnotite/ resources/ Colorado
Plateau/ production/ mining/ sandstone/ radium/
Montrose County/ San Miguel County/ Long Park
district/

- Klaer, P., and Matthee, H., 1965
Colorado/ Utah/ Big Indian district/ mining/
geology/ technology/ ore deposits/ Colorado
Plateau/ sandstone/ San Miguel County/
- Kleinhampl, F. J., and Koteff, Carl, 1955
Meeker area/ Rio Blanco County/ exploration/
Colorado Plateau/ sandstone/ geobotany/
- Kleinhampl, F. J., and Koteff, Carl, 1956
Rio Blanco County/ Colorado Plateau/ sandstone/
geobotany/ exploration/
- Kleinhampl, F. J., and Narten, P. F., 1954
Colorado Plateau/ ore deposits/ exploration/
Indicator plants/ geobotany/ geology/ sandstone/
- Kleinhampl, F. J., and Narten, P. F., 1955
Colorado Plateau/ exploration/ geobotany/ sandstone/
geology/ ore deposits/
- Klepper, M. R., and Wyant, D. G., 1956
uranium/ United States/ Colorado/ geochemistry/
genesis/ exploration/ provinces/ ore deposits/
veins/ sandstone/ Igneous-metamorphic/ Colorado
Plateau/ Front Range/
- Klepper, M. R., and Wyant, D. G., 1956
uranium/ provinces/ United States/ Colorado/
ore deposits/ geochemistry/ genesis/ exploration/
veins/ sandstone/ Igneous-metamorphic/ Colorado
Plateau/ Front Range/
- Kline, M. A., Jr., 1954
Gateway district/ Colorado Plateau/ uranium/
vanadium/ Mesa County/ Morrison Formation/ carnotite/
stratigraphy/ structure/ ore deposits/ sandstone/
economics/ development/ marketing/
- Knepper, D. H., ed., 1973
ERTS/ geology/ minerals/ water/ resources/ sandstone/
Colorado Plateau/
- Kober, C. L., and Procter-Gregg, H. D., 1977
uranium/ alteration zones/ LANDSAT MSS imagery/
Jefferson County/ Boulder County/ Mesa County/
Montrose County/ San Miguel County/ Colorado
Plateau/ Douglas County/ sandstone/ Front Range/
Igneous-metamorphic/
- Koerberlin, F. R., 1938
copper/ vanadium/ uranium/ silver/ Colorado/
Utah/ genesis/ ore deposits/ discussion/ Montrose
County/ Colorado Plateau/ Mesa County/ Montezuma
County/ San Miguel County/ Dolores County/ sandstone/
- Kruslewski, S. V., 1970
uranium/ bibliography/ geology/ geochemistry/
radioactivity/ mineralogy/ ore deposits/ Colorado
Plateau/ Front Range/ sandstone/ Igneous-metamorphic/
- Kunkle, G., 1923
vanadium/ sandstone/ Garfield County/ Entrada
Sandstone/ Colorado Plateau/ ore deposits/ Rifle
district/
- La Point, D. J., and Markos, G., 1977
geochemistry/ ore deposits/ zonation/ Rifle
mine/ vanadium/ Garfield County/ sandstone/
Colorado Plateau/ geology/ Entrada Sandstone/
- Langan, L. V., and Ash, H. O., 1955
Colorado Plateau/ ore deposits/ uranium/ field
trip/ New Mexico/ Utah/ Colorado/ stratigraphy/
Morrison Formation/ sandstone/ Entrada Sandstone/
Dolores County/ Montezuma County/ Montrose County/
San Miguel County/
- Langford, F. F., 1974
uranium/ Australia/ supergene/ genesis/ Front
Range/ veins/ calcrete/ carnotite/ ore deposits/
igneous-metamorphic/ sandstone/ Colorado Plateau/
Jefferson County/ Montrose County/ San Miguel
County/
- Langford, F. F., 1977
genesis/ surficial origin/ pitchblende/ ore
deposits/ uranium/ igneous-metamorphic/ surface
waters/ sandstone/ Colorado Plateau/ Front Range/
Jefferson County/ Montrose County/ San Miguel
County/
- Larsen, E. S., and Cross, C. W., 1956
geology/ petrology/ San Juan region/ Colorado
Plateau/ igneous-metamorphic/ Montrose County/
Ouray County/ San Miguel County/ Dolores County/
La Plata County/ Gunnison County/ Hinsdale County/
Archuleta County/ Mineral County/ Saguache County/
Conejos County/ Alamosa County/ San Juan County/
Montezuma County/ Rio Grande County/
- Lavery, R. A., and Gross, E. B., 1956
Colorado Plateau/ ore deposits/ genesis/ paragenesis/
uranium/ Meeker/ Rio Blanco County/ sandstone/
- Lavery, R. A., and Gross, E. B., 1956
paragenesis/ uranium/ ore deposits/ Colorado
Plateau/ Meeker/ Rio Blanco County/ sandstone/
genesis/
- Leaming, G. F., 1971
economic development/ Arizona/ economic analysis/
New Mexico/ Utah/ Colorado/ economic conditions/
minerals/ mining/ fuels/ industries/ iron/ uranium/
silver/ copper/ titanium/ coal/ natural gas/
oil shale/ sandstone/ ore deposits/ Colorado
Plateau/ Montezuma County/ Dolores County/ San
Miguel County/ Montrose County/
- Lee, H. A., 1901
ore deposits/ uranium/ Colorado/ Colorado Plateau/
sandstone/ Front Range/ igneous-metamorphic/
- Lee, H. A., 1901
Colorado/ mining/ Colorado Plateau/ sandstone/
Front Range/ igneous-metamorphic/
- Lindberg, M., Weeks, A. D., Thompson, M. E., and
others, 1962
hendersonite/ vanadium/ Colorado Plateau/ vanadates/
Paradox Valley/ Montrose County/ Morrison Formation/
sandstone/ San Miguel County/ Dolores County/
Montezuma County/ crystallography/ geochemistry/
- Lindgren, Waldemar, 1933
copper/ lead/ vanadium/ uranium/ sandstone/
shale/ carnotite/ roscoelite/ Colorado Plateau/

- Dolores County/ San Miguel County/ Mesa County/ Montrose County/ Entrada Sandstone/ La Plata Sandstone/ McEimo Formation/ genesis/ Gilpin County/ Igneous-metamorphic/ ore deposits/ Front Range/
- Litsey, L. R., 1955
Montrose County/ Long Park area/ exploration/ drilling/ uranium/ reserves/ resources/ sandstone/ Morrison Formation/ vanadium/ Colorado Plateau/
- Livingston, C. W., 1945
vanadium/ Dolores Plateau area/ geography/ mining/ exploration/ mineralization/ West Paradox district/ Colorado Plateau/ sandstone/ Montrose County/ Gramlich group/ Vanadium Queen claim/ Little Peter claim/ New Yellow Spot claim/ Radium Cycle claim/ Valley View claim/ Waggoner group/ ore deposits/
- Lockner, A. O., 1960
Colorado/ molybdenum/ uranium/ vanadium/ mining/ taxation/ Colorado Plateau/ sandstone/
- Lockner, A. O., 1960
Colorado/ molybdenum/ uranium/ vanadium/ mining/ taxation/ Colorado Plateau/ sandstone/
- Look, Al, 1955
Colorado Plateau/ ore deposits/ popular and elementary geology/ sandstone/ uranium/
- Lowell, J. D., 1953
Colorado Plateau/ uranium/ exploration/ cross stratification/ Morrison Formation/ sandstone/ Arizona/ New Mexico/ mud-pellets/ conglomerate/ Salt Wash Member/ Calamity Mesa/ Mesa County/ Colorado/ Utah/ ore deposits/ Chuska Mountains/
- Ludwig, K. R., 1975
uranium/ lead/ isotopes/ dating/ ore deposits/ Colorado Plateau/ sandstone/
- Luedke, R. G., and Shoemaker, E. M., 1953
Colorado Plateau/ tectonic map/ structural geology/ geology/ sandstone/
- Madsen, J. W., 1953
Colorado Plateau/ ore deposits/ reserves/ sandstone/ drilling/ exploration/ Rambler group/ Montrose County/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/ Gypsum Valley district/
- Madsen, J. W., 1954
Paradox Member/ Hermosa Formation/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ limestone/ ore deposits/ uranium/ vanadium/ Pitchfork group of claims/ Gypsum Valley district/ San Miguel County/
- Maise, C. R., 1953
Colorado Plateau/ ore deposits/ genesis/ ground water/ mineralization/ sandstone/ Jurassic/ syncline/ aquifers/ experimental simulation/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/
- Malan, R. C., 1968
Colorado/ ore deposits/ genesis/ La Plata County/ San Juan County/ New Mexico/ metallogenesis/ San Miguel County/ structures/ Colorado Plateau/ San Juan-San Miguel-La Plata region/ veins/ Igneous-metamorphic/
- Malan, R. C., and Sterling, D. A., 1969
ore deposits/ Precambrian rocks/ Colorado Plateau/ Nevada/ California/ New Mexico/ Arizona/ uranium/ geology/ thorium/ Colorado/ Igneous-metamorphic/ resources/ Front Range/ Igneous-metamorphic/ resources/ Front Range/hic/ resources/
- Manger, G. E., 1953
drilling/ coring/ original state core studies/ Montrose County/ Uravan district/ sandstone/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/ geology/
- Manger, G. E., 1953
drilling/ coring/ original state core studies/ Morrison Formation/ Salt Wash Member/ sandstone/ Colorado Plateau/ Montrose County/ geology/
- Manger, G. E., 1954
Uravan district/ ore deposits/ cores/ exploration/ Long Park district/ Montrose County/ sandstone/ carnotite/ spring water/ Henry Clay mine/ Colorado Plateau/ Morrison Formation/ original state core studies/
- Manger, G. E., 1954
Long Park district/ sandstone/ carnotite/ coring/ original state core studies/ drilling/ Montrose County/ Morrison Formation/ Salt Wash Member/ Colorado Plateau/
- Manger, G. E., 1955
cores/ drilling/ original state core studies/ Bitter Creek mines/ Montrose County/ sandstone/ Colorado Plateau/ Long Park district/
- Manger, G. E., 1955
Utah/ Colorado/ sandstone/ Montrose County/ cores/ drilling/ exploration/ Lisbon Valley/ Colorado Plateau/
- Manger, G. E., and Gates, G. L., 1953
Colorado Plateau/ sandstone/ cores/ original state core studies/ Montrose County/
- Manger, G. E., Gates, G. L., and Cadigan, R. A., 1955
Colorado Plateau/ cores/ uranium/ sandstone/ original state core studies/ Montrose County/ ore deposits/
- Manger, G. E., Gates, G. L., and Cadigan, R. A., 1957
Colorado/ Utah/ ore deposits/ mineralization/ chemical properties/ Montrose County/ cores/ drilling/ sandstone/ Morrison Formation/ Colorado Plateau/ physical properties/ Salt Wash Member/
- Manger, G. E., Gates, G. L., and Cadigan, R. A., 1975
chemical properties/ drill cores/ physical properties/ exploration/ uranium/ ore deposits/ Long Park district/ Montrose County/ sandstone/ drilling/ host rocks/ Colorado Plateau/

- Marshall, C. H., 1959
Montrose County/ Delta County/ photogeologic map/ Delta quadrangle/ sandstone/ Colorado Plateau/
- Marshall, C. H., 1959
Ouray County/ Montrose County/ photogeologic map/ Norwood-1 quadrangle/ sandstone/ Colorado Plateau/
- Marvin, R. G., 1953
Colorado/ stratigraphy/ Jurassic/ sandstone/ Colorado Plateau/
- Mastrovich, A. M., 1945
vanadium/ uranium/ lithology/ stratigraphy/ geology/ exploration/ sandstone/ carbonaceous materials/ mineralization/ ore deposits/ San Miguel River district/ San Miguel Plateau area/ Colorado Plateau/ San Miguel County/ Montrose County/ Entrada Sandstone/
- Mauger, R. L., 1967
Utah/ Colorado Plateau/ Isotopes/ age dating/ ore deposits/ minerals/ Lisbon Valley/ sandstone/ Montrose County/
- McCann, D. W., and Freeman, R. W., 1976
ground water/ surface water/ United States/ uranium/ chemical analyses/ Colorado/ Front Range/ Jefferson County/ Chaffee County/ Fremont County/ Gunnison County/ Huerfano County/ Saguache County/ Park County/ Colorado Plateau/
- McDougald, W. D., 1954
stratigraphy/ radioactivity/ radiation detectors/ geology/ radiation monitoring/ Paleocene/ Ohio conglomerate/ Eocene/ DeBeque area/ Mesa County/ Garfield County/ Colorado Plateau/ sandstone/
- McDougald, W. D., 1955
Skull Creek district/ ore deposits/ exploration/ sandstone/ Moffat County/ drilling/ Colorado Plateau/
- McKay, E. J., 1951
Colorado Plateau/ ore deposits/ Mesa County/ Montrose County/ Uravan district/ Gateway district/ ore guides/ exploration/ sandstone/ Morrison Formation/ Salt Wash Member/ carnotite/
- McKay, E. J., 1953
Carpenter Ridge/ Carpenter Flats/ Martin Mesa/ Uravan district/ Montrose County/ Red Canyon quadrangle/ carnotite/ Dolores mines/ Raven mine/ Shamrock mine/ sandstone/ Morrison Formation/ Salt Wash Member/ stratigraphy/ Brushy Basin Member/ Mesa County/ Colorado Plateau/ ore deposits/ geology/
- McKay, E. J., 1953
Blue Mesa/ Uravan district/ Mesa County/ Montrose County/ sandstone/ Morrison Formation/ Salt Wash Member/ Utah/ stratigraphy/ Colorado Plateau/ carnotite/ Gateway district/ ore deposits/ exploration/ geology/ genesis/ localization/ ore guides/
- McKay, E. J., 1953
Uravan district/ Montrose County/ ore guides/ carnotite/ Star No. 1 claim/ Wright mines/ theories of origin/ sandstone/ Morrison Formation/ Salt Wash Member/ stratigraphy/ Brushy Basin Member/ Burro Canyon Formation/ geology/ Colorado Plateau/ ore deposits/ Wingate Sandstone/ Mesa County/ Atkinson Creek quadrangle/
- McKay, E. J., 1954
Montrose County/ Mesa County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ Dolores mines/ Shamrock mines/ Raven claim/ Martin Mesa/ Carpenter Flats/ carnotite/ geology/ ore deposits/ Red Canyon quadrangle/
- McKay, E. J., 1955
Montrose County/ Mesa County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ Dolores mines/ Shamrock mines/ Raven claim/ Martin Mesa/ Carpenter Flats/ carnotite/ geology/ ore deposits/ Red Canyon quadrangle/
- McKay, E. J., 1955
Montrose County/ Mesa County/ Atkinson Creek quadrangle/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ Wright mines/ Star No. 1 claim/ geology/ ore deposits/
- McKay, E. J., 1955
Colorado/ Utah/ Gateway district/ ore deposits/ exploration/ Jurassic/ Morrison Formation/ Uravan district/ Salt Wash Member/ sandstone/ Mesa County/ Montrose County/ Colorado Plateau/ geology/
- McKay, E. J., and Bergin, M. J., 1974
Moffat County/ Maybell quadrangle/ Browns Park Formation/ sandstone/ Marge mine/ geology/ Colorado Plateau/ ore deposits/
- McKay, E. J., and Jobin, D. A., 1954
Montrose County/ Mesa County/ Atkinson Creek quadrangle/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ sandstone/ Wright mines/ Star No. 1 claim/ geology/ ore deposits/
- McKelvey, V. E., 1953
Colorado Plateau/ Dolores County/ Mesa County/ exploration/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Glipin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ phosphates/ shale/ placers/
- McKelvey, V. E., 1953
veins/ Dolores County/ Mesa County/ exploration/ sandstone/ igneous-metamorphic/ Front Range/ pegmatites/ geobotany/ Glipin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ Colorado Plateau/ phosphates/ shale/ placers/
- McKelvey, V. E., 1954
Dolores County/ Mesa County/ exploration/ carnotite/ veins/ sandstone/ igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Glipin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ veins/ Colorado Plateau/ phosphates/ shale/ placers/

- McKelvey, V. E., 1955
ore deposits/ exploration/ veins/ bituminous substances/ coal/ sandstone/ phosphates/ United States/ Dolores County/ Mesa County/ Gilpin County/ Igneous-metamorphic/ Clear Creek County/ Montrose County/ San Miguel County/ Front Range/ Colorado Plateau/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1955
genesis/ uranium/ ore deposits/ veins/ bituminous substances/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ Montrose County/ San Miguel County/ Mesa County/ Igneous-metamorphic/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1955
veins/ bituminous substances/ genesis/ uranium/ ore deposits/ Igneous-metamorphic/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ San Miguel County/ Montrose County/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ ore deposits/ migmatites/ sandstone/ shale/ Igneous-metamorphic/ Colorado/ Colorado Plateau/ San Juan County/ San Miguel County/ Jefferson County/ Montrose County/ Old Leyden mine/ coal/ Gilpin County/ Clear County/ uranium/ Front Range/ genesis/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ Colorado/ genesis/ uranium/ ore deposits/ pegmatites/ migmatites/ San Miguel County/ sandstone/ coal/ shale/ phosphorites/ Igneous-metamorphic/ Front Range/ Colorado Plateau/ San Juan County/ replacement/ Jefferson County/ Montrose County/ Old Leyden mine/ Mesa County/ Gilpin County/ Clear Creek County/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ Igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1952
uranium/ ore deposits/ Igneous-metamorphic/ sandstone/ shale/ phosphorites/ Colorado Plateau/ Colorado/ Front Range/
- McMillan, W. D., 1960
Colorado/ New Mexico/ minerals/ resources/ Chama Irrigation project/ sandstone/ La Plata County/ Archuleta County/ Colorado Plateau/ San Juan Irrigation project/
- Meijer, H. J. de L., Janssen, M. J., and Kerk, G. J. M. van der, 1964
vanadium/ organic chemistry/ Colorado Plateau/
- Mellin, R. E., 1955
bibliography/ annotated/ geology/ sandstone/ uranium/ ore deposits/ United States/ Colorado Plateau/ Morrison Formation/ Shinarump Member/ Chinle Formation/ Colorado/ Utah/ Montrose County/ Mesa County/ San Miguel County/ Missouri/ New Mexico/ Wyoming/
- Mellin, R. E., 1957
bibliography/ annotated/ sandstone/ uranium/ United States/ ore deposits/ Colorado Plateau/ geology/ Morrison Formation/ Colorado/ Utah/ Missouri/ New Mexico/ Wyoming/ Montrose County/ Mesa County/ San Miguel County/
- Merewether, E. A., 1960
ore deposits/ resources/ maps/ Igneous-metamorphic/ geology/ Front Range/ Colorado Plateau/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Front Range/ exploration/ Morrison Formation/ phosphates/ shale/ sandstone/ Igneous-metamorphic/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ Dolores County/ Gilpin County/ Clear Creek County/ Garfield County/ Boulder County/
- Merritt, P. L., 1950
uranium/ exploration/ Colorado Plateau/ sandstone/ Morrison Formation/ Entrada Sandstone/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Caribou district/ Igneous-metamorphic/ Montrose County/ Clear Creek County/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Clear Creek County/ Caribou district/ Igneous-metamorphic/
- Merritt, R. C., and Pings, W. B., 1969
uranium ore treatment/ processing/ history/ mining/ Colorado Plateau/ sandstone/ Front Range/ Igneous-metamorphic/
- Metal Mining Fund Board, 1961
vanadium/ mineralogy/ geochemistry/ Colorado Plateau/ sandstone/ uranium/ Rifle Creek district/ roscoelite/ San Miguel County/ Montrose County/ Mesa County/ Garfield County/ Placerville district/
- Metzger, O. H., 1944
Colorado/ vanadium/ ore deposits/ stratigraphy/ mineralization/ topography/ geology/ sandstone/ uranium/ McElmo district/ San Juan basin/ Colorado Plateau/ Montezuma County/
- Metzger, O. H., 1945
exploration/ ore deposits/ geology/ mineralization/ mining/ production/ stratigraphy/ topography/ mapping/ uranium/ vanadium/ Calamity district/ Uncompahgre uplift/ sandstone/ Mesa County/

COLORADO PLATEAU

COLORADO PLATEAU

- Calamity Mesa/ Flattop Mesa/ mines/ Colorado Plateau/
- Michelson, R. A., 1966
uranium/ exploration/ Colorado Plateau/ sandstone/
- Mickey, M. R., Jr., and Jespersen, H. W., Jr., 1954
drilling/ Polar Mesa/ Lukachukai Mountains/
uranium/ Colorado Plateau/ statistics/ sandstone/
Arizona/ ore deposits/
- Miesch, A. T., 1954
statistics/ uranium/ vanadium/ ore deposits/
exploration/ ore guides/ Morrison Formation/
Legin mines/ sandstone/ Colorado Plateau/ San
Miguel County/
- Miesch, A. T., 1957
Colorado Plateau/ ore deposits/ exploration/
Jurassic/ chemical composition/ size determination/
sandstone/ Morrison Formation/ zirconium/ uranium/
yttrium/ nickel/ analyses/ statistics/ ore guides/
San Miguel County/
- Miesch, A. T., 1958
Colorado Plateau/ ore deposits/ exploration/
chemical composition/ size determination/ Jurassic/
sandstone/ ore guides/ uranium/ statistics/
San Miguel County/ Montrose County/ Mesa County/
Dolores County/ Morrison Formation/
- Miesch, A. T., 1958
Colorado Plateau/ ore deposits/ exploration/
size determination/ sandstone/ Jurassic/ Morrison
Formation/ ore guides/ uranium/ statistics/
San Miguel County/ Montrose County/ Mesa County/
chemical composition/ Dolores County/
- Miesch, A. T., 1961
Colorado Plateau/ ore deposits/ sandstone/ chemical
composition/ genesis/ mineralization/ Morrison
Formation/ uranium/ Legin area/ San Miguel County/
Salt Wash Member/
- Miesch, A. T., 1962
Colorado Plateau/ sandstone/ mineralogy/ chemistry/
lithology/ host rocks/ ore deposits/ stratigraphy/
- Miesch, A. T., 1962
San Miguel County/ Frenchy Incline/ ore deposits/
geochemistry/ trace-element analyses/ genesis/
sandstone/ Morrison Formation/ Colorado Plateau/
- Miesch, A. T., 1963
Colorado Plateau/ ore deposits/ elements/ geology/
Morrison Formation/ Chinle Formation/ Moffat
County/ Rio Blanco County/ Garfield County/
Mesa County/ Delta County/ Montrose County/
San Miguel County/ Montezuma County/ La Plata
County/ Archuleta County/ sandstone/ Dolores
County/
- Miesch, A. T., and Riley, L. B., 1960
Colorado Plateau/ ore deposits/ chemical properties/
chemical analyses/ methods/ statistical methods/
geochemistry/ sandstone/
- Miesch, A. T., and Shoemaker, E. M., 1957
uranium/ Colorado Plateau/ elements/ sandstone/
San Miguel County/ Montrose County/
- Miesch, A. T., and Shoemaker, E. M., n.d.
Bull Canyon quadrangle/ Montrose County/ Colorado
Plateau/ elements/ sandstone/ uranium/ ore deposits/
- Miesch, A. T., Shoemaker, E. M., and Newman, W.
L., 1958
elements/ Colorado Plateau/ sandstone/ Chinle
Formation/ analyses/ uranium/ vanadium/ Morrison
Formation/ Urayan district/ statistics/ San
Miguel County/ Dolores County/ Montrose County/
Mesa County/
- Miesch, A. T., Shoemaker, E. M., Newman, W. L.,
and others, 1959
chemical composition/ ore guides/ ore deposits/
Morrison Formation/ Salt Wash Member/ Colorado
Plateau/ sandstone/ analyses/ statistics/ Mesa
County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ geology/
- Miesch, A. T., Shoemaker, E. M., Newman, W. L.,
and others, 1960
Colorado Plateau/ ore deposits/ sandstone/ ore
guides/ deposit size/ Jurassic/ Mesa County/
Delta County/ Montrose County/ San Miguel County/
Dolores County/ Montezuma County/ uranium/ chemical
composition/ Morrison Formation/
- Milkey, R. G., 1952
Colorado Plateau/ age determination/ analyses/
methods/ carnotite/ age studies/ mineralogy
studies/ sandstone/ San Miguel County/ Montrose
County/
- Miller, D. S., 1959
Colorado Plateau/ ore deposits/ genesis/ isotopes/
absolute age/ Colorado/ sandstone/ limestone/
- Miller, D. S., 1960
Colorado Plateau/ ore deposits/ genesis/ research/
data/ isotopes/ lead/ sulfur/ uranium/ age dating/
Colorado/ sandstone/ limestone/ volcanics/ San
Miguel County/ Igneous-metamorphic/
- Miller, D. S., 1960
Colorado Plateau/ ore deposits/ genesis/ isotopes/
absolute age/ Colorado/ sandstone/ limestone/
San Miguel County/ uranium/ lead/ sulfur/
- Miller, D. S., and Kulp, J. L., 1958
Colorado Plateau/ ore deposits/ genesis/ geochemistry/
isotopes/ uranium/ Colorado/ age dating/ sandstone/
- Miller, D. S., and Kulp, J. L., 1963
Colorado Plateau/ Colorado/ uranium/ genesis/
ore deposits/ geochemistry/ age dating/ isotopes/
sandstone/ limestone/ volcanics/ Igneous-metamorphic/
- Miller, D. S., and Kulp, J. L., 1969
Colorado Plateau/ isotopes/ sandstone/ genesis/
ore deposits/ geochemistry/
- Miller, G. B., 1946
ore deposits/ vanadium/ mineralization/ geography/

- stratigraphy/ mining/ data/ Carpenter Ridge district/ Dolores Plateau area/ Colorado Plateau/ Montrose County/ sandstone/ uranium/
- Miller, L. J., 1953
Colorado Plateau/ ore deposits/ mineralization/ uraninite/ ore textures/ Colorado/ uranium/ alteration/ sandstone/ geothermometry/
- Miller, L. J., 1953
Colorado Plateau/ ore deposits/ mineralization/ uraninite/ ore textures/ Colorado/ geothermometry/ sandstone/ alteration/
- Millgate, M. L., 1953
Entrada Sandstone/ Summerville Formation/ Judy claims/ Joker group/ Gypsy Queen claims/ Miracle claims/ Gypsum Valley district/ Montrose County/ Colorado Plateau/ reserves/ exploration/ drilling/ sandstone/ ore deposits/ uranium/ vanadium/ Morrison Formation/
- Minerals Map Company, 1956
Colorado Plateau/ ore deposits/ maps/ sandstone/ Montrose County/ Dolores County/ Mesa County/ Delta County/ Garfield County/ Moffat County/ San Miguel County/
- Mobley, C. M., 1953
Pay Day group/ drilling/ exploration/ reserves/ Gypsum Valley district/ San Miguel County/ sandstone/ Morrison Formation/ Salt Wash Member/ ore deposits/ uranium/ vanadium/ Colorado Plateau/
- Moore, R. B., 1913
ore deposits/ carnotite/ Colorado/ Utah/ mining/ uranium/ radium/ vanadium/ North Carolina/ marketing/ San Miguel County/ Montrose County/ Mesa County/ Gilpin County/ pitchblende/ Huerfano County/ Colorado Plateau/ Front Range/ sandstone/
- Moore, R. B., 1923
Colorado/ vanadium/ sandstone/ Colorado Plateau/
- Morehouse, G. E., 1951
Placerville district/ ore deposits/ thucholite/ veins/ bituminous substances/ uraninite/ White Spar prospect/ faults/ sandstone/ Morrison Formation/ Colorado Plateau/ San Miguel County/ Black King prospect/ Dolores Formation/
- Morgan, J. M., Jr., 1959
environment/ stream study/ uranium/ Colorado River/ Gunnison River/ Colorado Plateau/ liquid wastes/ surface water/ stream sediments/ Mesa County/ Garfield County/
- Morgan, J. M., Jr., 1959
environment/ stream study/ uranium/ Colorado River/ Gunnison River/ Colorado Plateau/ liquid wastes/ surface water/ stream sediments/ Mesa County/ Garfield County/
- Motica, J. E., 1968
Uravan district/ genesis/ solutions/ Morrison Formation/ precipitation/ sandstone/ lenses/ Jurassic/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ geology/ uranium/ vanadium/ ore deposits/ Colorado Plateau/
- Moxham, R. M., 1958
radioactivity/ airborne surveys/ exploration/ equipment/ phosphates/ placers/ heavy minerals/ Texas/ Florida/ Wyoming/ New Mexico/ Colorado/ Moffat County/ sandstone/ Colorado Plateau/ geology/ Maybell-Lay district/
- Mull, C. G., 1960
geology/ Grand Hogback monocline/ Garfield County/ sandstone/ Entrada Sandstone/ vanadium/ Rifle district/ Colorado Plateau/
- Mullens, T. E., and Freeman, V. L., 1952
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Colorado/ uranium/ vanadium/ Mesa County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Utah/ Arizona/ New Mexico/ San Miguel County/ Morrison Formation/
- Mullens, T. E., and Freeman, V. L., 1954
lithofacies/ Salt Wash Member/ sandstone/ stratigraphy/ Colorado Plateau/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Moffat County/ Garfield County/ Delta County/ San Juan County/ Eagle County/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/ genesis/ ore deposits/ Morrison Formation/ Rio Blanco County/
- Mullens, T. E., and Freeman, V. L., 1957
lithofacies/ Salt Wash Member/ sandstone/ San Juan County/ Morrison Formation/ stratigraphy/ Colorado Plateau/ Moffat County/ Rio Blanco County/ Garfield County/ Eagle County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ genesis/ ore deposits/ Pitkin County/ Gunnison County/ Ouray County/ Hinsdale County/ Archuleta County/
- Murray, D. K., 1976
energy resources/ map/ uranium/ coal/ oil/ gas/ geothermal/ Colorado/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/
- Murray, D. K., and Haun, J. D., 1974
age estimation/ geology/ geomorphology/ mineral resources/ natural gas/ petroleum/ Piceance Creek basin/ sediments/ stratigraphy/ uranium/ Utah/ Rio Blanco County/ Garfield County/ Mesa County/ Moffat County/ Colorado Plateau/ sandstone/
- Myers, A. T., and Waring, C. L., 1956
analyses/ spectrography/ Colorado Plateau/ pyrite/ ore deposits/ uranium/ geochemistry/ thorium/ selenium/ sandstone/
- Narten, P. F., 1953
Colorado Plateau/ ore deposits/ exploration/ geobotany/ indicator plants/ New Mexico/ Utah/ absorber plants/ sandstone/
- Narten, P. F., 1953
Colorado Plateau/ exploration/ ore deposits/ indicator plants/ geobotany/ selenium/ sulfur/ uranium/ Morrison Formation/ sandstone/ Utah/

- Narten, P. F., Crawford, J. E., and Butler, A. P., Jr., 1951
Clear Creek County/ Garfield County/ Jefferson County/ Montrose County/ Rio Blanco County/ Dakota Sandstone/ Mesa County/ Fountain Formation/ Green River Formation/ Laramie Formation/ Hermosa Formation/ Paradox Member/ shales/ sandstone/ Front Range/ Colorado Plateau/
- Nash, A. L., 1953
Utah/ Colorado/ Montrose County/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/ Chinle Formation/ Mossback Member/ Cutler Formation/ San Miguel County/ Skeln Mesa/ reconnaissance/ sandstone/ siltstone/ shale/ stratigraphy/ geology/ airborne surveying/
- Nash, A. L., 1953
airborne surveying/ San Miguel County/ Utah/ Colorado/ geology/ Salt Wash Member/ stratigraphy/ Montrose County/ ore deposits/ Empire group/ Colorado Plateau/ sandstone/ conglomerate/ Morrison Formation/ Shinarump Member/ Cutler Formation/ Lisbon Valley district/ Indian Creek area/ Skeln Mesa/
- Nelson, Haley, Patterson and Quirk, Inc., 1971
buildings/ economics/ uranium ores/ environmental studies/ health and safety/ Mesa County/ Colorado Plateau/ mill tailings/
- Nelson, J. M., 1953
car-mounted equipment/ gamma-ray logging/ sandstone/ exploration/ Colorado Plateau/ Geiger-Mueller counter/
- Newman, W. L., 1951
Long Park area/ Montrose County/ reserves/ resources/ Colorado Plateau/ ore deposits/ sandstone/ uranium/ vanadium/ Morrison Formation/ Salt Wash Member/
- Newman, W. L., 1953
Colorado Plateau/ element distribution/ sedimentary rocks/ igneous-metamorphic/ Logn group area/ San Miguel County/ sandstone/ uranium/ vanadium/ oxides/ Ute Mountains/
- Newman, W. L., 1957
Colorado Plateau/ element distribution/ sedimentary rocks/ igneous-metamorphic/ sandstone/ uranium/ vanadium/ Morrison Formation/ Chinle Formation/ Urvan district/ San Miguel County/ Jo Dandy area/ Montrose County/ mudstone/
- Newman, W. L., 1959
Colorado Plateau/ ore deposits/ sandstone/ resources/ indicators/ ore guides/ chemical composition/ exploration/ Morrison Formation/ Salt Wash Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/
- Newman, W. L., 1962
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ sandstone/ mudstone/ limestone/ Urvan district/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/
- Newman, W. L., and Elston, D. P., 1957
element distribution/ Salt Wash Member/ Morrison Formation/ Jo Dandy area/ Montrose County/ sandstone/ stratigraphy/ correlation/ mudstone/ Colorado Plateau/
- Newman, W. L., and Elston, D. P., 1959
elements/ Salt Wash Member/ Morrison Formation/ Jo Dandy area/ Montrose County/ sandstone/ mudstone/ Colorado Plateau/
- Newman, W. L., Shoemaker, E. M., and Miesch, A. T., 1959
element distribution/ sedimentary rocks/ Colorado Plateau/ genesis/ ore deposits/ Morrison Formation/ Salt Wash Member/ sandstone/ Urvan district/ San Miguel County/
- Newman, William L., 1954
- Nininger, R. D., 1954
veins/ minerals/ atomic energy/ Colorado Plateau/ sandstone/
- Nininger, R. D., and Wentzel, Volkmar, 1954
exploration/ ore deposits/ Colorado Plateau/ Urvan district/ Dolores County/ San Miguel County/ Montrose County/ sandstone/
- Noble, E. A., 1959
Colorado Plateau/ uranium belts/ genesis/ ore deposits/ Urvan district/ Lisbon Valley district/ San Juan basin/ Colorado/ New Mexico/ Utah/ Mesa County/ San Miguel County/ Montrose County/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ Montezuma County/
- Noble, E. A., 1960
Colorado Plateau/ ore deposits/ uranium belts/ genesis/ Urvan district/ Lisbon Valley district/ San Juan basin/ Colorado/ New Mexico/ Utah/ Mesa County/ San Miguel County/ Montrose County/ sandstone/ Jurassic/ Morrison Formation/ Salt Wash Member/ Chinle Formation/ Montezuma County/
- Noble, E. A., and Annes, E. C., Jr., 1957
Uinta basin/ ore deposits/ exploration/ Chinle Formation/ Curtis Formation/ Morrison Formation/ Mesaverde Group/ Green River Formation/ Uinta Formation/ Moffat County/ Rio Blanco County/ sandstone/ mudstone/ siltstone/ limestone/ shale/ Skull Creek district/ conglomerate/ Weber Sandstone/ Colorado Plateau/
- Nordyke, Lewis, 1956
uranium/ Colorado Plateau/ sandstone/
- Notestein, F. B., 1918
ore deposits/ geochemistry/ genesis/ experimental studies/ uranium/ vanadium/ Colorado Plateau/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ sandstone/
- Olson, J. C., Butler, A. P., Jr., Finch, W. I., and Fischer, R. P., 1973
resources/ uranium/ thorium/ production/ exploration/

- veins/ sandstone/ San Miguel County/ Colorado Plateau/ Gunnison County/ Saguache County/
- Olson, J. C., Hedlund, D. C., and Hansen, W. R., 1968
Powderhorn district/ Black Canyon region/ Gunnison County/ Montrose County/ volcanics/ stratigraphy/ petrology/ Tertiary/ igneous-metamorphic/ Colorado Plateau/
- Ormond, Allen, 1957
uranium/ Wyoming/ geology/ genesis/ petroleum/ sandstone/ minerals/ Moffat County/ Browns Park Formation/ ore deposits/ Colorado Plateau/
- Outerbridge, W. F., 1957
Slick Rock area/ San Miguel County/ minerals/ fluid inclusions/ thermometry/ mineralogy/ Colorado Plateau/ sandstone/
- Page, L. R., 1950
Mount Antero region/ Crystal Mountain district/ San Juan Mountains/ Chaffee County/ Larimer County/ helvite/ pegmatites/ beryllium/ beryl/ Colorado Plateau/ igneous-metamorphic/ Devils Hole mine/ Fremont County/ Gunnison County/ Jefferson County/ San Juan County/ Front Range/ aquamarine/
- Page, L. R., 1950
beryllium/ beryl/ Colorado Plateau/ pegmatites/ Larimer County/ igneous-metamorphic/ San Juan County/ Devils Hole mine/ Fremont County/ Gunnison County/ Jefferson County/ Mount Antero/ Chaffee County/ aquamarine/ Front Range/ Crystal Mountain district/
- Page, L. R., 1956
uranium/ thorium/ ore guides/ exploration/ Colorado/ sandstone/ igneous-metamorphic/ geology/ Colorado Plateau/
- Page, L. R., 1956
uranium/ thorium/ ore guides/ igneous-metamorphic/ exploration/ Colorado/ sandstone/ geology/ Colorado Plateau/
- Page, L. R., Stocking, H. E., and Smith, H. B., compilers, 1956
Colorado Plateau/ Front Range/ Gunnison County/ limestone/ Montrose County/ Jefferson County/ arkosa/ sandstone/ shale/ geology/ uranium/ thorium/ exploration/ igneous-metamorphic/ San Miguel County/ geochemistry/ mineralogy/ conglomerate/
- Palst, D. A., 1970
vanadium/ alloys/ compounds/ San Miguel County/ metallurgy/ history/ ore deposits/ geology/ sandstone/ Colorado Plateau/ Montrose County/ Mesa County/ Garfield County/ Uravan district/ Placerville district/ Rifle district/ carnotite/ roscoelite/
- Pakiser, L. C., and Black, R. A., 1956
channels/ exploration/ refraction/ seismograph/ Utah/ geophysics/ Monument Valley/ Arizona/ Colorado Plateau/ sandstone/
- Paterson, W. C., 1951
Colorado Plateau/ ore deposits/ production/ thorium/ power/ weapons/ sandstone/
- Payne, A. L., 1962
Colorado Plateau/ uranium/ vanadium/ copper/ silver/ sandstone/ gneiss/ geology/ ore deposits/ igneous-metamorphic/
- Payne, A. L., 1962
Colorado Plateau/ uranium/ vanadium/ copper/ silver/ sandstone/ gneiss/ geology/ ore deposits/ igneous-metamorphic/
- Pettijohn, F. J., 1963
chemical composition/ sandstone/ uranium/ thorium/ monazite/ United States/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/
- Phair, George, and Jenkins, L. B., 1975
uranium/ thorium/ data/ igneous-metamorphic/ intrusives/ Mesozoic/ Cenozoic/ Colorado/ Colorado Plateau/ Front Range/
- Phillips, A. H., 1904
radium/ carnotite/ Montrose County/ San Miguel County/ Mesa County/ Colorado/ Utah/ uranium/ vanadium/ chemistry/ concentration/ sandstone/ Colorado Plateau/
- Phoenix, D. A., 1949
Colorado Plateau/ ground water/ ore deposits/ genesis/ Calamity Mesa/ Outlaw Mesa/ Mesa County/ paleo-ground water/ sandstone/
- Phoenix, D. A., 1950
Colorado Plateau/ ground water/ Calamity Mesa/ Mesa County/ sandstone/
- Phoenix, D. A., 1951
Mesa County/ Calamity Mesa area/ gamma-ray logging/ ground water/ minerals/ pitchblende/ sandstone/ Morrison Formation/ Salt Wash Member/ correlation/ permeability logs/ uranium/ Colorado Plateau/ ore deposits/
- Phoenix, D. A., 1951
ground water/ Colorado Plateau/ analyses/ Colorado/ Utah/ sandstone/ San Miguel County/ Montrose County/ Mesa County/ Colorado Plateau/ Morrison Formation/
- Phoenix, D. A., 1952
Atkinson Mesa/ Calamity Mesa/ Slick Rock district/ Montrose County/ San Miguel County/ ground water/ carnotite/ sandstone/ Morrison Formation/ stratigraphy/ Brushy Basin Member/ Recapture Member/ Westwater Canyon Member/ Colorado Plateau/ Mesa County/ Salt Wash Member/
- Phoenix, D. A., 1953
ground water/ Colorado Plateau/ ore deposits/ Morrison Formation/ sandstone/
- Phoenix, D. A., 1955
Mesa County/ Montrose County/ San Miguel County/ ground water/ analyses/ Utah/ uranium/ vanadium/

- ore deposits/ Colorado Plateau/ Morrison Formation/ sandstone/
- Phoenix, D. A., 1956
carnotite/ permeability/ Morrison Formation/ Mesa County/ uranium/ vanadium/ sandstone/ ore deposits/ Colorado Plateau/ ground water/
- Phoenix, D. A., 1956
carnotite/ permeability/ Morrison Formation/ Mesa County/ uranium/ vanadium/ sandstone/ ore deposits/ Colorado Plateau/ ground water/
- Phoenix, D. A., 1958
Colorado/ Utah/ ore deposits/ sandstone/ conglomerate/ Jurassic/ Morrison Formation/ Colorado Plateau/ uranium/ Brushy Basin Member/ stratigraphy/ Mesa County/ Montrose County/ San Miguel County/
- Phoenix, D. A., 1959
Colorado Plateau/ Colorado/ Morrison Formation/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ ground water/ analyses/ chemistry/ Utah/
- Phoenix, D. A., and Franks, P. C., 1956
geothermal/ sandstone/ Colorado Plateau/ drilling/ Utah/ Arizona/ Colorado/ San Miguel County/ Disappointment Valley/ stratigraphy/ ore deposits/ mineralogy/ paleontology/ geology/
- Pierson, C. T., 1953
San Juan Mountains/ ore deposits/ exploration/ analyses/ Lark mine/ San Juan County/ Smuggler mine/ San Miguel County/ veins/ sandstone/ Colorado Plateau/ igneous-metamorphic/
- Pierson, C. T., 1953
San Juan Mountains/ San Juan County/ La Plata County/ Ouray County/ Dolores County/ Bonanza district/ Saguache County/ Mineral County/ Hinsdale County/ La Plata district/ Upper Uncompahgre district/ Colorado Plateau/ igneous-metamorphic/
- Pierson, C. T., Burbank, W. S., and Singewald, Q. D., 1952
Colorado mineral belt/ ore deposits/ veins/ igneous-metamorphic/ Pitkin County/ Park County/ Ouray County/ San Juan County/ San Miguel County/ uranium/ Colorado Plateau/
- Pierson, C. T., Weeks, W. F., and Kleinhampl, F. J., 1956
San Juan Mountains/ Dolores County/ La Plata County/ pitchblende/ reconnaissance/ radioactivity/ mining districts/ fractures/ andesite/ San Miguel County/ hydrocarbons/ calcareous tufa/ hot springs/ limonite/ alteration/ diorite/ veins/ fault breccia/ shear zone materials/ San Juan tuff/ Uncompahgre Formation/ igneous-metamorphic/ spring deposits/ Colorado Plateau/
- Piller, Richard, and Adams, J. A. S., 1959
ore deposits/ resources/ Cretaceous/ Mancos Shale/ thorium/ Colorado Plateau/ uranium/ analyses/ shale/ geochemistry/
- Piller, Richard, and Adams, J. A. S., 1962
ore deposits/ resources/ Cretaceous/ Mancos Shale/ thorium/ Colorado Plateau/ uranium/ analyses/ shale/ geochemistry/
- Pommer, A. M., 1956
oxidation potential/ Colorado Plateau/ uranium/ vanadium/ sandstone/ Salt Wash Member/ Morrison Formation/ Utah/ Arizona/ Colorado/ New Mexico/ Montrose County/ Mesa County/ Dolores County/ Montezuma County/ Jo Dandy area/ ore deposits/ genesis/ Woody material/ San Miguel County/
- Pommer, A. M., 1956
Colorado Plateau/ Montrose County/ Jo Dandy mines/ Mineral Joe mine/ genesis/ uranium/ oxidation potential/ vanadium/ woody material/ organics/ geochemistry/ sandstone/ ore deposits/
- Pommer, A. M., 1956
Colorado Plateau/ ore deposits/ genesis/ deposition/ minerals/ thermodynamics/ solutions/ sandstone/ Morrison Formation/ uranium/ vanadium/ transportation/
- Pommer, A. M., 1958
Colorado Plateau/ ore deposits/ uraninite/ genesis/ simulation/ uranium/ Montrose County/ analyses/ coal/ sandstone/
- Poole, F. G., and Williams, G. A., 1956
sediments/ Colorado Plateau/ ore guides/ uranium/ vanadium/ exploration/ sandstone/ conglomerate/ Morrison Formation/ transportation direction/ Chinle Formation/ Montrose County/ Entrada Sandstone/ Mesa County/ Delta County/ Triassic/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/
- Poole, F. G., and Williams, G. A., 1956
ore guides/ exploration/ uranium/ vanadium/ sandstone/ conglomerate/ transportation direction/ Morrison Formation/ Chinle Formation/ Entrada Sandstone/ sediments/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Triassic/ Colorado Plateau/ San Miguel County/
- Proctor, P. D., Hyatt, E. P., and Bullock, K. C., 1954
uranium/ sandstone/ exploration/ Colorado Plateau/
- Pruess, R. C., 1954
Colorado Plateau/ history/ sandstone/
- Puffett, W. P., and Weir, G. W., 1959
Utah/ Colorado/ Lisbon Valley/ sandstone/ North Alice mine/ Chinle Formation/ Cutler Formation/ Montrose County/ Colorado Plateau/ geology/ mapping/ Big Indian district/
- Rabbitt, J. C., 1950
analyses/ geochemistry/ petrology/ Colorado Plateau/ sandstone/ trace elements/ Front Range/ igneous-metamorphic/
- Rabbitt, J. C., 1950
trace elements/ annual report/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/

- Rabbitt, J. C., 1951
 Central City district/ Jamestown district/ ore deposits/ pitchblende/ Blue Jay mine/ bostonite/ fluorite/ veins/ breccia/ Colorado Plateau/ carnotite project/ sandstone/ Igneous-metamorphic/ Boulder County/ Gilpin County/ Clear Creek County/ Front Range/
- Rabbitt, J. C., 1951
 Blue Jay mine/ Jamestown district/ Colorado Plateau/ bostonite dikes/ Front Range/ Central City district/ mineralogy/ petrology/ geochemistry/ radioactivity/ fluorite/ Clear Creek County/ pitchblende/ ore deposits/ minerals/ Gilpin County/ veins/ breccia/ sandstone/ Boulder County/ Igneous-metamorphic/
- Rabbitt, J. C., 1951
 Front Range/ Central City district/ ore deposits/ ore guides/ exploration/ Clear Creek County/ Gilpin County/ Colorado Plateau/ Jamestown district/ mineralogy/ petrology/ geochemistry/ pitchblende/ Blue Jay mine/ bostonite/ fluorite/ veins/ breccia/ sandstone/ Igneous-metamorphic/ Boulder County/
- Rabbitt, J. C., 1952
 Colorado Plateau/ carnotite project/ Gilpin County/ Larimer County/ sandstone/ Igneous-metamorphic/ Front Range/
- Rabbitt, J. C., 1952
 Colorado Plateau/ Front Range/ Central City district/ ore deposits/ exploration/ trace elements/ sandstone/ Igneous-metamorphic/ Gilpin County/ Clear Creek County/
- Rackley, R. I., 1971
 genesis/ sandstone/ tectonics/ sedimentation/ environments/ ore controls/ ore deposits/ Colorado Plateau/
- Rackley, R. I., 1976
 strata-bound deposits/ stratiform deposits/ ore deposits/ mineralization/ genesis/ uranium/ Colorado Plateau/ sandstone/
- Ramsey, R. W., ed., 1954
 Colorado Plateau/ ore deposits/ popular and elementary geology/ uranium/
- Rankama, Kalvero, and Sahama, T. G., 1950
 uranium/ vanadium/ geochemistry/ Igneous-metamorphic/ biogeochemistry/ coal/ shale/ sandstone/ Colorado/ ore deposits/ carnotite/ uraninite/ Utah/ Colorado Plateau/
- Rankama, Kalvero, and Sahama, T. G., 1950
 vanadium/ geochemistry/ Igneous-metamorphic/ sediments/ sandstone/ carnotite/ clays/ shale/ ore deposits/ Utah/ Colorado/ uranium/ Colorado Plateau/
- Ransome, F. L., and Hillebrand, W. F., 1905
 ore deposits/ carnotite/ accessory minerals/ sandstone/ Placerville district/ San Miguel County/ Roc Creek area/ Montrose County/ Mesa County/ uranium/ vanadium/ genesis/ analyses/ Colorado Plateau/ veins/
- Rasor, C. A., 1953
 Colorado Plateau/ ore deposits/ geology/ sandstone/ uranium/
- Redmon, D. E., 1960
 ore deposits/ resources/ production/ drilling/ economics/ costs/ exploration/ uranium/ Colorado Plateau/ New Mexico/ Arizona/ Utah/ Colorado/ Wyoming/ equipment/ sandstone/
- Reinhardt, E. V., 1952
 Colorado Plateau/ Igneous-metamorphic/ sandstone/ uranium/ vanadium/ Tertiary Intrusives/ La Plata County/ San Miguel County/ ore deposits/
- Reinhardt, E. V., 1952
 Colorado Plateau/ ore deposits/ ore guides/ uranium/ vanadium/ copper/ hydrocarbons/ limestone/ sandstone/ Morrison Formation/ Salt Wash Member/ Entrada Sandstone/ Shinarump Member/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/
- Reinhardt, E. V., 1954
 Colorado Plateau/ ore deposits/ genesis/ structural controls/ sandstone/
- Reinhardt, E. V., 1963
 Colorado Plateau/ Uravan district/ structure/ ore deposits/ genesis/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/
- Research, Incorporated, 1955
 Colorado Plateau/ ore deposits/ exploration/ geophysics/ geochemistry/ techniques/ research/ development/ sandstone/
- Richardson, A. C., 1949
 ore deposits/ carnotite/ production/ sandstone/ Colorado Plateau/
- Riley, L. B., 1953
 Mesa County/ Colorado Plateau/ sandstone/ clay/ mineralogy/
- Riley, L. B., 1954
 selenium/ uranium/ Colorado Plateau/ Uravan district/ ore deposits/ sandstone/ San Miguel County/ Montrose County/
- Riley, L. B., and Owens, J. P., 1957
 Saguache County/ Pitch mine/ Cashin mine/ Montrose County/ Colorado Plateau/ mineralogy/ sandstone/ veins/ Igneous-metamorphic/
- Riley, L. B., and Shoemaker, E. M., 1952
 Colorado Plateau/ ore deposits/ elements/ Mesa County/ Montrose County/ San Miguel County/ spectrographic analyses/ sandstone/
- Roach, C. H., 1953
 Colorado Plateau/ reserves/ exploration/ sandstone/ uranium/ vanadium/ Morrison Formation/ Spring Creek Mesa area/ Montrose County/ ore deposits/ Salt Wash Member/

- Roach, C. H., 1953
Colorado Plateau/ reserves/ exploration/ sandstone/
ore deposits/ uranium/ vanadium/ Morrison Formation/
Salt Wash Member/ Spring Creek Mesa area/ Montrose
County/
- Roach, C. H., 1953
Colorado Plateau/ reserves/ exploration/ ore
deposits/ sandstone/ uranium/ vanadium/ Morrison
Formation/ Salt Wash Member/ Spring Creek Mesa
area/ Montrose County/
- Roach, C. H., 1953
Colorado Plateau/ reserves/ exploration/ sandstone/
ore deposits/ uranium/ vanadium/ Morrison Formation/
Salt Wash Member/ Spring Creek Mesa area/ Montrose
County/
- Roach, C. H., 1954
Spring Creek Mesa area/ ore deposits/ Colorado
Plateau/ exploration/ stratigraphy/ ore guides/
Montrose County/ drilling/ sandstone/ Morrison
Formation/ Salt Wash Member/ minerals/ coffinite/
covellite/ fernandinite/ montroselite/ melanovanadite/
pitchblende/
- Roach, C. H., and Alvord, D. C., 1970
maps/ drilling/ exploration/ sandstone/ San
Miguel bench area/ Uravan district/ Montrose
County/ Colorado Plateau/ Spring Creek Mesa area/
- Roach, C. H., and Thompson, M. E., 1955
Bull Canyon district/ Montrose County/ minerals/
coffinite/ digenite/ montroselite/ uraninite/
Peanut mine/ sandstone/ sedimentary structures/
ore localization/ Morrison Formation/ stratigraphy/
uranium/ oxidation/ Colorado Plateau/ ore deposits/
- Roach, C. H., and Thompson, M. E., 1959
Bull Canyon district/ Montrose County/ minerals/
coffinite/ digenite/ montroselite/ uraninite/
Peanut mine/ sandstone/ sedimentary structures/
ore localization/ stratigraphy/ uranium/ oxidation/
Colorado Plateau/ ore deposits/ Morrison Formation/
- Roach, C. H., and Wallace, R. M., 1957
Montrose County/ San Miguel County/ sandstone/
Bull Canyon district/ uranium/ ore deposits/
genesis/ Colorado Plateau/
- Robeck, R. C., 1960
Colorado/ Utah/ ore deposits/ geology/ maps/
structure/ oil/ gas/ sandstone/ Colorado Plateau/
geology/ Lisbon Valley/ uranium/ Montrose County/
San Miguel County/
- Robertson, D. S., 1970
uranium/ geology/ ore guides/ exploration/ ore
deposits/ leaching/ sandstone/ arkose/ Colorado
Plateau/
- Rogers, A. S., 1950
San Miguel County/ minerals/ carnotite/ geology/
sandstone/ Morrison Formation/ Salt Wash Member/
Legin group/ drilling/ leaching/ ore deposits/
Colorado Plateau/
- Rogers, W. B., and Shawe, D. R., 1962
Disappointment Valley/ ore deposits/ sandstone/
exploration/ uranium/ vanadium/ Slick Rock district/
San Miguel County/ Colorado Plateau/ Morrison
Formation/ Salt Wash Member/ sections/ mineralization/
Lower group/ Middle group/ Georgetown group/
Burro group/ Veta Mad mine/ drilling/ Georgeto
mine/
- Rosenzweig, A., Gruner, J. W., and Gardiner, L., 1952
pitchblende/ uranium/ Colorado Plateau/ Colorado/
Triassic/ Jurassic/ sediments/ petrology/ Chinle
Formation/ Shinarump Member/ sandstone/
- Rosenzweig, A., Gruner, J. W., and Gardiner, L., 1953
pitchblende/ Colorado Plateau/ Triassic/ Jurassic/
sandstone/ Colorado/ Chinle Formation/
- Rosenzweig, A., Gruner, J. W., and Gardiner, L., 1954
Colorado Plateau/ uraninite/ characteristics/
Triassic/ Jurassic/ bituminous substances/ uranium/
sandstone/ paragenesis/ ore deposits/ Montrose
County/ San Miguel County/ Placerville district/
La Sal Creek district/ Chinle Formation/
- Rosholt, J. N., Jr., 1960
Colorado Plateau/ ore deposits/ simulation/
uranium migration/ sandstone/ uranium/ San Miguel
County/ age dating/ experimental studies/
- Rosholt, J. N., Jr., Butler, A. P., Jr., Garner,
E. L., and others, 1965
Colorado/ Wyoming/ genesis/ sandstone/ leaching/
geochemistry/ isotopes/ fractionation/ Powder
River basin/ Slick Rock district/ San Miguel
County/ uranium/ Morrison Formation/ Salt Wash
Member/ Colorado Plateau/
- Rosholt, J. N., Jr., Shields, W. P., and Garner,
E. L., 1963
Isotopes/ fractionation/ uranium/ sandstone/
Colorado Plateau/
- Ross, Malcolm, 1958
vanadium/ minerals/ crystallography/ x-ray analyses/
Colorado Plateau/ Montrose County/ sandstone/
mineralogy/ electron diffraction/
- Ross, Malcolm, 1959
vanadium/ minerals/ crystallography/ x-ray analyses/
Colorado Plateau/ Montrose County/ sandstone/
mineralogy/ electron diffraction/
- Rove, O. N., 1946
trace elements/ reconnaissance/ Colorado Plateau/
Front Range/ sandstone/ igneous-metamorphic/
- Ruckmick, J. C., 1953
heavy minerals/ simulation/ ore deposits/ placers/
gravels/ sandstone/ Mesa County/ Montrose County/
Dolores County/ Montezuma County/ samarskite/
Shinarump Member/ conglomerate/ Colorado Plateau/
fluvial deposits/ San Miguel County/
- Russell, W. L., and Scherbatskoy, S. A., 1951
Colorado Plateau/ ore deposits/ genesis/ exploration/
gamma-ray detectors/ sandstone/ Front Range/
Instrumentation/ Morrison Formation/ Salt Wash

COLORADO PLATEAU

- Member/ Gilpin County/ Clear Creek County/ Boulder County/ San Miguel County/ Montrose County/ Igneous-metamorphic/ Entrada Sandstone/
- Sample, R. D., Albee, H. F., and Stephens, H. G., 1953
Montrose County/ claim map/ Bull Canyon quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., Albee, H. F., and Stephens, H. G., 1953
Montrose County/ San Miguel County/ claim map/ Anderson Mesa quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., Albee, H. F., and Stephens, H. G., 1953
San Miguel County/ claim map/ Hamm Canyon quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., Albee, H. F., and Stephens, H. G., 1953
Montrose County/ claim map/ Red Canyon quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., Albee, H. F., and Stephens, H. G., 1953
claim map/ Colorado Plateau/ Horse Range Mesa/ ore deposits/ sandstone/ Charles A claims/ Apex claims/ Rio Grande claims/ Hot Foot claims/ Summit claims/ Radium claims/ Bean claims/ Charles T claims/ uranium/ vanadium/ San Miguel County/ Morrison Formation/
- Sample, R. D., and Albee, H. F., 1951
Montrose County/ claim map/ Atkinson Creek quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1951
Montrose County/ San Miguel County/ claim map/ Bull Canyon quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1951
Montrose County/ claim map/ Davis Mesa quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1951
Montrose County/ San Miguel County/ claim map/ Naturita NW quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1951
Mesa County/ claim map/ Calamity Mesa quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1951
Mesa County/ claim map/ Pine Mountain quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1952
Montrose County/ claim map/ Roc Creek quadrangle/ sandstone/ veins/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1952
Montrose County/ claim map/ Uravan quadrangle/ sandstone/ Colorado Plateau/

COLORADO PLATEAU

- Sample, R. D., and Albee, H. F., 1952
San Miguel County/ claim map/ Gypsum Gap quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1952
Montrose County/ claim map/ Paradox quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1953
Mesa County/ claim map/ Juanita Arch quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1953
Mesa County/ claim map/ Gateway quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1953
San Miguel County/ claim map/ Joe Davis Hill quadrangle/ sandstone/ Colorado Plateau/
- Sample, R. D., and Albee, H. F., 1953
San Miguel County/ claim map/ Egnar quadrangle/ sandstone/ Colorado Plateau/
- Sandor, J., 1952
vanadium/ uranium/ sandstone/ Colorado Plateau/ production/
- Saum, N. M., and Link, J. M., 1969
uranium/ ore deposits/ exploration/ history/ Front Range/ Schwartzwalder mine/ Jefferson County/ igneous-metamorphic/ geochemistry/ genesis/ hydrothermal deposits/ sandstone/ Morrison Formation/ Uravan district/ Montrose County/ San Miguel County/ Mesa County/ New Mexico/ Utah/ Wyoming/ diatomites/ lignites/ phosphates/ remote sensing/ Colorado Plateau/
- Schultz, L. G., 1956
clays/ Colorado Plateau/ Triassic rocks/ sandstone/
- Schultz, L. G., 1957
clays/ Triassic/ Colorado Plateau/ sandstone/
- Schultz, L. G., 1963
clay minerals/ Moenkopi Formation/ Chinle Formation/ x-ray diffraction/ Ouray County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Colorado Plateau/ sandstone/ La Plata County/
- Scott, J. B., 1952
Colorado Plateau/ Vanura group/ San Miguel County/ drilling/ exploration/ ore deposits/ sandstone/ Morrison Formation/ reserves/ uranium/ vanadium/
- Scott, R. A., 1961
fossil wood/ uranium/ Colorado Plateau/ Colorado/ sandstone/
- Scott, R. C., and Barker, F. B., 1961
ground water/ radium/ La Plata County/ Cheyenne County/ Kiowa County/ Lincoln County/ Crowley County/ Otero County/ Bent County/ Prowers County/ Las Animas County/ Baca County/ Montezuma County/ Archuleta County/ Colorado Plateau/

COLORADO PLATEAU

COLORADO PLATEAU

- Scott, R. C., and Barker, F. B., 1962
data/ uranium/ radium/ ground water/ analyses/
Logan County/ Phillips County/ Prowers County/
Yuma County/ Jefferson County/ Garfield County/
Kit Carson County/ Pitkin County/ Mesa County/
Huerfano County/ Baca County/ Montezuma County/
Front Range/ Colorado Plateau/
- Sears, R. S., Marjanleml, D. K., and Blomquist,
J. T., 1974
Colorado/ computers/ data processing/ exploration/
geology/ iron/ maps/ New Mexico/ petroleum/
potassium/ radioactivity/ rocks/ stratigraphy/
thorium/ uranium/ ore deposits/ minerals/ well
logging/ Morrison Formation/ San Juan basin/
Archuleta County/ La Plata County/ sandstone/
Colorado Plateau/
- Seldel, D. C., and Kuhn, T. H., 1961
Colorado/ vanadium/ study/ bibliography/ Colorado
Plateau/ sandstone/
- Senffle, F. E., 1956
Colorado Plateau/ Isotopes/ uranium/ ore deposits/
- Senffle, F. E., Stieff, L. R., Cuttitta, Frank,
and others, 1956
U-235/ U-238/ sandstone/ Isotopes/ radium/ Colorado
Plateau/ ore deposits/ Montrose County/
- Senffle, F. E., Stieff, L. R., Cuttitta, Frank,
and others, 1957
U-238/ U-235/ ore deposits/ Colorado Plateau/
Isotopes/ radium/ Montrose County/ sandstone/
- Shawe, D. R., 1955
San Miguel County/ Dolores County/ Slick Rock
district/ sandstone/ Colorado Plateau/ ore deposits/
geology/
- Shawe, D. R., 1955
Slick Rock district/ San Miguel County/ Dolores
County/ sandstone/ Colorado Plateau/ ore deposits/
geology/
- Shawe, D. R., 1956
alteration/ Colorado Plateau/ ore deposits/
deposition/ uranium/ vanadium/ Colorado/ sandstone/
- Shawe, D. R., 1956
roll fronts/ sandstone/ Garfield County/ Rifle
mine/ Colorado Plateau/ genesis/ uranium/ vanadium/
ore deposits/ geology/
- Shawe, D. R., 1962
Colorado Plateau/ ore localization/ Uravan district/
sedimentation/ uranium/ vanadium/ Morrison Formation/
sandstone/ carbonaceous materials/ Mesa County/
Montrose County/ San Miguel County/ Dolores
County/ ore deposits/
- Shawe, D. R., 1966
uranium/ vanadium/ roll fronts/ tabular ore/
ore deposits/ zoning/ elements/ Colorado Plateau/
Montrose County/ Garfield County/ sandstone/
- Shawe, D. R., 1968
fossils/ lithology/ Mancos Shale/ Slick Rock
district/ San Miguel County/ shale/ Colorado
Plateau/
- Shawe, D. R., 1968
Slick Rock district/ ore deposits/ Chinle Formation/
Morrison Formation/ San Miguel County/ Dolores
County/ petrography/ sandstone/ uranium/ vanadium/
Colorado Plateau/
- Shawe, D. R., 1969
ore deposits/ minerals/ Utah/ Uravan district/
exploration/ Montrose County/ San Miguel County/
Dolores County/ uranium/ vanadium/ sandstone/
Morrison Formation/ Colorado Plateau/
- Shawe, D. R., 1970
geology/ tectonics/ ore deposits/ Slick Rock
district/ structure/ San Miguel County/ Dolores
County/ salt anticlines/ uranium/ vanadium/
sandstone/ Colorado Plateau/
- Shawe, D. R., 1973
Slick Rock district/ ore deposits/ red beds/
alteration/ deposition/ genesis/ vanadium/ uranium/
sandstone/ carbonaceous materials/ San Miguel
County/ Mancos Shale/ Morrison Formation/ pore
waters/ Colorado Plateau/
- Shawe, D. R., 1974
alteration/ red beds/ uranium/ vanadium/ ore
deposits/ Colorado Plateau/ Slick Rock district/
San Miguel County/ sandstone/ Mancos Shale/
Morrison Formation/ carbonaceous material/ Dolores
County/ genesis/ deposition/ pore waters/
- Shawe, D. R., 1976
alteration/ Slick Rock district/ San Miguel
County/ Dolores County/ sandstone/ uranium/
vanadium/ Morrison Formation/ Chinle Formation/
Colorado Plateau/
- Shawe, D. R., 1976
geologic history/ Slick Rock district/ Colorado
Plateau/ Dolores County/ sandstone/ tectonics/
uranium/ San Miguel County/ vanadium/
- Shawe, D. R., and Archbold, N. L., 1958
San Miguel County/ sandstone/ Morrison Formation/
Summerville Formation/ Slick Rock district/
Colorado Plateau/ geology/ map/
- Shawe, D. R., and Granger, H. C., 1965
uranium ore/ rolls/ Rifle district/ Uravan district/
Colorado Plateau/ sandstone/ Entrada Sandstone/
Garfield County/ Mesa County/ Montrose County/
San Miguel County/ Dolores County/ Morrison
Formation/
- Shawe, D. R., and others, 1956
San Miguel County/ Dolores County/ sandstone/
Cougar mine/ Slick Rock district/ Colorado Plateau/
ore deposits/ geology/
- Shawe, D. R., Archbold, N. L., Boudette, E. L.,
and others, 1954
Colorado Plateau/ reserves/ exploration/ sandstone/
uranium/ vanadium/ Morrison Formation/ Salt
Wash Member/ Disappointment Valley/ Legln area/

- Spud Patch area/ Slick Rock district/ San Miguel County/ ore deposits/
- Shawe, D. R., Archbold, N. L., and Simmons, G. C., 1958
 Colorado Plateau/ geology/ uranium/ vanadium/ ore deposits/ Slick Rock district/ San Miguel County/ Dolores County/ County/ sandstone/ genesis/ Morrison Formation/
- Shawe, D. R., Archbold, N. L., and Simmons, G. C., 1959
 Colorado Plateau/ geology/ uranium/ vanadium/ ore deposits/ Slick Rock district/ San Miguel County/ Dolores County/ sandstone/ genesis/ Morrison Formation/
- Shawe, D. R., Archbold, N. L., Boudette, E. L., and others, 1978
 sandstone/ Colorado Plateau/ San Miguel County/ Slick Rock district/ uranium/ vanadium/ ore deposits/ Dolores County/
- Shawe, D. R., Simmons, G. C., and Rogers, William, 1956
 San Miguel County/ Dolores County/ Slick Rock district/ sandstone/ Colorado Plateau/ geology/ ore deposits/
- Shawe, D. R., Simmons, G. C., and Archbold, N. L., 1957
 San Miguel County/ Dolores County/ Slick Rock district/ sandstone/ Colorado Plateau/ ore deposits/
- Shawe, D. R., Simmons, G. C., and Archbold, N. L., 1968
 stratigraphy/ Slick Rock district/ San Miguel County/ Dolores County/ sandstone/ Morrison Formation/ uranium/ vanadium/ Chinle Formation/ Colorado Plateau/
- Shearer, S. D., Jr., and Sill, C. W., 1969
 atmospheric radiation/ contamination/ enrichment/ environment/ meteorology/ mining/ populations/ radiation doses/ residues/ safety/ sampling/ uranium/ zones/ radon-222/ seasons/ Colorado Plateau/ diurnal variation/ hazards/ radiation hazards/ Utah/ mill tailings/ sandstone/ Mesa County/ La Plata County/
- Shoemaker, E. M., 1950
 minerals/ carnotite/ Colorado Plateau/ geology/ Paradox district/ Uravan district/ Jo Dandy area/ exploration/ drilling/ Jo Dandy mines/ Monogram mines/ Opera Box mines/ Thunderbolt mines/ Montrose County/ production/ reserves/ resources/ sandstone/ ore deposits/ Morrison Formation/ Salt Wash Member/ uranium/ vanadium/
- Shoemaker, E. M., 1951
 structure/ Sinbad Valley anticline/ Fisher Valley anticline/ salt anticlines/ Mesa County/ Montrose County/ sandstone/ Utah/ Colorado Plateau/
- Shoemaker, E. M., 1952
 Mesa County/ Montrose County/ Sinbad Valley anticline/ Fisher Valley anticline/ salt anticlines/ sandstone/ Utah/ Colorado Plateau/
- Shoemaker, E. M., 1954
 Utah/ Colorado/ New Mexico/ Arizona/ Colorado Plateau/ structural features/ Uncompahgre uplift/ tectonics/ San Miguel County/ Montrose County/ Dolores County/ Montezuma County/ Delta County/ diatremes/ La Plata County/ sandstone/ geology/ guidebook/ Mesa County/ Igneous-metamorphic/
- Shoemaker, E. M., 1954
 Colorado Plateau/ ore deposits/ geochemistry/ sandstone/ Colorado/ elements/ Igneous-metamorphic/ laccoliths/
- Shoemaker, E. M., 1954
 Uravan district/ Mesa County/ Juanita Arch quadrangle/ geology/ ore guides/ minerals/ carnotite/ mines/ Maverick mines/ sandstone/ Morrison Formation/ Salt Wash Member/ stratigraphy/ Brushy Basin Member/ conglomerate/ copper/ silver/ ore deposits/ mineralogy/ Colorado Plateau/
- Shoemaker, E. M., 1954
 Montrose County/ Roc Creek quadrangle/ Colorado Plateau/ sandstone/ geology/
- Shoemaker, E. M., 1955
 Montrose County/ Roc Creek quadrangle/ stratigraphy/ Colorado Plateau/ Uravan district/ structure/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Wingate Sandstone/ Kayenta Formation/ Entrada Sandstone/ Rajah mine/ Radium Cycle mine/ Carpenter Ridge/ Carpenter Flats/ copper/ silver/ shear zones/ geology/ map/
- Shoemaker, E. M., 1955
 Mesa County/ Juanita Arch quadrangle/ stratigraphy/ Colorado Plateau/ carnotite/ structure/ Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ sandstone/ conglomerate/ Maverick mines/ Depression mines/ Uravan district/ geology/ map/
- Shoemaker, E. M., 1955
 Mesa County/ Juanita Arch quadrangle/ stratigraphy/ structure/ Colorado Plateau/ carnotite/ Morrison Formation/ Salt Wash Member/ Brushy Basin Member/ sandstone/ conglomerate/ Maverick mines/ Depression mines/ Uravan district/ geology/ map/
- Shoemaker, E. M., 1955
 Colorado Plateau/ sandstone/ elements/ correlation/
- Shoemaker, E. M., 1956
 Montrose County/ Roc Creek quadrangle/ Colorado Plateau/ Uravan district/ stratigraphy/ structure/ carnotite/ Morrison Formation/ Salt Wash Member/ sandstone/ Wingate Sandstone/ Kayenta Formation/ Radium Cycle mine/ Carpenter Ridge/ copper/ silver/ shear zones/ geology/ map/ Chinle Formation/ Entrada Rajah mine/ Carpenter Flats/
- Shoemaker, E. M., 1956
 structural features/ Colorado Plateau/ ore deposits/ veins/ Moffat County/ Rio Blanco County/ La Plata County/ uranium/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ San Juan County/ Ouray County/ sandstone/ Montezuma County/ Dolores County/ Archuleta County/

- Shoemaker, E. M., and Luedke, R. G., 1952
 Colorado Plateau/ map/ uranium/ ore deposits/
 sandstone/ Moffat County/ Rio Blanco County/
 Mesa County/ Delta County/ Montrose County/
 San Miguel County/ Dolores County/ Ouray County/
 Montezuma County/ La Plata County/ Garfield
 County/
- Shoemaker, E. M., and Newman, W. L., 1953
 Montezuma County/ La Plata County/ taccolith/
 stratigraphy/ Colorado Plateau/ Igneous-metamorphic/
 Ute Mountains/
- Shoemaker, E. M., and Newman, W. L., 1957
 Moenkopi Formation/ salt anticlines/ sandstone/
 Montrose County/ San Miguel County/ Dolores
 County/ geology/ Colorado Plateau/ Utah/ Mesa
 County/
- Shoemaker, E. M., Miesch, A. T., Newman, W. L.,
 and others, 1955
 Colorado Plateau/ elements/ analyses/ sandstone/
 ore classification/ ore composition/ uranium/
 ore deposits/
- Shoemaker, E. M., Miesch, A. T., Newman, W. L.,
 and others, 1959
 sandstone/ elements/ Triassic/ Jurassic/ Morrison
 Formation/ vanadium/ Chinle Formation/ Colorado
 Plateau/
- Shoemaker, E. M., Newman, W. L., and Miesch, A.
 T., 1957
 element sources/ sandstone/ uranium/ Colorado
 Plateau/ copper/ lead/ nickel/ host formations/
 maps/ ore deposits/ genesis/
- Shumway, G. L., 1970
 uranium industry/ Colorado Plateau/ history/
 sandstone/ San Miguel County/ Dolores County/
 Montrose County/
- Simmons, G. C., 1957
 Burro Canyon Formation/ Slick Rock district/
 San Miguel County/ stratigraphy/ sandstone/
 Colorado Plateau/
- Simmons, G. C., 1957
 sandstone/ Burro Canyon Formation/ Dakota Sandstone/
 formation contacts/ Slick Rock district/ correlation/
 fossils/ Dolores County/ San Miguel County/
 geology/ stratigraphy/ Colorado Plateau/
- Simmons, G. C., 1957
 Dakota Sandstone/ stratigraphy/ Slick Rock district/
 correlation/ Burro Canyon Formation/ sandstone/
 San Miguel County/ Dolores County/ Colorado
 Plateau/ geology/
- Simmons, G. C., Shawe, D. R., and Rogers, W. B., 1956
 Horse Range Mesa/ Hamm Canyon/ Colorado Plateau/
 exploration/ sandstone/ ore deposits/ uranium/
 vanadium/ Morrison Formation/ Salt Wash Member/
 Slick Rock district/ San Miguel County/ Disappointment
 Valley area/
- Singewald, Q. D., Christman, R. A., and others, 1956
 Custer County/ Fremont County/ McKinley Mountain
 area/ Igneous-metamorphic/ geology/ radiometrics/
 maps/ City/ Colorado Plateau/ Gilpin County/
 metamorphic/ ore deposits/ Colorado/ sandstone/
 Front Range/
- Singleton, A. L., Jr., 1968
 maps/ descriptions/ photos/ uranium/ mining
 operations/ milling operations/ Colorado/ Colorado
 Plateau/ nuclear fuel sources/
- Skeet, T. H., 1962
 vanadium/ Colorado/ Colorado Plateau/ sandstone/
- Smith, C. T., 1946
 geology/ geologic ore deposits/ Montrose County/
 vanadium/ stratigraphy/ exploration/ uranium/
 mineralization/ Uravan district/ stratigraphy/
 San Miguel Plateau/ San Miguel County/ sandstone/
 Mesa County/ Colorado Plateau/
- Smith, C. T., 1946
 geology/ uranium/ ore deposits/ White River
 uplift/ vanadium/ geography/ exploration/ mining/
 maps/ tables/ Rifle mine/ Grand Hogback district/
 Garfield County/ Entrada Sandstone/ sandstone/
 Colorado Plateau/
- Smith, C. T., 1955
 Colorado Plateau/ ore deposits/ uranium/ San
 Miguel County/ Montrose County/ Mesa County/
 sandstone/ geology/
- Smith, C. T., 1960
 Colorado Plateau/ sandstone/ history/ uranium/
 mining/ geology/ Paradox basin/
- Solster, P. E., Conklin, D. R., and Bowman, M.
 D., 1956
 Colorado/ New Mexico/ Utah/ Arizona/ United
 States/ bibliography/ trace element reports/
 uranium/ vanadium/ thorium/ sandstone/ Colorado
 Plateau/ Front Range/ Igneous-metamorphic/
- Spirakis, C. S., 1976
 semipermeable membranes/ ore deposits/ genesis/
 vanadium/ uranium/ sandstone/ Rifle mine/ Garfield
 mine/ Garfield County/ geochemistry/ Colorado
 Plateau/ Entrada Sandstone/
- Spirakis, C. S., 1977
 Rifle mine/ Garfield mine/ ore deposits/ uranium/
 vanadium/ sandstone/ Garfield County/ genesis/
 Colorado Plateau/ semipermeable membranes/ Entrada
 Sandstone/
- Spirakis, C. S., 1977
 Garfield County/ uranium/ vanadium/ ore deposits/
 Entrada Sandstone/ sandstone/ geochemistry/
 Rifle mine/ Garfield mine/ ore genesis/ Colorado
 Plateau/ semipermeable membranes/
- Spitz, H. B., Cohen, N., and Wrenn, M. E., 1975
 air samplers/ human health/ building materials/
 daughter products/ environment/ lead/ radiation
 monitoring/ radon/ uranium ores/ Mesa County/
 Grand Junction/ Colorado Plateau/
- Stager, H. K., 1949
 Mesa County/ carnotite/ uranium/ production/

- ore deposits/ Calamity Mesa/ reserves/ resources/
sandstone/ government leases/ Colorado Plateau/
- Stager, H. K., 1950
uranium/ vanadium/ Mesa County/ exploration/
drilling/ Calamity claims/ Colorado Plateau/
Outlaw Mesa/ sandstone/ ore deposits/ geology/
carnotite/ Morrison Formation/ Salt Wash Member/
Uravan district/ reserves/
- Stager, H. K., 1950
Colorado Plateau/ carnotite/ Calamity Mesa/
ore deposits/ Mesa County/ exploration/ drilling/
ore guides/ Maverick group area/ Sunflower claim/
production/ uranium/ vanadium/ reserves/ resources/
sandstone/ Morrison Formation/ Salt Wash Member/
- Stager, H. K., 1951
ore guides/ vanadium/ Mesa County/ exploration/
drilling/ Calamity group/ geology/ minerals/
carnotite/ ore deposits/ Colorado Plateau/ uranium/
production/ reserves/ resources/ sandstone/
Morrison Formation/ Salt Wash Member/
- Stager, H. K., 1952
Colorado Plateau/ drilling/ sandstone/ Morrison
Formation/ Salt Wash Member/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ ore
deposits/ reserves/ La Sal Creek district/ Paradox
Valley district/
- Stager, H. K., 1953
Gypsum Valley district/ La Sal Creek area/ Montrose
County/ San Miguel County/ Colorado Plateau/
drilling/ exploration/ ore deposits/ reserves/
sandstone/ uranium/ vanadium/
- Stager, H. K., 1970
maps/ exploration/ drilling/ sandstone/ Calamity
Mesa/ Mesa County/ Colorado Plateau/
- Stephens, H. G., 1950
Long Park area/ minerals/ carnotite/ geology/
ore deposits/ Uravan district/ Mesa County/
Montrose County/ exploration/ drilling/ reserves/
resources/ sandstone/ Salt Wash Member/ Colorado
Plateau/ uranium/ vanadium/ Morrison Formation/
- Stephens, H. G., 1951
Long Park area/ Montrose County/ reserves/ resources/
sandstone/ Colorado Plateau/ ore deposits/ uranium/
vanadium/ Morrison Formation/
- Stephens, H. G., and Cramer, M. A., 1951
reserves/ Long Park area/ Montrose County/ sandstone/
Colorado Plateau/ ore deposits/ uranium/ vanadium/
Morrison Formation/
- Stephens, H. G., and Ekren, E. B., 1952
uranium/ vanadium/ Colorado Plateau/ sandstone/
exploration/ ore deposits/ reserves/ drilling/
Long Park area/ Montrose County/ geology/ carnotite/
Morrison Formation/ Salt Wash Member/
- Stephens, H. G., and Newman, W. L., 1951
Long Park area/ Montrose County/ exploration/
drilling/ reserves/ resources/ sandstone/ Colorado
Plateau/ Morrison Formation/ ore deposits/ uranium/
vanadium/
- Stern, T. W., and Stieff, L. R., 1953
Colorado Plateau/ Larimer County/ Mesa County/
minerals/ coffinite/ Copper King mine/ La Sal
No. 2 mine/ sandstone/ Front Range/ Igneous-metamorphic/
- Stern, T. W., and Stieff, L. R., 1956
age determination/ Colorado Plateau/ Mesa County/
uranium/ Montrose County/ San Miguel County/
Bob Tall mine/ Jo Dandy mines/ Radium No. 6
mine/ Calamity mines/ radiocolloids/ radium/
genesis/ Club mines/ sandstone/ ore deposits/
- Stern, T. W., and Stieff, L. R., 1959
radium/ uranium/ equilibrium/ age dates/ minerals/
Colorado Plateau/ sandstone/
- Stern, T. W., Stieff, L. R., Girhard, M. N., and
Meyrowitz, Robert, 1954
age determinations/ Colorado Plateau/ Calamity
Mesa/ Paradox district/ sandstone/ Mesa County/
Montrose County/ Jo Dandy mines/ May Day mine/
Parco mine/ Small Spot mine/ Yellow Cat mines/
mineralogy/ metatyuyamunite/
- Stern, T. W., Stieff, L. R., and Sherwood, A. M.,
1955
coffinite/ uranium/ ore deposits/ Colorado Plateau/
sandstone/ Larimer County/ Copper King mine/
mineralogy/ chemistry/ Front Range/ veins/ Montrose
County/ Igneous-metamorphic/
- Stern, T. W., Stieff, L. R., Girhard, M. N., and
Meyrowitz, Robert, 1956
Colorado Plateau/ Mesa County/ metatyuyamunite/
uranium/ vanadium/ x-ray analyses/ geochemistry/
sandstone/ mineralogy/
- Stern, T. W., Stieff, L. R., Evans, H. T., Jr.,
and Sherwood, A. M., 1957
doloresite/ vanadium oxides/ Colorado Plateau/
Montrose County/ Mesa County/ sandstone/ La
Sal mine/ Morrison Formation/ Corvusite mine/
Matchless mine/ Black Mama mine/ Arrowhead mine/
Lumsden mine/ Golden Cycle mine/ J.J. mine/
Peanut mine/ x-ray analyses/ geochemistry/ mineralogy/
- Stern, T. W., Stieff, L. R., Evans, H. T., Jr.,
and Sherwood, A. M., 1957
doloresite/ vanadium oxides/ Colorado Plateau/
Montrose County/ Mesa County/ sandstone/ La
Sal mine/ Morrison Formation/ Corvusite mine/
Matchless mine/ Arrowhead mine/ Lumsden mine/
Golden Cycle mine/ J.J. mine/ Peanut mine/ x-ray
analyses/ geochemistry/ mineralogy/ Black Mama
mine/
- Stewart, J. H., 1953
exploration/ Colorado Plateau/ Moon Mesa area/
Mesa County/ Montrose County/ ore deposits/
sandstone/ Morrison Formation/ geology/ reserves/
carnotite/ Salt Wash Member/ drilling/ uranium/
vanadium/ Horse Mesa area/

- Stewart, J. H., 1953
 Colorado Plateau/ geology/ ore deposits/ ore guides/ drilling/ Mesa County/ Montrose County/ Moon Mesa area/ Horse Mesa area/ production/ uranium/ vanadium/ resources/ reserves/ minerals/ carnotite/ Black Jumbo claims/ sandstone/ Morrison Formation/ Salt Wash Member/
- Stewart, J. H., 1955
 Colorado Plateau/ sandstone/ stratigraphy/ Triassic studies/ Arizona/ Colorado/ Nevada/ Utah/ ore deposits/
- Stewart, J. H., 1956
 Colorado Plateau/ sandstone/ Triassic studies/ stratigraphy/ ore deposits/
- Stewart, J. H., 1956
 geology/ stratigraphy/ Triassic/ uranium/ Colorado Plateau/ Utah/ Colorado/ sandstone/ Chinle Formation/
- Stewart, J. H., and Wilson, R. F., 1960
 Dolores County/ San Miguel County/ Montrose County/ Chinle Formation/ sandstone/ Moenkopi Formation/ Wingate Sandstone/ correlation/ Triassic/ Colorado Plateau/ salt anticlines/ Paradox basin/
- Stewart, J. H., Mullens, T. E., and Williams, G. A., 1954
 Dolores County/ Mesa County/ Montrose County/ Isopach maps/ Colorado Plateau/ sandstone/ Morrison Formation/ stratigraphy/ Cutler Formation/ Hoskinsin tongue/ Moenkopi formation/ Utah/ Arizona/
- Stewart, J. H., Poole, F. G., and Wilson, R. F., 1956
 Colorado Plateau/ Triassic studies/ sandstone/ correlation/ stratigraphy/ ore deposits/
- Stewart, J. H., Poole, F. G., and Wilson, R. F., 1957
 Triassic studies/ cross-strata studies/ sandstone/ Colorado Plateau/ stratigraphy/
- Stewart, J. H., Poole, F. G., and Wilson, R. F., 1958
 Triassic studies/ sandstone/ Colorado Plateau/ stratigraphy/ correlation/ ore deposits/
- Stewart, J. H., Poole, F. G., and Wilson, R. F., 1958
 stratigraphy/ genesis/ lithologic units/ Triassic/ Colorado Plateau/ shale/ sandstone/ limestone/
- Stewart, J. H., Poole, F. G., and Wilson, R. F., 1972
 U.S. Geol. Survey Prof. Paper 691
- Stewart, J. H., Poole, F. G., Wilson, R. F., and others, 1972
 stratigraphy/ genesis/ Colorado Plateau/ Chinle Formation/ Triassic strata/ sandstone/ conglomerate/ petrology/ shale/
- Stewart, J. H., Williams, G. A., Albee, H. F., and others, 1956
 stratigraphy/ Triassic rocks/ Colorado Plateau/ sandstone/ Moenkopi Formation/ Chinle Formation/ Wingate Sandstone/
- Stewart, J. H., Williams, G. A., Albee, H. F., and others, 1959
 stratigraphy/ Triassic/ Colorado Plateau/ Chinle Formation/ sandstone/ ore deposits/ sedimentary structure/ lithofacies/ San Miguel County/ Dolores County/ sedimentary petrology/
- Stieff, L. R., 1948
 carnotite/ Colorado Plateau/ sandstone/ ore deposits/ mineralogy/
- Stieff, L. R., 1948
 Colorado Plateau/ mineralogy/ carnotite/ ore deposits/ Garfield County/ Montrose County/ sandstone/
- Stieff, L. R., 1949
 carnotite/ mineralogy/ Colorado Plateau/ ore deposits/ sandstone/
- Stieff, L. R., 1949
 Colorado Plateau/ carnotite/ ore deposits/
- Stieff, L. R., and Erickson, E. S., Jr., 1953
 concentrators/ sandstone/ Colorado Plateau/ uranium/ low grade ores/ ore deposits/
- Stieff, L. R., and Stern, T. W., 1951
 age determination/ Colorado Plateau/ genesis/ sandstone/ uranium/ Front Range/ conglomerate/ lead-uranium ratio/ uraninite/ Shinarump conglomerate/ Shinarump Member/ Moenkopi Formation/
- Stieff, L. R., and Stern, T. W., 1952
 age determination/ Colorado Plateau/ genesis/ sandstone/ ore deposits/ uranium/ Front Range/ conglomerate/ lead-uranium ratio ages/ uraninite/ Shinarump Member/
- Stieff, L. R., and Stern, T. W., 1952
 age determination/ Colorado Plateau/ genesis/ sandstone/ ore deposits/ uranium/ Front Range/ conglomerate/ lead-uranium ratio/ uraninite/ Shinarump Member/ Moenkopi Formation/
- Stieff, L. R., and Stern, T. W., 1953
 Colorado Plateau/ sandstone/ isotopes/ geology/ ore deposits/
- Stieff, L. R., and Stern, T. W., 1953
 age dating/ uraninite/ Triassic/ Jurassic/ sediments/ Colorado Plateau/ Colorado/ sandstone/
- Stieff, L. R., and Stern, T. W., 1953
 Colorado Plateau/ isotopes/ geology/ sandstone/ ore deposits/
- Stieff, L. R., and Stern, T. W., 1953
 Colorado Plateau/ isotopes/ lead/ mineralogy/ sandstone/
- Stieff, L. R., and Stern, T. W., 1953
 age determination/ Colorado Plateau/ Front Range/ uraninite/ host formations/ Morrison Formation/ Shinarump Member/ Chinle Formation/ sandstone/ conglomerate/
- Stieff, L. R., and Stern, T. W., 1954
 isotopic composition/ Colorado Plateau/ genesis/ lead minerals/ isotopes/ mineralogy/ sandstone/

- Stieff, L. R., and Stern, T. W., 1959
uranium/ Colorado Plateau/ genesis/ age dating/
Colorado/ isotopes/ ore deposits/ sandstones/
- Stieff, L. R., Girhard, M. N., and Stern, T. W., 1949
Colorado Plateau/ age determination/ radioactivity/
equilibrium/ carnotite/ sandstone/ ore deposits/
radioactive equilibrium/
- Stieff, L. R., Girhard, M. N., and Stern, T. W., 1950
Colorado Plateau/ age determination/ carnotite/
sandstone/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1952
Colorado Plateau/ age dating/ uranium/ ore deposits/
Pb-U ratio/ Pb-Pb ratio/ sandstone/ uranium/
genesis/ Front Range/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1953
age dating/ uranium/ ore deposits/ Colorado
Plateau/ sandstone/ lead-uranium ratios/ Mesa
County/ Montrose County/ San Miguel County/
San Juan County/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1953
Colorado Plateau/ age determination/ sandstone/
uranium/ San Juan County/ Mesa County/ Delta
County/ Montrose County/ San Miguel County/
La Plata County/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1955
Uravan district/ Jefferson County/ Larimer County/
Mesa County/ Montrose County/ San Miguel County/
coffinite/ Copper King mine/ La Sal No. 2 mine/
Matchless mine/ Old Leyden coal mine/ Peanut
mine/ Robinson property/ pyrobitumins/ Weatherly
property/ Wild Steer mine/ veins/ sandstone/
Cutler Formation/ Dolores Formation/ mineralogy/
Laramie Formation/ Morrison Formation/ Salt
Wash Member/ igneous-metamorphic/ Colorado Plateau/
Front Range/
- Stieff, L. R., Stern, T. W., and Milkey, R. G., 1956
Front Range/ coffinite/ uranium/ silicates/
Colorado Plateau/ Copper King mine/ Larimer
County/ Arrowhead mine/ Mesa County/ Jefferson
County/ Montrose County/ San Miguel County/
geochemistry/ x-ray analyses/ mineralogy/ sandstone/
Igneous-metamorphic/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/
Colorado Plateau/ Larimer County/ Arrowhead
mine/ Mesa County/ Jefferson County/ Montrose
County/ x-ray analyses/ San Miguel County/ sandstone/
Copper King mine/ geochemistry/ igneous-metamorphic/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/
Copper King mine/ Larimer County/ Arrowhead
mine/ Mesa County/ Jefferson County/ x-ray analyses/
Montrose County/ San Miguel County/ geochemistry/
Colorado Plateau/ sandstone/ igneous-metamorphic/
- Stokes, W. L., 1944
Morrison Formation/ Colorado Plateau/ sandstone/
stratigraphy/ correlation/ Garfield County/
Mesa County/ Delta County/ Gunnison County/
Montrose County/ Ouray County/ Dolores County/
Hinsdale County/ Archuleta County/ Montezuma
County/ La Plata County/ ore deposits/ San Juan
County/
- Stokes, W. L., 1948
Utah/ Colorado/ geology/ salt domes/ Gypsum
Valley district/ structure/ sandstone/ Morrison
Formation/ genesis/ road logs/ Colorado Plateau/
San Miguel County/
- Stokes, W. L., 1952
Colorado Plateau/ fossils/ stratigraphy/ Mesa
County/ correlation/ San Miguel County/ sandstone/
- Stokes, W. L., 1953
Colorado Plateau/ ore deposits/ mineralization/
Jurassic/ Morrison Formation/ Salt Wash Member/
tectonism/ Utah/ sedimentary features/ organic
material/ Blanding district/ San Rafael area/
sandstone/
- Stokes, W. L., 1953
Colorado Plateau/ ore deposits/ sedimentary
patterns/ mineralization/ Jurassic/ Morrison
Formation/ uranium/ Colorado/ genesis/ sandstone/
- Stokes, W. L., 1954
Colorado Plateau/ ore deposits/ genesis/ Jurassic/
fluvial sediments/ cyclical deposition/ Morrison
Formation/ Jurassic/ stratigraphy/ Colorado/
sandstone/
- Stokes, W. L., 1954
Colorado Plateau/ stratigraphy/ sedimentary
relations/ structural relations/ ore deposits/
Jurassic/ Morrison Formation/ Salt Wash Member/
sandstone/
- Stokes, W. L., 1958
Colorado Plateau/ sandstone/ continental sediments/
Montrose County/ sandstone/ lead-uranium ratios/
Mesa County/ San Miguel County/ San Juan County/
- Stokes, W. L., 1960
fluvial sandstone/ eolian sandstone/ Colorado
Plateau/ sedimentary structures/ sandstone/
- Stokes, W. L., and Fischer, R. P., 1945
vanadium/ sandstone/ Mesa County/ Gateway district/
Colorado Plateau/ ore deposits/
- Stokes, W. L., and Phoenix, D. A., 1948
Montrose County/ San Miguel County/ geology/
oil/ gas/ sections/ stratigraphy/ Egnar-Gypsum
Valley area/ Salt Wash Member/ structure/ structural
history/ sandstone/ Colorado Plateau/ Morrison
Formation/
- Stokes, W. L., Russell, R. T., Fischer, R. P.,
and Butler, A. P., Jr., 1945
Mesa County/ Colorado/ Utah/ Gateway district/
uranium/ ore deposits/ vanadium/ Calamity Group
claims/ sandstone/ Tenderfoot Mesa/ carnotite/
production/ Salt Wash Member/ Morrison Formation/
Colorado Plateau/ geology/ map/

- Strobell, J. D., Jr., 1953
Colorado Plateau/ ore distribution/ sandstone/
Gateway district/ ore deposits/ Mesa County/
- Strobell, J. D., Jr., 1953
Colorado Plateau/ ore distribution/ sandstone/
grade distribution/ ore deposits/
- Strobell, J. D., Jr., Sample, R. D., Stephens,
H. G., and Gilbert, C. C., 1954
Mesa County/ Montrose County/ sandstone/ Colorado
Plateau/ statistical measures/ average deposit
size/ uranium/ ore deposits/ Morrison Formation/
Salt Wash Member/ Gateway district/ Uravan district/
- Stugard, Frederick, Jr., Wyant, D. G., and Gude,
A. J., 3d, 1951
uranium/ ore deposits/ United States/ Colorado
Plateau/ Front Range/ sandstone/ igneous-metamorphic/
- Stugard, Frederick, Jr., Wyant, D. G., and Gude,
A. J., 3d, 1952
veins/ uranium/ secondary deposits/ United States/
Central City district/ Colorado Plateau/ Gilpin
County/ ore deposits/ igneous-metamorphic/ sandstone/
Front Range/
- Swanson, V. E., 1956
marine black shales/ uranium/ United States/
distribution/ shale/ Sedgwick County/ Colorado
Plateau/ Pierre Shale/ Sharon Springs Member/
Hermosa Formation/ Paradox Member/
- Swanson, V. E., 1956
marine black shales/ uranium/ United States/
distribution/ shale/ Sedgwick County/ Colorado
Plateau/ Pierre Shale/ Sharon Springs Member/
Paradox Member/ Hermosa Formation/
- Swanson, V. E., 1960
oil yield/ uranium/ black shale/ Green River
Formation/ Moffat County/ Rio Blanco County/
shale/ Colorado Plateau/
- Tavelli, J. A., 1951
Colorado Plateau/ sandstone/ airborne radiometrics/
San Miguel County/ Montrose County/ Dolores
County/ Montezuma County/ New Mexico/ Arizona/
Utah/ exploration/ instrumentation/ Mesa County/
- Thaden, R. E., and Kirk, A. R., 1975
sandstone/ district studies/ uranium/ resources/
La Plata County/ Archuleta County/ San Juan
basin/ stratigraphy/ Montezuma County/ Colorado
Plateau/
- Theobald, P. K., Jr., 1971
geology/ map/ Craig quadrangle/ sandstone/ Moffat
County/ Colorado Plateau/
- Theobald, P. K., Jr., and Chew, R. T., 3d, 1955
Maybell-Lay area/ Moffat County/ limestone/
sandstone/ stratigraphy/ Browns Park Formation/
geology/ ore deposits/ Colorado/ Wyoming/ Utah/
Miller Hill/ Baggs/ Colorado Plateau/
- Thomas, Kirby, 1912
Colorado/ vanadium/ Colorado Plateau/ sandstone/
- Thompson, C. E., and Lakin, H. W., 1957
chromatography/ uranium/ soils/ rocks/ Colorado
Plateau/ exploration/ sandstone/ analyses/
- Thompson, M. E., and Roach, C. H., 1955
mineralogy/ Peanut mine/ Montrose County/ sandstone/
Morrison Formation/ uranium/ vanadium/ Colorado
Plateau/
- Thompson, M. E., and Roach, C. H., 1955
mineralogy/ Peanut mine/ Montrose County/ uranium/
vanadium/ Morrison Formation/ sandstone/ Bull
Canyon district/ Colorado Plateau/
- Thompson, M. E., and Sherwood, A. M., 1959
deliroite/ vanadium/ Jo Dandy mine/ Montrose
County/ Morrison Formation/ sandstone/ x-ray
analyses/ geochemistry/ Colorado Plateau/ strontium/
mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R.,
1956
duttonite/ vanadium/ minerals/ type locality/
sandstone/ Montrose County/ Peanut mine/ Colorado
Plateau/ mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R.,
1956
duttonite/ Montrose County/ Peanut mine/ vanadium/
mineralogy/ sandstone/ Colorado Plateau/
- Thompson, M. E., Roach, C. H., and Braddock, W.
A., 1956
selenium/ Peanut mine/ Montrose County/ South
Dakota/ Dakota/ sandstone/ Colorado Plateau/
mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R.,
1957
simplotite/ vanadium/ Colorado Plateau/ San
Miguel County/ Montrose County/ geochemistry/
Morrison Formation/ x-ray analyses/ Peanut mine/
Sundown claim/ mineralogy/ sandstone/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R.,
1957
sherwoodite/ vanadium/ sandstone/ Colorado Plateau/
Mesa County/ Montrose County/ San Miguel County/
Matchless mine/ Peanut mine/ Fall Creek mine/
Morrison Formation/ Entrada Sandstone/ geochemistry/
x-ray analyses/ mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R.,
1957
duttonite/ vanadium/ Peanut mine/ Montrose County/
sandstone/ geochemistry/ x-ray analyses/ Colorado
Plateau/ mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R.,
1958
simplotite/ vanadium/ Colorado Plateau/ San
Miguel County/ Montrose County/ geochemistry/
x-ray analyses/ analysis/ Peanut mine/ Sundown
claim/ Morrison Formation/ sandstone/ mineralogy/
- Thompson, M. E., Roach, C. H., and Meyrowitz, R.,
1958
sherwoodite/ vanadium/ sandstone/ Colorado Plateau/

- San Miguel County/ Mesa County/ Montrose County/
Matchless mine/ Peanut mine/ Fall Creek mine/
Morrison Formation/ Entrada Sandstone/ geochemistry/
x-ray analyses/ mineralogy/
- Tom, C. W., 1966
Verdure quadrangle/ Utah/ San Miguel County/
Dolores County/ Montezuma County/ Colorado Plateau/
sandstone/ ore deposits/ economic map/ resources/
- Torrey, J. D., and Jacoe, P. W., 1955
alpha sources/ Colorado/ control/ health hazards/
mining/ polonium/ radon/ toxicity/ uranium mines/
ventilation/ Colorado Plateau/ sandstone/
- Trace, R. D., 1949
San Miguel County/ Radium claims/ Egnar area/
drilling/ Colorado Plateau/ sandstone/ Radium
group/
- Trace, R. D., 1950
Colorado Plateau/ uranium/ vanadium/ Egnar area/
exploration/ drilling/ ore guides/ Radium group/
conglomerate/ carnotite/ Radium mines/ production/
reserves/ resources/ Brushy Basin Member/ sandstone/
Morrison Formation/ Salt Wash Member/ San Miguel
County/
- Trace, R. D., 1950
reserves/ resources/ Club Mesa area/ Montrose
County/ analyses/ Colorado Plateau/ ore deposits/
geology/ Morrison Formation/ sandstone/
- Trace, R. D., 1950
reserves/ resources/ Club Mesa area/ Montrose
County/ Colorado Plateau/ ore deposits/ geology/
Morrison Formation/ sandstone/
- Trace, R. D., 1950
Georgetown group/ San Miguel County/ Veta Glad
claim/ Veta Mad claim/ sandstone/ reserves/
resources/ Colorado Plateau/ ore deposits/ uranium/
vanadium/ Morrison Formation/
- Trace, R. D., 1950
Georgetown group/ San Miguel County/ Morrison
Formation/ reserves/ resources/ Georgeto claim/
sandstone/ Colorado Plateau/ ore deposits/ uranium/
vanadium/
- Trace, R. D., 1950
Club Mesa area/ Montrose County/ reserves/ resources/
sandstone/ ore deposits/ Colorado Plateau/ uranium/
vanadium/ Morrison Formation/
- Trace, R. D., 1950
Morrison Formation/ Outlaw Mesa area/ Mesa County/
reserves/ resources/ Colorado Plateau/ sandstone/
ore deposits/ uranium/ vanadium/
- Trace, R. D., 1950
reserves/ resources/ Club Mesa area/ Montrose
County/ Colorado Plateau/ ore deposits/ geology/
sandstone/ Morrison Formation/
- Trace, R. D., 1950
Club Mesa area/ Montrose County/ reserves/ resources/
sandstone/ Colorado Plateau/ geology/ ore deposits/
Morrison Formation/
- Trace, R. D., 1952
San Miguel County/ Slick Rock district/ uranium/
vanadium/ reserves/ resources/ sandstone/ Morrison
Formation/ geology/ Colorado Plateau/ drilling/
ore deposits/ Salt Wash Member/
- Tripp, R. M., 1956
Colorado Plateau/ ore deposits/ exploration/
sandstone/
- Trites, A. F., Jr., and others, n.d.
Colorado/ salt anticlines/ investigations/ geology/
White Canyon/ Utah/ Colorado Plateau/ sandstone/
- Trotter, James, and Barnes, W. H., 1958
vanadinite/ vanadium/ structure/ crystallography/
mineralogy/ Colorado Plateau/ sandstone/
- Tyzack, C., 1959
vanadium/ chemistry/ extraction/ Colorado Plateau/
sandstone/
- U.S. Atomic Energy Commission, and U.S. Geological
Survey, 1951
uranium/ exploration/ Colorado/ Colorado Plateau/
sandstone/ ore deposits/
- U.S. Atomic Energy Commission, and U.S. Geological
Survey, 1956
prospecting/ sandstone/ Colorado Plateau/ uranium/
thorium/ techniques/ geology/ exploration/ Front
Range/ igneous-metamorphic/ Colorado/ United
States/
- U.S. Atomic Energy Commission, 1959
uranium/ geology/ exploration/ United States/
mining/ uranium mines/ mineralogy/ Colorado
Plateau/ bibliography/ guidebook/ sandstone/
Colorado/ ore deposits/ igneous-metamorphic/
Front Range/
- U.S. Atomic Energy Commission, 1966
airborne reconnaissance/ Arkansas/ Colorado/
Montana/ Texas/ Utah/ Colorado Plateau/ Montezuma
County/ Moffat County/ San Miguel County/ sandstone/
- U.S. Atomic Energy Commission, 1966
uranium concentrates/ sampling/ samplers/ Grand
Junction/ Mesa County/ sandstone/ Colorado Plateau/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Dolores County/ reconnaissance/
ore deposits/ Colorado Plateau/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Garfield County/ reconnaissance/
ore deposits/ sandstone/ Colorado Plateau/ Entrada
Sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic
geology/ mining engineering/ petrology/ minerals/
radioactivity/ Mesa County/ reconnaissance/
ore deposits/ sandstone/ Colorado Plateau/

- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Moffat County/ reconnaissance/ ore deposits/ sandstone/ Colorado Plateau/ Browns Park Formation/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Montezuma County/ reconnaissance/ ore deposits/ Colorado Plateau/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Montrose County/ reconnaissance/ ore deposits/ sandstone/ Colorado Plateau/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Ouray County/ reconnaissance/ ore deposits/ spring deposits/ Igneous-metamorphic/ Colorado Plateau/ San Juan Mountains/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ San Miguel County/ sandstone/ Colorado Plateau/ ore deposits/ reconnaissance/
- U.S. Atomic Energy Commission, 1969
geology/ mineralogy/ ore deposits/ AEC reports/ uranium/ document types/ information retrieval/ Front Range/ bibliography/ Colorado Plateau/
- U.S. Atomic Energy Commission, 1972
Uravan district/ Colorado Plateau/ road logs/ maps/ stratigraphy/ historical notes/ sandstone/ Mesa County/ San Miguel County/ Montrose County/
- U.S. Atomic Energy Commission, 1972
air pollution/ Colorado/ contamination/ ore deposits/ environment/ land pollution/ milling/ mining/ New Mexico/ uranium/ U.S. Atomic Energy Commission/ Utah/ vanadium/ water pollution/ leasing/ sandstone/ Colorado Plateau/
- U.S. Bureau Land Management, 1971
uranium/ mining/ regulations/ state level/ Colorado Plateau/ land use/ federal level/ leases/ sandstone/ environment/
- U.S. Bureau of Radiological Health, 1969
Colorado/ atmosphere/ human populations/ ore processing/ radiation doses/ radiation hazards/ radiation monitoring/ radioactive waste disposal/ radioactive wastes/ tailings/ radioactivity/ radon-222/ uranium/ Utah/ sandstone/ U.S. Census Bureau/ Colorado Plateau/ ore deposits/
- U.S. Department of Energy, 1977
engineering assessment/ inactive uranium mill tailings/ Maybell site/ Moffat County/ sandstone/ Colorado Plateau/
- U.S. Department of Energy, 1977
engineering assessment/ inactive uranium mill tailings/ Rifle site/ Garfield County/ Rifle district/ sandstone/ Colorado Plateau/
- U.S. Department of Energy, 1977
engineering assessment/ inactive uranium mill tailings/ Grand Junction site/ Mesa County/ Colorado Plateau/ sandstone/
- U.S. Department of Energy, 1977
engineering assessment/ inactive uranium mill tailings/ Naturita site/ Montrose County/ Colorado Plateau/ sandstone/
- U.S. Department of Energy, 1977
engineering assessment/ inactive uranium mill tailings/ Slick Rock sites/ San Miguel County/ Colorado Plateau/ sandstone/
- U.S. Energy Research and Development Administration, 1976
resources/ United States/ uranium districts/ sandstone/ Igneous-metamorphic/ Colorado Plateau/ geology/ veins/ Great Plains/ Front Range/ Rocky Mountains/ NURE program/
- U.S. Environmental Protection Agency, 1972
sampling/ milling/ radium-226/ polonium-210/ lead-210/ thorium/ uranium/ content/ hazard analysis/ alpha particles/ beta particles/ water/ wastes/ radioactivity/ Colorado/ surface waters/ Colorado River basin/ radium monitoring/ Colorado Plateau/
- U.S. Environmental Protection Agency, 1973
water pollution/ uranium/ ores deposits/ tailings/ radium isotopes/ statistical analyses/ thorium/ Colorado/ Utah/ Colorado Plateau/ Arizona/ lead isotopes/ polonium-210/ graphs (charts)/ New Mexico/ Colorado River basin/ water quality/
- U.S. Environmental Protection Agency, 1973
Colorado River/ basin/ lead isotopes/ polonium-210/ radiation monitoring/ radium-26/ statistics/ thorium/ uranium/ water pollution/ Colorado/ Colorado Plateau/ surface water/ quantity ratio/
- U.S. Geological Survey, 1947
Colorado Plateau/ mill capacity/ uranium/ vanadium/ production/ potential/ reserves/ resources/ sandstone/ ore deposits/
- U.S. Geological Survey, 1948
Green River Formation/ oil shale/ radioactivity/ Garfield County/ Colorado Plateau/
- U.S. Geological Survey, 1950
shales/ radioactivity/ carbonaceous shales/ Jefferson County/ Rio Blanco County/ oil shale/ Front Range/ Colorado Plateau/ bituminous shales/
- U.S. Geological Survey, 1952
Colorado Plateau/ isotopes/ geology/ sandstone/ geophysical investigations/ ground water/ Triassic rocks/ reserves/ resources/ Igneous-metamorphic/ uranium/ vanadium/ stratigraphy/ Cenozoic rocks/ Morrison Formation/ trace elements/

- U.S. Geological Survey, 1953
geology/ San Miguel County/ Uravan district/
sandstone/ Colorado Plateau/ Powderhorn district/
Igneous-metamorphic/ exploration/ Slick Rock
district/ Gypsum Valley district/ Morrison Formation/
Gateway district/ Mesa County/ Montrose County/
Dolores County/ Spud Patch area/ Legln group/
Monogram Mesa/ Club Mesa/ carnotite/ ore deposits/
Gunnison County/
- U.S. Geological Survey, 1953
sandstone/ Colorado Plateau/ Front Range/ veins/
Igneous-metamorphic/ thorium/ Powderhorn district/
natural waters/ Morrison Formation/ Mesa County/
San Miguel County/ Dolores County/ Gilpin County/
San Juan County/ La Plata County/ Ouray County/
geology/ Gunnison County/ Montrose County/ San
Juan Mountains/ Clear Creek County/ ore deposits/
- U.S. Geological Survey, 1953
geologic mapping/ Colorado Plateau/ Front Range/
carbonaceous rocks/ geochemistry/ reconnaissance/
black shales/ sandstone/ Igneous-metamorphic/
geology/ ore deposits/ Gilpin County/ Clear
Creek County/ Jefferson County/ Montrose County/
Mesa County/ San Miguel County/ Gunnison County/
- U.S. Geological Survey, 1953
Colorado Plateau/ Front Range/ sandstone/ coal/
springs/ Igneous-metamorphic/ shale/ Gilpin
County/ Clear Creek County/ Jefferson County/
Boulder County/ Custer County/ thorium/ Gunnison
County/ La Plata County/ San Juan County/ Ouray
County/
- U.S. Geological Survey, 1953
Colorado Plateau/ veins/ Front Range/ Morrison
Formation/ Triassic studies/ mineralogy/ petrology/
analyses/ sandstone/ Igneous-metamorphic/ permeability/
geophysics/ gamma-ray logs/ ground water studies/
trace elements/
- U.S. Geological Survey, 1953
Cenozoic studies/ Colorado Plateau/ sandstone/
- U.S. Geological Survey, 1954
Clear Creek County/ Gilpin County/ ore deposits/
reserves/ Colorado Plateau/ exploration/ sandstone/
Mesa County/ Montrose County/ San Miguel County/
Garfield County/ Moffat County/ Dolores County/
Rio Blanco County/ Front Range/ Igneous-metamorphic/
Jefferson County/ pitchblende/ hydrogeochemical
exploration/ stream sediments/ ground water/
mine waters/
- U.S. Geological Survey, 1954
Colorado Plateau/ geophysics/ Front Range/ sandstone/
mineralogy/ coal/ shales/ reconnaissance/ petrology/
stratigraphy/ sandstone/ Igneous-metamorphic/
geology/ ore deposits/
- U.S. Geological Survey, 1954
Colorado Plateau/ sandstone/ Mesa County/ Montrose
County/ San Miguel County/ Dolores County/ ore
deposits/ Morrison Formation/ geology/ Chinle
Formation/ Shinarump Member/ reserves/ San Juan
Mountains/ snow/ surface water/ ground water/
- Ouray County/ San Juan County/ conglomerate/
Igneous-metamorphic/ Front Range/
- U.S. Geological Survey, 1954
Front Range/ Colorado Plateau/ stratigraphy/
botanical prospecting/ mineralogy/ Ralston Buttes
district/ black shale/ reconnaissance/ analyses/
Jefferson County/ sandstone/ Igneous-metamorphic/
- U.S. Geological Survey, 1954
Colorado Plateau/ Montrose County/ Mesa County/
Dolores County/ Montezuma County/ drilling/
logging/ data/ analyses/ sandstone/ maps/ Morrison
Formation/ San Miguel County/
- U.S. Geological Survey, 1955
Beaver Mesa/ Disappointment Valley/ Front Range/
Jo Dandy area/ La Sal Creek area/ Monogram Mesa/
exploration/ drilling/ Ralston Buttes district/
Uravan district/ Montrose County/ San Miguel
County/ Mesa County/ Jefferson County/ Colorado
Plateau/ sandstone/ Igneous-metamorphic/
- U.S. Geological Survey, 1955
Front Range/ Golden Gate Canyon area/ Uravan
district/ exploration/ drilling/ Colorado Plateau/
Jefferson County/ San Miguel County/ Montrose
County/ Mesa County/ Dolores County/ sandstone/
Igneous-metamorphic/ Ralston Buttes district/
- U.S. Geological Survey, 1955
Colorado Plateau/ Front Range/ sandstone/ geologic
mapping/ veins/ carbonaceous rocks/ geochemistry/
reconnaissance/ analyses/ Igneous-metamorphic/
Mesa County/ Montrose County/ Dolores County/
San Miguel County/ Montezuma County/ Fremont
County/ Jefferson County/
- U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ veins/ geologic
mapping/ mineralogy/ petrology/ geophysics/
carbonaceous rocks/ analyses/ sandstone/ San
Miguel County/ Dolores County/ Montrose County/
Montezuma County/ Jefferson County/ Mesa County/
Igneous-metamorphic/
- U.S. Geological Survey, 1956
Colorado Plateau/ mapping/ geology/ geophysics/
mineralogy/ vanadium/ carbonaceous rocks/ petrology/
San Miguel County/ sandstone/ Igneous-metamorphic/
Dolores County/ Montrose County/ Montezuma County/
Jefferson County/ Front Range/ Mesa County/
Fremont County/
- U.S. Geological Survey, 1956
Colorado Plateau/ Front Range/ geology/ geophysics/
mineralogy/ research/ sandstone/ San Miguel
County/ Igneous-metamorphic/ Dolores County/
Montrose County/ Mesa County/ Montezuma County/
Jefferson County/ Fremont County/
- U.S. Geological Survey, 1957
drilling/ Colorado Plateau/ sandstone/ reserves/
sections/ geology/ exploration/ ore deposits/
Mesa County/ Dolores County/ San Miguel County/
Montrose County/

- U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geochemistry/ geophysics/ thorium/ ore deposits/ sandstone/ Igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Gilpin County/ Clear Creek County/
- U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geophysics/ mineralogy/ research/ San Miguel County/ Montrose County/ sandstone/ Igneous-metamorphic/ Mesa County/ Clear Creek County/ Gilpin County/ ore deposits/
- U.S. Geological Survey, 1958
Colorado Plateau/ mapping/ geophysics/ Clear Creek County/ geochemistry/ Maybell-Lay area/ Front Range/ Gilpin County/ research/ thorium/ Moffat County/ sandstone/ Mesa County/ San Miguel County/ Montrose County/ Igneous-metamorphic/
- U.S. Geological Survey, 1958
Colorado Plateau/ geophysics/ geochemistry/ Gilpin County/ research/ Front Range/ thorium/ reconnaissance/ Mesa County/ sandstone/ Clear Creek County/ Montrose County/ San Miguel County/ Igneous-metamorphic/
- U.S. Geological Survey, 1959
Colorado Plateau/ geologic mapping/ geophysics/ sandstone/ ore deposits/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/
- U.S. Geological Survey, 1959
Colorado Plateau/ Lisbon Valley district/ mapping/ research/ thorium/ sandstone/ geophysics/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/
- U.S. Geological Survey, 1970
sandstone/ Gypsum Valley district/ Montrose County/ San Miguel County/ maps/ drilling/ exploration/ Colorado Plateau/
- U.S. Geological Survey, 1970
maps/ drilling/ exploration/ sandstone/ Atkinson Mesa/ Dolores Bench area/ Uravan district/ Montrose County/ Colorado Plateau/
- U.S. Geological Survey, 1970
maps/ drilling/ exploration/ sandstone/ Long Park area/ Uravan district/ Montrose County/ Colorado Plateau/
- U.S. Geological Survey, 1970
maps/ drilling/ exploration/ sandstone/ Outlaw Mesa area/ Gateway district/ Mesa County/ Colorado Plateau/
- U.S. Geological Survey, 1971
maps/ exploration/ drilling/ Slick Rock district/ sandstone/ San Miguel County/ Colorado Plateau/
- U.S. Geological Survey, 1971
map/ aeromagnetics/ Colorado Plateau/ sandstone/ Utah/ Colorado/ Arizona/ San Miguel County/ Montrose County/ Mesa County/
- U.S. Geological Survey,, 1971
Colorado/ minerals/ Colorado Plateau/ Front Range/ sandstone/ Igneous-metamorphic/ map/
- Umbach, P. H., 1952
exploration/ Colorado Plateau/ sandstone/ uranium/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/
- United Nations, 1956
uranium/ thorium/ geology/ ore deposits/ geochemistry/ Isotope geology/ Front Range/ Colorado Plateau/ sandstone/ Igneous-metamorphic/
- United Nations, 1958
geology/ uranium/ chemistry/ Colorado Plateau/ ore deposits/ isotopes/ geochemistry/ isotope geology/ thorium/ sandstone/
- Updegraff, D. M., 1969
microorganisms/ uranium/ ore deposits/ Wyoming/ Colorado/ ore composition/ abundance/ Colorado Plateau/ bacteria/ fungi/ populations/ variations/ sediments/ sandstone/ geochemistry/ New Mexico/
- Utah Geological Society, 1954
Colorado/ Utah/ ore deposits/ geology/ uranium/ sandstone/ New Mexico/ Arizona/ minerals/ Colorado Plateau/ Thompson district/ Lisbon Valley district/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Big Indian district/
- Van Voorhis, B. W., Jr., 1945
ore deposits/ vanadium oxides/ vanadium/ geological surveys/ uranium/ prospecting/ reserves/ stratigraphy/ geology/ uranium oxides/ Dolores Plateau/ sandstone/ Dolores County/ San Miguel County/ Colorado Plateau/ Dolores River district/
- Vanderwilt, J. W., 1947
minerals/ resources/ Colorado/ uranium/ thorium/ sandstone/ Colorado Plateau/ Front Range/ Igneous-metamorphic/
- Vickers, R. C., compiler, 1951
bibliography/ trace element reports/ uranium/ vanadium/ thorium/ beryllium/ Colorado Plateau/ Front Range/ sandstone/ Igneous-metamorphic/
- Vine, J. D., and Flege, R. F., Jr., 1953
ore deposits/ exploration/ carbonaceous rocks/ Colorado/ Utah/ Idaho/ Wyoming/ coal/ Moffat County/ Garfield County/ Eagle County/ Mesa County/ Colorado Plateau/ sandstone/ coal/ shale/ Jackson County/ Montrose County/
- Vine, J. D., and Moore, G. W., 1952
Middle Park/ North Park/ Grand County/ Jackson County/ Moffat County/ Rio Blanco County/ Routt County/ coal/ carbonaceous rocks/ Wyoming/ occurrences/ Idaho/ Colorado/ Colorado Plateau/ ore deposits/ sandstone/
- Vine, J. E., 1956
geology/ uranium/ Tertiary basins/ Wyoming/ North Dakota/ South Dakota/ Colorado/ Moffat County/ Colorado Plateau/ Washakie basin/ sandstone/ Great Plains/ genesis/

- Vogel, J. D., 1957
Klondike Ridge/ uranium/ vanadium/ copper/ manganese/
Colorado Plateau/ San Miguel County/ Gypsum
Valley/ Morrison Formation/ sandstone/ veins/
limestone/
- Vogel, J. D., 1960
geology/ ore deposits/ Klondike Ridge/ uranium/
vanadium/ copper/ manganese/ Colorado Plateau/
San Miguel County/ Gypsum Valley district/ Morrison
Formation/ sandstone/ veins/ limestone/
- Vogel, J. D., and Elston, D. P., 1953
Colorado Plateau/ reserves/ ore deposits/ Jo
Dandy area/ Montrose County/ Morrison Formation/
Salt Wash Member/ drilling/ sandstone/ uranium/
vanadium/
- Vogel, J. D., and Elston, D. P., 1953
Colorado Plateau/ Jo Dandy area/ Montrose County/
ore deposits/ exploration/ sandstone/ reserves/
Morrison Formation/ Salt Wash Member/ drilling/
uranium/ vanadium/ Paradox Valley district/
- Vogel, J. D., and Elston, D. P., 1954
Mineral Joe mine/ Colorado Plateau/ reserves/
exploration/ sandstone/ ore deposits/ uranium/
vanadium/ Salt Wash Member/ Jo Dandy area/ Montrose
County/ Morrison Formation/
- Vogel, J. D., and Elston, D. P., 1954
Colorado Plateau/ reserves/ exploration/ sandstone/
ore deposits/ uranium/ vanadium/ Morrison Formation/
Salt Wash Member/ Jo Dandy area/ Montrose County/
- Walker, G. W., and Adams, J. W., 1957
Boulder County/ Larimer County/ Clear Creek
County/ Central City district/ Gilpin County/
Caribou mine/ Front Range/ Jefferson County/
Placerville district/ San Miguel County/ Colorado
Plateau/ ore deposits/ Marshall Pass/ Saguache
County/ Copper King mine/ sandstone/ mineralogy/
veins/ textures/ structures/ paragenesis/ Los
Ochos mine/ Schwartzwalder mine/ igneous-metamorphic/
- Walker, G. W., and Adams, J. W., 1963
Boulder County/ Larimer County/ Placerville
district/ Central City district/ Gilpin County/
Clear Creek County/ Front Range/ Jefferson County/
Schwartzwalder mine/ San Miguel County/ Colorado
Plateau/ Copper King mine/ Saguache County/
ore deposits/ Caribou mine/ Los Ochos mine/
sandstone/ Colorado/ mineralogy/ igneous-metamorphic/
textures/ structures/ paragenesis/
- Walker, G. W., and Osterwald, F. W., 1956
ore deposits/ veins/ fluorite/ Front Range/
Gilpin County/ coal/ Jefferson County/ Placerville
district/ San Miguel County/ Clear Creek County/
sandstone/ igneous-metamorphic/ Colorado Plateau/
Cochetopa district/ Saguache County/ Powderhorn
district/ Custer County/ Chaffee County/
- Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ geology/ Front Range/ Gilpin
County/ Jefferson County/ sandstone/ Boulder
County/ San Miguel County/ igneous-metamorphic/
Colorado Plateau/ Saguache County/ Custer County/
- Chaffee County/ Clear Creek County/ Jamestown
district/ Cochetopa district/ Powderhorn district/
Placerville district/
- Wallace, R. M., 1955
Montrose County/ Bull Canyon district/ sandstone/
geology/ Colorado Plateau/ ore deposits/
- Wallace, R. M., 1957
Monogram Mesa/ Jo Dandy area/ Bull Canyon district/
Colorado Plateau/ reserves/ drilling/ exploration/
sandstone/ ore deposits/ uranium/ vanadium/
Morrison Formation/ Salt Wash Member/ Montrose
County/ San Miguel County/ Dry Creek basin/
- Wallace, R. M., and Roach, C. H., 1956
Dry Creek basin/ ore deposits/ exploration/
Jurassic/ Morrison Formation/ Bull Canyon district/
Montrose County/ San Miguel County/ Colorado
Plateau/ sandstone/ geology/
- Wallace, R. M., and Santos, E. S., 1956
Colorado Plateau/ ore deposits/ exploration/
Montrose County/ San Miguel County/ Jurassic/
Morrison Formation/ diamond drilling/ Jo Dandy
area/ Dry Creek basin/ sandstone/ Bull Canyon
district/
- Wantland, Dart, 1955
Colorado Plateau/ geophysics/ seismic refraction/
uranium/ exploration/ sandstone/
- Wardwell, H. R., 1948
uranium/ ore deposits/ exploration/ geology/
stratigraphy/ mining/ mineralogy/ vanadium/
minerals/ reserves/ Coyote Mesa district/ Dolores
Plateau/ sandstone/ Colorado Plateau/ San Miguel
County/ Dolores County/
- Warren, C. G., and Granger, H. C., 1973
pyrite/ ore stage/ growth/ deposit maturity/
ore deposits/ roll-type uranium deposits/ sandstone/
oxidation/ uranium/ supergene enrichment/ Colorado
Plateau/
- Waters, A. C., and Granger, H. C., 1952
Colorado Plateau/ Uravan district/ Dolores mines/
volcanic debris/ sandstone/ genesis/ Georgetown
group/ precipitation/ San Miguel County/ Montrose
County/
- Waters, A. C., and Granger, H. C., 1953
Colorado Plateau/ ore deposits/ genesis/ volcanic
debris/ sandstone/ precipitation/ uranium/
- Waters, A. C., and Granger, H. C., 1953
uranium/ sandstone/ volcanic debris/ Triassic
formations/ Jurassic formations/ Colorado Plateau/
- Webber, B. N., 1943
uranium/ ore deposits/ geology/ stratigraphy/
topography/ geological surveys/ mineralization/
White River uplift/ Rio Blanco County/ sandstone/
Colorado Plateau/ Oak Ridge fold district/
- Webber, B. N., 1943
Colorado Plateau/ uranium/ ore deposits/ geology/
carnotite/ sandstone/ stratigraphy/ vanadium/
uranium/ reserves/ Coal Creek anticline/ White

- River uplift/ Rio Blanco County/ mineralization/ maps/ Coal Creek anticline district/
- Webber, B. N., 1944
uranium/ ore deposits/ maps/ geology/ Colorado Plateau/ mineralization/ Grand Hogback district/ White River uplift/ Rio Blanco County/ Garfield County/ sandstone/
- Webber, B. N., 1947
geology/ Colorado/ uranium/ ore deposits/ vanadium/ lithology/ stratigraphy/ geological surveys/ reserves/ Colorado Plateau/ resources/ sandstone/
- Weeks, A. D., 1951
ore deposits/ Jurassic/ Morrison Formation/ clay studies/ Calamity Mesa/ Mesa County/ Montrose County/ mineralogy/ petrology/ geochemistry/ clay (red and gray)/ sandstone/ Colorado Plateau/ Bitter Creek district/
- Weeks, A. D., 1952
Colorado Plateau/ alteration/ sandstone/ oxidation/ paragenesis/ ore deposits/ pitchblende/ roscoelite/ mineralogy/ Uravan district/ Chinle Formation/ Shinarump Member/ Morrison Formation/ uraninite/ Mesa County/ Dolores County/ Montrose County/ San Miguel County/
- Weeks, A. D., 1952
Colorado Plateau/ clay studies/ alteration/ ore deposits/ vanadium/ clay/ sandstone/ Colorado/ genesis/
- Weeks, A. D., 1952
mineralogy/ Colorado Plateau/ Colorado/ uranium/ vanadium/ ore identification/ minerals/ sandstone/
- Weeks, A. D., 1953
mineralogy/ petrology/ geochemistry/ Cretaceous/ claystone/ siltstone/ Colorado Plateau/ clay studies/ Utah/ Jurassic/ Dolores Group/ Dry Creek anticline/ sandstone/ Mesa County/ Montrose County/ Unaweep/ Escalante Forks/
- Weeks, A. D., 1954
Colorado Plateau/ ore deposits/ mineral assemblages/ mineral properties/ sandstone/
- Weeks, A. D., 1955
Colorado Plateau/ ore deposits/ mineral properties/ minerals/ sandstone/ mineralogy/
- Weeks, A. D., 1955
ore deposits/ geologic history/ uranium/ sandstone/ genesis/ oxidation/ Colorado Plateau/
- Weeks, A. D., 1956
Colorado Plateau/ mineralogy/ oxidation/ sandstone/ ore deposition/ uranium/ geology/
- Weeks, A. D., 1956
Uravan district/ ore deposits/ mineralogy/ sandstone/ Colorado Plateau/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/
- Weeks, A. D., 1956
Colorado Plateau/ ore deposits/ classification/
- oxidation/ mineralization/ mineralogy/ sandstone/ geology/
- Weeks, A. D., 1957
Colorado Plateau/ sandstone/ uranium/ ore deposits/ mineralogy/ Colorado/ Utah/
- Weeks, A. D., and Coleman, R. G., 1955
Colorado Plateau/ sandstone/ mineralogy/ ore deposits/ geology/
- Weeks, A. D., and Garrels, R. M., 1959
Colorado Plateau/ ore deposits/ resources/ geology/ reserves/ production/ sandstone/ geochemistry/ mineralogy/
- Weeks, A. D., and Riley, L. B., 1952
Colorado Plateau/ ore deposits/ ore guides/ mineralization/ mineralogy/ trace elements/ sandstone/
- Weeks, A. D., and Riley, L. B., 1953
Colorado Plateau/ sandstone/ mineralogy/ trace elements/
- Weeks, A. D., and Riley, L. B., 1953
Colorado Plateau/ sandstone/ mineralogy/ geology/ exploration/ ore deposits/
- Weeks, A. D., and Thompson, M. E., 1953
Colorado Plateau/ sandstone/ mineralogy/ vanadium/ minerals/ uranium/ mineral identification/
- Weeks, A. D., and Thompson, M. E., 1953
mineralogy/ ore deposits/ Colorado Plateau/ uranium/ vanadium/ copper/ Placerville district/ Rifle district/ Garfield County/ San Miguel County/ sandstone/
- Weeks, A. D., and Thompson, M. E., 1954
Colorado Plateau/ ore deposits/ uranium/ vanadium/ minerals/ mineralogy/ identification/ x-ray data/ Mesa County/ analyses/ Montrose County/ San Miguel County/ Dolores County/ sandstone/
- Weeks, A. D., and Truesdell, A. H., 1957
Uravan district/ sandstone/ Colorado Plateau/ mineralogy/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ ore deposits/
- Weeks, A. D., Cisney, E. A., and Sherwood, A. M., 1950
hummerite/ montroselite/ vanadium/ Montrose County/ sandstone/ Paradox Valley/ analyses/ minerals/ Colorado Plateau/
- Weeks, A. D., Cisney, E. A., and Sherwood, A. M., 1951
hummerite/ montroselite/ minerals/ Montrose County/ Colorado/ sandstone/ vanadium/ x-ray analyses/ Hummer mine/ Paradox Valley/ Colorado Plateau/
- Weeks, A. D., Cisney, E. A., and Sherwood, A. M., 1953
montroselite/ Montrose County/ Bitter Creek mine/ Jo Dandy mine/ Matchless mine/ Mesa County/ Colorado Plateau/ vanadium/ mineral properties/ geochemistry/ x-ray analyses/ sandstone/

- Weeks, A. D., Cisney, E. A., and Sherwood, A. M., 1953
 montroselite/ Montrose County/ Jo Dandy mine/
 Matchless mine/ Mesa County/ Bitter Creek mine/
 Colorado Plateau/ vanadium/ mineral properties/
 sandstone/ geochemistry/ x-ray analyses/
- Weeks, A. D., Coleman, R. G., and Thompson, M. E., 1956
 Colorado Plateau/ asphaltic rocks/ Atkinson
 Mesa/ Club Mesa/ Flat Top Mesa/ Jo Dandy area/
 Paradox district/ Placerville district/ Rifle
 district/ Slick Rock district/ Uravan/ Montrose
 County/ San Miguel County/ mineralogy/ petrology/
 geochemistry/ vanadium/ ore deposits/ Garfield
 mine/ roscoelite/ chemical analyses/ sandstone/
 Garfield County/
- Weeks, A. D., Coleman, R. G., and Thompson, M. E., 1959
 Colorado Plateau/ ore deposits/ mineralogy/
 oxidation/ vanadium/ sandstone/ uranium/ Moffat
 County/ Dolores County/ Garfield County/ Rio
 Blanco County/ Mesa County/ Delta County/ Montrose
 County/ San Miguel County/ Montezuma County/
 La Plata County/ Archuleta County/
- Weeks, A. D., Lindberg, M., and Meyrowitz, R., 1961
 grantsite/ vanadium/ mineral properties/ mineralogy/
 sandstone/ limestone/ Colorado Plateau/ Club
 Mesa/ Montrose County/ Atkinson Mesa/ Golden
 Cycle mine/ Morrison Formation/ ore deposits/
- Weeks, A. D., Lindberg, M., Truesdell, A. H., and
 others, 1964
 grantsite/ vanadium/ Golden Cycle mine/ La Salle
 mine/ Montrose County/ Morrison Formation/ sandstone/
 Colorado Plateau/ mineral properties/ geochemistry/
 x-ray analyses/ ore deposits/
- Weeks, A. D., Thompson, M. E., and Thompson, R. B., Jr., 1954
 Colorado Plateau/ minerals/ mineral associations/
 ore classification/ uranium/ Placerville district/
 San Miguel County/ sandstone/ ore deposits/
 Rifle district/ Garfield County/ Entrada Sandstone/
 Morrison Formation/
- Weeks, A. D., Truesdell, A. H., and Haffty, J., 1957
 ore boundary/ uranium/ diagenesis/ mineralization/
 Uravan district/ geochemistry/ paragenesis/
 Montrose County/ sandstone/ Colorado Plateau/
- Weir, D. B., 1951
 Colorado Plateau/ sandstone/ carnotite/ ore
 guides/ exploration/ ore deposits/ Morrison
 Formation/ Mesa County/ Montrose County/ San
 Miguel County/ Dolores County/ geology/
- Weir, D. B., 1951
 Morrison Formation/ Salt Wash Member/ lithology/
 sandstone/ sedimentary structure/ flow direction/
 Colorado/ cross lamination/ Colorado Plateau/
- Weir, D. B., 1952
 Colorado Plateau/ ore guides/ exploration/ carnotite/
 ore deposits/ Morrison Formation/ sandstone/
 Mesa County/ Montrose County/ San Miguel County/
 Dolores County/ geology/
- Weir, G. W., 1954
 Colorado Plateau/ sandstone/ Dolores anticline/
 San Miguel County/ Lisbon Valley area/ quadrangle
 mapping/ geology/ Utah/ ore deposits/
- Weir, G. W., 1955
 Lisbon Valley area/ quadrangle mapping/ Colorado
 Plateau/ sandstone/ San Miguel County/ Utah/
 geology/ ore deposits/
- Weir, G. W., 1955
 Lisbon Valley area/ quadrangle mapping/ Colorado
 Plateau/ sandstone/ Dolores anticline/ San Miguel
 County/ Utah/ geology/ ore deposits/
- Weir, G. W., 1956
 Utah/ Lisbon Valley area/ ore deposits/ mapping/
 Colorado Plateau/ sandstone/ Dolores anticline/
 geology/ San Miguel County/
- Weir, G. W., and Kennedy, V. C., Dodson, C. L.,
 and Puffett, W. P., 1957
 Utah/ Lisbon Valley area/ ore deposits/ geochemistry/
 mineralization/ mapping/ Colorado Plateau/ Dolores
 anticline/ sandstone/ San Miguel County/ geology/
- Weir, G. W., and Puffett, W. P., 1958
 Mount Peale quadrangle/ Lisbon Valley area/
 mapping/ Colorado Plateau/ sandstone/ Dolores
 anticline/ San Miguel County/ geology/ ore deposits/
- Weir, G. W., and Puffett, W. P., 1960
 uranium/ vanadium/ copper/ Lisbon Valley area/
 Utah/ San Miguel County/ Cutler Formation/ Chinle
 Formation/ Morrison Formation/ sandstone/ ore
 deposits/ Colorado Plateau/ Dolores anticline/
 igneous-metamorphic/
- Weir, G. W., and Puffett, W. P., 1960
 Utah/ San Miguel County/ Mount Peale 4 SE quadrangle/
 geology/ Burro Canyon Formation/ Morrison Formation/
 Salt Wash Member/ sandstone/ uranium/ vanadium/
 map/ Colorado Plateau/ stratigraphy/ section/
- Weir, G. W., Carter, W. D., Puffett, W. P., and
 others, 1960
 Utah/ San Miguel County/ Montrose County/ Colorado
 Plateau/ Mount Peale 4 NE quadrangle/ geology/
 stratigraphy/ section/ uranium/ vanadium/ Morrison
 Formation/ Salt Wash Member/ sandstone/ map/
- Weir, G. W., Puffett, W. P., and Kennedy, V. C., 1957
 Utah/ Lisbon Valley area/ ore deposits/ trace
 elements/ geochemistry/ zirconium/ sandstone/
 mines/ Colorado Plateau/ Plateau/ Dolores anticline/
 San Miguel County/
- Weir, J. E., and Dinwiddie, G. A., 1973
 Green River Formation/ Piceance Creek basin/
 drilling/ fluids/ ground water/ Rio Blanco County/
 oil shale/ shale/ exploration/ hydraulic testing/
 Colorado Plateau/
- Wengerd, S. A., and Lamsens, O. R., Jr., 1952
 bibliography/ Colorado/ Four Corners region/
 Colorado Plateau/ geology/ sandstone/

- Williams, G. A., 1953
Morrison Formation/ Colorado Plateau/ stratigraphy/
sandstone/ trace elements/
- Williams, G. A., 1953
stratigraphy/ Colorado Plateau/ sandstone/ Morrison
Formation/ geology/ ore deposits/
- Williams, G. A., 1953
stratigraphy/ sandstone/ Colorado Plateau/ geology/
Morrison Formation/ ore deposits/
- Williams, G. A., 1954
Morrison Formation/ sandstone/ stratigraphy/
Colorado Plateau/ geology/ ore deposits/
- Williams, G. A., 1954
Morrison Formation/ sandstone/ stratigraphy/
geology/ Colorado Plateau/ ore deposits/
- Williams, G. A., 1955
stratigraphy/ sandstone/ Morrison Formation/
Jurassic formations/ Tertiary formations/ ore
deposits/ Colorado Plateau/
- Williams, G. A., Cadigan, R. A., Albee, H. F.,
and Stewart, J. H., 1953
Colorado Plateau/ sandstone/ Tertiary formations/
stratigraphy/
- Williams, N. C., 1954
Colorado Plateau/ ore deposits/ popular and
elementary geology/ geology/ structure/ sandstone/
uranium/
- Wilmarth, V. R., 1951
thucholite/ Robinson property/ Placerville district/
Weatherly property/ asphaltite/ hydrocarbons/
pyrobitumens/ base metals/ precious metals/
veins/ fault breccia/ shear zone material/ limestone/
Dolores Formation/ ore deposits/ Colorado Plateau/
San Miguel County/ structure/ Cutler Formation/
sandstone/
- Wilmarth, V. R., and Hawley, C. C., 1958
San Miguel County/ Placerville district/ vanadium/
sandstone/ geology/ ore deposits/ Colorado Plateau/
Entrada Sandstone/
- Wilmarth, V. R., and Vickers, R. C., 1953
Colorado Plateau/ geology/ organic material/
sandstone/ shale/ San Miguel County/ Placerville
district/ minerals/ uranophane/ asphaltite/
hydrocarbons/ pyrobitumen/ thucholite/ Barbara
J claim/ ore deposits/ New Discovery lode/ Robinson
property/ Weatherly property/ White Spar claims/
Black King claims/ Cutler Formation/ economic
geology/ Dolores Formation/
- Willpolt, R. H., 1956
Colorado Plateau/ ore deposits/ exploration/
sandstone/
- Wilson, H. D., 1953
chromium/ vanadium/ titanium/ ore deposits/
geochemistry/ Colorado Plateau/ sandstone/
- Withington, C. F., 1949
Montrose County/ Paradox quadrangle/ Colorado
Plateau/ Uravan district/ carnotite/ structure/
stratigraphy/ Salt Wash Member/ sandstone/ Cashin
mine/ Cliff Dweller mine/ copper/ silver/ vanadium/
uranium/ Skein Mesa/ geology/ Morrison Formation/
- Withington, C. F., 1950
minerals/ carnotite/ Colorado Plateau/ geology/
Slick Rock district/ San Miguel County/ Upper
group area/ exploration/ drilling/ production/
reserves/ resources/ sandstone/ Morrison Formation/
Salt Wash Member/ uranium/ vanadium/ ore deposits/
- Withington, C. F., 1951
Colorado Plateau/ San Miguel County/ exploration/
drilling/ Upper group claims/ uranium/ production/
reserves/ resources/ vanadium/ Slick Rock/ geology/
minerals/ carnotite/ roscoelite/ sandstone/
Morrison Formation/ Salt Wash Member/
- Withington, C. F., 1954
Uravan district/ Montrose County/ Paradox quadrangle/
geology/ ore gildes/ minerals/ carnotite/ Cashin
mine/ Cliff Dweller mine/ genesis/ uranium/
ore deposits/ sandstone/ Morrison Formation/
Salt Wash Member/ stratigraphy/ Colorado Plateau/
- Withington, C. F., 1955
Colorado Plateau/ stratigraphy/ structure/ Salt
Wash Member/ sandstone/ carnotite/ copper/ silver/
vanadium/ uranium/ Wray Mesa/ Skein Mesa/ Cliff
Dweller mine/ Uravan district/ Cashin mine/
Morrison Formation/ Montrose County/ geology/
- Withington, C. F., 1955
Montrose County/ Paradox quadrangle/ Colorado
Plateau/ stratigraphy/ structure/ Morrison Formation/
geology/ Salt Wash Member/ sandstone/ carnotite/
vanadium/ uranium/ copper/ silver/ Skein Mesa/
Cashin mine/ Cliff Dweller mine/ Wray Mesa/
Uravan district/
- Withington, C. F., and Bush, A. L., 1950
carnotite/ geology/ exploration/ Colorado Plateau/
San Miguel County/ drilling/ Burro claim/ Ellison
claim/ production/ uranium/ vanadium/ reserves/
resources/ sandstone/ Morrison Formation/ Salt
Wash Member/
- Withington, C. F., and Hasler, J. W., n.d.
Montrose County/ San Miguel County/ Gypsum Valley
district/ exploration/ sandstone/ Colorado Plateau/
- Withington, C. F., and Scott, J. B., 1953
Colorado Plateau/ drilling/ exploration/ ore
deposits/ reserves/ Contact No. 4 claim/ Gypsum
Valley district/ San Miguel County/ sandstone/
Morrison Formation/ breccia/ uranium/ vanadium/
- Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/
ore deposits/ Jefferson County/ San Miguel County/
Saguache County/ Park County/ Boulder County/
Montrose County/ Moffat County/ sandstone/ Front
Range/ coal/ igneous-metamorphic/

- Wood, H. B., 1956
Colorado Plateau/ ore deposits/ genesis/ age/
environment/ production/ host rocks/ sandstone/
- Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/
sandstone/ production/ geology/ Boulder County/
Jefferson County/ Saguache County/ Park County/
Montrose County/ San Miguel County/ Moffat County/
coal/ igneous-metamorphic/ Front Range/
- Wood, H. B., 1968
geology/ ore deposits/ uranium/ Lisbon Valley
area/ Utah/ Colorado Plateau/ sandstone/ San
Miguel County/
- Wood, H. B., and Grundy, W. D., 1956
exploration guides/ exploration techniques/
Shinarump Formation/ channels/ Colorado Plateau/
uranium/ Moffat County/ Rio Blanco County/ Garfield
County/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ sandstone/
- Wood, H. B., and Lekas, M. A., 1958
uranium/ sandstone/ ore deposits/ Colorado Plateau/
Uruan district/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/
- Wood, H. B., and Lekas, M. A., 1958
Uruan district/ ore deposits/ sandstone/ uranium/
Colorado Plateau/ Dolores County/ San Miguel
County/ Montrose County/ Mesa County/
- Wright, J. C., 1955
Entrada Sandstone/ Jurassic/ sandstone/ stratigraphy/
Colorado/ Utah/ Colorado Plateau/ ore deposits/
geology/
- Wright, J. C., 1959
San Rafael Group/ Entrada Sandstone/ sandstone/
Colorado Plateau/ geology/ ore deposits/
- Wright, J. C., and Dickey, D. D., 1956
Entrada Sandstone/ sandstone/ San Rafael Group/
Colorado Plateau/ geology/ ore deposits/
- Wright, J. C., and Dickey, D. D., 1956
San Rafael Group/ Entrada Sandstone/ sandstone/
Colorado Plateau/ geology/ ore deposits/
- Wright, J. C., and Dickey, D. D., 1957
Entrada Sandstone/ sandstone/ San Rafael Group/
geology/ Colorado Plateau/ ore deposits/
- Wright, J. C., and Dickey, D. D., 1957
San Rafael Group/ Entrada Sandstone/ sandstone/
Colorado Plateau/ geology/ ore deposits/
- Wright, J. C., and Dickey, D. D., 1958
San Rafael Group/ Entrada Sandstone/ sandstone/
Colorado Plateau/ geology/ ore deposits/
- Wright, J. C., Shawe, D. R., and Lohman, S. W., 1962
Jurassic/ Entrada Sandstone/ Utah/ Colorado/
sandstone/ Colorado Plateau/ Montrose County/
Mesa County/ San Miguel County/
- Wright, R. J., 1953
uranium/ exploration/ Colorado/ Colorado Plateau/
sandstone/ ore deposits/ geiger counters/
- Wright, R. J., 1953
lithology/ ore controls/ sandstone/ uranium/
ore deposits/ Colorado Plateau/ Colorado/ genesis/
- Wright, R. J., 1955
Colorado Plateau/ ore deposits/ lithologic controls/
sandstone/ lithology/ ore controls/ genesis/
- Wright, R. J., 1955
Colorado Plateau/ ore deposits/ ore controls/
lithology/ sandstone/ genesis/ Moffat County/
Dolores County/ Rio Blanco County/ Garfield
County/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ La Plata County/
Archuleta County/
- Wright, R. J., 1955
Colorado Plateau/ ore deposits/ genesis/ uranium/
sandstone/
- Wright, R. J., and Everhart, D. L., 1960
ore deposits/ resources/ reserves/ Colorado
Plateau/ production/ sandstone/
- Wyant, D. G., and Fischer, W. A., 1957
Colorado Plateau/ geologic maps/ 2° sheets/
ore deposits/ geology/ sandstone/
- Wyant, D. G., Beroni, E. P., and Granger, H. C., 1951
Colorado Plateau/ uranium/ ore deposits/ conglomerate/
shale/ sandstone/
- Wyant, D. G., Beroni, E. P., and Granger, H. C., 1952
ore deposits/ uranium/ sandstone/ Colorado Plateau/
- Wyant, D. G., Fischer, W. A., O'Sullivan, R. B.,
and others, 1958
Colorado Plateau/ sandstone/ 2° sheets/ geology/
geologic maps/ ore deposits/
- Wyant, D. G., Fischer, W. A., O'Sullivan, R. B.,
and others, 1958
Colorado Plateau/ geologic mapping/ geologic
maps/ sandstone/ geology/ ore deposits/
- Wyman, R. V., 1970
Colorado Plateau/ ore deposits/ genesis/ geochemistry/
ground water/ uranium/ sandstone/
- Young, Neal, 1957
economic map/ ore deposits/ Mount Peale quadrangle/
Utah/ Colorado/ Montrose County/ San Miguel
County/ sandstone/ Colorado Plateau/ geology/
- Zalinski, E. R., 1908
vanadium/ San Miguel County/ igneous-metamorphic/
Colorado Plateau/ Telluride area/
- Zareski, G. K., 1954
Colorado/ Utah/ Wray Mesa/ ore deposits/ Morrison
Formation/ exploration/ reconnaissance/ Montrose
County/ stratigraphy/ structure/ Brushy Basin
Member/ Salt Wash Member/ sandstone/ carnotite/
uranium/ vanadium/ shale/ mudstone/ Colorado
Plateau/

Front Range

- Adams, J. W., 1953
Jefferson County/ ore deposits/ distribution/ gneiss/ genesis/ wallrock alteration/ Golden Gate Canyon/ Ralston Creek/ Igneous-metamorphic/ Front Range/
- Adams, J. W., 1953
Jefferson County/ ore deposits/ distribution/ uranium/ genesis/ wall rocks/ Golden Gate Canyon/ Ralston Buttes/ Schwartz mine (Schwartzwalder Mine)/ Igneous-metamorphic/ Front Range/
- Adams, J. W., 1954
Jefferson County/ ore deposits/ distribution/ genesis/ wallrock alteration/ uranium/ paragenesis/ Golden Gate Canyon/ Ralston Creek area/ hornblende gneiss/ Igneous-metamorphic/ Idaho Springs Formation/ copper/ Union Pacific prospect/ pitchblende/ Schwartzwalder mine/ Nigger shaft/ North Star property/ Front Range/
- Adams, J. W., and Sharp, W. N., 1970
thalenite/ White Cloud pegmatite/ South Platte district/ Jefferson County/ Igneous-metamorphic/ rare earths/ thorium/ Front Range/
- Adams, J. W., and Sharp, W. N., 1972
thalenite/ allanite/ yttrium/ Jefferson County/ rare earths/ thorium/ pegmatite/ White Cloud pegmatite/ Igneous-metamorphic/ South Platte district/ Front Range/
- Adams, J. W., and Staatz, M. H., 1973
rare earths/ thorium/ minerals/ resources/ Colorado/ Igneous-metamorphic/ Front Range/
- Adams, J. W., and Stugard, Frederick, Jr., 1953
Jefferson County/ ore deposits/ evaluation/ uranium/ Igneous-metamorphic/ Golden Gate Canyon/ hornblende gneiss/ paragenesis/ Front Range/
- Adams, J. W., and Stugard, Frederick, Jr., 1954
Front Range/ Golden Gate Canyon/ Jefferson County/ mineralogy/ petrology/ geochemistry/ breccia reefs/ wall-rock control/ minerals/ pitchblende/ Buckman property/ Golden Gate property/ Union Pacific prospect/ Laramide faults/ veins/ hornblende gneiss/ Igneous-metamorphic/
- Adams, J. W., and Stugard, Frederick, Jr., 1956
veins/ Jefferson County/ wall-rock control/ pitchblende/ uranium/ Golden Gate Canyon/ Union Pacific prospect/ Igneous-metamorphic/ Front Range/ ore deposits/
- Adams, J. W., and Stugard, Frederick, Jr., 1956
Jefferson County/ wall-rock control/ pitchblende/ uranium/ Golden Gate Canyon/ veins/ Union Pacific prospect/ Igneous-metamorphic/ ore deposits/ Front Range/
- Adams, J. W., and Stugard, Frederick, Jr., 1956
Golden Gate Canyon/ ore deposits/ wall-rock alteration/ stratigraphic controls/ Jefferson County/ veins/ Igneous-metamorphic/ Front Range/
- mineralogy/ petrology/ geochemistry/ breccia reefs/ genesis/ wall-rock influence/ Buckman property/ Union Pacific prospect/ hornblende gneiss/ Laramide faults/
- Adams, J. W., Gude, A. J., 3d, and Beroni, E. P., 1953
Jefferson County/ Golden Gate Canyon/ Ralston Creek/ pitchblende/ torbernite/ Buckman property/ Hoffmeister prospect/ North Star mine/ Schwartz mine (Schwartzwalder mine)/ Union Pacific prospect/ Ladwig properties/ shear zone/ geology/ ore deposits/ Front Range/ Igneous-metamorphic/ Golden Gate property/ Nigger shaft/ fault breccia/
- Adams, J. W., Gude, A. J., 3d, and Beroni, E. P., 1953
ore deposits/ Golden Gate Canyon area/ Ralston Creek area/ Jefferson County/ Igneous-metamorphic/ uranium/ occurrence/ Front Range/ genesis/ hornblende gneiss/ wall-rock alteration/ veins/ pitchblende/
- Adams, J. W., Hildebrand, F.A., and Havens, R. G., 1962
thalenite/ thorium/ rare earths/ Teller County/ pegmatite/ Igneous-metamorphic/ Front Range/
- Adler, H. H., 1963
genesis/ sandstone/ ore deposits/ Jefferson County/ Pueblo County/ Gunnison County/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Archuleta County/ Colorado Plateau/ Front Range/ Rio Blanco County/
- Adler, H. H., 1964
uranium/ roll ore/ exploration/ sandstone/ ore deposits/ Jefferson County/ Pueblo County/ Gunnison County/ Rio Blanco County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Montezuma County/ La Plata County/ Archuleta County/ Moffat County/ Colorado Plateau/ Front Range/ Dolores County/
- Aisdorf, P. R., 1916
Gilpin County/ ore deposits/ pitchblende/ occurrence/ properties/ areal geology/ economics/ veins/ uranium/ Igneous-metamorphic/ Clear Creek County/ gneiss/ schist/ pegmatite/ Front Range/
- Anonymous, 1873
Gilpin County/ ore deposits/ pitchblende/ evaluation/ Igneous-metamorphic/ Front Range/
- Anonymous, 1913
carnotite/ pitchblende/ radium/ Gilpin County/ Quartz Hill/ Meeker/ Skull Creek/ Utah/ Colorado/ Moffat County/ Paradox Valley/ Colorado Plateau/ uranium/ sandstone/ Igneous-metamorphic/ Rio Blanco County/ Front Range/ San Miguel County/
- Anonymous, 1914
pitchblende/ Kirk mine/ Gilpin County/ carnotite/ Igneous-metamorphic/ Chihuahua/ Mexico/ molybdenum/ tungsten/ Front Range/ uranium/ ore deposits/

- Anonymous, 1920
ore deposits/ resources/ pitchblende/ Boulder County/ igneous-metamorphic/ Front Range/
- Anonymous, 1950
Boulder County/ igneous-metamorphic/ Caribou mine/ development/ Front Range/
- Anonymous, 1950
Clear Creek County/ pitchblende/ igneous-metamorphic/ Front Range/
- Anonymous, 1951
Larimer County/ Copper King mine/ pitchblende/ igneous-metamorphic/ ore deposits/ Front Range/
- Antony, J., 1967
Front Range/ Jefferson County/ Tucker Gulch area/ map/ geology/ igneous-metamorphic/
- Armstrong, F. C., 1952
pitchblende/ ore deposits/ Quartz Hill/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ uranium/ ore grade/ veins/ Front Range/ Central City district/
- Armstrong, F. C., 1952
pitchblende/ ore deposits/ Quartz Hill/ Central City district/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ gneiss/ schist/ pegmatite/ Front Range/
- Armstrong, F. C., 1953
pitchblende/ Quartz Hill/ Central City district/ Gilpin County/ igneous-metamorphic/ uranium/ Front Range/ production/ geology/ ore deposits/ gneiss/ schist/ pegmatite/ veins/
- Baillie, W. N., 1962
pegmatites/ feldspar/ rare earths/ Boulder County/ Chaffee County/ Clear Creek County/ Douglas County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Larimer County/ Park County/ igneous-metamorphic/ Front Range/
- Bain, H. F., 1914
Idaho Springs/ Clear Creek County/ springs/ radium/ Front Range/ igneous-metamorphic/
- Baker, K. E., 1953
uranium/ Ralston Creek mine/ Schwartzwalder mine/ Jefferson County/ igneous-metamorphic/ Front Range/
- Banks, P. O., and Silver, L. T., 1964
Front Range/ ore deposits/ isotopes/ age determination/ uranium/ igneous-metamorphic/ Gilpin County/ Larimer County/ pitchblende/ bostonite/ Central City district/
- Bastin, E. S., 1915
ore deposits/ pitchblende/ veins/ geology/ uranium/ Gilpin County/ Quartz Hill/ Wood mine/ Front Range/ igneous-metamorphic/
- Bastin, E. S., 1916
Gilpin County/ ore deposits/ pitchblende/ uraninite/ resources/ structure/ abundance/ veins/ economic geology/ igneous-metamorphic/ uranium/ Front Range/
- Bastin, E. S., and Hill, J. M., 1915
Gilpin County/ igneous-metamorphic/ Boulder County/ Quartz Hill/ gold/ silver/ uranium/ copper/ tungsten/ Front Range/ ore deposits/ Clear Creek County/
- Bastin, E. S., and Hill, J. M., 1915
economic geology/ Gilpin County/ Central City district/ Hill/ uraninite/ pitchblende/ bostonite porphyry/ igneous-metamorphic/ Front Range/
- Becke, F., 1909
Gilpin County/ Bald Mountain/ ore deposits/ pitchblende/ mineral assemblages/ Kirk mine/ igneous-metamorphic/ Front Range/
- Bell, K. G., 1960
uranium/ trace elements/ petroleum/ asphalts/ distribution/ occurrence/ Colorado Plateau/ Rocky Mountains/ United States/ Rio Blanco County/ Jefferson County/ Front Range/
- Beroni, E. P., and King, R. U., 1950
Front Range/ minerals/ carnotite/ Mike Doyle mine/ continental carbonaceous shale/ Morrison Formation/ El Paso County/ geology/ ore deposits/ sandstone/
- Beroni, E. P., and King, R. U., 1952
Colorado Springs/ Mike Doyle mine/ ore deposits/ carnotite/ El Paso County/ sandstone/ Front Range/ carbonaceous shale/ Morrison Formation/ geology/
- Beroni, E. P., Granger, H. C., and King, R. U., 1950
Jamestown district/ Boulder County/ fluorite deposits/ Argo mine/ Blue Jay mine/ Burlington mine/ Emmett mine/ General Chemical fluorite deposit/ igneous-metamorphic/ radioactivity/ ore deposits/ Front Range/ Williamson fluorite deposit/
- Bertrand, Didier, 1950
biogeochemistry/ vanadium/ rocks/ sediments/ water/ soil/ coal/ Jamestown district/ Front Range/ Gilpin County/ igneous-metamorphic/ plants/ animals/ oil/ asphalt/ Clear Creek County/
- Bleniewski, C. L., Persse, F. H., and Brauch, E. F., 1971
Colorado Plateau/ Rifle district/ Front Range/ Garfield County/ Clear Creek County/ Jefferson County/ Boulder County/ resources/ price/ cost analysis/ sandstone/ igneous-metamorphic/ Marshall Pass/
- Bird, A. G., 1956
Ralston Creek mine/ pitchblende/ ore deposits/ Schwartzwalder mine/ igneous-metamorphic/ Front Range/ Jefferson County/
- Bird, A. G., 1957
Golden Gate Canyon area/ Ralston Creek area/ ore deposits/ Jefferson County/ igneous-metamorphic/ mineralization/ Schwartzwalder mine/ uranium/ Front Range/ pitchblende/ Idaho Springs Formation/

FRONT RANGE

- Bird, A. G., 1957
Jefferson County/ Igneous-metamorphic/ Ralston Creek area/ Golden Gate Canyon area/ Front Range/ Schwartzwalder mine/ pitchblende/ ore deposits/
- Bird, A. G., 1957
pitchblende/ occurrences/ Golden Gate Canyon area/ Ralston Creek area/ Schwartzwalder mine/ Jefferson County/ Front Range/ Igneous-metamorphic/ ore deposits/
- Bird, A. G., 1958
Schwartzwalder mine/ ore deposits/ petrology/ Jefferson County/ metamorphic/ igneous-metamorphic/ uranium/ Front Range/
- Bird, A. G., 1966
Jefferson County/ petrology/ Schwartzwalder mine/ metamorphic/ igneous-metamorphic/ uranium/ Front Range/ ore deposits/
- Bird, A. G., and Stafford, H. S., 1955
Front Range/ foothills/ ore deposits/ veins/ uranium/ Jefferson County/ Schwartzwalder mine/ igneous-metamorphic/
- Boos, C. M., and Boos, M. F., 1957
tectonics/ Front Range/ igneous-metamorphic/ Gilpin County/ Larimer County/ Boulder County/ Jefferson County/ geology/ Clear Creek County/ Park County/ Douglas County/ Teller County/ El Paso County/ Fremont County/ Pueblo County/ granite/ schist/ gneiss/ pegmatite/
- Bozag, H. A., 1943
Precambrian geology/ Golden Gate Canyon/ Jefferson County/ igneous-metamorphic/ Front Range/
- Braddock, W. A., 1969
geology/ ore deposits/ Empire quadrangle/ Grand County/ Gilpin County/ Clear Creek County/ Front Range/ igneous-metamorphic/
- Bray, J. M., 1942
fluorite/ Jamestown district/ Boulder County/ chemistry/ minor elements/ Front Range/ igneous-metamorphic/ veins/
- Breger, I. A., and Deul, Maurice, 1952
geochemistry/ mineralogy/ lignites/ uranium/ Leyden mine/ South Dakota/ coal/ chemistry/ Jefferson County/ sandstone/ Texas/ extraction/ Front Range/ Colorado/ Laramie Formation/
- Breger, I. A., and Moore, R. T., 1955
El Paso County/ Montrose County/ Virgin mine/ coal/ uraninite/ uranyl ion/ geochemistry/ reduction/ Colorado Plateau/ Front Range/ sandstone/ carbonaceous substances/
- Brinkworth, G. L., 1974
geophysical investigations/ Front Range/ mineral belt/ igneous-metamorphic/ Jefferson County/ Boulder County/ Clear Creek County/ Gilpin County/ geophysics/
- Brown, Andrew, 1961
bibliography/ radioactive deposits/ geology/ uranium/ thorium/ mineralogy/ geochemistry/

FRONT RANGE

- reconnaissance/ Colorado/ Colorado Plateau/ sandstone/ geobotany/ geophysics/ United States/ veins/ igneous-metamorphic/ Front Range/ geologic investigations/
- Butler, A. P., Jr., 1947
thorium/ resources/ Front Range/ igneous-metamorphic/
- Butler, A. P., Jr., 1952
Front Range/ thorium/ Colorado Plateau/ Morrison Formation/ igneous-metamorphic/ Chinle Formation/ Shinarump Member/ geology/ ore deposits/ pegmatites/ veins/ sandstone/ placers/ carnotite/ fresh waters/ gases/ Gilpin County/ Clear Creek County/ Custer County/ Lake County/ San Miguel County/ Gunnison County/
- Butler, A. P., Jr., and Schnabel, R. W., 1956
veins/ Front Range/ uranium/ occurrences/ United States/ Colorado/ Colorado Plateau/ sedimentary rocks/ water/ igneous-metamorphic/ sandstone/
- Butler, A. P., Jr., and Schnabel, R. W., 1956
veins/ occurrences/ United States/ Colorado/ Front Range/ Colorado Plateau/ uranium/ sedimentary rocks/ water/ igneous-metamorphic/ sandstone/
- Butler, A. P., Jr., Finch, W. I., and Twenhofel, W. S., 1962
map/ uranium/ Colorado/ United States/ epigenetic deposits/ ore deposits/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/
- Butler, A. P., Jr., Killeen, P. L., Page, G. B., and Rubey, W. W., 1947
ore deposits/ resources/ reconnaissance/ Front Range/ reserves/ Colorado Plateau/ carnotite/ uranium/ vanadium/ igneous-metamorphic/ uraninite/ Iron Hill/ Gunnison County/ Gilpin County/ Clear Creek County/ radioactive springs/ thorium/ mineralogy/ San Miguel County/ Montrose County/ Mesa County/ sandstone/ genesis/
- Campbell, R. H., 1953
Gold Hill district/ Boulder County/ zoning/ igneous-metamorphic/ Black Cloud mine/ pitchblende/ reconnaissance/ Front Range/ ore deposits/
- Campbell, R. H., 1955
Boulder County/ Gold Hill district/ mineralogy/ petrology/ geochemistry/ breccia reefs/ zoning/ Front Range/ pitchblende/ schroëckingerite/ torbernite/ Black Cloud mine/ Goldsmith Maid vein/ Snowbound mine/ reconnaissance/ veins/ igneous-metamorphic/
- Campbell, R. H., 1955
Boulder County/ Gold Hill district/ mineralogy/ petrology/ geochemistry/ breccia reefs/ zoning/ Front Range/ pitchblende/ schroëckingerite/ torbernite/ Black Cloud mine/ Goldsmith Maid vein/ Snowbound mine/ reconnaissance/ veins/ igneous-metamorphic/
- Campbell, R. H., and Schafer, M., 1953
Gilpin County/ mineralogy/ petrology/ geochemistry/ zoning/ Front Range/ uraninite/ Elliott mine/ reconnaissance/ radioactive materials/ igneous-metamorphic/

- Cannon, R. S., Jr., 1952
isotope geology/ uranium/ thorium/ decay products/
Colorado Plateau/ Front Range/ Morrison Formation/
sandstone/ igneous-metamorphic/
- Chapman, J. J., 1948
geology/ Clear Creek area/ Golden Gate Canyon
area/ Jefferson County/ igneous-metamorphic/
Front Range/
- Collins, G. E., 1909
ore deposits/ milling/ vanadium/ uranium/ veins/
Gilpin County/ Belcher mine/ Quartz Hill district/
Wood vein/ Kirk vein/ German vein/ igneous-metamorphic/
pitchblende/ Front Range/
- Collins, G. E., 1914
carnotite/ sandstone/ San Miguel County/ Montrose
County/ pitchblende/ igneous-metamorphic/ Gilpin
County/ mining/ Colorado Plateau/ Front Range/
- Colorado Geological Survey, 1968
minerals/ water/ resources/ Colorado/ uranium/
thorium/ Colorado Plateau/ Front Range/ sandstone/
igneous-metamorphic/
- Colorado Geological Survey, 1976
bibliography/ geology/ uranium/ Colorado/ Front
Range/ Colorado Plateau/
- Cooper, Margaret, 1953
Colorado/ Utah/ bibliography/ uranium/ thorium/
sandstone/ radioactive occurrences/ ore deposits/
Colorado Plateau/ Front Range/ igneous-metamorphic/
- Cooper, Margaret, 1954
Colorado/ Utah/ bibliography/ uranium/ thorium/
sandstone/ radioactive occurrences/ ore deposits/
Colorado Plateau/ Front Range/ igneous-metamorphic/
- Curran, T. F., 1913
Colorado Plateau/ ore deposits/ carnotite/ history/
Gilpin County/ Wood mine/ Montrose County/ sandstone/
pitchblende/ San Miguel County/ Mesa County/
Dolores County/ Routt County/ Paradox Valley/
Rio Blanco County/ Utah/ Australia/ Front Range/
igneous-metamorphic/
- Curran, T. F., 1913
ore deposits/ carnotite/ San Miguel County/
history/ Gilpin County/ Wood mine/ Montrose
County/ Colorado Plateau/ sandstone/ pitchblende/
Mesa County/ Dolores County/ Routt County/ Rio
Blanco County/ Paradox Valley/ Utah/ Australia/
Front Range/ igneous-metamorphic/
- Curtis, Diane, 1956
bibliography/ annotated/ uranium/ geology/ United
States/ igneous-metamorphic/ Colorado/ Colorado
Plateau/ Front Range/
- Del Rio, S. M., compiler, 1960
minerals/ resources/ Colorado/ uranium/ Colorado
Plateau/ San Miguel County/ Montrose County/
Mesa County/ Front Range/ Jefferson County/
Fremont County/ sandstone/ igneous-metamorphic/
Moffat County/
- Denson, M. E., Jr., 1956
ore deposits/ exploration/ geophysics/ geochemistry/
Colorado/ Front Range/ South Dakota/ Wyoming/
uranium/ thorium/ Jefferson County/ igneous-metamorphic/
geology/
- Denson, M. E., Jr., 1956
Colorado/ Front Range/ geophysics/ geochemistry/
South Dakota/ Wyoming/ exploration/ uranium/
thorium/ Jefferson County/ igneous-metamorphic/
geology/ ore deposits/
- Derzay, R. C., 1953
Cherokee mine/ ore deposits/ Queen Mineral Ranch/
Gilpin County/ veins/ igneous-metamorphic/ pitchblende/
Precambrian rocks/ quartz-biotite schist/ schistose
gneiss/ pegmatite/ drilling/ Front Range/
- Derzay, R. C., and Baker, K. E., 1953
Copper King mine/ ore deposits/ exploration/
Larimer County/ igneous-metamorphic/ veins/
pitchblende/ Precambrian rocks/ granite/ schist/
pegmatite/ copper/ zinc/ uranium/ Front Range/
- Derzay, R. C., and Bird, A. G., 1976
economic geology/ ore deposits/ uranium/ Ralston
Creek area/ Jefferson County/ igneous-metamorphic/
Front Range/
- Downs, G. R., and Bird, A. G., 1965
Jefferson County/ Schwartzwalder mine/ ore deposits/
genesis/ production/ reserves/ pitchblende/
veins/ igneous-metamorphic/ Front Range/
- Drake, A. A., Jr., 1955
ore deposits/ Wood mine/ Central City district/
pitchblende/ Gilpin County/ uranium/ veins/
igneous-metamorphic/ Clear Creek County/ Front
Range/
- Drake, A. A., Jr., 1955
Front Range/ igneous-metamorphic/ Central City
district/ Gilpin County/ geology/ mineralogy/
petrology/ geochemistry/ pitchblende/ ore deposits/
Calhoun mines/ Wood mine/ production/ veins/
Precambrian rocks/ Quartz Hill vein/ Wood vein/
Willowdale vein/ paragenesis/ alteration/ bostonite
porphyry/ Clear Creek County/
- Drake, A. A., Jr., 1957
veins/ Precambrian rock/ bostonite porphyry/
pitchblende/ production/ Central City district/
Gilpin County/ structure/ geology/ Wood-East
Calhoun area/ igneous-metamorphic/ East Calhoun
mine/ Clear Creek County/ mineralogy/ Front
Range/ Wood mine/
- Duncan, D. C., compiler, 1953
ore deposits/ black shale/ Weber Formation/
exploration/ shale/ reconnaissance/ Belden Formation/
Paradox Member/ Eagle County/ Garfield County/
Gunnison County/ Hermosa Formation/ San Juan
County/ La Plata County/ Lake County/ Pony Express
Limestone Member/ Ouray County/ Dakota Sandstone/
Archuleta County/ Pierre Shale/ Las Animas County/
Huerfano County/ Vermejo Formation/ limestone/
sandstone/ Front Range/ Colorado Plateau/

- Eckel, E. B., 1961
description/ minerals/ Colorado/ uranium/ vanadium/
thorium/ Colorado Plateau/ Front Range/ sandstone/
igneous-metamorphic/
- Everhart, D. L., 1956
sandstone/ Colorado Plateau/ Front Range/ Copper
King mine/ veins/ Larimer County/ Los Ochos
mine/ Saguache County/ Caribou mine/ Boulder
County/ Schwartzwalder mine/ Carroll mine/ Placerville
district/ San Miguel County/ alteration/ pitchblende/
igneous-metamorphic/ Jefferson County/ Carroll
mine/ structural tension/
- Everhart, D. L., 1956
pitchblende/ Colorado Plateau/ igneous-metamorphic/
granite/ Front Range/ Copper King mine/ Larimer
County/ alteration/ Los Ochos mine/ Saguache
County/ Caribou mine/ Carroll mine/ Boulder
County/ San Miguel County/ ore deposits/ sandstone/
Placerville district/ Schwartzwalder mine/ Jefferson
County/ structural tension/ United States/ Tertiary/
veins/ alteration/
- Everhart, D. L., and Wright, R. J., 1953
veins/ pitchblende/ geologic features/ sulfides/
Precambrian rocks/ Canadian shield/ Paleozoic/
Tertiary/ paragenesis/ alteration/ sandstone/
Africa/ Idaho/ Front Range/ Gilpin County/ Clear
Creek County/ Boulder County/ Utah/ Colorado
Plateau/ igneous-metamorphic/
- Ferris, C. S., and Bennett, N., 1977
geochemistry/ exploration/ Ladwig mine/ Jefferson
County/ Front Range/ igneous-metamorphic/ gneiss/
schist/ Schwartzwalder mine/ molybdenum/
- Finch, W. I., 1967
Colorado Plateau/ Front Range/ igneous-metamorphic/
geology/ Larimer County/ Jackson County/ Routt
County/ Moffat County/ Garfield County/ Grand
County/ Eagle County/ Boulder County/ Jefferson
County/ Park County/ Mesa County/ Montrose County/
El Paso County/ San Miguel County/ Bent County/
Park County/ Saguache County/ Pueblo County/
Dolores County/ Las Animas County/ Huerfano
County/ Costilla County/ Custer County/ San
Juan County/ La Plata County/ Montezuma County/
- Fischer, R. P., Burbank, W. S., Cannon, H. L.,
and others, 1946
Colorado/ mineral deposits/ map/ Colorado Plateau/
sandstone/ Front Range/ igneous-metamorphic/
ore deposits/
- Fisher, J. C., 1976
remote sensing/ exploration/ veins/ ore deposits/
Front Range/ igneous-metamorphic/
- Fix, P. F., 1954
Colorado Plateau/ natural waters/ streams/ snow/
ground water/ San Juan Mountains/ San Juan County/
Ouray County/ acid tuff/ igneous-metamorphic/
Front Range/ Colorado Plateau/ surface water/
- Fix, P. F., 1954
natural waters/ hydrogeochemical exploration/
streams/ stream sediments/ ore deposits/ ground
water/ mine waters/ Sevier River/ Utah/ Ralston
Creek/ Colorado/ Montana/ Schwartzwalder mine/
Front Range/ Colorado Plateau/ Jefferson County/
- Fix, P. F., 1956
hydrogeochemistry/ surface water/ ground water/
uranium/ exploration/ Front Range/ Colorado
Plateau/ Central City/ Clear Creek County/
- Fix, P. F., 1956
hydrogeochemistry/ surface water/ ground water/
uranium/ exploration/ Front Range/ Colorado
Plateau/ Central City/ Gilpin County/ Clear
Creek County/
- Fleck, Herman, 1908
pitchblende/ Gilpin County/ igneous-metamorphic/
uranium/ vanadium/ ore deposits/ Placerville
district/ sandstone/ San Miguel County/ Front
Range/ rare metals/ Entrada Sandstone/
- Fleck, Herman, 1908
rare elements/ vanadium/ uranium/ importance/
Gilpin County/ Front Range/ igneous-metamorphic/
Placerville district/ sandstone/ San Miguel
County/ ore deposits/ Colorado Plateau/
- Fleck, Herman, 1909
Gilpin County/ ore deposits/ pitchblende/ production/
vanadium/ Placerville district/ San Miguel County/
rare metals/ uranium/ Entrada Sandstone/ sandstone/
igneous-metamorphic/ Front Range/ Colorado Plateau/
- Fleck, Herman, 1909
ore deposits/ uranium/ vanadium/ Colorado/ sandstone/
Colorado Plateau/ Front Range/ igneous-metamorphic/
- Fleck, Herman, 1916
ore deposits/ production/ rare metals/ tungsten/
molybdenum/ vanadium/ uranium/ Colorado Plateau/
Placerville district/ San Miguel County/ sandstone/
Front Range/ Gilpin County/ igneous-metamorphic/
- Franz, G. A., Jr., 1960
Colorado/ minerals/ locations/ Colorado Plateau/
Front Range/
- Franz, G. A., Jr., 1963
Colorado/ minerals/ locations/ Colorado Plateau/
Front Range/
- Fraser, G. D., 1948
Coal Creek Quartzite/ igneous-metamorphic/ Jefferson
County/ Boulder County/ Front Range/
- Gabelman, J. W., 1948
geology/ Golden Gate area/ Van Bibber Creek
area/ Jefferson County/ igneous-metamorphic/
Front Range/
- Gabelman, J. W., and Boyer, W. H., 1974
exploration/ status/ uranium/ technology/ history/
pitchblende/ radium/ vanadium/ Colorado Plateau/
Front Range/ Montrose County/ Mesa County/ San
Miguel County/ Dolores County/ Moffat County/
Jefferson County/ sandstone/ igneous-metamorphic/
shale/

- Gable, D. J., 1968
geology/ crystalline rocks/ Morrison quadrangle/
Jefferson County/ Igneous-metamorphic/ Front
Range/
- Gable, D. J., 1969
geology/ Nederland quadrangle/ Boulder County/
Gillpin County/ Igneous-metamorphic/ ore deposits/
Caribou district/ veins/ map/ Caribou mine/
Front Range/
- Gallagher, G. L., 1976
Badger Flats area/ Eikhorn thrust area/ Park
County/ Teller County/ Precambrian rocks/ ore
deposits/ Front Range/ uranium favorability/
Igneous-metamorphic/
- George, D'Arcy, 1949
uranium/ thorium/ mineralogy/ hypogene/ supergene/
rare earth minerals/ chemistry/ pegmatites/
sandstone/ placers/ black shales/ Igneous-metamorphic/
Colorado Plateau/ Front Range/
- George, R. D., 1917
minerals/ rocks/ Colorado/ occurrences/ uses/
Colorado Plateau/ sandstone/ Igneous-metamorphic/
uranium/ vanadium/ radium/ carnotite/ pitchblende/
Jefferson County/ Gillpin County/ Front Range/
Montrose County/ San Miguel County/ Dolores
County/ Garfield County/ Rio Blanco County/
Routt County/ Boulder County/
- George, R. D., Curtis, H. A., Lester, O. C., and
others, 1920
Colorado Plateau/ mineralized waters/ springs/
spring deposits/ Front Range/ Jefferson County/
Pitkin County/ Pueblo County/ Garfield County/
Park County/ El Paso County/ Ouray County/ Boulder
County/ Gunnison County/ Delta County/ Chaffee
County/
- Gilbert, R. E., 1972
Jefferson County/ Schwartzwalder mine/ Front
Range/ geology/ map/ igneous-metamorphic/
- Gill, J. R., 1953
Colorado/ Montana/ Wyoming/ ore deposits/ carbonaceous
rocks/ coal/ Park County/ Gunnison County/ Delta
County/ Las Animas County/ El Paso County/ Teller
County/ La Plata County/ Montezuma County/ Denver
Basin/ Larimer County/ shale/ Crested Butte/
Laramie Formation/ Colorado Plateau/ Front Range/
- Goddard, E. N., 1946
Boulder County/ veins/ Igneous-metamorphic/
fluorite/ Tertiary intrusions/ Jamestown district/
ore deposits/ fluorspar/ Front Range/
- Goddard, E. N., and Glass, J. J., 1940
radioactive cerite/ Jamestown district/ ore
deposits/ igneous-metamorphic/ uranium/ Boulder
County/ geology/ mineralogy/ chemistry/ Front
Range/ Precambrian rocks/
- Gott, G. B., 1948
Boulder County/ water/ nonsaline waters/ Jamestown/
radioactivity/ spring deposits/ Front Range/
radioactive springs/
- Gott, G. B., 1948
Boulder County/ water/ nonsaline waters/ Jamestown/
radioactivity/ spring deposits/ Front Range/
radioactive springs/
- Gott, G. B., 1950
Leyden Ridge/ Jefferson County/ Leyden uranium
prospect/ Old Leyden coal mine/ coal/ ore deposits/
geology/ genesis/ reserves/ sandstone/ Front
Range/
- Gott, G. B., Wyant, D. G., and Beroni, E. P., 1952
Front Range/ ore deposits/ shale/ black shale/
lignite/ limestone/ organics/ sandstone/ coal/
Leyden coal mine/ Jefferson County/ uranium/
- Gottfried, David, 1956
Front Range/ ore deposits/ exploration/ Precambrian
rocks/ igneous complexes/ granite/ uranium/
Jefferson County/ Clear Creek County/ Gillpin
County/ Pikes Peak batholith/ Log Cabin batholith/
Boulder Creek batholith/ Igneous-metamorphic/
Boulder County/
- Gow, T. T., 1914
basalt/ Table Mountain/ Igneous-metamorphic/
Jefferson County/ Conejos County/ Rio Grande
County/ Gilmore/ Front Range/ radioactivity/
- Granger, H. C., and Beroni, E. P., 1950
Jefferson County/ Cook property/ igneous-metamorphic/
reconnaissance/ Front Range/
- Granger, H. C., and King, R. U., 1950
Larimer County/ Copper King mine/ Copper King
shaft/ Black Hawk claim no. 1/ pitchblende/
analyses/ igneous-metamorphic/ data/ Front Range/
uranium/
- Granger, H. C., and King, R. U., 1951
Larimer County/ pitchblende/ Copper King mine/
Black Hawk no. 1 claim/ igneous-metamorphic/
pitchblende/ geology/ analyses/ Front Range/
- Grossman, E. L., 1957
Front Range/ ore deposits/ uranium/ Gillpin County/
Clear Creek County/ Jefferson County/ Schwartzwalder
mine/ pitchblende/ igneous-metamorphic/ Ludwig
mine/ Leyden mine/ Boulder County/ coal/ sandstone/
Morrison Formation/ Park County/ Gem Dandy/
- Grossman, E. L., and Smith, B. C., 1956
lithology/ uranium/ ore deposits/ sandstone/
exploration/ Front Range/ Dakota hogback/ Dakota
Sandstone/ Cretaceous/ Boulder County/ Larimer
County/ asphaltite/ Rose Mary No. 1 claim/ Wahketa
lease/ Horsetooth Reservoir site/ Carter Lake/
Bonnell lease/ airborne radiometrics/
- Gruner, J. W., and Smith, D. K., Jr., 1955
siltstone/ sandstone/ Colorado Plateau/ uranium/
coffinite/ Jurassic/ Larimer County/ Black King
mine/ Mesa County/ Montrose County/ San Miguel
County/ Dolores County/ Montezuma County/ mineralogy/
Morrison Formation/ Bull Canyon district/ Calamity
Mesa/ Paradox Valley/ Salt Wash Member/ Front
Range/

- Gude, A. J., 3d, and McKeown, F. A., 1952
Jefferson County/ ore deposits/ Front Range/
coal/ exploration/ drilling/ Old Leyden coal
mine/ minerals/ carnotite/ Laramie Formation/
reserves/ sandstone/ shale/ veins/
- Gude, A. J., 3d, and McKeown, F. A., 1953
veins/ exploration/ Jefferson County/ Old Leyden
coal mine/ sandstone/ coal/ shale/ drilling/
core/ reserves/ Front Range/
- Gulliotte, G. B., 1944
reconnaissance/ uranium/ ore deposits/ Front
Range/ igneous-metamorphic/ Park County/ Boulder
County/ Jamestown district/ Larimer County/
Masonville mines/ Chaffee County/ Trout Creek
permatites/ Clear Creek County/ carnotite/
- Gulliotte, G. B., 1944
reconnaissance/ uranium/ ore deposits/ Gilpin
County/ igneous-metamorphic/ Kirk mine/ Wood
mine/ Belcher mine/ Front Range/ Central City
district/ geology/ mining/ Quartz Hill area/
- Gulliotte, G. B., 1944
uranium/ ore deposits/ Grover pegmatite mine/
igneous-metamorphic/ Clear Creek County/ Front
Range/ columbite/ North Beaver Brook area/
- Gustafson, J. K., 1949
uranium/ resources/ veins/ Gilpin County/ Front
Range/ Boulder County/ igneous-metamorphic/
pitchblende/ vanadium/ Morrison Formation/ sandstone/
Montrose County/ Mesa County/ San Miguel County/
Colorado Plateau/
- Hall, C. R., 1976
alkalic/ igneous rocks/ igneous-metamorphic/
Gilpin County/ Front Range/ bibliography/ San
Juan County/ Custer County/ Fremont County/
La Plata County/ Montezuma County/ Gunnison
County/ Saguache County/ El Paso County/ Rio
Grande County/ Jefferson County/ Larimer County/
Boulder County/ Colorado Plateau/ Clear Creek
County/ Teller County/
- Hanley, E. S., 1948
El Paso County/ Golden Cycle mill dump/ tailings/
Cripple Creek ore/ Teller County/ Front Range/
igneous-metamorphic/
- Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
pegmatites/ geology/ mineralogy/ Chaffee County/
Boulder County/ Clear Creek County/ Douglas
County/ Fremont County/ Gunnison County/ Jefferson
County/ Larimer County/ Montrose County/ Park
County/ Summit County/ monazite/ thorium/ production/
Front Range/ El Paso County/ igneous-metamorphic/
Colorado Plateau/ Wyoming/ Utah/
- Harder, J. O., and Stead, F. W., 1945
Boulder County/ Gilpin County/ Gunnison County/
Mesa County/ Teller County/ ore deposits/ sandstone/
igneous-metamorphic/ reconnaissance/ Front Range/
Colorado Plateau/ Jefferson County/
- Harder, J. O., and Wyant, D. G., 1944
Central City district/ Cripple Creek/ Jamestown
district/ Nederland district/ Boulder County/
- Gilpin County/ Gunnison County/ Teller County/
Clear Creek County/ ore deposits/ igneous-metamorphic/
reconnaissance/ Precambrian rocks/ granite/
veins/ Brown Derby Pegmatite/ Calhoun mine/
Belcher mine/ trace elements/ Front Range/
- Harrison, J. E., 1952
Clear Creek County/ ore deposits/ Front Range/
Spring Gulch/ Lawson-Dumont district/ pegmatite/
granite/ schist/ minerals/ autunite/ metatorbernite/
pitchblende/ Martha E prospect/ igneous-metamorphic/
Idaho Springs area/
- Harrison, J. E., 1953
fracture patterns/ Freeland-Lamartine district/
Colorado/ Clear Creek County/ igneous-metamorphic/
veins/ Gilpin County/ thorium/ hypogene zoning/
Front Range/
- Harrison, J. E., 1953
Freeland-Lamartine district/ Clear Creek County/
veins/ igneous-metamorphic/ Gilpin County/ Front
Range/
- Harrison, J. E., 1955
fracture patterns/ Freeland-Lamartine district/
Clear Creek County/ igneous-metamorphic/ Gilpin
County/ veins/ thorium/ hypogene zoning/ Front
Range/
- Harrison, J. E., and Leonard, B. F., 1952
Front Range/ Clear Creek County/ Lawson-Dumont
district/ pitchblende/ Jo Reynolds mine/ veins/
stratigraphy/ Idaho Springs Formation/ Precambrian
rocks/ igneous-metamorphic/ structure/ ore deposits/
geology/ metamorphic rocks/ bostonite porphyry/
economic geology/
- Harrison, J. E., and Leonard, B. F., 1952
Front Range/ Clear Creek County/ Lawson-Dumont
district/ pitchblende/ Jo Reynolds mine/ veins/
stratigraphy/ Idaho Springs Formation/ Precambrian
rocks/ igneous-metamorphic/ structure/ ore deposits/
geology/ metamorphic rocks/ bostonite porphyry/
economic geology/
- Harrison, J. E., and Wells, J. D., 1953
igneous-metamorphic/ Clear Creek County/ Freeland
district/ Chicago Creek area/ structure/ pitchblende/
Front Range/
- Harrison, J. E., and Wells, J. D., 1954
Freeland-Lamartine district/ Front Range/ autunite/
dumontite(?)/ Ariadne mine/ Belle Creole mine/
Invincible mine/ Golden Rod mine/ veins/ stratigraphy/
Idaho Springs Formation/ igneous-metamorphic/
geology/ ore deposits/ Lone Tree mine/ Clear
Creek County/ Belle of the West (mine) tunnel/
- Harrison, J. E., and Wells, J. D., 1956
Clear Creek County/ Chicago Creek area/ Front
Range/ mineralogy/ petrology/ geochemistry/
breccia reefs/ pitchblende/ igneous-metamorphic/
intrusive igneous rocks/ uranium/
- Harrison, J. E., and Wells, J. D., 1956
veins/ ore deposits/ production/ geology/ bostonite/
alaskite/ migmatite/ Freeland-Lamartine district/
Clear Creek County/ igneous-metamorphic/ metamorphic
rocks/ Front Range/

- Harrison, J. E., and Wells, J. D., 1959
Clear Creek County/ Chicago Creek area/ Front Range/ mineralogy/ petrology/ geochemistry/ breccia reefs/ minerals/ pitchblende/ intrusive igneous rocks/ pegmatites/ veins/ uranium/ geology/ genesis/ production/ ore deposits/ igneous-metamorphic/
- Hart, S. R., 1964
petrology/ isotopes/ minerals/ contact zone/ Front Range/ igneous-metamorphic/ age dating/
- Hawley, C. C., and Moore, F. B., 1955
Fall River area/ ore deposits/ genesis/ garnet/ quartz/ Clear Creek County/ veins/ uranium/ ore controls/ igneous-metamorphic/ pitchblende/ wall rocks/ Front Range/ geology/
- Hawley, C. C., and Moore, F. B., 1967
Clear Creek County/ ore deposits/ resources/ Front Range/ geology/ genesis/ Lawson-Dumont-Fall River district/ veins/ Idaho Springs Formation/ Precambrian rocks/ igneous-metamorphic/
- Heyse, J. V., 1971
uranium/ mineralogy/ petrology/ Schwartzwalder mine/ Jefferson County/ age estimation/ emission spectroscopy/ uraninite/ ore deposits/ Front Range/ geochemistry/ igneous-metamorphic/ paragenesis/ pitchblende/
- Hickling, N. L., 1965
Boulder Creek batholith/ allanite/ mineralogy/ epidote/ igneous-metamorphic/ Boulder County/ analyses/ geochemistry/ Precambrian rocks/ Front Range/
- Hickling, N. L., 1965
Boulder Creek batholith/ allanite/ mineralogy/ epidote/ igneous-metamorphic/ Boulder County/ analyses/ geochemistry/ Precambrian rocks/ Front Range/
- Hickling, N. L., Phair, G., Moore, R., and others, 1970
Boulder Creek batholith/ uranium/ thorium/ age patterns/ allanite/ mineralogy/ genesis/ paragenesis/ igneous-metamorphic/ Jefferson County/ Clear Creek County/ Gilpin County/ Boulder County/ Larimer County/ Summit County/ Grand County/ Front Range/ Silver Plume batholith/
- Hill, J. M., 1945
Gilpin County/ Kirk mine/ geology/ sampling/ unwatering/ igneous-metamorphic/ Front Range/ Quartz Hill area/
- Hillebrand, W. F., 1890
ore deposits/ geochemistry/ nitrogen/ uraninite/ Black Hawk mine/ analyses/ Gilpin County/ Front Range/ igneous-metamorphic/
- Hillebrand, W. F., 1890
ore deposits/ uraninite/ geochemistry/ nitrogen/ Black Hawk/ Gilpin County/ igneous-metamorphic/ analyses/ Front Range/
- Hirschl, H., 1923
igneous-metamorphic/ Clear Creek County/ volcanic rocks/ pitchblende/ Central City district/ genesis/ Front Range/
- Hurley, P. M., and Fairbairn, H. W., 1957
uranium/ thorium/ zircon/ analyses/ Front Range/ sphene/ apatite/ epidote/ monazite/ granite/ minerals/ igneous-metamorphic/ pegmatites/ mineralogy/ Climax/ Colorado/ Massachusetts/ Nova Scotia/ Canada/ Germany/ El Paso County/ Eagle County/ Lake County/ Summit County/
- Jenkins, E. D., 1961
records/ logs/ wells/ test holes/ chemical analyses/ radiometric analyses/ ground water/ Boulder area/ Boulder County/ Front Range/
- Kaiser, E. P., and Page, L. R., 1952
ore deposits/ Colorado/ uranium/ United States/ sandstone/ Front Range/ igneous-metamorphic/ Colorado Plateau/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ pitchblende/ sandstone/ coal/ shale/ Archuleta County/ Routt County/ Eagle County/ Pitkin County/ Gunnison County/ San Juan County/ Fremont County/ Huerfano County/ Ouray County/ Colorado Plateau/ ore deposits/ Moffat County/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/ Larimer County/ Boulder County/ Jefferson County/ Park County/ Rio Blanco County/ igneous-metamorphic/
- Kaiser, E. P., King, R. U., Wilmarth, V. R., and others, 1952
Front Range/ Jamestown district/ pitchblende/ bostonite/ Colorado Plateau/ sandstone/ coal/ shale/ Moffat County/ Garfield County/ La Plata County/ Pitkin County/ Gunnison County/ San Juan County/ Boulder County/ Jefferson County/ Park County/ Delta County/ Fremont County/ Rio Blanco County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Archuleta County/ Routt County/ Huerfano County/ Ouray County/ Larimer County/ Eagle County/ igneous-metamorphic/
- Kahn, T. M., 1955
bibliography/ geology/ shale/ uranium/ coal/ lignite/ Leyden Coal mine/ Jefferson County/ carnotite/ Moffat County/ gilsonite/ Jackson County/ Front Range/ ore deposits/ Great Plains/
- Kahn, T. M., 1957
ore deposits/ coal/ shale/ lignite/ Great Plains/ bibliography/ uranium/ geology/ Jefferson County/ carnotite/ Moffat County/ gilsonite/ Jackson County/ Front Range/ Leyden coal mine/
- Keller, W. D., 1953
clay minerals/ Morrison Formation/ kaolinite/ illite/ depositional environments/ Colorado Plateau/ sandstone/ type section/ geochemistry/ analyses/ Jefferson County/ Front Range/
- Kelly, F. N., 1962
thorium/ Wet Mountains/ Custer County/ El Paso County/ Fremont County/ Gunnison County/ Jefferson County/ Park County/ mineralogy/ Powderhorn district/ rare earths/ resources/ igneous-metamorphic/ Colorado/ Wyoming/ New Mexico/ economics/ Front Range/ Gilpin County/

- Kerr, P. F., 1950
uraninite/ Canada/ Idaho/ Lake Superior/ Caribou mine/ Wood's Hole/ Colorado/ Radium vein/ Boulder County/ Igneous-metamorphic/ Front Range/ mineralogy/ veins/ ore deposits/
- Kerr, P. F., 1956
veins/ alteration/ exploration/ uranium/ geology/ Jamestown district/ Colorado Plateau/ Colorado/ sandstone/ Front Range/ Igneous-metamorphic/ fluorite/ Boulder County/
- Kerr, P. F., 1956
uranium/ thorium/ veins/ sediments/ Front Range/ ore deposits/ sandstone/ fluorite/ geology/ Colorado Plateau/ Igneous-metamorphic/
- Kerr, P. F., 1956
veins/ alteration/ exploration/ uranium/ geology/ Colorado Plateau/ Colorado/ sandstone/ Jamestown district/ Front Range/ Igneous-metamorphic/ fluorite/ Boulder County/
- Kerr, P. F., Anderson, T. P., and Hamilton, Peggy-Kay, 1951
veins/ Bellevue-Rochester mine/ Igneous-metamorphic/ Clear Creek County/ alteration/ Front Range/ geology/
- King, R. U., 1950
Boulder County/ pitchblende/ veins/ Igneous-metamorphic/ Precambrian rocks/ Caribou mine/ geology/ ore deposits/ No Name vein/ Radium vein/ silver/ uranium/ lead/ zinc/ analyses/ Front Range/
- King, R. U., 1950
Gilpin County/ Apex claims/ Bates Creek/ Front Range/ ore deposits/ geology/ Igneous-metamorphic/
- King, R. U., 1950
Central City district/ Gilpin County/ pitchblende/ Wood mine/ Igneous-metamorphic/ Front Range/ ore deposits/ geology/
- King, R. U., 1951
reconnaissance/ Front Range/ geology/ mineralogy/ pitchblende/ Boulder County/ Clear Creek County/ Gilpin County/ Chaffee County/ Custer County/ El Paso County/ Fremont County/ Huerfano County/ Jefferson County/ Larimer County/ Teller County/ veins/ Igneous-metamorphic/ stream sediments/ spring deposits/ shear zones/ pegmatites/ sandstone/ coal/ Eagle County/ Grand County/ Gunnison County/ Lake County/ Moffat County/ ore deposits/ Douglas County/ San Miguel County/ Summit County/
- King, R. U., 1951
Lawson area/ Clear Creek County/ Jo Reynolds mine/ minerals/ pitchblende/ Precambrian rocks/ veins/ Igneous-metamorphic/ ore deposits/ geology/ schist/ granite/ Eilda tunnel/ Front Range/
- King, R. U., 1951
Wood mine/ ore deposits/ pitchblende/ Gilpin County/ Igneous-metamorphic/ Front Range/ Central City district/ geology/
- King, R. U., 1952
ore deposits/ Boulder County/ Caribou mine/ veins/ No Name vein/ Radium vein/ uranium/ geology/ Igneous-metamorphic/ Front Range/ pitchblende/
- King, R. U., 1952
uranium/ veins/ Caribou mine/ Boulder County/ Front Range/ Igneous-metamorphic/ pitchblende/ ore deposits/ geology/
- King, R. U., 1953
reconnaissance/ Front Range/ Igneous-metamorphic/ Clear Creek County/ Park County/ Summit County/ geology/ ore deposits/ Boulder County/
- King, R. U., 1954
ore deposits/ exploration/ veins/ Ralston Creek district/ Jefferson County/ Copperdale/ Lake George/ Park County/ geology/ Igneous-metamorphic/ Front Range/
- King, R. U., and Beroni, E. P., 1953
Igneous-metamorphic/ reconnaissance/ Jefferson County/ Park County/ El Paso County/ Clear Creek County/ prospects/ uranium/ thorium/ Front Range/ ore deposits/ geology/
- King, R. U., and Granger, H. C., 1952
Clear Creek County/ torbernite/ George Peabody claim/ Little MacGregor claim/ Robineau claims/ Front Range/ granite/ pegmatites/ veins/ Little Mac claim/ ore deposits/ geology/ Igneous-metamorphic/
- King, R. U., and Moore, F. B., 1951
pitchblende/ ore deposits/ Clear Creek County/ Colorado/ Boulder County/ Front Range/ sandstone/ Igneous-metamorphic/ sedimentary rocks/ Jefferson County/ geology/ Gilpin County/
- King, R. U., and Theobald, P. K., Jr., 1955
Canon City/ Idledale/ ore deposits/ exploration/ Jefferson County/ veins/ FMD mine/ Front Range/ geology/ Igneous-metamorphic/ Fremont County/
- King, R. U., and Theobald, P. K., Jr., 1955
veins/ Gilpin County/ Blackhawk district/ Silver Hill area/ Igneous-metamorphic/ geology/ Front Range/ ore deposits/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ Kiowa County/ Rio Blanco County/ Routt County/ hot spring deposits/ limestone/ pegmatites/ sandstone/ veins/ breccia pipes/ Igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Huerfano County/ Eagle County/
- King, R. U., Leonard, B. F., Moore, F. B., and others, 1953
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Larimer County/ Moffat County/ Pitkin County/ pitchblende/ hydrocarbons/ hot spring deposits/ limestone/ sandstone/ veins/ breccia pipes/

- Igneous-metamorphic/ Park County/ Lake County/ geology/ mineralogy/ San Miguel County/ ore deposits/ metal-mining districts/ Kiowa County/ Rio Blanco County/ Routt County/ Huerfano County/ Eagle County/
- King, R. U., Moore, F. B., and Leonard, B. F., 1952
Front Range/ Boulder County/ Clear Creek County/ Garfield County/ Gilpin County/ Jefferson County/ Kiowa County/ Larimer County/ Moffat County/ Pitkin County/ Rio Blanco County/ Routt County/ ore guides/ pitchblende/ hydrocarbons/ metal-mining districts/ ore deposits/ limestone/ sandstone/ veins/ breccia pipes/ Eagle County/ hot spring deposits/ fluorite/ igneous-metamorphic/
- King, R. U., Moore, F. B., and Hinrichs, E. N., 1952
veins/ Colorado/ uranium/ Central City district/ Front Range/ San Miguel County/ pitchblende/ ore deposits/ Larimer County/ Jefferson County/ Gilpin County/ Ralston Creek district/ Jamestown district/ Caribou district/ Lawson district/ Clear Creek County/ igneous-metamorphic/
- Klepper, M. R., and Wyant, D. G., 1956
uranium/ United States/ Colorado/ geochemistry/ genesis/ exploration/ provinces/ ore deposits/ veins/ sandstone/ igneous-metamorphic/ Colorado Plateau/ Front Range/
- Klepper, M. R., and Wyant, D. G., 1956
uranium/ provinces/ United States/ Colorado/ ore deposits/ geochemistry/ genesis/ exploration/ veins/ sandstone/ igneous-metamorphic/ Colorado Plateau/ Front Range/
- Knox-Bergman-Shearer Corp., 1970
geology/ structure/ Front Range/ map/ igneous-metamorphic/
- Kober, C. L., and Procter-Gregg, H. D., 1977
uranium/ alteration zones/ LANDSAT MSS Imagery/ Jefferson County/ Boulder County/ Mesa County/ Montrose County/ San Miguel County/ Colorado Plateau/ Douglas County/ sandstone/ Front Range/ igneous-metamorphic/
- Kruslewski, S. V., 1970
uranium/ bibliography/ geology/ geochemistry/ radioactivity/ mineralogy/ ore deposits/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/
- Lahr, M., 1974
Front Range/ map/ Schwartzwalder mine/ Jefferson County/ igneous-metamorphic/ ore deposits/ Ralston Buttes quadrangle/
- Langford, F. F., 1974
uranium/ Australia/ supergene/ genesis/ Front Range/ veins/ calcrete/ carnotite/ ore deposits/ igneous-metamorphic/ sandstone/ Colorado Plateau/ Jefferson County/ Montrose County/ San Miguel County/
- Langford, F. F., 1977
genesis/ surficial origin/ pitchblende/ ore deposits/ uranium/ igneous-metamorphic/ surface waters/ sandstone/ Colorado Plateau/ Front Range/ Jefferson County/ Montrose County/ San Miguel County/
- Larsen, E. S., 3d, 1957
analyses/ Colorado/ Wyoming/ Montana/ quartz monzonite/ granite/ Log Cabin batholith/ solubility/ uranium/ thorium/ Front Range/ Gilpin County/ Clear Creek County/ Boulder County/ Sherman batholith/ igneous-metamorphic/
- Larsen, E. S., and Berman, Harry, 1926
gilpinite/ geochemistry/ Gilpin County/ uranium/ igneous-metamorphic/ Johannite/ mineralogy/ Front Range/
- Larsen, E. S., and Brown, G. V., 1917
gilpinite/ uranium/ Gilpin County/ Front Range/ igneous-metamorphic/ geochemistry/ mineralogy/
- Larsen, E. S., and Phair, George, 1954
uranium/ thorium/ igneous-metamorphic/ Front Range/ dikes/ stocks/ minerals/ porphyry/ San Juan Mountains/ calc-alkalic rocks/ San Juan County/ Ouray County/ Hinsdale County/ Cripple Creek/ Teller County/ quartz-bostonite/ geochemistry/
- Lee, H. A., 1901
ore deposits/ uranium/ Colorado/ Colorado Plateau/ sandstone/ Front Range/ igneous-metamorphic/
- Lee, H. A., 1901
Colorado/ mining/ Colorado Plateau/ sandstone/ Front Range/ igneous-metamorphic/
- Leonard, B. F., 3d, 1952
Front Range/ ore deposits/ pitchblende/ hypogene zoning/ veins/ uranium/ Larimer County/ Boulder County/ Jefferson County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/
- Leonard, B. F., 3d, 1952
veins/ Front Range mineralogy/ petrology/ pitchblende/ geochemistry/ ore deposits/ uranium/ Central City district/ bostonite/ Gilpin County/ Clear Creek County/ Larimer County/ Boulder County/ Jefferson County/ hypogene zoning/ igneous-metamorphic/
- Leonard, B. F., 3d, 1952
Central City district/ Front Range/ pitchblende/ base metals/ precious metals/ Clear Creek County/ igneous-metamorphic/ Gilpin County/ zoning/ ore deposits/
- Leonard, B. F., 3d, 1953
ore deposits/ zoning/ pitchblende/ hypogene zoning/ Front Range/ igneous-metamorphic/ Central City district/ Gilpin County/ Clear Creek County/
- Leonard, B. F., 3d, 1953
pitchblende/ ore deposits/ zoning/ Lake County/ Front Range/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ Pitkin County/ Teller County/ San Juan County/ Coeur d'Alene/ Idaho/
- LeRoy, L. W., 1969
Precambrian rocks/ stratigraphy/ Golden area/ Gilpin County/ Front Range/ igneous-metamorphic/ Jefferson County/
- Lickus, R. J., and LeRoy, L. W., 1968
Precambrian rocks/ structure/ stratigraphy/ Front Range/ reconnaissance/ Golden area/ Jefferson County/ igneous-metamorphic/

- Lindgren, Waldemar, 1933
copper/ lead/ vanadium/ uranium/ sandstone/ shale/ carnotite/ roscoelite/ Colorado Plateau/ Dolores County/ San Miguel County/ Mesa County/ Montrose County/ Entrada Sandstone/ La Plata Sandstone/ McElmo Formation/ genesis/ Gilpin County/ Igneous-metamorphic/ ore deposits/ Front Range/
- Lovering, T. G., and Beroni, E. P., 1956
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive ilmonite/ Lucky Break Iron mine/ sandstone/ thorium/ uranium/ spring deposits/ Front Range/ conglomerate/ limestone/ tufa/ analyses/ Igneous-metamorphic/ ore deposits/ El Paso County/
- Lovering, T. G., and Beroni, E. P., 1959
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive ilmonite/ Lucky Break Iron mine/ thorium/ uranium/ spring deposits/ Front Range/ sandstone/ conglomerate/ limestone/ tufa/ El Paso County/ Igneous-metamorphic/ ore deposits/
- Lovering, T. S., 1942
Front Range/ mineral belt/ ore deposits/ Clear Creek County/ structural features/ Igneous-metamorphic/ Gilpin County/ Boulder County/ Jefferson County/
- Lovering, T. S., and Goddard, E. N., 1938
Laramide/ tectonics/ differentiation/ Clear Creek County/ correlation/ geochemistry/ petrology/ Boulder County/ Grand County/ Summit County/ Gilpin County/ Park County/ Larimer County/ Teller County/ Jefferson County/ Front Range/ Igneous-metamorphic/
- Lovering, T. S., and Goddard, E. N., 1950
veins/ Front Range/ economic geology/ production/ uranium/ Quartz Hill/ Clear Creek County/ geology/ ore deposits/ Gilpin County/ bostonite/ porphyry/ Igneous-metamorphic/ Central City district/
- Lovering, T. S., Lakin, H. W., Ward, F. N., and others, 1956
geochemical techniques/ exploration/ uranium/ analyses/ geochemistry/ Front Range/ cobalt/ niobium/ Igneous-metamorphic/
- Lovering, T. S., Lakin, H. W., Ward, F. N., and others, 1956
geochemical techniques/ exploration/ uranium/ analyses/ geochemistry/ Front Range/ molybdenum/ vanadium/ selenium/ copper/ cobalt/ niobium/ Igneous-metamorphic/
- Malan, R. C., 1972
Arizona/ California/ Colorado/ Nevada/ Wyoming/ geology/ ore deposits/ uranium/ thorium/ quantitative chemical analysis/ sedimentary rocks/ chemical composition/ Precambrian rocks/ Igneous-metamorphic/ Front Range/
- Malan, R. C., and Sterling, D. A., 1969
ore deposits/ Precambrian rocks/ Colorado Plateau/ Nevada/ California/ New Mexico/ Arizona/ uranium/ geology/ thorium/ Colorado/ Igneous-metamorphic/ resources/ Front Range/
- Malan, R. C., and Sterling, D. A., 1970
uranium/ thorium/ minerals/ ore deposits/ geology/ Colorado/ Utah/ Wyoming/ South Dakota/ Montana/ Idaho/ Washington/ ore composition/ potassium/ reserves/ Precambrian rocks/ Igneous-metamorphic/ resources/ Front Range/
- Mallory, N. S., and Bird, A. G., 1953
exploration/ geology/ Jefferson County/ Ralston Creek area/ Dawson arkose/ James Peak area/ Boulder County/ Adams County/ Larimer County/ Gilpin County/ Igneous-metamorphic/ Idaho Springs Formation/ sandstone/ Dakota Sandstone/ Morrison Formation/ Front Range/
- Marvin, R. F., Young, E. J., Mehnert, H. H., and others, 1974
radiometric ages/ Mesozoic/ Cenozoic/ uranium/ base metals/ ore deposits/ age dating/ Front Range/ Igneous-metamorphic/
- Maxwell, C. H., 1955
bedrock geology/ Front Range/ Igneous-metamorphic/ Jefferson County/
- McCann, D. W., and Freeman, R. W., 1976
ground water/ surface water/ United States/ uranium/ chemical analyses/ Colorado/ Front Range/ Jefferson County/ Chaffee County/ Fremont County/ Gunnison County/ Huerfano County/ Saguache County/ Park County/ Colorado Plateau/
- McKelvey, V. E., 1953
Colorado Plateau/ Dolores County/ Mesa County/ exploration/ veins/ sandstone/ Igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ phosphates/ shale/ placers/
- McKelvey, V. E., 1953
veins/ Dolores County/ Mesa County/ exploration/ sandstone/ Igneous-metamorphic/ Front Range/ pegmatites/ geobotany/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ Colorado Plateau/ phosphates/ shale/ placers/
- McKelvey, V. E., 1954
Dolores County/ Mesa County/ exploration/ carnotite/ veins/ sandstone/ Igneous-metamorphic/ pegmatites/ geobotany/ Front Range/ Gilpin County/ Clear Creek County/ coal/ Montrose County/ San Miguel County/ ore deposits/ veins/ Colorado Plateau/ phosphates/ shale/ placers/
- McKelvey, V. E., 1955
ore deposits/ exploration/ veins/ bituminous substances/ coal/ sandstone/ phosphates/ United States/ Dolores County/ Mesa County/ Gilpin County/ Igneous-metamorphic/ Clear Creek County/ Montrose County/ San Miguel County/ Front Range/ Colorado Plateau/

- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1955
genesis/ uranium/ ore deposits/ veins/ bituminous substances/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ Montrose County/ San Miguel County/ Mesa County/ Igneous-metamorphic/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1955
veins/ bituminous substances/ genesis/ uranium/ ore deposits/ igneous-metamorphic/ sandstone/ limestone/ coal/ shale/ pitchblende/ geochemistry/ age/ Front Range/ Colorado Plateau/ Gilpin County/ Clear Creek County/ San Miguel County/ Montrose County/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ ore deposits/ migmatites/ sandstone/ shale/ igneous-metamorphic/ Colorado/ Colorado Plateau/ San Juan County/ San Miguel County/ Jefferson County/ Montrose County/ Old Leyden mine/ coal/ Gilpin County/ Clear County/ uranium/ Front Range/ genesis/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ Colorado/ genesis/ uranium/ ore deposits/ pegmatites/ migmatites/ San Miguel County/ sandstone/ coal/ shale/ Front Range/ Colorado Plateau/ San Juan County/ replacement/ Jefferson County/ Montrose County/ Old Leyden mine/ Mesa County/ Gilpin County/ Igneous-metamorphic/ phosphorites/ Clear Creek County/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1952
uranium/ ore deposits/ igneous-metamorphic/ sandstone/ shale/ phosphorites/ Colorado Plateau/ Colorado/ Front Range/
- McKeown, F. A., and Gude, A. J., 3d, 1951
minerals/ carnotite/ clay/ coal/ lignite/ sandstone/ Laramie Formation/ Front Range/ Jefferson County/ ore deposits/ Old Leyden mine/ reserves/ geology/ structure/
- Merewether, E. A., 1960
ore deposits/ resources/ maps/ igneous-metamorphic/ geology/ Front Range/ Colorado Plateau/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Front Range/ exploration/ Morrison Formation/ phosphates/ shale/ sandstone/ igneous-metamorphic/ Mesa County/ Montrose County/ San Miguel County/ Montezuma County/ Dolores County/ Gilpin County/ Clear Creek County/ Garfield County/ Boulder County/
- Merritt, P. L., 1950
uranium/ exploration/ Colorado Plateau/ sandstone/ Morrison Formation/ Entrada Sandstone/ Mesa County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Caribou district/ igneous-metamorphic/ Montrose County/ Clear Creek County/
- Merritt, P. L., 1950
uranium/ Colorado Plateau/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ Front Range/ Boulder County/ Gilpin County/ Clear Creek County/ Caribou district/ igneous-metamorphic/
- Merritt, R. C., and Pings, W. B., 1969
uranium ore treatment/ processing/ history/ mining/ Colorado Plateau/ sandstone/ Front Range/ igneous-metamorphic/
- Merwin, S. S., 1956
Front Range/ ore deposits/ uranium/ Jefferson County/ Gilpin County/ Clear Creek County/ Boulder County/ Schwrtzwalder mine/ Caribou mine/ Wood mine/ igneous-metamorphic/
- Merwin, S. S., 1956
Front Range/ ore deposits/ ore controls/ Jefferson County/ Boulder County/ Gilpin County/ Clear Creek County/ igneous-metamorphic/
- Moench, R. H., 1953
mapping/ Idaho Springs district/ Precambrian rocks/ veins/ igneous-metamorphic/ mineralogy/ Stanley mines/ Lawrence L claim/ P. J. claim (?)/ radioactivity/ Clear Creek County/ Gilpin County/ Front Range/ geology/
- Moench, R. H., 1964
geology/ Precambrian rocks/ Idaho Springs district/ petrography/ Clear Creek County/ Gilpin County/ igneous-metamorphic/ Front Range/
- Moench, R. H., and Drake, A. A., Jr., 1966
economic geology/ pitchblende/ coffinite/ uranophane/ Idaho Springs district/ Clear Creek County/ Gilpin County/ mineralogy/ ore deposits/ Front Range/ production/ igneous-metamorphic/
- Moench, R. H., Harrison, J. E., and Sims, P. K., 1954
Precambrian rocks/ structure/ Idaho Springs district/ Front Range/ geology/ Gilpin County/ Jefferson County/ igneous-metamorphic/ Clear Creek County/
- Moench, R. H., Harrison, J. E., and Sims, P. K., 1962
Precambrian rocks/ structure/ Idaho Springs district/ Central City district/ Front Range/ Gilpin County/ Clear Creek County/ igneous-metamorphic/
- Moore, F. B., 1953
Dumont-Fall River area/ Clear Creek County/ radioactivity/ veins/ Golden Calf mine/ Front Range/ igneous-metamorphic/
- Moore, F. B., and Butler, C. R., 1950
ore deposits/ Gilpin County/ Central City district/ pitchblende/ Calhoun (east and west) mines/

- Wood mine/ base metals/ precious metals/ veins/ igneous-metamorphic/ Front Range/ geology/ reserves/ bostonite porphyry/ Front Range/
- Moore, F. B., and Butler, C. R., 1952
Gilpin County/ Central City district/ ore deposits/ pitchblende/ Wood mine/ Calhoun mine/ veins/ igneous-metamorphic/ Front Range/ bostonite/ porphyry/
- Moore, F. B., and Cavender, W. S., 1952
pitchblende/ Caribou mine/ Boulder County/ uranium/ igneous-metamorphic/ veins/ ore deposits/ Front Range/
- Moore, F. B., and Cavender, W. S., 1952
veins/ Caribou mine/ Boulder County/ pitchblende/ igneous-metamorphic/ monzonite/ uranium/ Front Range/ ore deposits/
- Moore, F. B., and Cavender, W. S., 1953
pitchblende/ Caribou mine/ Boulder County/ veins/ monzonite/ igneous-metamorphic/ ore deposits/ Front Range/
- Moore, F. B., and Hawley, C. C., 1952
geology/ ore deposits/ Lawson-Dumont-Fall River district/ Clear Creek County/ igneous-metamorphic/ Front Range/
- Moore, F. B., and Hawley, C. C., 1953
Dumont-Fall River district/ Clear Creek County/ igneous-metamorphic/ mapping/ veins/ radioactivity/ Front Range/
- Moore, F. B., Cavender, W. S., and Kaiser, E. P., 1954
Boulder County/ Caribou area/ pitchblende/ ore deposits/ geology/ igneous-metamorphic/ Belcher mine/ Caribou mines/ Comstock mine/ Cross mine/ Great Northern mine/ Idaho mine/ No Name vein/ Poorman mine/ Potosi mine/ Radium vein/ Seven-thirty mine/ Sherman mine/ Silver Point mine/ Socorro mine/ Spencer mine/ Wigwam mine/ veins/ Front Range/ St. Louis mine/
- Moore, F. B., Cavender, W. S., and Kaiser, E. P., 1957
Boulder County/ Caribou area/ pitchblende/ ore deposits/ geology/ igneous-metamorphic/ Belcher mine/ Caribou mines/ Comstock mine/ Cross mine/ Great Northern mine/ Idaho mine/ No Name vein/ Poorman mine/ Potosi mine/ Radium vein/ St. Louis mine/ Seven-thirty mine/ Sherman mine/ Silver Point mine/ Socorro mine/ Spencer mine/ Wigwam mine/ veins/ Front Range/
- Moore, F. B., King, R. U., and Hinrichs, E. N., 1951
Caribou district/ Central City district/ Front Range/ Clear Creek County/ Gilpin County/ Boulder County/ ore deposits/ Grand Island district/ Jamestown district/ Lawson area/ Quartz Hill area/ fluorite deposits/ Calhoun mines/ Caribou mines/ Jo Reynolds mine/ Kirk mine/ Wood mine/ pitchblende/ breccia deposits/ igneous-metamorphic/ exploration/
- Moore, R. B., 1913
ore deposits/ carnotite/ Colorado/ Utah/ mining/ uranium/ radium/ vanadium/ North Carolina/ marketing/ San Miguel County/ Montrose County/ Mesa County/ Gilpin County/ pitchblende/ Huerfano County/ Colorado Plateau/ Front Range/ sandstone/
- Moya, E. A., 1969
structure/ stratigraphy/ analyses/ Precambrian rocks/ North Clear Creek area/ Jefferson County/ Gilpin County/ igneous-metamorphic/ Front Range/
- Muench, O. B., 1940
Colorado/ pitchblende/ lead/ uranium/ pegmatites/ igneous-metamorphic/ Front Range/
- Murray, D. K., 1976
energy resources/ map/ uranium/ coal/ oil/ gas/ geothermal/ Colorado/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/
- Narten, P. F., Crawford, J. E., and Butler, A. P., Jr., 1951
Clear Creek County/ Garfield County/ Jefferson County/ Montrose County/ Rio Blanco County/ Dakota Sandstone/ Mesa County/ Fountain Formation/ Green River Formation/ Laramie Formation/ Hermosa Formation/ Paradox Member/ shales/ sandstone/ Front Range/ Colorado Plateau/
- Nash, A. L., and Brown, L. J., 1954
Canon City embayment/ airborne radiometrics/ Pueblo County/ shale/ clay/ George Avery Ranch/ carnotite/ analyses/ Hoyt Adkins Ranch/ Burgess prospect/ El Paso County/ Dawson Arkose/ sandstone/ Dakota Formation/ Fremont County/ geology/ Morrison Formation/ Front Range/
- Neuerburg, G. J., 1967
Boulder County/ Caribou stock/ accessory minerals/ magnetite/ zircon/ sulfides/ igneous-metamorphic/ uranium/ Front Range/
- Neuerburg, G. J., Antweiler, J. C., and Bieler, B. H., 1955
uranium/ leachability/ igneous-metamorphic/ geochemistry/ leaching studies/ analytical techniques/ Montana/ Arizona/ Front Range/ Colorado/ Wyoming/
- Nishimori, R. K., Ragland, P. C., Rogers, J. J., and others, 1977
uranium/ ore deposits/ granite/ igneous-metamorphic/ Wheeler Basin/ Grand County/ Front Range/ Park County/ Clear Creek County/ Gilpin County/ Boulder County/ Jefferson County/ bostonite dikes/ Central City district/
- Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/

- Osterwald, F. W., 1956
veins/ structural geology/ Precambrian rocks/
Teller County/ structural controls/ ore deposits/
Cordilleran foreland/ Igneous-metamorphic/ Gilpin
County/ Front Range/ tectonics/ El Paso County/
Larimer County/ Clear Creek County/
- Osterwald, F. W., 1965
ore deposits/ genesis/ veins/ mining districts/
structural controls/ Moffat County/ pitchblende/
conglomerate/ Front Range/ Igneous-metamorphic/
sandstone/ Jefferson County/ Boulder County/
Montrose County/ Clear Creek County/ Gilpin
County/ Saguache County/ Fremont County/
- Osterwald, F. W., and Dean, B. G., 1956
bibliography/ structural geology/ Gilpin County/
Larimer County/ Boulder County/ Jefferson County/
Clear Creek County/ Igneous-metamorphic/ sandstone/
Front Range/ Grand County/ Jackson County/ Summit
County/ Eagle County/ Rio Blanco County/ Garfield
County/ Routt County/ Moffat County/ ore deposits/
tectonics/
- Osterwald, F. W., and Dean, B. G., 1958
ore deposits/ tectonics/ structural geology/
Larimer County/ Boulder County/ Jefferson County/
Gilpin County/ Clear Creek County/ Igneous-metamorphic/
sandstone/ Front Range/ Grand County/ Jackson
County/ Summit County/ Eagle County/ Rio Blanco
County/ Garfield County/ Routt County/ Moffat
County/
- Osterwald, F. W., and Dean, B. G., 1961
Cordilleran foreland/ ore deposits/ genesis/
structural controls/ tectonic patterns/ Front
Range/ Denver basin/ uranium/ igneous-metamorphic/
Jefferson County/ Boulder County/ Clear Creek
County/ Gilpin County/ Larimer County/
- Page, L. R., 1950
Mount Antero region/ Crystal Mountain district/
San Juan Mountains/ Chaffee County/ Larimer
County/ helvite/ pegmatites/ beryllium/ beryl/
Colorado Plateau/ Igneous-metamorphic/ Devils
Hole mine/ Fremont County/ Gunnison County/
Jefferson County/ San Juan County/ Front Range/
aquamarine/
- Page, L. R., 1950
beryllium/ beryl/ Colorado Plateau/ pegmatites/
Larimer County/ igneous-metamorphic/ San Juan
County/ Devils Hole mine/ Fremont County/ Gunnison
County/ Jefferson County/ Mount Antero/ Chaffee
County/ aquamarine/ Front Range/ Crystal Mountain
district/
- Page, L. R., 1950
pegmatite/ geochemistry/ igneous-metamorphic/
uranium/ mineralogy/ Gunnison County/ Larimer
County/ Chaffee County/ Fremont County/ Front
Range/
- Page, L. R., Stocking, H. E., and Smith, H. B.,
compilers, 1956
Colorado Plateau/ Front Range/ Gunnison County/
limestone/ Montrose County/ Jefferson County/
- arkosa/ sandstone/ shale/ geology/ uranium/
thorium/ exploration/ igneous-metamorphic/ San
Miguel County/ geochemistry/ mineralogy/ conglomerate/
- Pearce, Richard, 1896
ore deposits/ uraninite/ Gilpin County/ igneous-metamorphic/
veins/ Front Range/ Wood mine/
- Pearce, Richard, 1898
uraninite/ veins/ igneous-metamorphic/ Gilpin
County/ Front Range/
- Pearce, Richard, 1898
uraninite/ veins/ igneous-metamorphic/ Gilpin
County/ Front Range/ Wood mine/
- Pearce, Richard, 1916
veins/ uraninite/ igneous-metamorphic/ Gilpin
County/ Front Range/ Wood mine/
- Phair, George, 1952
ore deposits/ porphyries/ radioactivity/ Gilpin
County/ Central City district/ pitchblende/
Tertiary/ deposition/ Front Range/ mineralogy/
petrology/ geochemistry/ zircon/ veins/ uranium/
thorium/ analyses/ Quartz Hill/ Nigger Hill
dike/ Clear Creek County/ igneous-metamorphic/
ore deposits/
- Phair, George, 1952
Front Range/ Central City district/ ore deposits/
Clear Creek County/ Gilpin County/ analyses/
quartz monzonite/ igneous-metamorphic/ Wood
mine/ Kirk Mine/ Quartz Hill area/ pitchblende/
Copper King mine/ Larimer County/ paragenesis/
- Phair, George, 1953
Front Range/ veins/ igneous-metamorphic/ ore
deposits/ Central City district/ Idaho Springs
district/ Gilpin County/ Clear Creek County/
reserves/ Wood mine/ Kirk mine/ Bonanza mine/
German mine/ pitchblende/ Martha E mine/
- Phair, George, 1953
Front Range/ Central City district/ ore deposits/
geochemistry/ petrology/ mineralogy/ bostonite/
pitchblende/ Wood mine/ Kirk mine/ igneous-metamorphic/
Quartz Hill area/ Copper King mine/ Larimer
County/ Jamestown district/ Boulder County/
Chalk Mountain rhyolite/ Climax/ beta-uranophane/
uraninite/ Lake County/ Eagle County/ Summit
County/
- Phair, George, 1953
mineralogy/ geochemistry/ Copper King mine/
Larimer County/ pitchblende/ uraninite/ coffinite/
Front Range/ ore deposits/ igneous-metamorphic/
- Phair, George, 1954
uranium/ veins/ igneous-metamorphic/ Front Range/
pitchblende/ porphyries/ thorium/ ore deposits/
- Phair, George, 1955
ore deposits/ mineralization/ igneous-metamorphic/
thorium/ analyses/ granite/ Front Range/ Boulder
Creek batholith/ Sherman granite/ Pikes Peak
granite/ New Hampshire/ Boulder County/

- Phair, George, 1956
Colorado/ New Hampshire/ ore deposits/ geochemistry/ igneous rocks/ igneous-metamorphic/ Precambrian rocks/ granite/ Boulder Creek batholith/ Silver Plume granite/ Front Range/ Boulder County/
- Phair, George, 1958
uranium/ thorium/ intrusives/ Laramide/ mineralogy/ geochemistry/ Caribou complex/ Boulder County/ Central City district/ Clear Creek County/ Gilpin County/ Jamestown district/ Gold Hill district/ Front Range/ igneous-metamorphic/
- Phair, George, and Antwaller, J. C., 1954
Larimer County/ Copper King mine/ ore deposits/ geochemistry/ mineralogy/ uraninite/ coffinite/ pitchblende/ Front Range/ Central City district/ Gilpin County/ igneous-metamorphic/ absolute age/ Clear Creek County/
- Phair, George, and Gottfried, David, 1955
Front Range/ Boulder Creek batholith/ Silver Plume/ ore deposits/ uranium/ Precambrian rocks/ granite/ igneous-metamorphic/ thorium/ Boulder County/
- Phair, George, and Gottfried, David, 1958
fractionation/ uranium/ rocks/ minerals/ Boulder Creek batholith/ igneous-metamorphic/ Front Range/ Boulder County/
- Phair, George, and Gottfried, David, 1958
zircon/ Boulder Creek batholith/ Front Range/ igneous-metamorphic/ granite/ uranium/ Precambrian rocks/ age dates/ ore deposits/ Boulder County/
- Phair, George, and Gottfried, David, 1964
Front Range/ ore province/ thorium/ uranium/ igneous-metamorphic/ Boulder County/ Clear Creek County/ Gilpin County/ Jefferson County/ Larimer County/
- Phair, George, and Herz, Norman, 1953
ore deposits/ pitchblende/ coffinite/ geochemistry/ Front Range/ igneous-metamorphic/ quartz bostonite dikes/ Central City district/ Clear Creek County/ Gilpin County/ mineralogy/ petrology/
- Phair, George, and Jenkins, L. B., 1975
uranium/ thorium/ data/ igneous-metamorphic/ intrusives/ Mesozoic/ Cenozoic/ Colorado/ Colorado Plateau/ Front Range/
- Phair, George, and Levine, Harry, 1952
Central City district/ Wood mine/ geochemistry/ uranium/ radium/ lead/ pitchblende/ solutions/ Katanga/ Great Bear Lake/ Russel Gulch/ Clear Creek County/ Gilpin County/ igneous-metamorphic/ Front Range/ differential leaching/
- Phair, George, and Levine, Harry, 1952
uranium/ radium/ lead/ pitchblende/ Wood mine/ Central City district/ Gilpin County/ analyses/ exploration/ igneous-metamorphic/ Clear Creek County/ Front Range/ differential leaching/
- Phair, George, and Levine, Harry, 1953
uranium/ radium/ lead/ pitchblende/ Central City district/ Gilpin County/ igneous metamorphic/ Front Range/ differential leaching/
- Phair, George, and Mela, Henry, Jr., 1955
Bergen Park/ Breckenridge district/ Caribou district/ age determination/ Front Range/ Cotopaxi/ Gold Hill/ Guffey/ Laramide/ isotopes/ Lawson-Dumont/ Silver Plume/ El Paso County/ mineralogy/ petrology/ geochemistry/ galena/ Summit County/ Boulder County/ Clear Creek County/ Gilpin County/ Fremont County/ Chaffee County/ isotopic variation/ igneous-metamorphic/
- Phair, George, and Onoda, Kiyoko, 1950
Boulder County/ Jamestown district/ ore deposits/ mineralogy/ petrology/ geochemistry/ uraninite/ Blue Jay mine/ igneous-metamorphic/ Front Range/ fluorite/ veins/ fluorite breccias/
- Phair, George, and Onoda, Kiyoko, 1951
Jamestown district/ Boulder County/ ore deposits/ hydrothermal uranochlorite/ fluorite breccias/ mineralogy/ petrology/ geochemistry/ thorium/ haloes/ Blue Jay mine/ igneous-metamorphic/ Front Range/
- Phair, George, and Shimamoto, K. O., 1952
veins/ hydrothermal uranochlorite/ Blue Jay mine/ Jamestown district/ Boulder County/ thin sections/ heavy minerals/ New Zealand/ Alaska/ comparisons/ fluorite breccias/ mineralogy/ petrology/ geochemistry/ haloes/ Front Range/ igneous-metamorphic/
- Phair, George, and Shimamoto, K. O., 1953
Front Range/ ore deposits/ mineralization/ mineralogy/ petrology/ geochemistry/ porphyries/ pitchblende/ Central City district/ igneous-metamorphic/ Clear Creek County/ Gilpin County/
- Phair, George, and Sims, P. K., 1954
Larimer County/ Copper King mine/ ore deposits/ paragenesis/ mineralization/ age dating/ uranium/ igneous-metamorphic/ Front Range/
- Piller, Richard, and Adams, J. A. S., 1959
ore deposits/ resources/ Pennsylvanian/ thorium/ weathering profile/ uranium/ Boulder County/ analyses/ Front Range/ geochemistry/ igneous-metamorphic/
- Piller, Richard, and Adams, J. A. S., 1962
weathering profiles/ pre-Pennsylvanian/ Pennsylvanian/ thorium/ uranium/ Boulder County/ geochemistry/ igneous-metamorphic/ analyses/ Front Range/
- Popenoe, Peter, 1965
arkose/ shale/ sandstone/ conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ geology/ aeroradioactivity survey/ conglomerate/ Front Range/
- Popenoe, Peter, 1965
Laramie Formation/ Dawson arkose/ Pierre Shale/ Castle Rock Conglomerate/ Denver basin/ Larimer County/ Boulder County/ Jefferson County/ Douglas County/ Elbert County/ Arapahoe County/ Denver County/ Adams County/ Weld County/ Morgan County/ gamma-ray logs/ airborne radioactivity/ Front Range/ Fox Hills Sandstone/

- Rabbitt, J. C., 1950
analyses/ geochemistry/ petrology/ Colorado Plateau/ sandstone/ trace elements/ Front Range/ Igneous-metamorphic/
- Rabbitt, J. C., 1950
trace elements/ annual report/ Colorado Plateau/ Front Range/ sandstone/ Igneous-metamorphic/
- Rabbitt, J. C., 1951
Central City district/ Jamestown district/ ore deposits/ pitchblende/ Blue Jay mine/ bostonite/ fluorite/ veins/ breccia/ Colorado Plateau/ carnotite project/ sandstone/ Igneous-metamorphic/ Boulder County/ Gilpin County/ Clear Creek County/ Front Range/
- Rabbitt, J. C., 1951
Blue Jay mine/ Jamestown district/ Colorado Plateau/ bostonite dikes/ Front Range/ Central City district/ mineralogy/ petrology/ geochemistry/ radioactivity/ fluorite/ Clear Creek County/ pitchblende/ ore deposits/ minerals/ Gilpin County/ veins/ breccia/ sandstone/ Boulder County/ Igneous-metamorphic/
- Rabbitt, J. C., 1951
Front Range/ Central City district/ ore deposits/ ore guides/ exploration/ Clear Creek County/ Gilpin County/ Colorado Plateau/ Jamestown district/ mineralogy/ petrology/ geochemistry/ pitchblende/ Blue Jay mine/ bostonite/ fluorite/ veins/ breccia/ sandstone/ Igneous-metamorphic/ Boulder County/
- Rabbitt, J. C., 1952
Colorado Plateau/ carnotite project/ Gilpin County/ Larimer County/ sandstone/ Igneous-metamorphic/ Front Range/
- Rabbitt, J. C., 1952
Colorado Plateau/ Front Range/ Central City district/ ore deposits/ exploration/ trace elements/ sandstone/ Igneous-metamorphic/ Gilpin County/ Clear Creek County/
- Ray, E. D., 1975
mining/ Jefferson County/ Schwartzwalder mine/ Ladwig mine/ Igneous-metamorphic/ district 1/ Front Range/
- Rich, R. A., and Barabas, A., 1976
mineralogy/ paragenesis/ fluid inclusions/ genesis/ Schwartzwalder mine/ ore deposits/ Jefferson County/ Front Range/ Igneous-metamorphic/
- Rich, R. A., Holland, H. D., and Peterson, U., 1975
veins/ uranium/ ore deposits/ mineralogy/ fluid inclusions/ paragenesis/ hydrothermal/ pitchblende/ ground water/ Front Range/ Jefferson County/ Clear Creek County/ Gilpin County/ Gunnison County/ Saguache County/ Marshall Pass district/ Schwartzwalder mine/ Igneous-metamorphic/
- Rich, R. A., Holland, H. D., and Peterson, U., 1977
geology/ mineralogy/ geochemistry/ genetic models/ hydrothermal uranium deposits/ ore deposits/ Igneous-metamorphic/ genesis/ Front Range/
- Rickard, Forbes, 1913
veins/ Quartz Hill area/ Gilpin County/ pitchblende/ Front Range/ Igneous-metamorphic/
- Ridland, G. C., 1949
Caribou mine/ silver/ uranium/ pitchblende/ Boulder County/ geology/ Igneous-metamorphic/ Idaho Springs biotite schist/ Precambrian rocks/ quartz monzonite property/ No Name vein/ Front Range/ veins/
- Ridland, G. C., 1950
veins/ ore deposits/ pitchblende/ Boulder County/ Caribou mine/ radioactivity/ No Name vein/ Radium vein/ Igneous-metamorphic/ Front Range/ silver/
- Ridland, G. C., 1951
ore deposits/ pitchblende/ Boulder County/ Caribou mine/ radioactivity/ No Name vein/ Radium vein/ veins/ Igneous-metamorphic/ Front Range/ silver/
- Riley, L. B., 1946
Park County/ sandstone/ Garo district/ carnotite/ copper/ vanadium/ Front Range/
- Riley, T. H., 1953
uranium/ stratigraphy/ copper/ Jefferson County/ mineralogy/ geochemistry/ geology/ mineralization/ minerals/ Ralston Creek area/ Golden Gate Canyon area/ Precambrian rocks/ pitchblende/ Idaho Springs Formation/ breccia reefs/ ore deposits/ Front Range/ Schwartzwalder mine/
- Rocky Mountain Association of Geologists, 1955
Front Range/ Jefferson County/ geology/ Deer Creek area/ Ralston Creek area/ Igneous-metamorphic/
- Rocky Mountain Energy Corporation, 1972
map/ geology/ Front Range/ Jefferson County/ Igneous-metamorphic/
- Rove, O. N., 1946
trace elements/ reconnaissance/ Colorado Plateau/ Front Range/ sandstone/ Igneous-metamorphic/
- Russell, W. L., and Scherbatskoy, S. A., 1951
Colorado Plateau/ ore deposits/ genesis/ exploration/ gamma-ray detectors/ sandstone/ Front Range/ instrumentation/ Morrison Formation/ Salt Wash Member/ Gilpin County/ Clear Creek County/ Boulder County/ San Miguel County/ Montrose County/ Igneous-metamorphic/ Entrada Sandstone/
- Saum, N. M., and Link, J. M., 1969
uranium/ ore deposits/ exploration/ history/ Front Range/ Schwartzwalder mine/ Jefferson County/ Igneous-metamorphic/ geochemistry/ genesis/ hydrothermal deposits/ sandstone/ Morrison Formation/ Uravan district/ Montrose County/ San Miguel County/ Mesa County/ New Mexico/ Utah/ Wyoming/ diatremes/ lignites/ phosphates/ remote sensing/ Colorado Plateau/
- Schlottmann, J. D., 1961
uranium/ ore deposits/ exploration/ mineralogy/ Foothills mine/ Idledale district/ Jefferson County/ veins/ Igneous-metamorphic/ paragenesis/ Wright lease/ quartz monzonite breccia/ Front Range/

- Schlottmann, J. D., 1961
geology/ Schwartzwalder mine/ ore deposits/
Jefferson County/ Igneous-metamorphic/ Front
Range/
- Scott, B. C., 1957
uranium/ ore deposits/ geology/ asphaltite/
sandstone/ faults/ thermal waters/ ground water/
mineralization/ Dakota hogback/ structure/ Morrison
area/ Jefferson County/ Front Range/ Dakota
Sandstone/
- Scott, R. C., and Barker, F. B., 1962
data/ uranium/ radium/ ground water/ analyses/
Logan County/ Phillips County/ Prowers County/
Yuma County/ Jefferson County/ Garfield County/
Kit Carson County/ Pitkin County/ Mesa County/
Huerfano County/ Baca County/ Montezuma County/
Front Range/ Colorado Plateau/
- Shedd, J. C., 1912
El Paso County/ mineral springs/ radioactivity/
Manitou/ Front Range/
- Sheridan, D. M., 1953
Jefferson County/ veins/ pitchblende/ Front
Range/ uranium/ igneous-metamorphic/ Schwartzwalder
mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon
area/ Ralston Creek area/ mineralogy/ paragenesis/
structure/ copper/ faults/ Ralston Buttes district/
Ascension mine/
- Sheridan, D. M., 1955
Jefferson County/ veins/ pitchblende/ Front
Range/ uranium/ igneous-metamorphic/ Schwartzwalder
mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon
area/ Ralston Creek area/ mineralogy/ paragenesis/
structure/ copper/ faults/ Ralston Buttes district/
Ascension mine/
- Sheridan, D. M., 1956
Jefferson County/ veins/ pitchblende/ Ascension
mine/ Front Range/ uranium/ igneous-metamorphic/
Schwartzwalder mine/ Mena mine/ Ladwig lease/
Golden Gate Canyon area/ Ralston Creek area/
mineralogy/ faults/ copper/ Ralston Buttes district/
- Sheridan, D. M., 1956
Jefferson County/ pitchblende/ Ralston Buttes
district/ Front Range/ uranium/ igneous-metamorphic/
Schwartzwalder mine/ Mena mine/ Ladwig lease/
Golden Gate Canyon area/ Ralston Creek area/
mineralogy/ faults/ copper/ paragenesis/ structure/
Ascension mine/
- Sheridan, D. M., and Maxwell, C. H., 1953
Ralston Buttes district/ ore deposits/ exploration/
Jefferson County/ veins/ pitchblende/ Front
Range/ uranium/ igneous-metamorphic/ Schwartzwalder
mine/ Mena mine/ Ascension mine/ Ladwig lease/
Golden Gate Canyon area/ Ralston Creek area/
mineralogy/ paragenesis/ structure/ copper/
faults/
- Sheridan, D. M., and Maxwell, C. H., 1954
Jefferson County/ veins/ pitchblende/ Front
Range/ uranium/ igneous-metamorphic/ Schwartzwalder
mine/ Mena mine/ Ladwig lease/ Golden Gate Canyon
area/ Ralston Creek area/ mineralogy/ paragenesis/
structure/ copper/ faults/ Ralston Buttes district/
Ascension mine/
- Sheridan, D. M., and Maxwell, C. H., 1954
Front Range/ igneous-metamorphic/ Ralston Buttes
district/ Jefferson County/ pitchblende/ Schwartzwalder
mine/ Golden Gate Canyon area/ exploration/
- Sheridan, D. M., Maxwell, C. H., Albee, A. L.,
and others, 1958
Jefferson County/ veins/ pitchblende/ bedrock
geology/ Front Range/ uranium/ igneous-metamorphic/
Schwartzwalder mine/ Ladwig lease/ Mena mine/
Ascension mine/ Golden Gate Canyon area/ mineralogy/
paragenesis/ structure/ copper/ faults/ Ralston
Buttes quadrangle/ Ralston Buttes district/
Ralston Creek area/
- Sheridan, D. M., Maxwell, C. H., Albee, A. L.,
and others, 1967
Ralston Buttes district/ ore deposits/ genesis/
geology/ maps/ Jefferson County/ Schwartzwalder
mine/ Mena mine/ Ascension mine/ Ladwig lease/
structure/ Ralston Creek area/ mineralogy/ paragenesis/
copper/ faults/ uranium/ economic geology/ production/
Front Range/ veins/ breccia/ pitchblende/ gneiss/
pegmatite/ igneous-metamorphic/ Golden Gate
Canyon area/
- Sheridan, D. M., Maxwell, C. H., Albee, A. L.,
and others, n.d.
Jefferson County/ Juanita Arch quadrangle/ veins/
pitchblende/ Ralston Buttes district/ Front
Range/ uranium/ igneous-metamorphic/ Schwartzwalder
mine/ Ascension mine/ Ladwig lease/ Mena mine/
Golden Gate Canyon area/ Ralston Creek area/
mineralogy/ paragenesis/ structure/ copper/
faults/
- Sims, P. K., 1953
Front Range/ ore deposits/ exploration/ Clear
Creek County/ Gilpin County/ igneous-metamorphic/
- Sims, P. K., 1953
ore deposits/ Central City district/ Georgetown
district/ Front Range/ Clear Creek County/ Gilpin
County/ igneous-metamorphic/
- Sims, P. K., 1954
veins/ igneous-metamorphic/ Clear Creek County/
Gilpin County/ Front Range/ ore deposits/
- Sims, P. K., 1954
Front Range/ ore deposits/ mineralogy/ petrology/
igneous-metamorphic/ Gilpin County/ Clear Creek
County/

- Sims, P. K., 1955
Gilpin County/ Central City district/ mineralogy/ petrology/ geochemistry/ pitchblende/ ore deposits/ veins/ Front Range/ Igneous-metamorphic/ paragenesis/ structure/
- Sims, P. K., 1955
paragenesis/ structure/ pitchblende/ veins/ Igneous-metamorphic/ Gilpin County/ uranium/ mineralogy/ Front Range/ ore deposits/ Buckhorn mica mine/ Bucky claim/ Opportunity No. 1 claim/ Trio claims/ White Spar claim/ Quartz Creek district/ uranium/ thorium/ Colorado/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/
- Sims, P. K., 1955
veins/ Tertiary/ Igneous-metamorphic/ Front Range/ ore deposits/
- Sims, P. K., 1955
ore deposits/ veins/ Igneous-metamorphic/ Front Range/ Precambrian rocks/ pegmatites/
- Sims, P. K., 1955
Front Range/ ore deposits/ trace elements/ Clear Creek County/ Gilpin County/ Igneous-metamorphic/
- Sims, P. K., 1956
veins/ Front Range/ Igneous-metamorphic/ geology/ ore deposits/ Gilpin County/ Clear Creek County/
- Sims, P. K., 1956
Front Range/ ore deposits/ uranium/ Larimer County/ Boulder County/ Gilpin County/ Clear Creek County/ Jefferson County/ Fremont County/ Igneous-metamorphic/
- Sims, P. K., 1956
Gilpin County/ ore deposits/ pitchblende/ genesis/ structural controls/ veins/ Front Range/ Clear Creek County/ geology/ uranium/ Igneous-metamorphic/ Central City district/ mineralogy/ paragenesis/
- Sims, P. K., 1956
Front Range/ Gilpin County/ Central City district/ mineralogy/ petrology/ geochemistry/ pitchblende/ ore deposits/ zoning/ tennantite/ Calhoun (East and West) mines/ Carroll mine/ J.P. Whitney mine/ genesis/ host rocks/ intrusive structures/ veins/ stratigraphy/ Precambrian rocks/ uranium/ Igneous-metamorphic/ paragenesis/ structure/ pitchblende-bearing vein
- Sims, P. K., 1957
Front Range/ Igneous-metamorphic/ veins/ geology/ ore deposits/ Gilpin County/ Clear Creek County/
- Sims, P. K., 1960
mineralogy/ hypogene zoning/ Central City district/ Gilpin County/ Clear Creek County/ Igneous-metamorphic/ Front Range/
- Sims, P. K., 1960
hypogene zoning/ mineralogy/ Gilpin County/ Clear Creek County/ Central City district/ Front Range/ Igneous-metamorphic/
- Sims, P. K., 1960
Clear Creek County/ Gilpin County/ geology/ Igneous-metamorphic/ Central City district/ guldebook/
- Sims, P. K., 1963
geology/ uranium/ ore deposits/ Front Range/ Gilpin County/ production/ Summit County/ Clear Creek County/ Boulder County/ Grand County/ Central City district/ Idaho Springs district/ Lawson-Dumont-Fall River district/ Freeland-Lamartine district/ gneiss/ thorium/ pegmatites/ alaskite/ bostonite/ Chicago Creek district/ Igneous-metamorphic/ monazite/
- Sims, P. K., 1964
Gilpin County/ Clear Creek County/ Igneous-metamorphic/ Central City quadrangle/ Russell Gulch/ geology/ Front Range/
- Sims, P. K., and Barton, P. B., Jr., 1962
Gilpin County/ Central City district/ hypogene zoning/ ore genesis/ ore deposits/ Igneous-metamorphic/ Front Range/ petrology/
- Sims, P. K., and Drake, A. A., Jr., 1953
Front Range/ Central City district/ Gilpin County/ Clear Creek County/ Igneous-metamorphic/ Jefferson County/ geology/ ore deposits/
- Sims, P. K., and Gable, D. J., 1963
cordierite/ Precambrian rocks/ gneiss/ Igneous-metamorphic/ Central City quadrangle/ Gilpin County/ Clear Creek County/ Front Range/ minerals/ Central City district/ geology/
- Sims, P. K., and Gable, D. J., 1964
geology/ Precambrian rocks/ Central City district/ Gilpin County/ Clear Creek County/ uranium/ thorium/ monazite/ Igneous-metamorphic/ pegmatites/ gneiss/ granite/ Front Range/
- Sims, P. K., and Gable, D. J., 1967
petrology/ structure/ Precambrian rocks/ Gilpin County/ Clear Creek County/ Igneous-metamorphic/ pegmatites/ gneiss/ granite/ uranium/ thorium/ Front Range/ geology/ map/ Central City district/ Trio claims/ White Spar claim/ Quartz Creek district/ uranium/ thorium/ Colorado/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/
- Sims, P. K., and others, 1959
Front Range/ Igneous-metamorphic/ uranium/ ore deposits/ geology/ Clear Creek County/ Gilpin County/
- Sims, P. K., and Phair, George, 1952
age determination/ Front Range/ Larimer County/ mineralogy/ petrology/ geochemistry/ mines/ minerals/ pitchblende/ Copper King mine/ fault breccia/ shear zones/ veins/ stratigraphy/ Precambrian rocks/ veins/ geology/ Prairie Divide area/ Igneous-metamorphic/
- Sims, P. K., and Phair, George, 1953
pitchblende/ ore deposits/ Copper King mine/ Larimer County/ uranium/ Igneous-metamorphic/ Front Range/

FRONT RANGE

- Sims, P. K., and Sheridan, D. M., 1964
geology/ ore deposits/ Front Range/ genesis/
mineralogy/ analyses/ emission spectroscopy/
uranium/ veins/ igneous-metamorphic/ Clear Creek
County/ Gilpin County/ Boulder County/ Larimer
County/
- Sims, P. K., and Tooker, E. W., 1954
Eureka Gulch area/ Central City district/ Gilpin
County/ igneous-metamorphic/ maps/ Front Range/
geology/
- Sims, P. K., and Tooker, E. W., 1955
metatorbernite/ alteration/ wall rocks/ Gilpin
County/ uranium/ igneous-metamorphic/ veins/
Front Range/ Central City district/
- Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/
pitchblende/ Central City district/ veins/ uranium/
igneous-metamorphic/ bostonite/ production/
pegmatites/ gneiss/ genesis/ Front Range/
- Sims, P. K., and Tooker, E. W., 1956
Clear Creek County/ Gilpin County/ ore deposits/
pitchblende/ Central City district/ veins/ uranium/
igneous-metamorphic/ bostonite/ production/
pegmatite/ gneiss/ Front Range/ genesis/
- Sims, P. K., and Toulmin, Priestley, 3d, 1961
temperature of formation/ Precambrian rocks/
Copper King mine/ Front Range/ Larimer County/
igneous-metamorphic/ uranium/ granite/ ore deposits/
uranium/ thorium/ Colorado/ gneiss/ origin/
Sharon Springs Member/ Hermosa Formation/ Paradox
Member/
- Sims, P. K., Drake, A. A., Jr., and Moench, R.
H., 1953
Gilpin County/ Clear Creek County/ igneous-metamorphic/
Central City district/ Front Range/ geology/
ore deposits/
- Sims, P. K., Drake, A. A., Jr., and Moench, R.
H., 1953
Gilpin County/ Clear Creek County/ Central City
district/ geology/ maps/ ore deposits/ Iron
mine/ veins/ Russell Gulch area/ Quartz Hill
area/ Nevada Gulch area/ pitchblende/ Wood mine/
Calhoun mine/ Gold King claim/ Kirk mine/ Ross
shaft/ Belcher claims/ Front Range/ German claims/
Pewabic mine/ igneous-metamorphic/
- Sims, P. K., Drake, A. A., Jr., and Moench, R.
H., 1954
veins/ maps/ Central City district/ Gilpin County/
igneous-metamorphic/ Front Range/ geology/
- Sims, P. K., Drake, A. A., Jr., and Tooker, E.
W., 1963
economic geology/ Central City district/ Gilpin
County/ igneous-metamorphic/ production/ geology/
ore deposits/ mineralogy/ uranium/ pitchblende/
veins/ Front Range/ granite/ gneiss/ pegmatites/
- Sims, P. K., Harrison, J.E., and Moore, F. B., 1952
Central City district/ Dumont district/ Fall
River district/ Eureka Gulch district/ Front

FRONT RANGE

- Range/ Georgetown area/ Clear Creek County/
pitchblende/ Diamond Mountain (Lanagan) mine/
Gomer mine/ Golden Calf mine/ Golden Glen mine/
Martha E. mine/ veins/ Old Town mine/ Spread
Eagle mine/ reconnaissance/ Gilpin County/ ore
deposits/ base metals/ precious metals/ igneous-metamorphic/
Freeland-Lamartine district/
- Sims, P. K., Moench, R. H., Drake, A. A., Jr.,
and others, 1963
uranium/ ore deposits/ Central City district/
Idaho Springs district/ mining/ Gilpin County/
Clear Creek County/ Front Range/ igneous-metamorphic/
- Sims, P. K., Osterwald, F. W., and Tooker, E. W.,
1954
Gilpin County/ igneous-metamorphic/ Wood mine/
Nigger Hill/ Uinta Mountains/ Central City district/
mineralogy/ petrology/ geochemistry/ pitchblende/
ore deposits/ veins/ minerals/ kasolite/ metatorbernite/
Buckley mine/ Bullion mine/ Carroll mine/ Claire
Marie mine/ Rara Avis mine/ R.H.D. mine/ Two
Sisters mine/ stratigraphy/ Precambrian rocks/
genesis/ Front Range/ Eureka Gulch area/
- Sims, P. K., Osterwald, F. W., and Tooker, E. W.,
1955
Gilpin County/ ore deposits/ petrology/ Eureka
Gulch area/ veins/ geology/ Central City district/
pitchblend/ metatorbernite/ igneous-metamorphic/
uranium/ Front Range/
- Sims, P. K., Phair, George, and Moench, R. H., 1955
age determination/ Front Range/ Larimer County/
mineralogy/ petrology/ geochemistry/ pitchblende/
ore deposits/ wall rock/ geology/ Copper King
mine/ minerals/ coffinite/ uraninite/ Precambrian
rocks/ base metals/ stratigraphy/ precious metals/
metamorphic rocks/ veins/ genesis/ igneous-metamorphic/
- Sims, P. K., Phair, George, and Moench, R. H., 1958
Larimer County/ Copper King mine/ ore deposits/
petrology/ geology/ Front Range/ igneous-metamorphic/
- Sims, P. K., Tooker, E. W., and Osterwald, F. W.,
1954
Central City district/ Gilpin County/ Eureka
Gulch area/ geology/ igneous-metamorphic/ uranium/
ore deposits/ Front Range/ maps/
- Sims, P. K., Young, E. J., and Sharp, W. N., 1961
coffinite/ uranium/ veins/ Front Range/ Boulder
County/ Larimer County/ Jefferson County/ Clear
Creek County/ igneous-metamorphic/ ore deposits/
- Singewald, Q. D., Christman, R. A., and others, 1956
Custer County/ Fremont County/ McKinley Mountain
area/ igneous-metamorphic/ geology/ radiometrics/
maps/ City/ Colorado Plateau/ Gilpin County/
metamorphic/ ore deposits/ Colorado/ sandstone/
Front Range/
- Slaughter, A. L., and Clabaugh, S. E., 1945
Jefferson County/ trace elements/ igneous-metamorphic/
coal/ carnotite/ Front Range/
- Soister, P. E., Conklin, D. R., and Bowman, M.
D., 1956
Colorado/ New Mexico/ Utah/ Arizona/ United

- States/ bibliography/ trace element reports/
uranium/ vanadium/ thorium/ sandstone/ Colorado
Plateau/ Front Range/ Igneous-metamorphic/
- Soule, J. H., 1960
Jefferson County/ ore deposits/ resources/ production/
mining/ methods/ economics/ Schwartzwalder mine/
uranium/ igneous-metamorphic/ Front Range/ development/
Ralston Creek district/ geology/ history/
- Staatz, M. H., 1975
thorium/ ore deposits/ igneous-metamorphic/
Custer County/ Fremont County/ Gunnison County/
deposits/ Colorado/ igneous-metamorphic/ sandstone/
Front Range/
- Staatz, M. H., 1976
thorium/ resources/ igneous-metamorphic/ Custer
County/ Fremont County/ Gunnison County/ Front
Range/
- Staatz, M. H., Adams, J. W., and Wahlberg, J. S.,
1976
thorite/ Searle pegmatite/ igneous-metamorphic/
fluorite/ mineralogy/ geochemistry/ uraninite/
Jefferson County/ Front Range/ thorium/ pegmatites/
- Staatz, M. H., and Trites, A. F., Jr., 1952
Front Range/ granite/ pegmatites/ igneous-metamorphic/
geology/ structure/ mineralogy/ Gunnison County/
Wood Gulch/ Gulch/ beryllium/ petrology/ geochemistry/
minerals/ allanite/ monazite/ pyrochlore-microlite/
Brown Derby claim/ Black Wonder claim/ Beryl
and Rare Minerals Lode claim/ Buckhorn mica
mine/ Bucky claim/ Opportunity No. 1 claim/
Trilo claims/ White Spar claim/ Quartz Creek
district/ uranium/ thorium/ gneiss/ origin/
Sharon Springs Member/ Hermosa Formation/ Paradox
Member/
- Staatz, M. H., and Trites, A. F., Jr., 1955
Front Range/ granite/ pegmatites/ igneous-metamorphic/
geology/ structure/ mineralogy/ Gunnison County/
Wood Gulch/ beryllium/ petrology/ geochemistry/
minerals/ gneiss/ allanite/ monazite/ pyrochlore-microlite/
uranium/ thorium/ origin/ Black Wonder claim/
Brown Derby claim/ Buckhorn mica mine/ Bucky
claim/ Opportunity No. 1 claim/ Trilo claims/
White Spur claim/ Quartz Creek district/ Beryl
and Rare Minerals Lode claim/
- Stahl, R. L., 1974
Schwartzwalder mine/ Jefferson County/ Front
Range/ igneous-metamorphic/ surface resistivity/
faults/ fault detection/ fault delineation/
structure/
- Stern, T. W., and Stieff, L. R., 1953
Colorado Plateau/ Larimer County/ Mesa County/
minerals/ coffinite/ Copper King mine/ La Sal
No. 2 mine/ sandstone/ Front Range/ igneous-metamorphic/
- Stern, T. W., Stieff, L. R., and Sherwood, A. M.,
1955
coffinite/ uranium/ ore deposits/ Colorado Plateau/
sandstone/ Larimer County/ Copper King mine/
mineralogy/ chemistry/ Front Range/ veins/ Montrose
County/ igneous-metamorphic/
- Stieff, L. R., and Stern, T. W., 1951
age determination/ Colorado Plateau/ genesis/
sandstone/ uranium/ Front Range/ conglomerate/
lead-uranium ratio/ uraninite/ Shinarump conglomerate/
Shinarump Member/ Moenkopi Formation/
- Stieff, L. R., and Stern, T. W., 1952
age determination/ Colorado Plateau/ genesis/
sandstone/ ore deposits/ uranium/ Front Range/
conglomerate/ lead-uranium ratio ages/ uraninite/
Shinarump Member/
- Stieff, L. R., and Stern, T. W., 1952
age determination/ Colorado Plateau/ genesis/
sandstone/ ore deposits/ uranium/ Front Range/
conglomerate/ lead-uranium ratio/ uraninite/
Shinarump Member/ Moenkopi Formation/
- Stieff, L. R., and Stern, T. W., 1953
age determination/ Colorado Plateau/ Front Range/
uraninite/ host formations/ Morrison Formation/
Shinarump Member/ Chinle Formation/ sandstone/
conglomerate/
- Stieff, L. R., Stern, T. W., and Mikey, R. G., 1952
Colorado Plateau/ age dating/ uranium/ ore deposits/
Pb-U ratio/ Pb-Pb ratio/ sandstone/ uranium/
genesis/ Front Range/
- Stieff, L. R., Stern, T. W., and Mikey, R. G., 1955
Uravan district/ Jefferson County/ Larimer County/
Mesa County/ Montrose County/ San Miguel County/
coffinite/ Copper King mine/ La Sal No. 2 mine/
Matchless mine/ Old Leyden coal mine/ Peanut
mine/ Robinson property/ pyrobitumins/ Weatherly
property/ Wild Steer mine/ veins/ sandstone/
Cutler Formation/ Dolores Formation/ mineralogy/
Laramie Formation/ Morrison Formation/ Salt
Wash Member/ igneous-metamorphic/ Colorado Plateau/
Front Range/
- Stieff, L. R., Stern, T. W., and Mikey, R. G., 1956
Front Range/ coffinite/ uranium/ silicates/
Colorado Plateau/ Copper King mine/ Larimer
County/ Arrowhead mine/ Mesa County/ Jefferson
County/ Montrose County/ San Miguel County/
geochemistry/ x-ray analyses/ mineralogy/ sandstone/
igneous-metamorphic/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/
Colorado Plateau/ Larimer County/ Arrowhead
mine/ Mesa County/ Jefferson County/ Montrose
County/ x-ray analyses/ San Miguel County/ sandstone/
Copper King mine/ geochemistry/ igneous-metamorphic/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/
Copper King mine/ Larimer County/ Arrowhead
mine/ Mesa County/ Jefferson County/ x-ray analyses/
Montrose County/ San Miguel County/ geochemistry/
Colorado Plateau/ sandstone/ igneous-metamorphic/
- Stugard, Frederick, Jr., Wyant, D. G., and Gude,
A. J., 3d, 1951
uranium/ ore deposits/ United States/ Colorado
Plateau/ Front Range/ sandstone/ igneous-metamorphic/

- Stugard, Frederick, Jr., Wyant, D. G., and Gude, A. J., 3d, 1952
veins/ uranium/ secondary deposits/ United States/ Central City district/ Colorado Plateau/ Gilpin County/ ore deposits/ igneous-metamorphic/ sandstone/ Front Range/
- Taylor, R. B., 1975
geology/ map/ Black Hawk quadrangle/ Gilpin County/ Jefferson County/ Clear Creek County/ Front Range/ igneous-metamorphic/
- Theobald, P. K., and Gullinger, R. R., 1955
veins/ FMD mine/ Jefferson County/ shear zones/ copper/ radioactivity/ igneous-metamorphic/ geology/ Front Range/
- Thurston, W. R., 1950
beryllium/ pegmatites/ Larimer County/ Big Boulder prospect/ igneous-metamorphic/ exploration/ Front Range/ beryl/
- Thurston, W. R., 1950
beryllium/ pegmatites/ Larimer County/ Hyatt mica mine/ pegmatite/ beryl/ igneous-metamorphic/ exploration/ Front Range/ Hyatt pegmatite/
- Thurston, W. R., 1950
beryllium/ pegmatites/ Larimer County/ Buckhorn mica mine/ drilling/ sections/ igneous-metamorphic/ Front Range/ exploration/
- Thurston, W. R., 1952
igneous-metamorphic/ Buckhorn mica mine/ schist/ Hyatt area/ Front Range/ beryllium/ pegmatites/ Crystal Mountain district/ mineralogy/ petrology/ geochemistry/ minerals/ autunite/ gummite/ uraninite/ Big Boulder prospect/ Hyatt Mica pegmatite/ reserves/ resources/ uranium/ thorium/ beryl/ Larimer County/ metatorbernite/
- Thurston, W. R., 1955
Front Range/ Larimer County/ igneous-metamorphic/ schist/ granite/ diorite/ pegmatites/ Crystal Mountain district/ uraninite/ structure/ alteration/ Hyatt pegmatite/ Big Boulder prospect/ Buckhorn mica mine/ Idaho Springs Formation/
- Tooker, E. W., 1953
wall rock alteration/ Front Range/ igneous-metamorphic/ Gilpin County/ Clear Creek County/
- Tooker, E. W., 1955
Gilpin County/ Clear Creek County/ Central City district/ Idaho Springs district/ mineralogy/ petrology/ alteration/ geochemistry/ wall rock/ igneous-metamorphic/ uranium/ veins/ Front Range/
- Tooker, E. W., 1956
Central City district/ Idaho Springs district/ igneous-metamorphic/ alteration/ veins/ wall rocks/ sulfides/ structures/ ore deposits/ Front Range/ Gilpin County/ Clear Creek County/
- Tooker, E. W., 1963
alteration/ wall rocks/ Front Range/ Gilpin County/ Clear Creek County/ igneous-metamorphic/
- Tovote, W. L., 1906
Gilpin County/ pitchblende/ igneous-metamorphic/ Front Range/
- Tovote, W. L., 1906
Boulder County/ igneous-metamorphic/ Front Range/
- Trautwein, C. M., 1975
Precambrian rocks/ stratigraphy/ structure/ metamorphic petrology/ Eldorado Springs quadrangle/ Ralston Buttes quadrangle/ Jefferson County/ Boulder County/ Front Range/ igneous-metamorphic/
- Tripp, R. M., 1944
radon/ Fort Collins anticline/ Weld County/ Front Range/ Larimer County/ sandstone/
- U.S. Atomic Energy Commission, and U.S. Geological Survey, 1956
prospecting/ sandstone/ Colorado Plateau/ uranium/ thorium/ techniques/ geology/ exploration/ Front Range/ igneous-metamorphic/ Colorado/ United States/
- U.S. Atomic Energy Commission, 1959
uranium/ geology/ exploration/ United States/ mining/ uranium mines/ mineralogy/ Colorado Plateau/ bibliography/ guidebook/ sandstone/ Colorado/ ore deposits/ igneous-metamorphic/ Front Range/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Arapahoe County/ reconnaissance/ ore deposits/ sandstone/ Front Range/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Boulder County/ Front Range/ ore deposits/ reconnaissance/ igneous-metamorphic/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Costilla County/ reconnaissance/ ore deposits/ Front Range/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Denver County/ reconnaissance/ ore deposits/ Front Range/ slag/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Douglas County/ reconnaissance/ ore deposits/ Front Range/ sandstone/

- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ El Paso County/ reconnaissance/ ore deposits/ Front Range/ sandstone/ Igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Fremont County/ reconnaissance/ ore deposits/ Front Range/ sandstone/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Gilpin County/ reconnaissance/ ore deposits/ Front Range/ igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Jefferson County/ reconnaissance/ ore deposits/ Front Range/ sandstone/ sandstone/ coal/ igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Larimer County/ reconnaissance/ ore deposits/ Front Range/ igneous-metamorphic/
- U.S. Atomic Energy Commission, 1966
geology/ uranium/ geophysical prospecting/ economic geology/ mining engineering/ petrology/ minerals/ radioactivity/ Pueblo County/ reconnaissance/ ore deposits/ Front Range/ sandstone/
- U.S. Atomic Energy Commission, 1969
geology/ mineralogy/ ore deposits/ AEC reports/ uranium/ document types/ information retrieval/ Front Range/ bibliography/ Colorado Plateau/
- U.S. Energy Research and Development Administration, 1976
resources/ United States/ uranium districts/ sandstone/ igneous-metamorphic/ Colorado Plateau/ geology/ veins/ Great Plains/ Front Range/ Rocky Mountains/ NURE program/
- U.S. Geological Survey, 1950
shales/ radioactivity/ carbonaceous shales/ Jefferson County/ Rio Blanco County/ oil shale/ Front Range/ Colorado Plateau/ bituminous shales/
- U.S. Geological Survey, 1950
Front Range/ igneous-metamorphic/ sandstone/
- U.S. Geological Survey, 1953
sandstone/ Colorado Plateau/ Front Range/ veins/ igneous-metamorphic/ thorium/ Powderhorn district/ natural waters/ Morrison Formation/ Mesa County/ San Miguel County/ Dolores County/ Gilpin County/ San Juan County/ La Plata County/ Ouray County/ geology/ Gunnison County/ Montrose County/ San Juan Mountains/ Clear Creek County/ ore deposits/
- U.S. Geological Survey, 1953
geologic mapping/ Colorado Plateau/ Front Range/ carbonaceous rocks/ geochemistry/ reconnaissance/
- black shales/ sandstone/ igneous-metamorphic/ geology/ ore deposits/ Gilpin County/ Clear Creek County/ Jefferson County/ Montrose County/ Mesa County/ San Miguel County/ Gunnison County/
- U.S. Geological Survey, 1953
Colorado Plateau/ Front Range/ sandstone/ coal/ springs/ igneous-metamorphic/ shale/ Gilpin County/ Clear Creek County/ Jefferson County/ Boulder County/ Custer County/ thorium/ Gunnison County/ La Plata County/ San Juan County/ Ouray County/
- U.S. Geological Survey, 1953
Colorado Plateau/ veins/ Front Range/ Morrison Formation/ Triassic studies/ mineralogy/ petrology/ analyses/ sandstone/ igneous-metamorphic/ permeability/ geophysics/ gamma-ray logs/ ground water studies/ trace elements/
- U.S. Geological Survey, 1954
Clear Creek County/ Gilpin County/ ore deposits/ reserves/ Colorado Plateau/ exploration/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Garfield County/ Moffat County/ Dolores County/ Rio Blanco County/ Front Range/ igneous-metamorphic/ Jefferson County/ pitchblende/ hydrogeochemical exploration/ stream sediments/ ground water/ mine waters/
- U.S. Geological Survey, 1954
Colorado Plateau/ geophysics/ Front Range/ sandstone/ mineralogy/ coal/ shales/ reconnaissance/ petrology/ stratigraphy/ sandstone/ igneous-metamorphic/ geology/ ore deposits/
- U.S. Geological Survey, 1954
Colorado Plateau/ sandstone/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ ore deposits/ Morrison Formation/ geology/ Chino Formation/ Shinarump Member/ reserves/ San Juan Mountains/ snow/ surface water/ ground water/ Ouray County/ San Juan County/ conglomerate/ igneous-metamorphic/ Front Range/
- U.S. Geological Survey, 1954
Front Range/ Colorado Plateau/ stratigraphy/ botanical prospecting/ mineralogy/ Ralston Buttes district/ black shale/ reconnaissance/ analyses/ Jefferson County/ sandstone/ igneous-metamorphic/
- U.S. Geological Survey, 1955
Beaver Mesa/ Disappointment Valley/ Front Range/ Jo Dandy area/ La Sal Creek area/ Monogram Mesa/ exploration/ drilling/ Ralston Buttes district/ Uravan district/ Montrose County/ San Miguel County/ Mesa County/ Jefferson County/ Colorado Plateau/ sandstone/ igneous-metamorphic/
- U.S. Geological Survey, 1955
Front Range/ Golden Gate Canyon area/ Uravan district/ exploration/ drilling/ Colorado Plateau/ Jefferson County/ San Miguel County/ Montrose County/ Mesa County/ Dolores County/ sandstone/ igneous-metamorphic/ Ralston Buttes district/
- U.S. Geological Survey, 1955
Colorado Plateau/ Front Range/ sandstone/ geologic mapping/ veins/ carbonaceous rocks/ geochemistry/

reconnaissance/ analyses/ Igneous-metamorphic/
Mesa County/ Montrose County/ Dolores County/
San Miguel County/ Montezuma County/ Fremont
County/ Jefferson County/

U.S. Geological Survey, 1956

Colorado Plateau/ Front Range/ veins/ geologic
mapping/ mineralogy/ petrology/ geophysics/
carbonaceous rocks/ analyses/ sandstone/ San
Miguel County/ Dolores County/ Montrose County/
Montezuma County/ Jefferson County/ Mesa County/
Igneous-metamorphic/

U.S. Geological Survey, 1956

Colorado Plateau/ mapping/ geology/ geophysics/
mineralogy/ vanadium/ carbonaceous rocks/ petrology/
San Miguel County/ sandstone/ igneous-metamorphic/
Dolores County/ Montrose County/ Montezuma County/
Jefferson County/ Front Range/ Mesa County/
Fremont County/

U.S. Geological Survey, 1956

Colorado Plateau/ Front Range/ geology/ geophysics/
mineralogy/ research/ sandstone/ San Miguel
County/ igneous-metamorphic/ Dolores County/
Montrose County/ Mesa County/ Montezuma County/
Jefferson County/ Fremont County/

U.S. Geological Survey, 1957

Colorado Plateau/ Front Range/ geology/ geochemistry/
geophysics/ thorium/ ore deposits/ sandstone/
Igneous-metamorphic/ San Miguel County/ Montrose
County/ Mesa County/ Gilpin County/ Clear Creek
County/

U.S. Geological Survey, 1957

Colorado Plateau/ Front Range/ geology/ geophysics/
mineralogy/ research/ San Miguel County/ Montrose
County/ sandstone/ igneous-metamorphic/ Mesa
County/ Clear Creek County/ Gilpin County/ ore
deposits/

U.S. Geological Survey, 1958

Colorado Plateau/ mapping/ geophysics/ Clear
Creek County/ geochemistry/ Maybell-Lay area/
Front Range/ Gilpin County/ research/ thorium/
Moffat County/ sandstone/ Mesa County/ San Miguel
County/ Montrose County/ igneous-metamorphic/

U.S. Geological Survey, 1958

Colorado Plateau/ geophysics/ geochemistry/
Gilpin County/ research/ Front Range/ thorium/
reconnaissance/ Mesa County/ sandstone/ Clear
Creek County/ Montrose County/ San Miguel County/
Igneous-metamorphic/

U.S. Geological Survey, 1971

Colorado/ minerals/ Colorado Plateau/ Front
Range/ sandstone/ igneous-metamorphic/ map/

United Nations, 1956

uranium/ thorium/ geology/ ore deposits/ geochemistry/
isotope geology/ Front Range/ Colorado Plateau/
sandstone/ igneous-metamorphic/

Van Horn, Richard, 1976

geology/ Golden quadrangle/ Jefferson County/
Igneous-metamorphic/ Front Range/

Vanderpool, J. S., 1957

paragenesis/ structure/ pitchblende/ veins/
igneous-metamorphic/ Gilpin County/ Front Range/
Central City district/

Vanderweilt, J. W., 1947

minerals/ resources/ Colorado/ uranium/ thorium/
sandstone/ Colorado Plateau/ Front Range/ igneous-metamorphic/

Vickers, R. C., compiler, 1951

bibliography/ trace element reports/ uranium/
vanadium/ thorium/ beryllium/ Colorado Plateau/
Front Range/ sandstone/ igneous-metamorphic/

Vine, J. D., 1956

uranium/ coal/ Old Leyden coal mine/ Jefferson
County/ Cretaceous/ Laramie Formation/ shale/
Front Range/

Vine, J. D., 1956

uranium/ coal/ Old Leyden coal mine/ Jefferson
County/ Cretaceous/ Laramie Formation/ shale/
Front Range/

Vine, J. D., 1962

geology/ uranium/ coal/ carbonaceous rocks/
Front Range/ Jefferson County/

Walker, G. W., 1956

ore deposits/ host rocks/ alteration/ veins/
sandstone/ igneous-metamorphic/ limestone/ Boulder
County/ Park County/ Front Range/ Gilpin County/
Clear Creek County/ Jefferson County/ Saguache
County/ coal/ dolomite/ Pitkin County/ Larimer
County/ Caribou mine/ Los Ochos mine/ Leyden
coal mine/ Copper King mine/

Walker, G. W., 1957

Marysvale/ leaching/ uranium/ ore deposits/
supergene alteration/ veins/ Marshall Pass/
Colorado/ Utah/ Saguache County/ Nigger shaft/
North Star mine/ Jefferson County/ Gilpin County/
Front Range/ sandstone/ igneous-metamorphic/
zoning/ Madonna mine/ Chaffee County/

Walker, G. W., 1963

alteration/ veins/ igneous-metamorphic/ sandstone/
limestone/ Boulder County/ Park County/ Front
Range/ Gilpin County/ Clear Creek County/ Jefferson
County/ Saguache County/ coal/ Cochetopa district/
ore deposits/ Placerville district/ San Miguel
County/ Larimer County/ Central City district/
Caribou mine/ Los Ochos mine/ Leyden coal mine/
Copper King mine/

Walker, G. W., 1963

Marysvale/ leaching/ uranium/ ore deposits/
supergene alteration/ veins/ Marshall Pass/
Colorado/ Utah/ Saguache County/ Nigger Shaft/
North Star mine/ Jefferson County/ Gilpin County/
Front Range/ sandstone/ igneous-metamorphic/
zoning/ Madonna mine/ Chaffee County/

Walker, G. W., 1963

age determination/ ore deposits/ veins/ Tertiary/
Cretaceous/ Front Range/ Wood mine/ Iron mine/
Gilpin County/ German mine/ Copper King mine/
Larimer County/ igneous-metamorphic/ Schwartzwalder
mine/ Jefferson County/ Los Ochos mine/ Saguache
County/ Isotopes/

- Walker, G. W., and Adams, J. W., 1957
Boulder County/ Larimer County/ Clear Creek County/ Central City district/ Gilpin County/ Caribou mine/ Front Range/ Jefferson County/ Placerville district/ San Miguel County/ Colorado Plateau/ ore deposits/ Marshall Pass/ Saguache County/ Copper King mine/ sandstone/ mineralogy/ veins/ textures/ structures/ paragenesis/ Los Ochos mine/ Schwartzwalder mine/ Igneous-metamorphic/
- Walker, G. W., and Adams, J. W., 1963
Boulder County/ Larimer County/ Placerville district/ Central City district/ Gilpin County/ Clear Creek County/ Front Range/ Jefferson County/ Schwartzwalder mine/ San Miguel County/ Colorado Plateau/ Copper King mine/ Saguache County/ ore deposits/ Caribou mine/ Los Ochos mine/ sandstone/ Colorado/ mineralogy/ Igneous-metamorphic/ textures/ structures/ paragenesis/
- Walker, G. W., and Osterwald, F. W., 1956
ore deposits/ veins/ fluorite/ Front Range/ Gilpin County/ coal/ Jefferson County/ Placerville district/ San Miguel County/ Clear Creek County/ sandstone/ Igneous-metamorphic/ Colorado Plateau/ Cochetopa district/ Saguache County/ Powderhorn district/ Custer County/ Chaffee County/
- Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ geology/ Front Range/ Gilpin County/ Jefferson County/ sandstone/ Boulder County/ San Miguel County/ Igneous-metamorphic/ Colorado Plateau/ Saguache County/ Custer County/ Chaffee County/ Clear Creek County/ Jamestown district/ Cochetopa district/ Powderhorn district/ Placerville district/
- Walker, G. W., and Osterwald, F. W., 1963
ore deposits/ veins/ genesis/ Placerville district/ transportation/ deposition/ depositional environments/ Clear Creek County/ Gilpin County/ Saguache County/ Jefferson County/ Cochetopa district/ Front Range/ San Miguel County/ Leyden coal mine/ Larimer County/ Boulder County/ sandstone/ Igneous-metamorphic/
- Wallace, S. R., and Campbell, R. H., 1953
Gold Hill/ ore deposits/ zoning/ Boulder County/ metalliferous districts/ Igneous-metamorphic/ Front Range/
- Wallace, S. R., and Campbell, R. H., 1954
ore deposits/ zoning/ Gold Hill/ Boulder County/ Igneous-metamorphic/ Front Range/
- Wallace, S. R., and Laub, D. C., 1954
veins/ Colorado/ Arizona/ ore deposits/ exploration/ zoning/ metalliferous deposits/ Gold Hill/ Boulder County/ Igneous-metamorphic/ Front Range/
- Wallace, S. R., Leonard, B. F., 3d, and Campbell, R. H., 1955
Breckenridge district/ Caribou district/ Central City district/ Summit County/ Gold Hill district/ Freeland-Lamarline district/ Front Range/ Georgetown district/ Silver Plume district/ Idaho Springs district/ Lawson - Dumont district/ Igneous-metamorphic/ Gilpin county/ Ward district/ Boulder County/ Clear Creek County/ hypogene mineral zoning/ Idaho Springs district/
- Waring, C. L., and Ansell, C. S., 1952
Larimer County/ Hyatt mica-beryl/ pegmatites/ spectrographic analyses/ pegmatite samples/ Front Range/ Igneous-metamorphic/ chemical analyses/
- Wells, J. D., 1955
structure/ granodiorite/ Ute Creek/ Clear Creek County/ Front Range/ Igneous-metamorphic/ petrology/
- Wells, J. D., 1960
petrology/ Tertiary rocks/ Igneous-metamorphic/ thorium/ Front Range/ radioactivity/ bostonite porphyry/ Gilpin County/ Clear Creek County/ volcanic rocks/ uranium/ petrography/
- Wells, J. D., 1967
geology/ Eldorado Springs quadrangle/ Boulder County/ Jefferson County/ Igneous-metamorphic/ Front Range/
- Wells, J. D., n.d.
geology/ Tertiary rocks/ Igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/
- Wells, J. D., and Harrison, J. E., 1953
Clear Creek County/ reconnaissance/ radioactivity/ Igneous-metamorphic/ Front Range/
- Wells, J. D., and Harrison, J. E., 1954
Clear Creek County/ ore deposits/ exploration/ veins/ radioactivity/ reconnaissance/ Front Range/ Igneous-metamorphic/
- Wells, J. D., Sheridan, P. M., and Albee, A. L., 1961
metamorphism/ structure/ geologic history/ Coal Creek area/ Front Range/ Igneous-metamorphic/ Jefferson County/ Clear Creek County/
- Wells, J. D., Sheridan, P. M., and Albee, A. L., 1964
Precambrian/ quartzite/ schist/ Coal Creek/ Front Range/ Igneous-metamorphic/ Jefferson County/ Clear Creek County/ Idaho Springs Formation/
- Wilmarth, V. R., Bauer, H. L., Jr., Staatz, M. H., and Wyant, D. G., 1951
uranium/ fluorite/ ore deposits/ ore classification/ Front Range/ Boulder County/ Igneous-metamorphic/ veins/
- Wilmarth, V. R., Bauer, H. L., Jr., Staatz, M. H., and others, 1952
veins/ fluorite/ uranium/ Front Range/ Boulder County/ ore deposits/ Igneous-metamorphic/ mineral association/
- Wilson, J. H., 1923
Denver area/ ore deposits/ carnotite/ sandstone/ Jefferson County/ Leyden coal mine/ Front Range/ Laramie Formation/
- Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/ ore deposits/ Jefferson County/ San Miguel County/ Saguache County/ Park County/ Boulder County/ Montrose County/ Moffat County/ sandstone/ Front Range/ coal/ Igneous-metamorphic/
- Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/

FRONT RANGE

sandstone/ production/ geology/ Boulder County/
Jefferson County/ Saguache County/ Park County/
Montrose County/ San Miguel County/ Moffat County/
coal/ igneous-metamorphic/ Front Range/

Wood, H. E., 1913

radium/ pitchblende/ Gilpin County/ chemical
separation/ igneous-metamorphic/ Front Range/

Wood, J. R., 1912

vanadium/ Boulder County/ igneous-metamorphic/
Front Range/

Wright, H. D., 1950

Caribou mine/ ore deposits/ radium/ mineralogy/
Boulder County/ Radium vein/ igneous-metamorphic/
uraninite/ sampling/ analyses/ paragenesis/
Front Range/ veins/

Wright, H. D., 1950

ore deposits/ radium/ veins/ wall-rock alteration/
Caribou mine/ Radium vein/ igneous-metamorphic/
uraninite/ Front Range/ Boulder County/

Wright, H. D., 1951

ore deposits/ paragenesis/ Boulder County/ Caribou
district/ Radium vein/ igneous-metamorphic/
uraninite/ silver/ Caribou mine/ Front Range/
veins/

Wright, H. D., 1951

Canada/ Ontario/ ore deposits/ uraninite/ Caribou
mine/ alteration/ Boulder County/ paragenesis/
Front Range/ igneous-metamorphic/

Wright, H. D., 1954

ore deposits/ uraninite/ mineralogy/ Boulder
County/ silver/ Radium vein/ uranium/ veins/
wall-rock/ igneous-metamorphic/ geochemistry/
Caribou mine/ Front Range/ Caribou district/

Wright, H. D., and Shulhof, W. P., 1957

veins/ sulfide minerals/ Front Range/ Boulder
County/ igneous-metamorphic/ ore deposits/

Wright, H. D., Hutta, J. J., Shulhof, W. P., and
Smith, C. M., 1957

veins/ igneous-metamorphic/ Clear Creek County/
sulfide minerals/ base metals/ mineral associations/
analyses/ paragenesis/ trace elements/ Idaho/
Arizona/ Central City district/ Carroll mine/
pitchblende/ solid solution/ ore deposits/ Front
Range/

Wyant, D. G., 1949

Larimer County/ Treasure Hill area/ schist/
granite/ igneous-metamorphic/ reconnaissance/
Front Range/ Precambrian rocks/

Wyant, D. G., 1949

Boulder County/ Wheelman (mine) tunnel/ pegmatites/
igneous-metamorphic/ Precambrian rocks/ granite/
gold/ wolframite/ veins/ Front Range/ analyses/

Wyant, D. G., 1949

Larimer County/ Spaulding-Woodhams prospects/
scheelite/ igneous-metamorphic/ Front Range/

FRONT RANGE

Wyant, D. G., Fischer, W. A., O'Sullivan, R. B.,
and others, 1951

Larimer County/ igneous-metamorphic/ Treasure
Hill area/ Front Range/

Young, E. J., 1972

Laramide/ Tertiary/ Intrusive rocks/ Colorado/
igneous-metamorphic/ Front Range/

Young, E. J., 1977

geology/ maps/ radiometric maps/ mineralogic
maps/ underground workings/ Schwartzwaldler mine/
igneous-metamorphic/ Front Range/ uranium/ Jefferson
County/

Young, E. J., and Lahr, M., 1975

Schwartzwalder mine/ Jefferson County/ Front
Range/ igneous-metamorphic/ uranium/ ore deposits/

Young, E. J., and Sims, P. K., 1958

Front Range/ xenotime/ monazite/ biotite gneiss/
migmatite/ igneous-metamorphic/ Gilpin County/
thorium/ Central City district/ Precambrian rocks/

Young, E. J., and Sims, P. K., 1961

Central City district/ Gilpin County/ petrography/
monazite/ xenotime/ Precambrian rocks/ gneiss/
genesis/ igneous-metamorphic/ Front Range/

Young, Patti, and Mickle, D. G., 1976

uranium/ favorability/ Tertiary rocks/ Badger
Flats/ Elkhorn thrust area/ Park County/ Teller
County/ igneous-metamorphic/ Front Range/

Thorium

- Adams, J. A. S., 1954
volcanic rocks/ uranium/ thorium/ analyses/
Larimer County/ igneous-metamorphic/ Grand County/
Rocky Mountain National Park/ Silverton/ San
Juan County/
- Adams, J. W., and Sharp, W. N., 1970
thalenite/ White Cloud pegmatite/ South Platte
district/ Jefferson County/ igneous-metamorphic/
rare earths/ thorium/ Front Range/
- Adams, J. W., and Sharp, W. N., 1972
thalenite/ allanite/ yttrium/ Jefferson County/
rare earths/ thorium/ pegmatite/ White Cloud
pegmatite/ igneous-metamorphic/ South Platte
district/ Front Range/
- Adams, J. W., and Staatz, M. H., 1973
rare earths/ thorium/ minerals/ resources/ Colorado/
igneous-metamorphic/ Front Range/
- Adams, J. W., and Stugard, Frederick, Jr., 1956
veins/ Jefferson County/ wall-rock control/
pitchblende/ uranium/ Golden Gate Canyon/ Union
Pacific prospect/ igneous-metamorphic/ Front
Range/ ore deposits/
- Adams, J. W., and Stugard, Frederick, Jr., 1956
Jefferson County/ wall-rock control/ pitchblende/
uranium/ Golden Gate Canyon/ veins/ Union Pacific
prospect/ igneous-metamorphic/ ore deposits/
Front Range/
- Adams, J. W., Hildebrand, F. A., and Havens, R.
G., 1962
thalenite/ thorium/ rare earths/ Teller County/
pegmatite/ igneous-metamorphic/ Front Range/
- Armbrustmacher, T. J., 1975
thorium/ Wet Mountains/ Fremont County/ Custer
County/ igneous-metamorphic/ veins/ ore deposits/
- Armbrustmacher, T. J., 1976
thorium/ Wet Mountains/ Fremont County/ Custer
County/ igneous-metamorphic/ veins/ ore deposits/
- Armstrong, F. C., 1975
uranium/ distribution/ granite/ igneous-metamorphic/
Colorado/
- Austin, S. R., 1962
thorium/ minerals/ mineralogy/ tables/ synonyms/
varieties/ doubtful species/ Colorado/
- Barrett, J. K., and Pearl, R. H., 1976
hydrogeological data/ thermal springs/ thermal
wells/ ground water/ radioactivity/ radium/
radon/ uranium/ thorium/ Colorado/
- Battelle-Pacific Northwest Laboratories, 1974
uranium/ thorium/ resources/ Colorado/ United
States/ policy alternatives/
- Bell, K. G., 1954
uranium/ thorium/ sedimentary rocks/ sandstone/
geology/ genesis/ placers/ stream deposits/
mudstone/ Chinle Formation/ Morrison Formation/
shale/ black shale/ carnotite/ uraninite/ Colorado
Plateau/
- Bell, K. G., 1956
Colorado Plateau/ ore deposits/ occurrence/
precipitates/ evaporites/ uranium/
- Bell, K. G., 1956
uranium/ precipitates/ evaporites/ Colorado
Plateau/ occurrence/
- Bellamy, R. G., and Hill, N. A., 1963
uranium/ thorium/ beryllium/ extraction/ metallurgy/
- Black, R. A., 1956
Colorado Plateau/ geophysics/ exploration/ Colorado/
electrical logging/ seismic logging/ gravity
surveys/ sandstone/ ore deposits/
- Black, R. A., 1956
Colorado Plateau/ geophysics/ exploration/ Colorado/
electrical logging/ seismic logging/ gravity
surveys/ sandstone/ ore deposits/
- Boardman, R. L., Ekren, E. B., and Bowers, H. E.,
1956
sedimentary features/ sandstone/ Morrison Formation/
Salt Wash Member/ uranium/ vanadium/ ore deposits/
Uravan district/ Montrose County/ Colorado Plateau/
geology/ Jurassic/
- Borrowman, S. R., and Bridges, D. W., 1963
ore deposits/ siliceous ores/ production/ Colorado/
solvent extraction/ thorium/ yttrium/
- Borrowman, S. R., and Rosenbaum, J. B., 1962
Colorado/ Idaho/ Montana/ ore deposits/ production/
methods/ thorium/ recovery/
- Boyer, R. E., 1961
Badito Cone/ zirconium/ phonolite/ Huerfano
County/ Dakota Sandstone/ Morrison Formation/
Stumbling Stud claims/ Wet Mountains/ Pueblo
County/ sandstone/ fluorite/ thorium/ uranium/
cement/ rhyolite/ igneous-metamorphic/
- Breger, I. A., and Deul, Maurice, 1956
bituminous substances/ uranium/ coal/ San Miguel
County/ Colorado Plateau/ oil/ organics/ geochemistry/
sandstone/
- Breger, I. A., and Deul, Maurice, 1956
bituminous substances/ uranium/ coal/ San Miguel
County/ geochemistry/ Colorado Plateau/ oil/
organics/ sandstone/
- Brock, M. R., and Singewald, Q. D., 1968
geology/ Mount Tyndall quadrangle/ Custer County/
thorium/ igneous-metamorphic/ ore deposits/
Wet Mountains/
- Brooks, R. A., 1975
colloids/ epigenesis/ ore-forming processes/
uranium/ ore deposits/ genesis/
- Brown, Andrew, 1961
bibliography/ radioactive deposits/ geology/
uranium/ thorium/ mineralogy/ geochemistry/

reconnaissance/ Colorado/ Colorado Plateau/ sandstone/ geobotany/ geophysics/ United States/ veins/ Igneous-metamorphic/ Front Range/ geologic investigations/

Cannon, H. L., and Kleinhampl, F. J., 1956
botanical methods/ exploration/ uranium/ geobotany/ analyses/ Indicator plants/ Colorado/ biogeochemistry/ sandstone/ Colorado Plateau/

Brown, H., and Silver, L. T., 1956
extraction/ processing/ low grade ores/ distribution/ Igneous-metamorphic/ uranium/ thorium/ Igneous rocks/ reserves/ resources/

Cannon, R. S., Jr., 1952
isotope geology/ uranium/ thorium/ decay products/ Colorado Plateau/ Front Range/ Morrison Formation/ sandstone/ Igneous-metamorphic/

Buck, K. L., 1955
bibliography/ thorium/ rare earths/ Alaska/ Colorado/ United States/ El Paso County/ Custer County/ Gunnison County/ Igneous-metamorphic/ ore deposits/

Carlithers, L. W., and Clinton, N. J., 1956
Colorado Plateau/ ore deposits/ sedimentary rocks/ sandstone/ terrestrial rocks/ marine rocks/ Moffat County/ Skull Creek district/ Montezuma County/ uranium/ Curtis Formation/ shoreline sandstone/

Buck, K. L., 1957
ore deposits/ bibliography/ thorium/ rare earths/ Alaska/ Colorado/ United States/ El Paso County/ Custer County/ Gunnison County/ Igneous-metamorphic/

Christman, R. A., Brock, M. R., and Singewald, Q. D., 1954
Wet Mountains/ ore deposits/ exploration/ Custer County/ thorium/ Fremont County/ Pueblo County/ veins/ Igneous-metamorphic/

Butler, A. P., Jr., 1947
thorium/ resources/ Front Range/ Igneous-metamorphic/

Christman, R. A., Brock, M. R., Pearson, R. C., and Singewald, Q. D., 1954
Wet Mountains/ Haputa Ranch/ Silver Cliff district/ McKinley Mountain area/ Rosita district/ Tuttle Ranch/ Westcliff area/ Custer County/ Fremont County/ Pine Tree claim/ stratigraphy/ ore deposits/ structure/ Precambrian rocks/ rare earths/ veins/ thorium/ Igneous-metamorphic/

Butler, A. P., Jr., 1952
Front Range/ thorium/ Colorado Plateau/ Morrison Formation/ Igneous-metamorphic/ Chinle Formation/ Shinarump Member/ geology/ ore deposits/ pegmatites/ veins/ sandstone/ placers/ carnotite/ fresh waters/ gases/ Gilpin County/ Clear Creek County/ Custer County/ Lake County/ San Miguel County/ Gunnison County/

Christman, R. A., Brock, M. R., Pearson, R. C., and others, 1955
Wet Mountains/ ore deposits/ thorium/ Custer County/ Fremont County/ veins/ Igneous-metamorphic/ rare earths/ Pueblo County/

Butler, A. P., Jr., and Schnabel, R. W., 1956
veins/ Front Range/ uranium/ occurrences/ United States/ Colorado/ Colorado Plateau/ sedimentary rocks/ water/ Igneous-metamorphic/ sandstone/

Christman, R. A., Brock, M. R., Pearson, R. C., and others, 1960
Wet Mountains/ ore deposits/ resources/ production/ geology/ thorium/ Custer County/ Pueblo County/ Fremont County/ veins/ Igneous-metamorphic/

Butler, A. P., Jr., and Schnabel, R. W., 1956
veins/ occurrences/ United States/ Colorado/ Front Range/ Colorado Plateau/ uranium/ sedimentary rocks/ water/ Igneous-metamorphic/ sandstone/

Christman, R. A., Heyman, A. M., Dellwig, L. F., and others, 1953
veins/ thorium/ Wet Mountains/ Custer County/ thorite/ shear zones/ metamorphic rocks/ ore deposits/ Igneous-metamorphic/

Butler, A. P., Jr., Killen, P. L., Page, G. B., and Rubey, W. W., 1947
ore deposits/ resources/ reconnaissance/ Front Range/ reserves/ Colorado Plateau/ carnotite/ uranium/ vanadium/ Igneous-metamorphic/ uraninite/ Iron Hill/ Gunnison County/ Gilpin County/ Clear Creek County/ radioactive springs/ thorium/ mineralogy/ San Miguel County/ Montrose County/ Mesa County/ sandstone/ genesis/

Christman, R. A., Heyman, A. M., Dellwig, L. F., and others, 1953
thorium/ Wet Mountains/ Custer County/ Fremont County/ metamorphic rocks/ thorite/ ore deposits/ veins/ Igneous-metamorphic/ shear zones/

Cadigan, R. A., and Feimlee, J. K., 1975
geochemistry/ radioactive springs/ exploration/ Delta County/ spring deposits/ radium/ uranium/

Christman, R. A., Heyman, A. M., Dellwig, L. F., and others, 1953
thorium/ reconnaissance/ Wet Mountains/ Fremont County/ Custer County/ Igneous-metamorphic/ exploration/ veins/ ore deposits/

Campbell, J. A., 1975
uranium potential/ Permian rocks/ Colorado Plateau/ sandstone/ ore deposits/

Christman, R. A., Heyman, A. M., Dellwig, L. F., 1953
drilling/ analyses/ Igneous-metamorphic/ Wet Mountains/ structure/ geology/ mineralogy/ Custer County/ Fremont County/ Haputa Ranch/ Tuttle Ranch/ stratigraphy/ Precambrian rocks/ thorium/ rare earths/ ore deposits/ veins/ Atomic Mountain

Campbell, J. A., ed., 1977
uranium/ thorium/ geology/ geochemistry/ Colorado/ symposium/

Cannon, H. L., and Kleinhampl, F. J., 1956
Colorado Plateau/ botanical methods/ exploration/ geobotany/ prospecting/ uranium/ analyses/ Indicator plants/ Colorado/ biogeochemistry/ sandstone/

- group/ Barite lode/ thorite/ Big Chief l claim/
Darby extension/
- Clinton, N. J., and Carlthers, L. W., 1956
Colorado Plateau/ sandstone/ marginal marine
rocks/ uranium/ Curtis Formation/ genesis/ geology/
Moffat County/ ore deposits/ Montezuma County/
terrestrial rocks/ Skull Creek district/ Shoreline
Sandstone/
- Coats, R. R., 1956
felsic volcanic rocks/ igneous-metamorphic/
uranium/ trace elements/ Cenozoic/ genesis/
Gunnison County/ Pitkin County/ Lake County/
Park County/ Chaffee County/ Ouray County/ Saguache
County/ Hinsdale County/
- Coats, R. R., 1956
uranium/ trace elements/ felsic volcanic rocks/
Cenozoic/ genesis/ igneous-metamorphic/ Gunnison
County/ Pitkin County/ Lake County/ Park County/
Chaffee County/ Ouray County/ Saguache County/
Hinsdale County/
- Colorado Geological Survey, 1968
minerals/ water/ resources/ Colorado/ uranium/
thorium/ Colorado Plateau/ Front Range/ sandstone/
igneous-metamorphic/
- Conroy, A. R., 1960
Wet Mountains/ ore deposits/ geology/ Custer
County/ thorium/ igneous-metamorphic/
- Cooper, Margaret, 1951
bibliography/ uranium/ thorium/ carbonaceous
deposits/ Colorado/ Colorado Plateau/ Mesa County/
sandstone/ San Miguel County/ Dolores County/
Montezuma County/ ore deposits/ Montrose County/
- Cooper, Margaret, 1951
bibliography/ uranium/ thorium/ carbonaceous
deposits/ Colorado/ Colorado Plateau/ Mesa County/
Montrose County/ San Miguel County/ Montezuma
County/ Dolores County/ organics/ sandstone/
- Cooper, Margaret, 1953
Colorado/ Utah/ bibliography/ uranium/ thorium/
sandstone/ radioactive occurrences/ ore deposits/
Colorado Plateau/ Front Range/ igneous-metamorphic/
- Cooper, Margaret, 1953
Colorado/ uranium/ exploration/ geology/ ore
deposits/ bibliography/ geobotany/ geochemistry/
geophysics/ thorium/
- Cooper, Margaret, 1954
Colorado/ Utah/ bibliography/ uranium/ thorium/
sandstone/ radioactive occurrences/ ore deposits/
Colorado Plateau/ Front Range/ igneous-metamorphic/
- Craig, L. C., Brooks, R. A., and Patton, P. C.,
eds., 1975
uranium/ thorium/ research/ geology/ reports/
abstracts/ geochemistry/
- Cross, C. W., and Larsen, E. S., 1935
geology/ San Juan region/ igneous-metamorphic/
ore deposits/ alkaline complex/ thorium/ Iron
Hill/ Powderhorn area/ Gunnison County/
- Damon, P. E., and Feely, H. W., 1957
analyses/ uranium/ gamma-ray spectrometry/ isotopes/
radiometric methods/ ore deposits/ thorium/
- Dellwig, L. F., 1951
Willis Tuttle ranch/ Greenwood thorium property/
thorium/ rare earths/ ore deposits/ Wet Mountains/
Custer County/ Fremont County/ igneous-metamorphic/
alkalic rocks/
- Dellwig, L. F., and Gott, G. B., 1951
Custer County/ rare earth minerals/ shear zone
material/ veins/ Haputa Ranch/ ore deposits/
Wet Mountains/ thorium/ thorite/ fault breccia/
igneous-metamorphic/
- Denson, M. E., Jr., 1956
ore deposits/ exploration/ geophysics/ geochemistry/
Colorado/ Front Range/ South Dakota/ Wyoming/
uranium/ thorium/ geology/ Jefferson County/
igneous-metamorphic/
- Denson, M. E., Jr., 1956
Colorado/ Front Range/ geophysics/ geochemistry/
South Dakota/ Wyoming/ exploration/ uranium/
thorium/ Jefferson County/ igneous-metamorphic/
geology/ ore deposits/
- Denson, N. M., Zeller, H. D., and Stephens, J.
G., 1956
hydrogeochemistry/ volcanics/ ground water/
springs/ surface water/ exploration guides/
evaluation/ exploration/ uranium/ Wyoming/ South
Dakota/ igneous-metamorphic/ ore deposits/
- Denson, N. M., Zeller, H. D., and Stephens, J.
G., 1956
hydrogeochemistry/ volcanics/ ground water/
springs/ surface water/ exploration guides/
evaluation/ exploration/ uranium/ Wyoming/ South
Dakota/ igneous-metamorphic/ ore deposits/
- Derzay, R. C., 1956
Los Ochos mine/ ore deposits/ Saguache County/
veins/ uranium/ geology/ mineralogy/ metamorphic
rocks/ Cochetopa district/ igneous-metamorphic/
thorium/
- Derzay, R. C., 1956
veins/ geology/ mineralogy/ metamorphic rocks/
Cochetopa district/ Los Ochos mine/ uranium/
Saguache County/ igneous-metamorphic/ ore deposits/
thorium/
- Dodd, P. H., 1956
Jurassic/ Morrison Formation/ Colorado Plateau/
Wedding Bell mines/ Montrose County/ San Miguel
County/ sandstone/ uranium/ vanadium/
ore controls/ ore deposits/
- Dodd, P. H., 1956
Jurassic/ Morrison Formation/ Colorado Plateau/
ore deposits/ Wedding Bell mines/ Montrose County/
County/ sandstone/ uranium/ vanadium/ ore controls/
San Miguel County/
- Doe, B. R., and Pearson, R. C., 1969
chronology/ age dating/ uranium/ thorium/ lead/
zircon/ granite/ Chaffee County/ Gunnison County/

- analyses/ St. Kevin granite/ Igneous-metamorphic/ Sawatch Range/
- Dooley, J. R., Jr., and Hathaway, J. C., 1961
mineralogy/ thorium/ rhabdophane/ veins/ Precambrian rock/ Gunnison County/ Igneous-metamorphic/
- Eberline Instrument Corporation, 1974
alpha sources/ beta sources/ Colorado/ fallout/ milk/ plutonium/ radiation monitoring/ radioactivity/ radiolotopes/ Rio Blanco event/ soils/ surface air/ surface waters/ thorium/ tritium/ uranium/
- Eckel, E. B., 1961
description/ minerals/ Colorado/ uranium/ vanadium/ thorium/ Colorado Plateau/ Front Range/ sandstone/ Igneous-metamorphic/
- European Nuclear Energy Agency, 1965
uranium/ thorium/ resources/ United States/ Colorado/
- Evans, R. D., and Goodman, C., 1941
radioactivity/ rocks/ Colorado/ uranium/ thorium/ radium/ analyses/ igneous-metamorphic/ sedimentary/ sandstone/
- Everhart, D. L., 1956
sandstone/ Colorado Plateau/ Front Range/ Copper King mine/ veins/ Larimer County/ Los Ochos mine/ Saguache County/ Caribou mine/ Boulder County/ Schwartzwalder mine/ Carroll mine/ Placerville district/ San Miguel County/ alteration/ pitchblende/ Igneous-metamorphic/ Jefferson County/ Carroll mine/ structural tension/
- Everhart, D. L., 1956
pitchblende/ Colorado Plateau/ Igneous-metamorphic/ granite/ Front Range/ Copper King mine/ Larimer County/ alteration/ Los Ochos mine/ Saguache County/ Caribou mine/ Carroll mine/ Boulder County/ San Miguel County/ ore deposits/ sandstone/ Placerville district/ Schwartzwalder mine/ Jefferson County/ structural tension/ United States/ Tertiary/ veins/ alteration/
- Fenton, M. D., and Faure, G., 1970
Gunnison County/ Iron Hill complex/ Rb-Sr/ age determinations/ carbonatite/ alkalic complexes/ thorium/ Fremont County/ Igneous-metamorphic/ McClure Mountain complex/
- Ferris, C. S., and Bennett, N., 1977
geochemistry/ exploration/ Ladwig mine/ Jefferson County/ Front Range/ Igneous-metamorphic/ gneiss/ schist/ Schwartzwalder mine/ molybdenum/
- Finch, W. I., 1956
uranium/ terrestrial sedimentary rocks/ Maroon Formation/ sandstone/ Sangre de Cristo Formation/ Cucharas district/ Huerfano County/ Park County/ Garo deposit/ vanadium/ carnotite/ tyuyamunite/
- Finch, W. I., 1956
uranium/ terrestrial sedimentary rocks/ Maroon Formation/ sandstone/ Sangre de Cristo Formation/ Cucharas district/ Huerfano County/ Park County/ Garo deposit/ vanadium/ carnotite/ tyuyamunite/
- Finch, W. I., 1973
uranium/ thorium/ environment/ resources/ deposit types/ prospecting techniques/ production/ ore deposits/ exploration/ sandstone/ Igneous-metamorphic/
- Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/ genesis/ mineralogy/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ copper/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Uravan district/
- Fischer, R. P., 1956
uranium/ vanadium/ ore deposits/ Colorado Plateau/ genesis/ mineralogy/ Morrison Formation/ Entrada Sandstone/ sandstone/ Mesa County/ copper/ Montrose County/ San Miguel County/ Dolores County/ San Juan County/ Uravan district/
- Fisher, F. G., and Meyrowitz, R., 1962
brockite/ thorium/ Wet Mountains/ Chemical properties/ Igneous-metamorphic/ crystal chemistry/ Bassick mine/ Custer County/ phosphate/ ore deposits/
- Fix, P. F., 1956
hydrogeochemistry/ surface water/ ground water/ uranium/ exploration/ Front Range/ Colorado Plateau/ Central City/ Clear Creek County/
- Fix, P. F., 1956
hydrogeochemistry/ surface water/ ground water/ uranium/ exploration/ Front Range/ Colorado Plateau/ Central City/ Gilpin County/ Clear Creek County/
- Foote, R. S., and Page, L. R., 1956
techniques/ exploration/ uranium/ thorium/ geology/ geochemistry/ geophysics/ drilling/ Colorado Plateau/ sandstone/
- Fronde! , J. W., and Fleischer, Michael, 1952
uranium/ thorium/ glossary/ chemistry/ minerals/
- Fronde! , J. W., and Fleischer, Michael, 1955
uranium/ thorium/ glossary/ minerals/ chemistry/
- Fronde! , J. W., Fleischer, Michael, and Jones, R. S., 1967
glossary/ uranium/ thorium/ minerals/ mineralogy/
- Gabelman, J. W., 1956
uranium/ ore deposits/ limestone/ Colorado Plateau/ Gypsum Valley area/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Wanakah Formation/
- Gabelman, J. W., 1956
uranium/ ore deposits/ limestone/ Colorado Plateau/ Gypsum Valley area/ Dolores County/ San Miguel County/ Montrose County/ Mesa County/ Wanakah Formation/
- George, D'Arcy, 1949
uranium/ thorium/ mineralogy/ hypogene/ supergene/ rare earth minerals/ chemistry/ pegmatites/ sandstone/ placers/ black shales/ Igneous-metamorphic/ Colorado Plateau/ Front Range/

- Gillerman, Elliot, 1958
thorium/ Wet Mountains/ igneous-metamorphic/
Custer County/ ore deposits/
- Grimaldi, F. S., and Marsh, C. A., 1947
thorium/ high grade/ low grade/ analyses/ ore
deposits/ Colorado Plateau/ sandstone/
- Grogan, R. M., 1959
Gunnison County/ Iron Hill/ Powderhorn/ carbonatite/
minerals/ thorium/ niobium/ igneous-metamorphic/
- Grogan, R. M., 1960
niobium/ Gunnison County/ Powderhorn/ Iron Hill/
igneous-metamorphic/ carbonatite/ minerals/
thorium/
- Grutt, E. W., Jr., 1956
Colorado/ Wyoming/ ore deposits/ clastics/ Tertiary/
uranium/ Washakie basin/ Moffat County/ sandstone/
economic geology/
- Grutt, E. W., Jr., 1956
Colorado/ Wyoming/ sediments/ Tertiary/ clastics/
uranium/ ore deposits/ Washakie basin/ Moffat
County/ sandstone/ economic geology/
- Hanley, J. B., Heinrich, E. W., and Page, L. R., 1950
pegmatites/ geology/ mineralogy/ Chaffee County/
Boulder County/ Clear Creek County/ Douglas
County/ Fremont County/ Gunnison County/ Jefferson
County/ Larimer County/ Montrose County/ Park
County/ monazite/ thorium/ production/ Front
Range/ El Paso County/ igneous-metamorphic/
Colorado Plateau/ Wyoming/ Utah/ Summit County/
- Harrison, J. E., 1953
fracture patterns/ Freeland-Lamartine district/
Colorado/ Clear Creek County/ igneous-metamorphic/
veins/ Gilpin County/ thorium/ hypogene zoning/
Front Range/
- Harrison, J. E., 1955
fracture patterns/ Freeland-Lamartine district/
Clear Creek County/ igneous-metamorphic/ Gilpin
County/ veins/ thorium/ hypogene zoning/ Front
Range/
- Hedlund, D. C., and Olson, J. C., 1958
Gunnison County/ ore deposits/ thorium/ veins/
Gateview quadrangle/ igneous-metamorphic/ geology/
- Hedlund, D. C., and Olson, J. C., 1961
thorium/ rare earths/ niobium/ Powderhorn district/
Colorado/ Gunnison County/ igneous rocks/ carbonatite/
monazite/ pyrochlore/ veins/ thorite/ dikes/
igneous-metamorphic/ minerals/ ore deposits/
geology/
- Hedlund, D. C., and Olson, J. C., 1973
Gunnison County/ Carpenter Ridge quadrangle/
igneous-metamorphic/ thorium/ map/ geology/
ore deposits/ Black Canyon Schist/
- Hedlund, D. C., and Olson, J. C., 1974
Gunnison County/ Saguache County/ igneous-metamorphic/
thorium/ Iris NW quadrangle/ map/ geology/ ore
deposits/
- Hedlund, D. C., and Olson, J. C., 1975
geology/ Powderhorn quadrangle/ Gunnison County/
igneous-metamorphic/ ore deposits/ thorium/
map/ niobium/ carbonatite/ alkalic rocks/ Saguache
County/
- Heinicke, J. H., 1960
ore deposits/ resources/ reserves/ Gunnison
County/ production/ thorium/ Fremont County/
Custer County/ igneous-metamorphic/
- Heinrich, E. W., 1948
pegmatites/ thorium/ rare earth minerals/ Chaffee
County/ Fremont County/ monazite/ igneous-metamorphic/
ore deposits/ fluorite/
- Heinrich, E. W., 1958
thorium/ pegmatites/ Lake George area/ South
Platte area/ Douglas County/ Teller County/
Park County/ igneous-metamorphic/ mineralogy/
analyses/ rare earth minerals/
- Heinrich, E. W., and Dahlem, D. H., 1957
Brown Derby pegmatites/ pegmatite/ Gunnison
County/ monazite/ thorium/ igneous-metamorphic/
mineralogy/ niobium (columbite)/ stibiotantalite/
- Heinrich, E. W., Borup, R. A., and Levinson, A.
A., 1958
thorium/ pegmatites/ monazite/ Colorado/ Brown
Derby mine/ igneous-metamorphic/ analyses/ Gunnison
County/ rare earth minerals/
- Hickling, N. L., Phair, G., Moore, R., and others,
1970
Boulder Creek batholith/ uranium/ thorium/ age
patterns/ allanite/ mineralogy/ genesis/ paragenesis/
igneous-metamorphic/ Jefferson County/ Clear
Creek County/ Gilpin County/ Boulder County/
Larimer County/ Summit County/ Grand County/
Front Range/ Silver Plume batholith/
- Hillebrand, F. A., and Conklin, N. M., 1974
breccia dikes/ rare earths/ Iron Hill/ Custer
County/ igneous-metamorphic/ thorium/ apatite/
molybdenite/ magnetite/
- Houston, R. S., and Murphy, J. F., 1970
organic materials/ La Plata County/ Durango
area/ thorium/ titanium/ Cretaceous/ Dakota
Sandstone/ barium/ bitumens/ gold/ rare earths/
sandstone/ transition elements/ uranium/ petrography/
chemistry/ composition/ mineralogy/
- Hurley, P. M., and Fairbairn, H. W., 1957
uranium/ thorium/ zircon/ analyses/ Front Range/
sphene/ apatite/ epidote/ monazite/ granite/
minerals/ pegmatites/ mineralogy/ Climax/ Colorado/
Massachusetts/ Nova Scotia/ Canada/ Germany/
El Paso County/ Eagle County/ Lake County/ Summit
County/ igneous-metamorphic/
- Hyden, H. J., 1956
uranium/ crude oil/ petroleum/ Moffat County/
conglomerate/ Triassic/ Jurassic/ Entrada Sandstone/
Morrison Formation/ Archuleta County/ Cretaceous/
Dakota Sandstone/ Mancos Shale/ Morgan County/
Rio Blanco County/ sandstone/ trace elements/
Shinarump Member/ Fremont County/

- Isachsen, Y. W., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/ Holiday Mesa/ Happy Jack mine/ Calyx mines/ Delta mine/ Cameron district/ copper/ vanadium/ sandstone/ geology/ ore deposits/ Montrose County/ San Miguel County/ Dolores County/ Big Indian Wash - Lisbon Valley district/ Mesa County/ stratigraphy/ structure/
- Isachsen, Y. W., and Evensen, C. G., 1956
Colorado Plateau/ Shinarump Member/ Chinle Formation/ Holiday Mesa/ Happy Jack mine/ Calyx mines/ Delta mine/ Cameron district/ copper/ vanadium/ Big Indian Wash - Lisbon Valley district/ sandstone/ geology/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ Montezuma County/ stratigraphy/ structure/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Garfield County/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/ regional transmissivity/ Delta County/
- Jobin, D. A., 1956
Colorado Plateau/ ore deposits/ exploration/ regional transmissivity/ uranium/ sediments/ sandstone/ ground water/ La Plata County/ Archuleta County/ Moffat County/ Rio Blanco County/ Montrose County/ Garfield County/ Mesa County/ Delta County/ San Miguel County/ Dolores County/ Montezuma County/
- Kammer, G. D., 1925
carnotite/ sandstone/ uranium/ thorium/ Colorado Plateau/ Colorado/ barium sulfate/ trace elements/ geochemistry/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Delta County/ uranium/ tectonic history/ regional structure/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Mesa County/ Ouray County/ San Juan County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ structural controls/
- Kelley, V. C., 1956
Colorado Plateau/ ore deposits/ genesis/ Mesa County/ structural controls/ uranium/ tectonic history/ Colorado/ sandstone/ Montezuma County/ San Miguel County/ Dolores County/ Montrose County/ Moffat County/ San Juan County/ Ouray County/ Gunnison County/ La Plata County/ Garfield County/ Rio Blanco County/ Delta County/ regional structure/
- Kelly, F. N., 1962
County/ Fremont County/ Gunnison County/ Jefferson County/ Park County/ mineralogy/ Powderhorn district/ rare earths/ resources/ igneous-metamorphic/ Colorado/ Wyoming/ New Mexico/ economics/ Front Range/ Gilpin County/
- Kerr, P. F., 1956
veins/ alteration/ exploration/ uranium/ geology/ Jamestown district/ Colorado Plateau/ Colorado/ sandstone/ Front Range/ igneous-metamorphic/ fluorite/ Boulder County/
- Kerr, P. F., 1956
uranium/ thorium/ veins/ sediments/ Front Range/ ore deposits/ sandstone/ fluorite/ geology/ Colorado Plateau/ igneous-metamorphic/
- Kerr, P. F., 1956
veins/ alteration/ exploration/ uranium/ geology/ Colorado Plateau/ Colorado/ sandstone/ Jamestown district/ Front Range/ igneous-metamorphic/ fluorite/ Boulder County/
- King, R. U., and Beroni, E. P., 1953
igneous-metamorphic/ reconnaissance/ Jefferson County/ Park County/ El Paso County/ Clear Creek County/ prospects/ uranium/ thorium/ Front Range/ ore deposits/ geology/
- Klepper, M. R., and Wyant, D. G., 1956
uranium/ United States/ Colorado/ geochemistry/ genesis/ exploration/ provinces/ ore deposits/ veins/ sandstone/ igneous-metamorphic/ Colorado Plateau/ Front Range/
- Klepper, M. R., and Wyant, D. G., 1956
uranium/ provinces/ United States/ Colorado/ ore deposits/ geochemistry/ genesis/ exploration/ veins/ sandstone/ igneous-metamorphic/ Colorado Plateau/ Front Range/
- La Point, D. J., and Markos, G., 1977
geochemistry/ ore deposits/ zonation/ Rifle mine/ vanadium/ Garfield County/ sandstone/ Colorado Plateau/ geology/ Entrada Sandstone/
- Larsen, E. S., 3d, 1957
analyses/ Colorado/ Wyoming/ Montana/ quartz monzonite/ granite/ Log Cabin batholith/ solubility/ uranium/ thorium/ Front Range/ Gilpin County/ Clear Creek County/ Boulder County/ Sherman batholith/ igneous-metamorphic/
- Larsen, E. S., and Phair, George, 1954
uranium/ thorium/ igneous-metamorphic/ Front Range/ dikes/ stocks/ minerals/ porphyry/ San Juan Mountains/ calc-alkalic rocks/ San Juan County/ Ouray County/ Hinsdale County/ Cripple Creek/ Teller County/ quartz-bostonite/ geochemistry/
- Lavery, R. A., and Gross, E. B., 1956
Colorado Plateau/ ore deposits/ genesis/ paragenesis/ uranium/ Meeker/ Rio Blanco County/ sandstone/
- Lavery, R. A., and Gross, E. B., 1956
paragenesis/ uranium/ ore deposits/ Colorado Plateau/ Meeker/ Rio Blanco County/ sandstone/ genesis/
- Lipman, P. W., Bunker, C. M., and Bush, C. A., 1973
basalt/ spectroscopy/ Cenozoic rocks/ potassium/ thorium/ uranium/ Rio Grande depression/ New Mexico/ geochemistry/ ore composition/ Baca County/ Las Animas County/ igneous-metamorphic/

- Conejos County/ Costilla County/ Rio Grande County/ Alamosa County/
- Lovering, T. G., 1954
radioactivity/ Iron oxides/ geochemistry/ analyses/ uranium/ thorium/ Park County/ Garo deposit/ sandstone/ Ilmonite/ tyuyamunite/
- Lovering, T. G., 1955
radioactivity/ Iron oxides/ geochemistry/ analyses/ uranium/ thorium/ Park County/ Garo deposit/ sandstone/ Ilmonite/ tyuyamunite/
- Lovering, T. G., and Beroni, E. P., 1956
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive Ilmonite/ Lucky Break Iron mine/ sandstone/ thorium/ uranium/ spring deposits/ Front Range/ conglomerate/ limestone/ tufa/ analyses/ Igneous-metamorphic/ ore deposits/ El Paso County/
- Lovering, T. G., and Beroni, E. P., 1959
Diamond J Ranch/ Golden Gate Canyon/ Haputa Ranch area/ Ouray hot springs/ Chaffee County/ Custer County/ Gunnison County/ Jefferson County/ Ouray County/ radioactive Ilmonite/ Lucky Break Iron mine/ thorium/ uranium/ spring deposits/ Front Range/ sandstone/ conglomerate/ limestone/ tufa/ El Paso County/ Igneous-metamorphic/ ore deposits/
- Lovering, T. S., Lakin, H. W., Ward, F. N., and others, 1956
geochemical techniques/ exploration/ uranium/ analyses/ geochemistry/ Front Range/ cobalt/ niobium/ Igneous-metamorphic/
- Lovering, T. S., Lakin, H. W., Ward, F. N., and others, 1956
geochemical techniques/ exploration/ uranium/ analyses/ geochemistry/ Front Range/ cobalt/ niobium/ Igneous-metamorphic/
- Ludwig, K. R., 1975
uranium/ lead/ isotopes/ dating/ ore deposits/ Colorado Plateau/ sandstone/
- Malan, R. C., 1972
Arizona/ California/ Colorado/ Nevada/ Wyoming/ geology/ ore deposits/ uranium/ thorium/ quantitative chemical analysis/ sedimentary rocks/ chemical composition/ Precambrian rocks/ igneous-metamorphic/ Front Range/
- Malan, R. C., and Sterling, D. A., 1969
ore deposits/ Precambrian rocks/ Colorado Plateau/ Nevada/ California/ New Mexico/ Arizona/ uranium/ geology/ thorium/ Colorado/ igneous-metamorphic/ resources/ Front Range/
- Malan, R. C., and Sterling, D. A., 1970
uranium/ thorium/ minerals/ ore deposits/ geology/ Colorado/ Utah/ Wyoming/ South Dakota/ Montana/ Idaho/ Washington/ ore composition/ potassium/ reserves/ Precambrian rocks/ igneous-metamorphic/ resources/ Front Range/
- Marjanleml, D. K., and Basler, A. L., 1972
exploration/ quantitative chemical analysis/ uranium/ thorium/ potassium/ gamma spectroscopy/ geochemistry/ plutonic rocks/ veins/ ore deposits/ Igneous-metamorphic/ Colorado/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ ore deposits/ migmatites/ sandstone/ shale/ Igneous-metamorphic/ Colorado/ Colorado Plateau/ San Juan County/ San Miguel County/ coal/ Jefferson County/ Montrose County/ Old Leyden mine/ uranium/ Gilpin County/ Clear Creek County/ Front Range/ genesis/ Mesa County/
- McKelvey, V. E., Everhart, D. L., and Garrels, R. M., 1956
veins/ bituminous substances/ Colorado/ genesis/ uranium/ ore deposits/ pegmatites/ migmatites/ San Miguel County/ sandstone/ coal/ shale/ Front Range/ Colorado Plateau/ San Juan County/ replacement/ Jefferson County/ Montrose County/ Old Leyden mine/ Mesa County/ Gilpin County/ Igneous-metamorphic/ phosphorites/ Clear Creek County/
- McKelvey, V. E., Page, L. R., Fischer, R. P., 1951
geochemistry/ mineralogy/ geophysics/ geobotany/ veins/ pitchblende/ thorium/ uranium/ resources/ exploration/ Igneous-metamorphic/ Front Range/ Gilpin County/ Clear Creek County/ pegmatites/ sandstone/ limestone/ Colorado Plateau/ Custer County/ Gunnison County/ Boulder County/ Larimer County/ Jefferson County/ coal/ San Miguel County/ Montrose County/ Mesa County/ Moffat County/
- Moore, D. G., 1970
Custer County/ Fremont County/ Igneous-metamorphic/ thorium/ geology/ mineralogy/ genesis/ Wet Mountains/ feldspar rocks/ alkalic rocks/ carbonatite/
- Myers, A. T., and Waring, C. L., 1956
analyses/ spectrography/ Colorado Plateau/ pyrite/ ore deposits/ uranium/ geochemistry/ thorium/ selenium/ sandstone/
- Nash, W. P., 1970
mineralogy/ petrology/ Iron Hill complex/ carbonatite/ Powderhorn district/ Gunnison County/ thorium/ geothermometry/ Igneous-metamorphic/
- Nash, W. P., 1972
mineralogy/ petrology/ Iron Hill complex/ carbonatite/ Powderhorn district/ Gunnison County/ thorium/ geothermometry/ Igneous-metamorphic/
- Olson, J. C., 1953
Powderhorn district/ Gunnison County/ thorium/ monazite/ Igneous-metamorphic/ Little Johnny vein/ reserves/ ore deposits/
- Olson, J. C., 1953
Powderhorn district/ Igneous-metamorphic/ thorium/ Gunnison County/ monazite/ ore deposits/ exploration/
- Olson, J. C., 1953
Gunnison County/ Powderhorn district/ Little Johnny deposit/ ore deposits/ thorium/ augite

- syenite/ shonkinite/ Iron Hill complex/ Lot mine/ igneous-metamorphic/
- Olson, J. C., 1973
geology/ Rudolph Hill quadrangle/ map/ Gunnison County/ thorium/ ore deposits/ Hinsdale County/ Saguache County/ igneous-metamorphic/
- Olson, J. C., 1974
map/ geology/ Rudolph Hill quadrangle/ Gunnison County/ thorium/ ore deposits/ Saguache County/ Hinsdale County/ igneous-metamorphic/
- Olson, J. C., 1975
uranium/ ore deposits/ Cochetopa district/ Oligocene erosion surface/ Gunnison County/ sandstone/ Saguache County/ volcanics/ veins/ igneous-metamorphic/
- Olson, J. C., and Adams, J. W., 1962
thorium/ rare earths/ United States/ Colorado/ igneous-metamorphic/ Gunnison County/ Fremont County/ Custer County/ Larimer County/ Gilpin County/ Montezuma County/ Moffat County/ El Paso County/
- Olson, J. C., and Hedlund, D. C., 1956
Gunnison County/ Powderhorn district/ ore deposits/ exploration/ thorium/ alkalic igneous rocks/ Sapinero Mesa/ igneous-metamorphic/
- Olson, J. C., and Hedlund, D. C., 1957
Gunnison County/ Gateview quadrangle/ ore deposits/ exploration/ investigations/ thorium/ veins/ igneous-metamorphic/
- Olson, J. C., and Hedlund, D. C., 1957
Gunnison County/ ore deposits/ exploration/ investigations/ thorium/ veins/ igneous-metamorphic/
- Olson, J. C., and Hedlund, D. C., 1958
Gunnison County/ Cebolla quadrangle/ ore deposits/ exploration/ investigations/ thorium/ veins/ alkalic igneous rocks/ Powderhorn district/ Gateview district/ Iron Hill complex/ carbonatite/ igneous-metamorphic/
- Olson, J. C., and Hedlund, D. C., 1973
geology/ Gateview quadrangle/ Gunnison County/ ore deposits/ igneous-metamorphic/ thorium/
- Olson, J. C., and Overstreet, W. C., 1964
thorium/ igneous-metamorphic/ veins/ resources/ alkalic rocks/ bostonite/ Gunnison County/ Saguache County/ Hinsdale County/ ore deposits/
- Olson, J. C., and Steven, T. A., 1975
Sawtooth Mountain quadrangle/ geology/ map/ Saguache County/ igneous-metamorphic/ uranium/ thorium/ Cochetopa district/ ore deposits/
- Olson, J. C., and Wallace, S. R., 1953
Gunnison County/ Powderhorn district/ ore deposits/ titanium/ veins/ igneous-metamorphic/ Little Johnny deposit/ thortite/ thorium/
- Olson, J. C., and Wallace, S. R., 1954
ore deposits/ igneous-metamorphic/ geology/ Gunnison County/ Powderhorn district/ stratigraphy/
- thorium/ rare earths/ Iron Hill complex/ mineralogy/ petrology/ geochemistry/ Little Johnny deposit/ thortite/ veins/ xenotime/ alkalic igneous rocks/ carbonate veins/ marble/
- Olson, J. C., and Wallace, S. R., 1956
Powderhorn district/ Gunnison County/ thorium/ rare earths/ veins/ igneous-metamorphic/ minerals/ ore deposits/
- Olson, J. C., Butler, A. P., Jr., Finch, W. I., and Fischer, R. P., 1973
resources/ uranium/ thorium/ production/ exploration/ veins/ sandstone/ San Miguel County/ Colorado Plateau/ Gunnison County/ Saguache County/
- Olson, J. C., Marvin, R. F., Parker, R. L., and Mehnert, H. H., 1977
thorium/ alkalic rocks/ age dating/ carbonatite/ Gunnison County/ Saguache County/ Custer County/ Fremont County/ tectonics/ igneous-metamorphic/ mafic rocks/ Paleozoic/ veins/
- Osterwald, F. W., 1956
Cordilleran foreland/ Clear Creek County/ Jefferson County/ ore deposits/ Routt County/ Jackson County/ El Paso County/ Park County/ Grand County/ Front Range/ igneous-metamorphic/ Larimer County/ Eagle County/ Summit County/ Fremont County/ Saguache County/ Teller County/ Chaffee County/ tectonics/ Gilpin County/ Pueblo County/ Custer County/ Precambrian/ genesis/ structures/
- Osterwald, F. W., 1956
veins/ structural geology/ Precambrian rocks/ Teller County/ structural controls/ ore deposits/ Cordilleran foreland/ igneous-metamorphic/ Gilpin County/ Front Range/ tectonics/ El Paso County/ Larimer County/ Clear Creek County/
- Page, L. R., 1956
uranium/ thorium/ ore guides/ exploration/ Colorado/ sandstone/ igneous-metamorphic/ geology/ Colorado Plateau/
- Page, L. R., 1956
uranium/ thorium/ ore guides/ igneous-metamorphic/ exploration/ Colorado/ sandstone/ geology/ Colorado Plateau/
- Page, L. R., Stocking, H. E., and Smith, H. B., compilers, 1956
Colorado Plateau/ Front Range/ Gunnison County/ limestone/ Montrose County/ Jefferson County/ arkose/ sandstone/ shale/ geology/ uranium/ thorium/ exploration/ igneous-metamorphic/ San Miguel County/ geochemistry/ mineralogy/ conglomerate/
- Parker, R. L., and Sharp, W. N., 1970
carbonatites/ mafic-ultramafic/ thorium/ monazite/ geology/ Gem Park complex/ Custer County/ Fremont County/ mineralogy/ geochemistry/ igneous-metamorphic/
- Paterson, W. C., 1951
Colorado Plateau/ ore deposits/ production/ thorium/ power/ weapons/ sandstone/
- Pettijohn, F. J., 1963
chemical composition/ sandstone/ uranium/ thorium/

- monazite/ United States/ Colorado Plateau/ Morrison Formation/ Salt Wash Member/
- Phair, George, 1952
ore deposits/ porphyries/ radioactivity/ Gilpin County/ Central City district/ pitchblende/ Tertiary/ deposition/ Front Range/ mineralogy/ petrology/ geochemistry/ zircon/ veins/ uranium/ thorium/ analyses/ Quartz Hill/ Nigger Hill dike/ Clear Creek County/ Igneous-metamorphic/ ore deposits/
- Phair, George, 1954
uranium/ veins/ Igneous-metamorphic/ Front Range/ pitchblende/ porphyries/ thorium/ ore deposits/
- Phair, George, 1955
ore deposits/ mineralization/ Igneous-metamorphic/ thorium/ analyses/ granite/ Front Range/ Boulder Creek batholith/ Sherman granite/ Pikes Peak granite/ New Hampshire/ Boulder County/
- Phair, George, 1957
Wet Mountains/ ore deposits/ Custer County/ thorium/ veins/ Igneous-metamorphic/ Haputa Ranch/ Hardwick property/ Mystery Lode/ shear zones/
- Phair, George, 1958
uranium/ thorium/ Intrusives/ Laramide/ mineralogy/ geochemistry/ Caribou complex/ Boulder County/ Central City district/ Clear Creek County/ Gilpin County/ Jamestown district/ Gold Hill district/ Front Range/ Igneous-metamorphic/
- Phair, George, 1958
Wet Mountains/ ore deposits/ wallrock alteration/ thorium/ Custer County/ Igneous-metamorphic/ chemical properties/
- Phair, George, and Fisher, F. G., 1961
Wet Mountains/ ore deposits/ genesis/ metasomatism/ processes/ potassic feldspathization/ thorium/ Custer County/ Powderhorn district/ Precambrian rocks/ thorite/ Igneous-metamorphic/
- Phair, George, and Gilbert, F. L., 1959
Igneous-metamorphic/ thorium/ ore deposits/ Wet Mountains/ Custer County/ Fremont County/ veins/ zoning/
- Phair, George, and Gottfried, David, 1955
Front Range/ Boulder Creek batholith/ Silver Plume/ ore deposits/ uranium/ Precambrian rocks/ granite/ Igneous-metamorphic/ thorium/ Boulder County/
- Phair, George, and Gottfried, David, 1964
Front Range/ ore province/ thorium/ uranium/ Igneous-metamorphic/ Boulder County/ Clear Creek County/ Gilpin County/ Jefferson County/ Larimer County/
- Phair, George, and Jenkins, L. B., 1975
uranium/ thorium/ data/ Igneous-metamorphic/ Intrusives/ Mesozoic/ Cenozoic/ Colorado/ Colorado Plateau/ Front Range/
- Phair, George, and Onoda, Kiyoko, 1951
Jamestown district/ Boulder County/ ore deposits/ hydrothermal uranothorite/ fluorite breccias/ mineralogy/ petrology/ geochemistry/ thorium/ haloes/ Blue Jay mine/ Igneous-metamorphic/ Front Range/
- Phoenix, D. A., 1956
carnotite/ permeability/ Morrison Formation/ Mesa County/ uranium/ vanadium/ sandstone/ ore deposits/ Colorado Plateau/ ground water/
- Phoenix, D. A., 1956
carnotite/ permeability/ Morrison Formation/ Mesa County/ uranium/ vanadium/ sandstone/ ore deposits/ Colorado Plateau/ ground water/
- Pierce, A. P., Mytton, J. W., and Gott, G. B., 1956
Colorado/ Texas/ Kansas/ Arkansas/ New Mexico/ Arizona/ Utah/ crude oil/ asphaltite/ petroleum/ helium/ natural gas/ Las Animas County/ Montezuma County/ Adams County/ radon/ uranium/ thorium/ radium/ sandstone/
- Pierce, A. P., Mytton, J. W., and Gott, G. B., 1956
Colorado/ Texas/ Kansas/ Arkansas/ New Mexico/ Arizona/ Utah/ crude oil/ asphaltite/ petroleum/ helium/ natural gas/ Las Animas County/ Montezuma County/ Adams County/ radon/ uranium/ thorium/ radium/ sandstone/
- Piller, Richard, and Adams, J. A. S., 1959
ore deposits/ resources/ Pennsylvanian/ thorium/ uranium/ Boulder County/ analyses/ Front Range/ geochemistry/ Igneous-metamorphic/ weathering profile/
- Piller, Richard, and Adams, J. A. S., 1959
ore deposits/ resources/ Cretaceous/ Mancos Shale/ thorium/ Colorado Plateau/ uranium/ analyses/ shale/ geochemistry/
- Piller, Richard, and Adams, J. A. S., 1962
ore deposits/ resources/ Cretaceous/ Mancos Shale/ thorium/ Colorado Plateau/ uranium/ analyses/ shale/ geochemistry/
- Piller, Richard, and Adams, J. A. S., 1962
weathering profiles/ pre-Pennsylvanian/ Pennsylvanian/ thorium/ uranium/ Boulder County/ geochemistry/ Igneous-metamorphic/ analyses/ Front Range/
- Poole, F. G., and Williams, G. A., 1956
sediments/ Colorado Plateau/ ore guides/ uranium/ vanadium/ exploration/ sandstone/ conglomerate/ Morrison Formation/ transportation direction/ Chinle Formation/ Montrose County/ Entrada Sandstone/ Mesa County/ Delta County/ Triassic/ San Miguel County/ Dolores County/ Montezuma County/ La Plata County/
- Poole, F. G., and Williams, G. A., 1956
ore guides/ exploration/ uranium/ vanadium/ sandstone/ conglomerate/ transportation direction/ Morrison Formation/ Chinle Formation/ Entrada Sandstone/ sediments/ Mesa County/ Delta County/ Montrose County/ Dolores County/ Montezuma County/ La Plata County/ Triassic/ Colorado Plateau/ San Miguel County/

- Sears, R. S., Marjanemi, D. K., and Blomquist, J. T., 1974
 geology/ computers/ data processing/ exploration/ geology/ iron/ maps/ New Mexico/ petroleum/ potassium/ radioactivity/ rocks/ stratigraphy/ thorium/ uranium/ ore deposits/ minerals/ well logging/ Morrison Formation/ San Juan basin/ Archuleta County/ La Plata County/ sandstone/ Colorado Plateau/
- Shawe, D. R., 1956
 roll fronts/ sandstone/ Garfield County/ Rifle mine/ Colorado Plateau/ genesis/ uranium/ vanadium/ ore deposits/ geology/
- Shoemaker, E. M., 1956
 structural features/ Colorado Plateau/ ore deposits/ veins/ Moffat County/ Rio Blanco County/ La Plata County/ uranium/ Garfield County/ Mesa County/ Delta County/ Montrose County/ San Miguel County/ San Juan County/ Ouray County/ sandstone/ Montezuma County/ Dolores County/ Archuleta County/
- Sims, P. K., 1955
 paragenesis/ structure/ pitchblende/ veins/ igneous-metamorphic/ Gilpin County/ uranium/ mineralogy/ Front Range/ ore deposits/ Buckhorn mica mine/ Bucky claim/ Opportunity No. 1 claim/ Trio claims/ White Spar claim/ Quartz Creek district/ uranium/ thorium/ Colorado/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/
- Sims, P. K., 1963
 geology/ uranium/ ore deposits/ Front Range/ Gilpin County/ production/ Summit County/ Clear Creek County/ Boulder County/ Grand County/ Central City district/ Idaho Springs district/ Lawson-Dumont-Fall River district/ Freeland-Lamartine district/ gneiss/ thorium/ pegmatites/ alaskite/ bostonite/ Chicago Creek district/ igneous-metamorphic/ monazite/
- Sims, P. K., and Gable, D. J., 1964
 geology/ Precambrian rocks/ Central City district/ Gilpin County/ Clear Creek County/ uranium/ thorium/ monazite/ igneous-metamorphic/ pegmatites/ gneiss/ granite/ Front Range/
- Sims, P. K., and Gable, D. J., 1967
 petrology/ structure/ Precambrian rocks/ Gilpin County/ Clear Creek County/ igneous-metamorphic/ pegmatites/ gneiss/ granite/ uranium/ thorium/ Front Range/ geology/ map/ Central City district/ Trio claims/ White Spar claim/ Quartz Creek district/ uranium/ thorium/ Colorado/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/
- Sims, P. K., and Tooker, E. W., 1956
 Clear Creek County/ Gilpin County/ ore deposits/ pitchblende/ Central City district/ veins/ uranium/ igneous-metamorphic/ bostonite/ production/ pegmatites/ gneiss/ genesis/ Front Range/
- Sims, P. K., and Tooker, E. W., 1956
 Clear Creek County/ Gilpin County/ ore deposits/ pitchblende/ Central City district/ veins/ uranium/ igneous-metamorphic/ bostonite/ production/ pegmatites/ gneiss/ genesis/ Front Range/
- Sims, P. K., and Toulmin, Priestley, 3d, 1961
 temperature of formation/ Precambrian rocks/ Copper King mine/ Front Range/ Larimer County/ igneous-metamorphic/ uranium/ granite/ ore deposits/ uranium/ thorium/ Colorado/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/
- Singewald, Q. D., 1955
 map/ thorium/ Wet Mountains/ Custer County/ igneous-metamorphic/ ore deposits/
- Singewald, Q. D., 1966
 thorium/ faults/ Ilse fault zone/ Wet Mountains/ structure/ igneous-metamorphic/ gneiss/ ore deposits/ Fremont County/
- Singewald, Q. D., and Brock, M. R., 1956
 thorium/ faults/ Ilse fault zone/ Wet Mountains/ Fremont County/ structures/ igneous-metamorphic/ gneiss/ ore deposits/ geology/
- Singewald, Q. D., and Brock, M. R., 1956
 thorium/ Wet Mountains/ Custer County/ Fremont County/ Precambrian rocks/ Tertiary rocks/ dikes/ metasediments/ igneous-metamorphic/ gneiss/ veins/ pegmatites/ ore deposits/
- Singewald, Q. D., and Christman, R. A., 1953
 Wet Mountains/ ore deposits/ Custer County/ thorium/ igneous-metamorphic/
- Singewald, Q. D., and Christman, R. A., 1953
 Wet Mountains/ ore deposits/ exploration/ Custer County/ thorium/ igneous-metamorphic/
- Singewald, Q. D., Christman, R. A., and Brock, M. R., 1953
 Haputa Ranch area/ Custer County/ Fremont County/ veins/ thorium/ rare earths/ ore deposits/ Wet Mountains/ Precambrian rocks/ Sewell property/ Anna Lee property/ igneous-metamorphic/
- Solster, P. E., Conklin, D. R., and Bowman, M. D., 1956
 Colorado/ New Mexico/ Utah/ Arizona/ United States/ bibliography/ trace element reports/ uranium/ vanadium/ thorium/ sandstone/ Colorado Plateau/ Front Range/ igneous-metamorphic/
- Spirakis, C. S., 1977
 Rifle mine/ Garfield mine/ ore deposits/ uranium/ vanadium/ sandstone/ Garfield County/ genesis/ Colorado Plateau/ semipermeable membranes/ Entrada Sandstone/
- Staatz, M. H., 1964
 ore deposits/ resources/ thorium/ Custer County/ Fremont County/ Gunnison County/ igneous-metamorphic/
- Staatz, M. H., 1973
 veins/ thorium/ igneous-metamorphic/ Custer County/ Fremont County/ Gunnison County/
- Staatz, M. H., 1974
 ore deposits/ veins/ mineralogy/ geochemistry/

- minerals/ thorite/ monazite/ genesis/ controls/ ore controls/ structural controls/ thorium/ Igneous-metamorphic/ Wet Mountains/ Powderhorn district/ Gunnison County/ carbonatite/ alkaline complexes/ Custer County/ Fremont County/
- Staatz, M. H., 1975
thorium/ ore deposits/ Igneous-metamorphic/ Custer County/ Fremont County/ Gunnison County/ deposits/ Colorado/ Igneous-metamorphic/ sandstone/ Front Range/
- Staatz, M. H., 1976
thorium/ Igneous-metamorphic/ alkaline igneous rocks/ Fremont County/ Custer County/ Gunnison County/
- Staatz, M. H., 1976
thorium/ resources/ Igneous-metamorphic/ Custer County/ Fremont County/ Gunnison County/ Front Range/
- Staatz, M. H., Adams, J. W., and Wahlberg, J. S., 1976
thorite/ Seerle pegmatite/ Igneous-metamorphic/ fluorite/ mineralogy/ geochemistry/ uraninite/ Jefferson County/ Front Range/ thorium/ pegmatites/
- Staatz, M. H., and Conklin, N. M., 1966
thorium/ veins/ carbonate/ Road Gulch area/ Wet Mountains/ rare-earths/ Igneous-metamorphic/ thorite/ geology/ mineralogy/ Fremont County/ Custer County/
- Staatz, M. H., and Olson, J. C., 1973
thorium/ Igneous-metamorphic/ resources/ Custer County/ Fremont County/ Gunnison County/
- Staatz, M. H., and Trites, A. F., Jr., 1952
Front Range/ granite/ pegmatites/ geology/ structure/ mineralogy/ Gunnison County/ Wood Gulch/ beryllium/ petrology/ geochemistry/ minerals/ allanite/ monazite/ pyrochlore-microlite/ Brown Derby claim/ Black Wonder claim/ Beryl and Rare Minerals Lode claim/ Buckhorn mica mine/ Bucky claim/ Opportunity No. 1 claim/ Trio claims/ White Spur claim/ Quartz Creek district/ uranium/ thorium/ gneiss/ origin/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/ Igneous-metamorphic/
- Staatz, M. H., and Trites, A. F., Jr., 1955
Front Range/ granite/ pegmatites/ geology/ structure/ mineralogy/ Gunnison County/ Wood Gulch/ beryllium/ petrology/ geochemistry/ minerals/ gneiss/ allanite/ monazite/ pyrochlore-microlite/ uranium/ thorium/ origin/ Black Wonder claim/ Brown Derby claim/ Buckhorn mica mine/ Bucky claim/ Opportunity No. 1 claim/ Trio claims/ White Spur claim/ Quartz Creek district/ Beryl and Rare Minerals Lode claim/ Igneous-metamorphic/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/ Colorado Plateau/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ Montrose County/ x-ray analyses/ San Miguel County/ sandstone/ Copper King mine/ geochemistry/ igneous-metamorphic/
- Stocking, H. E., and Page, L. R., 1956
veins/ Front Range/ coffinite/ uranium/ silicates/ Copper King mine/ Larimer County/ Arrowhead mine/ Mesa County/ Jefferson County/ x-ray analyses/ Montrose County/ San Miguel County/ geochemistry/ Colorado Plateau/ sandstone/ Igneous-metamorphic/
- Swanson, V. E., 1956
marine black shales/ uranium/ United States/ distribution/ shale/ Sedgwick County/ Colorado Plateau/ Pierre Shale/ Sharon Springs Member/ Hermosa Formation/ Paradox Member/
- Swanson, V. E., 1956
marine black shales/ uranium/ United States/ distribution/ shale/ Sedgwick County/ Colorado Plateau/ Pierre Shale/ Sharon Springs Member/ Paradox Member/ Hermosa Formation/
- Temple, A. K., and Grogan, R. M., 1963
Gunnison County/ Powderhorn district/ carbonatite/ pyroxenite/ alkaline rocks/ Igneous-metamorphic/ niobium/ Iron Hill/ thorium/ columbium/
- Temple, A. K., and Grogan, R. M., 1963
carbonatite/ alkaline complex/ Powderhorn district/ Igneous-metamorphic/ thorium/ veins/ alkaline rocks/ Iron Hill/ Gunnison County/ niobium/
- Temple, A. K., and Grogan, R. M., 1965
carbonatite/ alkaline complex/ Igneous-metamorphic/ Powderhorn district/ Gunnison County/ thorium/ veins/ geochemistry/ petrology/ Iron Hill/ niobium/ alkaline rocks/
- Thaden, R. E., and Kirk, A. R., 1975
sandstone/ district studies/ uranium/ resources/ La Plata County/ Archuleta County/ San Juan basin/ stratigraphy/ Montezuma County/ Colorado Plateau/
- Thurston, W. R., 1952
Igneous-metamorphic/ Buckhorn mica mine/ schist/ Hyatt area/ Front Range/ beryllium/ pegmatites/ Crystal Mountain district/ mineralogy/ petrology/ geochemistry/ minerals/ autunite/ gummite/ uraninite/ Big Boulder prospect/ Hyatt Mica pegmatite/ reserves/ resources/ uranium/ thorium/ beryl/ Larimer County/ metatorbernite/
- Twenhofel, W. S., and Buck, K. L., 1956
thorium/ Powderhorn district/ Gunnison County/ veins/ Custer County/ Fremont County/ Colorado/ Idaho/ Wyoming/ Precambrian rocks/ Montana/ California/ geology/ New Mexico/ Wisconsin/ New York/ Michigan/ Wet Mountains/ ore deposits/ Igneous-metamorphic/
- Twenhofel, W. S., and Buck, K. L., 1956
geology/ thorium/ Powderhorn district/ Gunnison County/ Wet Mountains/ Custer County/ Fremont County/ veins/ Precambrian rocks/ Colorado/ Wyoming/ Idaho/ Montana/ California/ New Mexico/ Wisconsin/ New York/ Michigan/ ore deposits/ Igneous-metamorphic/
- U.S. Atomic Energy Commission, and U.S. Geological Survey, 1956
prospecting/ sandstone/ Colorado Plateau/ uranium/

- thorium/ techniques/ geology/ exploration/ Front Range/ Igneous-metamorphic/ Colorado/ United States/
- U.S. Atomic Energy Commission, 1959
reserves/ resources/ worldwide/ uranium/ thorium/ raw materials/
- U.S. Bureau of Mines, 1970
minerals/ facts/ problems/ uranium/ thorium/
- U.S. Environmental Protection Agency, 1972
sampling/ milling/ radium-226/ polonium-210/ lead-210/ thorium/ uranium/ content/ hazard analysis/ alpha particles/ beta particles/ water/ wastes/ radioactivity/ Colorado/ surface waters/ Colorado River basin/ radium monitoring/ Colorado Plateau/
- U.S. Environmental Protection Agency, 1973
water pollution/ uranium/ ores deposits/ tailings/ radium isotopes/ statistical analyses/ thorium/ Colorado/ Utah/ Colorado Plateau/ Arizona/ lead isotopes/ polonium-210/ graphs (charts)/ New Mexico/ Colorado River basin/ water quality/
- U.S. Environmental Protection Agency, 1973
Colorado River/ basin/ lead isotopes/ polonium-210/ radiation monitoring/ radium-26/ statistics/ thorium/ uranium/ water pollution/ Colorado/ Colorado Plateau/ surface water/ quantity ratio/
- U.S. Geological Survey, 1953
sandstone/ Colorado Plateau/ Front Range/ veins/ Igneous-metamorphic/ thorium/ Powderhorn district/ natural waters/ Morrison Formation/ Mesa County/ San Miguel County/ Dolores County/ Gilpin County/ San Juan County/ La Plata County/ Ouray County/ geology/ Gunnison County/ Montrose County/ San Juan Mountains/ Clear Creek County/ ore deposits/
- U.S. Geological Survey, 1953
Colorado Plateau/ Front Range/ sandstone/ coal/ springs/ Igneous-metamorphic/ shale/ Gilpin County/ Clear Creek County/ Jefferson County/ Boulder County/ Custer County/ thorium/ Gunnison County/ La Plata County/ San Juan County/ Ouray County/
- U.S. Geological Survey, 1957
Colorado Plateau/ Front Range/ geology/ geochemistry/ geophysics/ thorium/ ore deposits/ sandstone/ Igneous-metamorphic/ San Miguel County/ Montrose County/ Mesa County/ Gilpin County/ Clear Creek County/
- U.S. Geological Survey, 1958
Colorado Plateau/ mapping/ geophysics/ Clear Creek County/ geochemistry/ Maybell-Lay area/ Front Range/ Gilpin County/ research/ thorium/ Moffat County/ sandstone/ Mesa County/ San Miguel County/ Montrose County/ Igneous-metamorphic/
- U.S. Geological Survey, 1958
Colorado Plateau/ geophysics/ geochemistry/ Gilpin County/ research/ Front Range/ thorium/ reconnaissance/ Mesa County/ sandstone/ Clear Creek County/ Montrose County/ San Miguel County/ Igneous-metamorphic/
- U.S. Geological Survey, 1959
Colorado Plateau/ Lisbon Valley district/ mapping/ research/ thorium/ sandstone/ geophysics/ ore deposits/ Mesa County/ Montrose County/ San Miguel County/ Dolores County/
- United Nations, 1956
uranium/ thorium/ geology/ ore deposits/ geochemistry/ isotope geology/ Front Range/ Colorado Plateau/ sandstone/ igneous-metamorphic/
- United Nations, 1958
geology/ uranium/ chemistry/ Colorado Plateau/ ore deposits/ isotopes/ geochemistry/ isotope geology/ thorium/ sandstone/
- Vanderbilt, J. W., 1947
minerals/ resources/ Colorado/ uranium/ thorium/ sandstone/ Colorado Plateau/ Front Range/ Igneous-metamorphic/
- Vickers, R. C., compiler, 1951
bibliography/ trace element reports/ uranium/ vanadium/ thorium/ beryllium/ Colorado Plateau/ Front Range/ sandstone/ igneous-metamorphic/
- Vine, J. D., 1956
uranium/ coal/ Old Leyden coal mine/ Jefferson County/ Cretaceous/ Laramie Formation/ shale/ Front Range/
- Vine, J. D., 1956
uranium/ coal/ Old Leyden coal mine/ Jefferson County/ Cretaceous/ Laramie Formation/ shale/ Front Range/
- Vine, J. E., 1956
geology/ uranium/ Tertiary basins/ Wyoming/ North Dakota/ South Dakota/ Colorado/ Moffat County/ Colorado Plateau/ Washakie basin/ sandstone/ Great Plains/ genesis/
- Wallace, S. R., and Olson, J. C., 1956
Powderhorn district/ thorium/ Gunnison County/ Iron Hill/ carbonatite/ Igneous-metamorphic/ geology/ mineralogy/ analyses/ ore deposits/ alkalic igneous rocks/
- Wallace, S. R., and Olson, J. C., 1956
Gunnison County/ Powderhorn district/ ore deposits/ thorium/ alkalic igneous rocks/ Iron Hill/ carbonatite/ igneous-metamorphic/ geology/ mineralogy/ analyses/
- Weeks, A. D., 1956
Colorado Plateau/ mineralogy/ oxidation/ sandstone/ ore deposition/ uranium/ geology/
- Weeks, A. D., 1956
Colorado Plateau/ ore deposits/ classification/ oxidation/ mineralization/ mineralogy/ sandstone/ geology/
- Wells, J. D., 1960
petrology/ Tertiary rocks/ Igneous-metamorphic/ thorium/ Front Range/ radioactivity/ bostonite porphyry/ Gilpin County/ Clear Creek County/ volcanic rocks/ uranium/ petrography/

- Wenrich-Verbeek, K. J., 1975
waters/ stream sediments/ rivers/ lakes/ sampling
techniques/ uranium/ exploration/
- Wollenberg, H. A., and Smith, A. R., 1970
potassium/ radiogenic heat production/ radioactivity/
rocks/ thorium/ uranium/ Sierra Nevada/ Colorado/
geography/ mountains/ igneous-metamorphic/
- Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/
ore deposits/ Jefferson County/ San Miguel County/
Saguache County/ Park County/ Boulder County/
Montrose County/ Moffat County/ sandstone/ Front
Range/ coal/ igneous-metamorphic/
- Wood, H. B., 1956
Colorado Plateau/ ore deposits/ genesis/ age/
environment/ production/ host rocks/ sandstone/
- Wood, H. B., 1956
Colorado Plateau/ genesis/ host rocks/ uranium/
sandstone/ production/ geology/ Boulder County/
Jefferson County/ Saguache County/ Park County/
Montrose County/ San Miguel County/ Moffat County/
coal/ igneous-metamorphic/ Front Range/
- Wood, H. B., and Grundy, W. D., 1956
exploration guides/ exploration techniques/
Shinarump Formation/ channels/ Colorado Plateau/
uranium/ Moffat County/ Rio Blanco County/ Garfield
County/ Mesa County/ Delta County/ Montrose
County/ San Miguel County/ Dolores County/ Montezuma
County/ sandstone/
- Young, E. J., and Sims, P. K., 1958
Front Range/ xenotime/ monazite/ biotite gneiss/
migmatite/ igneous-metamorphic/ Gilpin County/
thorium/ Central City district/ Precambrian rocks/

Appendixes

Appendix 1

CHRONOLOGY

AEC Domestic Uranium Raw Materials Program

1947-1965

The history of the AEC Domestic Uranium Raw Materials Program can be confusing, especially to those new in uranium exploration and development. For this reason we are including a chronology, 1947-1965, prepared as an AEC handout by Nellson B. O'Rear, Public Information Officer, Grand Junction Office, U.S. Atomic Energy Commission, May 31, 1966. We hope that this chronology will help clarify some of the questions regarding procurement programs, withdrawals, bonus payments, various circulars, and miscellaneous events through the years.

1947

May 28

Concentrate purchase contract executed with Vanadium Corporation of America for Naturita, Colo., processing mill. Deliveries to AEC started late in 1947. First mill contract.

October 2

Concentrate purchase contract with U.S. Vanadium (later Union Carbide) for processing mill at Rifle, Colo. First deliveries to AEC in December, 1947.

December

Colorado Raw Materials office established in Grand Junction, Colorado, to inaugurate AEC procurement program.

1948

April 8

Commission approves plan for expanding uranium production in Colorado Plateau region, including operation of a Government-owned processing mill at Monticello, Utah.

April 11

Domestic Uranium Program Circular 1 promulgated by AEC. Guaranteed for 10 years a minimum price for certain high grade uranium ores other than carnotite or roscoelite type ores. (Terminated April 11, 1958)

April 11

Domestic Uranium Program Circular 2 promulgated, offering a bonus of \$10,000 for delivery of 20 short tons of uranium-bearing ores or mechanical concentrates assaying 20 percent or more U_3O_8 from any single mining location, lode, or placer, which had not previously been worked for uranium. Did not apply to carnotite or roscoelite type ores. Offer expired April 11, 1958. This bonus collected only once in 10 years.

April 11

Domestic Uranium Program Circular 3 promulgated. Provided minimum prices, specifications and conditions under which AEC would purchase carnotite and roscoelite type ores delivered at Monticello, Utah, buying station.

June 1

Domestic Uranium Program Circular 4 promulgated. Provided for payment of haulage and development allowances.

July 1

54,000 tons of ore produced in western states in FY 1948; AEC purchased 110 tons of U_3O_8 in FY 1948 at cost of \$1,700,000 an average price per pound, \$7.14.

December 31

In Calendar Year 1948, U.S. Geological Survey drilled 130,000 feet of holes in AEC exploration program; estimate private industry drilled 80,000 feet.

1949

February 1

Domestic Uranium Program Circular 5 promulgated. Consolidated Circulars 3 and 4; increased price of U_3O_8 by fifty cents per pound, plus premium prices and other provisions.

February 17

Contract with Vanadium Corporation of America to purchase U_3O_8 from Durango, Colo., processing mill. (First deliveries to AEC in August, 1949).

April 13

Contract with U.S. Vanadium (later Union Carbide) to purchase concentrates from Uravan, Colo., mill.

May 17

First lease issued in Mineral Leasing program for mining of uranium ore on AEC-controlled lands which had been explored by AEC and certain ore reserves established. This program, authorized by the 1946 Atomic Energy Act, continued from 1949 to 1962, during which a total of 49 leases were executed between the AEC and individuals or companies. The lessees paid the Government a royalty fee for the uranium mined. (See March 31, 1962, for ore mined and fees paid Government).

May 17

Contract with VCA to purchase concentrates from mill at White Canyon, Utah. (Power plant operation). This mill went into production in 1950 and shut down in 1953 after delivering more than 125,000 pounds of U_3O_8 to AEC.

July 10

AEC announces types of high-lime uranium-vanadium ores to be purchased at Monticello, Utah. (Differed from Circular 5).

August 23

AEC contracts with Galigher Company to renovate Monticello, Utah, mill (from War Assets Admin.) and operate to produce U_3O_8 . Six months later the mill was producing concentrates.

December 31

In exploration program in CY 1949, AEC drilled 70,000 feet of holes and the USGS drilled 223,000 feet, for total Government drilling of 293,000 feet. Estimate private industry drilling at 120,000 feet.

1950

January

First concentrates produced by Government-owned processing mill at Monticello, Utah.

March

First concentrates received by AEC from Rifle, Colorado mill.

March 12

Marysvale, Utah, AEC ore-buying station established and schedules given.

July 1

FY 1950 ore production, 230,000 tons. FY 1950 U_3O_8 purchased by AEC, 320 tons at cost of \$5,800,000; average cost per pound, \$8.92.

July 10

Concentrate purchase contract executed by AEC and Climax Uranium Company for mill at Grand Junction, Colorado.

December 31

In exploration program in CY 1950, AEC drilled 156,000 feet of holes, USGS drilled 212,000, for Government total of 368,000 feet. Estimate private drilling at 410,000 feet.

1951

March 1

Domestic Uranium Program Circular 5, Revised, promulgated. Extended Circular 5 to March 31, 1962, and increased the price payable for U_3O_8 in certain ores.

March 16

AEC restored 42 square miles in Colorado to public domain (through BLM) and withdrew another 86 square miles for exploration program.

March 29

AEC offers to buy copper-bearing uranium ores at Marysvale, Utah, and Monticello, Utah.

June 29

Domestic Uranium Program Circular 6 promulgated. Provided bonus payments for initial and certain other production of uranium ores to assist development of new sources. This known as "the bonus program".

June

AEC receives first concentrates from Climax Uranium mill at Grand Junction, Colorado.

July 1

FY 1951 ore production, 290,000 tons. FY 1951 U_3O_8 purchased by AEC, 630 tons at cost of \$12,800,000; average cost per pound, \$10.01.

August 22

AEC asked withdrawal of 66 square miles of public land in Grand County, Utah, for exploration program.

October 25

AEC executes contract with Vitro Corporation of America to buy concentrates from mill at Salt Lake City, Utah. (First U_3O_8 delivered to AEC later in 1951).

December 27

AEC and the Anaconda Company execute contract for concentrates to be produced at mill at Bluewater, New Mexico (Grants area).

December 31

In CY 1951, AEC drilled 354,000 feet in exploration program, and USGS drilled 374,000 feet, for total Government drilling of 728,000 feet. Estimate private industry drilling at 700,000 feet.

1952

January 17

Bluewater, New Mexico, ore-buying station opened by Anaconda for AEC and buying schedules announced.

January 30

AEC announces over a quarter million dollars paid out in initial production bonus program in 1951. (First payments under Circular 6, promulgated June 29, 1951)

June 8

Grants, New Mexico, ore-buying station opened by AEC and buying schedules given.

July 1

In FY 1952, total of \$607,232 paid by AEC in initial production bonus program.

July 1

FY 1952 ore production, 390,000 tons. FY 1952 AEC concentrate purchases, 830 tons at cost of \$18,400,000; average cost per pound, \$11.19.

November 30

Grand Junction Operations Office established to consolidate AEC's exploration and procurement programs on the Colorado Plateau. Formerly known as Colorado Raw Materials Office. Operations Office status ranked it with major AEC field installations throughout U.S.

November 30

Edgemont, South Dakota, ore-buying station established by AEC and schedule published.

December 31

First report on access road program made by AEC, showing construction started on 428 miles of roads with total costs to be \$1,782,802.

December

CY 1952, in exploration program AEC drilled 482,000 feet and USGS 580,000 feet, for Government total of 1,062,000 feet. Estimate private industry drilled 600,000 feet.

1953

January 11

AEC announces issuance of report on uranium sampling practices on Colorado Plateau prepared by Colorado School of Mines Research Foundation.

April 12

AEC announces policy of posting results of airborne surveys of radioactivity on the 15th of each month in public places throughout the West. (This airborne program continued until 1956 when it was no longer necessary. AEC had as many as a dozen planes flying at one time).

July 1

FY 1953 ore production, 610,000 tons. FY 1953 concentrates purchased by AEC, 990 tons at cost of \$24,200,000, with average price per pound of \$12.30.

August 17

AEC signs contract with Kerr-McGee Oil Industries, Inc., to buy concentrates from Shiprock, New Mexico, mill.

September

Anaconda mill at Bluewater, New Mexico, delivers first concentrate to AEC.

September 23

AEC announces extension of Circular 5, Revised, through March 31, 1962, and extension of Circular 6 (bonus) from February 24, 1954, to February 28, 1957.

November 17

AEC reports initial production bonus payments total 2 1/2 million dollars since start March 1, 1951.

December 31

In CY 1953, AEC requested seven separate public land withdrawals for the exploration program.

December 31

In exploration program, AEC drilled 600,000 feet and USGS drilled 715,000 feet, for total Government drilling of 1,315,000 feet. Estimate private industry drilling at 2,700,000 feet.

1954

January 29

Domestic Uranium Program Circular 7 promulgated. Provided for AEC to issue mining leases on certain public lands. Terminated on December 18, 1954, with passage of Public Law 585.

February 23

AEC announces bonus payments over \$3 million since the beginning on March 1, 1951. Current rate of payments at \$175,000 a month.

March 30

AEC announces ore-crushing and sampling plant to be built at Moab, Utah.

May 5

Contract signed for expansion of Government-owned Monticello, Utah, processing mill to treat refractory ores.

May 9

Provisional ore-buying station established by AEC at Moab, Utah.

May 18

Contract signed for expansion of Anaconda's Bluewater, New Mexico, mill to treat sandstone gangue ores.

July 1

FY 1954 ore production, 914,000 tons. FY 1954 concentrate purchases by AEC, 1,450 tons costing \$35,600,000; average price per pound, \$12.25.

July 7

AEC announces ore-buying station to open in White Canyon, Utah, in August, 1954.

July 20

AEC announces progress in construction of ore-testing pilot plant at Grand Junction Operations Office. This plant began operations in July, 1954 and ran continuously until June of 1958. Approximately 30,000 tons of ore from 40 different mines were tested in this plant.

September 15

Another expansion of Anaconda's Bluewater, New Mexico uranium processing plant announced.

October 12

AEC announces plans to establish ore-buying station at Riverton, Wyoming. (Opened for business March 1, 1955).

October 25

Expansion of Climax Uranium Company mill at Grand Junction announced.

November 1

Shiprock, New Mexico processing mill at Kerr-McGee Oil Industries goes into operation.

November 30

Capacity increased at Naturita, Colorado processing mill operated by Vanadium Corporation of America.

December 31

In CY 1954, approximately 133,000 acres in Colorado and Utah restored to public domain at request of AEC. Had been withdrawn in exploration program.

December 31

In CY 1954, in exploration program, AEC drilled 613,000 feet of holes and the USGS drilled 497,000 feet, for Government total of 1,110,000. Estimate private industry drilled 3,500,000 feet.

December 31

In access road program in CY 1954, projects on 72 1/2 miles of roads started at total cost of \$287,732.

1955

January

First concentrate received from Shiprock, New Mexico mill of Kerr-McGee.

March 1

Announce ore-buying station to open at Globe, Arizona. (Opened July 5, 1955).

March 5

Announce ore-buying station for Green River, Utah. (cancelled later).

March 30

AEC announces plans to make tests on uranium-bearing lignite, but no buying program at that time.

April 8

AEC announces bonus payments pass \$5 million mark since start of program March 1, 1951. To date, 2,889 payments totalling \$5,001,019. Rate of payments per month, \$195,000.

April 29

Contract executed for purchase of concentrates from Edgemont, South Dakota, mill operated by Mines Development, Inc.

June 17

AEC executed contract with Uranium Reduction Company for Moab, Utah, processing mill. (Later acquired by Atlas Corporation).

July 1

FY 1955 ore production, 1,306,000 tons. FY 1955 concentrate purchases, 2,140 tons at cost of \$53,600,000; average price per pound, \$12.51.

July 15

Tuba City, Arizona, mill contract signed with Rare Metals Corp. (Later, El Paso Natural Gas Company).

August 6

Announce expansion of U.S. Vanadium (later Union Carbide) processing mill at Uravan.

August 10

Executed contract with Trace Elements Corp., for mill at Maybell, Colorado. (Later, Union Carbide).

November 29

Contract with Continental Uranium, Inc., for mill at LaSal, Utah. (Never built and contract cancelled).

December 31

In CY 1955, AEC requested restoration of approximately 84,000 acres of public land in Wyoming, Colorado and Utah.

December 31

In CY 1955 exploration program, AEC drilled 316,000 feet of holes and USGS drilled 213,000, for Government total of 529,000 feet. Estimate of private drilling was 5,500,000 feet.

December 31

In CY 1955, access road projects totalling 110 miles and costing \$1,874,184 started under AEC auspices.

1956

January 12

AEC to open ore-buying station at Tuba City, Arizona.

January 15

AEC to open ore-buying station at Grants, New Mexico. (Began receiving ore July 5, 1956).

March 27

National Lead Company gets contract to operate Government-owned processing mill at Monticello, Utah, succeeding the Galigher Company.

May 24

AEC announces uranium procurement program for 1962-1966 period and extends initial production bonus to March 31, 1960.

June 2

Contract with Atomic Fuel Extraction Corporation for mill at Bedrock, Colorado. (Mill never built and contract cancelled).

June 8

Contract with Union Carbide Nuclear Company, for new mill at Rifle, to replace old one.

June 23

Reorganization of field activities of Division of Raw Materials under which GJ00 would direct all AEC exploration activities west of the Mississippi River, in addition to continuing the ore and concentrate procurement programs in same geographical area.

July 1

FY 1956 ore production, 2,185,000 tons. FY 1956 concentrate purchases, 4,200 tons at cost of \$97,800,000; average cost per pound, \$11.63.

July 1

Bonus payments FY 1956 total \$2,237,949.

July

First concentrate received from Tuba City, Arizona, mill operated by El Paso.

July 13

Domestic Uranium Program Circular 8 effective. Established regulations governing the issuance of leases for mining uranium deposits on certain withdrawn public lands. (Formalized the Mineral Leasing program in operation since 1949 under the Atomic Energy Act of 1946).

July 17

Contract with Texas-Zinc Minerals Company for processing mill at Mexican Hat, Utah.

August

First concentrates received from mill at Edgemont, So. Dakota, operated by Mines Development, Inc.

August 8

Contract executed with Dawn Mining Company for mill at Ford, Washington.

August 15

Contract executed with Lost Creek Oil & Uranium Co., (later Western Nuclear) for mill in Fremont County, Wyoming.

August 16

AEC revised procedures for releasing airborne survey maps.

August 22

Domestic Uranium Program Circular 5, Revised, is modified to eliminate requirements for proof of development allowance funds.

October 18

New AEC-Vitro contract increases capacity of mill and extends contract from December, 1958, to March, 1962.

October 24

Moab, Utah, ore-buying station to go on standby basis November 1, 1956.

November

First concentrate from URC mill at Moab, Utah, received by AEC.

November 11

Contract with Trace Elements Corp., for Maybell mill (supersedes contract executed in August, 1955). Union Carbide later bought out Trace Elements.

November 15

Contract executed for Gas Hills, Wyoming, processing mill with Lucky Mc Uranium (later Utah Construction and Mining Company).

November 16

Contract with Gunnison Mining Co., for processing mill at Gunnison, Colorado.

December 14

AEC announces plans for provisional ore-buying station at Crooks Gap, Wyoming.

December 20

AEC contract with Homestake-New Mexico Partners for processing mill at Grants, New Mexico.

December 31

In CY 1956, AEC initiated 8 separate actions to restore 148,000 acres to the public domain in Colorado, Utah and New Mexico.

December 31

In CY 1956, AEC drilled 14,000 feet and USGS drilled 26,000 feet in exploration program. Estimate private industry drilled 8,750,000 feet. (The final AEC drilling contract was let in 1956; private industry had taken over and there was no need for further Government drilling.)

December 31

In CY 1956, access road program saw start of work on 48 miles of roads at total cost of \$559,381.

1957

January 1

Globe, Arizona, AEC ore-buying station to close June 30, 1957.

February 5

Marysvale, Utah, AEC ore-buying station to close March 15, 1957.

March 4

Domestic Uranium Program Circular 9 promulgated. Deals with prospecting permits on certain lands.

April 2

AEC requests restoral to public domain of about 95,000 acres in Colorado.

April 24

AEC signs contract with Homestake-Sapin Partners for mill at Grants, New Mexico.

May 3

AEC signs contract with Kermac Nuclear Fuels Corporation for processing mill at Grants, New Mexico.

May 23

AEC signs contract with Cotter Corporation to purchase concentrates from pilot plant at Canon City, Colorado.

July 1

FY 1957 ore production, 3,303,000 tons. FY 1957 AEC concentrate purchases, 7,580 tons at cost of \$159,600,000; average cost per pound, \$10.53.

July 1

Bonus payments by AEC in Fiscal Year 1957 totaled \$2,982,965.

July 15

AEC announces White Canyon, Utah, buying station to close July 31, 1957.

July 19

AEC announces discontinuance of ore buying at Crooks Gap, Wyoming.

August

First concentrates received by AEC from Western Nuclear, Inc., mill in Wyoming.

September

First concentrate received by AEC from Dawn Mining Company mill at Ford, Washington.

September 17

AEC signs contract with Phillips Petroleum Company for processing mill at Grants, New Mexico.

October 28

Address by Director, Division of Raw Materials, before Atomic Industrial Forum in New York City in which it was stated that "We have arrived at the point where it is no longer in the interest of the Government to expand the production of uranium concentrate."

November

First concentrate received by AEC from Texas-Zinc mill at Mexican Hat, Utah.

November 18

AEC signs contract with Lakeview Mining Company for processing mill at Lakeview, Oregon.

December 4

AEC signs contract with Fremont Minerals (Later, Susquehanna-Western, Inc.) for a mill at Riverton, in Fremont County, Wyoming.

December

First concentrate received by AEC from Maybell, Colo., processing mill owned by Union Carbide.

December 5

Reorganization of the Grand Junction Operations Office affecting units responsible for programs for the evaluation of source material resources, uranium ore procurement, mining incentives, and the acquisition and production of uranium concentrates.

December 31

CY 1957, there was no AEC or USGS exploratory drilling. It was estimated that private industry drilled 9,200,000 feet.

December 31

Access road program in CY 1957 saw projects begun on 30 miles of roads at total cost of \$1,483,976.

1958

January 24

Riverton, Wyoming, AEC ore-buying station closed.

March

First concentrate received by AEC from Utah Construction & Mining Company mill in Wyoming.

April 2

AEC announces program modification to permit a limited expansion of the domestic uranium industry by providing a market for certain ore reserves developed prior to November 1, 1957.

April 24

AEC requests restoral to public domain of 21,440 acres in Utah.

April 28

Lisbon Uranium Company of Salt Lake City collects the \$10,000 bonus under Circular 2 only two days before the circular expired on April 11.

May 8

AEC announces plan to permit private sales of uranium.

July 1

FY 1958 ore production, 4,416,000 tons. FY 1958 AEC concentrate purchases, 10,250 tons at cost of \$196,000,000; average cost per pound, \$9.57.

July 1

FY 1958 bonus payments total \$2,040,118.

August

First concentrate received from Cotter pilot plant at Canon City, Colorado.

August

First concentrate received by AEC from Phillips Petroleum Company mill at Grants, New Mexico.

August 6

Texas-Zinc Minerals contract for Mexican Hat mill extended from March, 1962, to December 31, 1966.

August 27

AEC announces discontinuance of ore buying at Grants, New Mexico, station.

September

AEC receives first concentrate from Homestake-Sapin mill at Grants, New Mexico.

November 24

AEC announces modification of procurement program, establishing November 24, 1958, as cutoff date for eligible ores from which concentrates could be derived for sale to Government in 1962-66 period. (Allocation system also established later by AEC as part of this program).

December

AEC receives first concentrates from Kermac processing mill at Grants, New Mexico.

December 31

AEC estimates private industry drilled 7,300,000 feet of exploratory holes. (AEC and USGS had discontinued exploratory drilling).

1959

January

First concentrate received from Susquehanna-Western mill at Riverton, Wyoming.

February 27

AEC contract with Western Nuclear extended to December 31, 1966, and capacity of mill increased.

April 10

AEC signs contract with Federal-Radrock-Gas Hills Partners for processing mill in Fremont County, Wyoming.

May 1

AEC extends contract with Lucky Mc Uranium Corp., (later, Utah Construction & Mining) from July 1, 1959, to December 31, 1966.

May 9

AEC announces Government-owned processing mill at Monticello, Utah, will be closed January 1, 1960.

May 13

AEC signs contract with Globe Mining Co., (later, Union Carbide) for new processing mill in Natrona County, Wyoming.

May 14

Initial production bonus payments to March 31, 1959, total \$14,327,200 on 1,015 certified properties under Circular 6.

May 18

AEC requests ore reserve data by August 1, 1959, under terms of November 24, 1958, announcement. (Deadline later extended to October 1, 1959).

July 1

FY 1959 uranium ore production, 6,117,000 tons. FY 1959, AEC bought 15,160 tons of U₃O₈ at cost of \$280,500,000; average price per pound, \$9.25.

August 3

AEC contract with Uranium Reduction (later Atlas) amended and extended to December 31, 1966.

November 24

AEC contract with Kerr-McGee (Shiprock mill) extended to June 30, 1965.

December 1

AEC estimates domestic recoverable uranium ore reserves at 88,900,000 tons.

December 11

AEC contract with Anaconda Company for Bluewater, New Mexico mill extended to December 31, 1966.

December 17

Copper concentrate purchase contract extended to March 1, 1960. (Pilot plant enlarged to full scale mill).

December

First concentrate delivered to AEC from Federal processing mill in Wyoming.

1960

January 1

Government-owned uranium processing mill at Monticello, Utah, is closed.

February 1

First concentrate received by AEC from Globe mill in Natrona County, Wyoming.

March 29

AEC contract with Phillips Petroleum Co., amended to provide for deferral of 1,000,000 pounds of U_3O_8 to the 1962-1966 period.

March 31

Initial production bonus program (Circular 6) terminates. From beginning March 1, 1951, to date, total of approximately \$17,700,000 paid on 1,281 certified properties.

April 26

Dawn Mining Co. processing contract extended to December 31, 1966, from March 31, 1962.

May 27

AEC sold 1,581,000 pounds of vanadium pentoxide to Vanadium Corporation of America for \$1 per pound.

July 1

In FY 1960, uranium ore production, 7,606,309 tons. In FY 1960, AEC bought 16,403 tons of U_3O_8 at cost of \$287,140,064; average price per pound, \$8.75.

July 25

AEC signs U_3O_8 purchase contract with Susquehanna-Western, Inc., for mill at Falls City, Texas; runs to December 31, 1966.

July 27

AEC-Homestake-Sapin contract extended from April 1, 1960, to December 31, 1966.

August 12

AEC signs contract with Petrotomics Company to purchase concentrate from Shirley Basin (Wyo.) ores. (Mill built later by Petrotomics).

September 22

AEC-Climax contract extended to December 31, 1966, from August 1, 1960.

November

Lakeview Mining Co., processing mill at Lakeview, Oregon, closed. Assets acquired by Kermac.

1961

January 4

AEC-Susquehanna-Western contract for Riverton mill extended from June 1, 1960, to December 31, 1966.

February 2

AEC sold 1,139,900 pounds of vanadium pentoxide to private industry firms for \$1,152,756.

February 13

AEC exempts uranium miners from source material license rules.

February 21

Uranium mineral belt policy statement issued. Established historical production rate as basis for allocations.

March 21

AEC extends contract with Trace Elements (unit of Union Carbide) from March 31, 1962, to December 31, 1966.

May 1

AEC-Union Carbide Corporation contract for Rifle and Uranium mills extended from March 31, 1962, to December 31, 1966.

May 22

AEC-VCA contract for Durango mill extended from March 31, 1962, to December 31, 1966.

June

First concentrate received by AEC from Susquehanna-Western mill at Falls City, Texas.

July 1

FY 1961, uranium ore production 8,300,198 tons. (Peak year). FY 1961, AEC bought 17,671 tons of U_3O_8 at a cost of \$299,340,000. (Peak year). Average cost per pound, \$8.47.

August

Grand Junction Operations Office changed to Grand Junction Office.

August 16

AEC-Kerr-McGee Shiprock mill contract extended from June 30, 1965, to December 31, 1966.

November 9

AEC modifies contract with Homestake-Sapin Partners to replace prior existing contracts with Homestake-Sapin Partners and Homestake-New Mexico closed in April, 1962.

1962

March 14

AEC announces Monticello, Utah, ore-buying station to close March 31, 1962.

March 19

AEC-Mines Development contract for Edgemont mill extended from September 1, 1961, to December 31, 1966.

March 31

Termination of Domestic Uranium Program Circular 5, Revised, which provided for minimum ore prices, premium prices, haulage and development allowances, etc.

March 31

Last ML lease (Mineral Leasing program) expires. Between 1949 and 1962, a total of 49 such leases executed, with a peak 30 active leases operating in 1954. Total ore production during program was 1,251,971 tons of ore averaging 0.29 percent U_3O_8 and yielding 7,261,000 pounds of U_3O_8 . The ore also yielded 40,824,000 pounds of vanadium (V_2O_5). The Government received \$5,890,391 in royalties during the program.

1962

April

AEC receives first concentrates from Perotomics Company mill in Wyoming's Shirley Basin area.

April

Gunnison Mining Company, mill at Gunnison, Colorado, closed and assets acquired by Kermac.

April 9

AEC extends concentrate contract with Vitro, Salt Lake City, from March 31, 1962 to December 31, 1963.

June 29

AEC relaxes restrictions for small mines producing less than 20,000 pounds of U_3O_8 for year.

July 1

FY 1962, uranium ore production, 7,965,291. FY 1962, AEC bought 17,248 tons of U_3O_8 at a cost of \$281,180,000; average price per pound, \$8.00

August 18

AEC announces assignment of Uranium Reduction Company contract (Moab, Utah, mill) to Atlas Corporation.

November 17

AEC announces domestic uranium procurement program through December 31, 1970. (stretch-out program).

November 19

AEC-EI Paso contract for Tuba City, Arizona, mill extended from September 30, 1962, to December 31, 1966.

1963

February 25

AEC transfers Phillips processing mill contract to United Nuclear Corporation. Phillips mill closed March, 1963, and United Nuclear ores tolled through Homestake-Sapin mill in Grants, New Mexico, area.

March

VCA's processing mill at Durango, Colorado, closed. VCA acquired Kerr-McGee mill at Shiprock, New Mexico. The AEC-Kerr-McGee contract assigned to VCA for Shiprock mill.

May

Susquehanna-Western processing mill at Riverton, Wyoming, closed and arrangements made to toll some ores through Federal mill.

July 1

FY 1963, uranium ore production, 6,435,359 tons. FY 1963, AEC bought 15,760 tons of U_3O_8 at cost of \$246,210,000; average price per pound, \$8.00.

July 12

AEC announces appointment of Rafford L. Faulkner as Director of the Division of Raw Materials to succeed Jesse C. Johnson, retired.

July 25

AEC-Vitro contract for Salt Lake City mill extended from December 31, 1963, to December 31, 1966.

July 31

AEC approves consolidation of contracts of Atlas Corporation (Moab mill) and Texas-Zinc Minerals (Mexican Hat mill).

December 27

AEC announces signing of first stretch-out contract under the November 17, 1962 announcement with the Anaconda Company for the processing mill at Bluewater, New Mexico. Anaconda deferred approximately 3,000,000 pounds of U_3O_8 from the 1962-1966 period to 1967 and 1968.

1964

January 10

AEC announces uranium procurement program not affected by fissionable materials cutback; procurement commitments through 1970 to be carried out.

March 13

Second stretch-out contract signed with Western Nuclear for processing mill in Wyoming. Western Nuclear deferred approximately 2,500,000 pounds of U_3O_8 .

May 13

Third stretch-out contract signed with Union Carbide Corp., for processing mill in Wyoming, formerly Globe Mining Co. Union Carbide deferred approximately 758,000 pounds of U_3O_8 .

July 1

FY 1964 uranium ore production, 5,430,471 tons. FY 1964, AEC bought 12,583 tons of U_3O_8 at cost of \$201,370,000; average price per pound, \$8.00

July 2

Fourth stretch-out contract signed with Utah Construction & Mining Co., for processing mill in Wyoming. Utah deferred approximately 2,100,000 pounds of U_3O_8 .

August 28

Fifth stretch-out contract signed with Kermac Nuclear Fuels Corp., for mill at Grants, New Mexico. Kermac deferred approximately 6,000,000 pounds of U_3O_8 .

December 10

Sixth stretch-out contract signed with Federal-Radorock-Gas Hills Partners for mill in Wyoming. Federal deferred approximately 1,400,000 pounds of U_3O_8 .

1965

January 28

Seventh stretch-out contract signed with Federal-Radorock-Gas Hills Partners for mill in Wyoming. Federal deferred approximately 1,400,000 pounds of U_3O_8 .

February

Cotter Corporation processing mill at Canon City, Colo., closed upon expiration of AEC contract.

June

Dawn Mining Company mill at Ford, Washington closed.

June 23

Eighth stretch-out contract signed with Homestake-Sapin Partners for mill at Grants, New Mexico. Homestake-Sapin deferred approximately 4,100,000 pounds of U_3O_8 .

July 1

FY 1965 uranium ore production, 4,896,239 tons. FY 1965, AEC bought 11,819 tons of U_3O_8 at cost of \$181,100,000; average price per pound, \$8.00.

July 27

AEC-Vitro contract for Salt Lake City mill terminated at request of Vitro because of declining ore production in district.

August 5

Ninth stretch-out contract signed with United Nuclear Corp., operators in Grants, New Mexico, area. United Nuclear deferred approximately 3,800,000 pounds of U_3O_8 . United Nuclear had choice of operating own mill or tolling through Homestake-Sapin mill. (At end of 1965, UN was tolling through Homestake.)

October 28

Tenth stretch-out contract signed with Union Carbide Corp., for processing mills at Uravan and Rifle, Colorado. Carbide deferred approximately 2,520,000 pounds of U_3O_8 .

November 26

Eleventh and last stretch-out contract signed with Vanadium Corporation of America for mill at Shiprock, New Mexico. VCA deferred approximately 867,000 pounds of U_3O_8 .

Summarizing the stretch-out program, AEC announced that in the eleven contracts executed, about 15,300 tons of U_3O_8 had been deferred from the 1962-1966 period for delivery in 1967 and 1968 at \$8 per pound, and that the AEC expected to buy an additional 15,300 tons in 1969 and 1970 at an average price within the range of \$5.50 to \$6.00 per pound.

NOTE: This chronology of the Domestic Uranium Raw Materials program, 1947-1965, prepared by Neilson B. O'Rear, Public Information Officer, Grand Junction Office, U.S. Atomic Energy Commission. Work was completed May 31, 1966.

Appendix 2

CHEMICAL CLASSIFICATION OF THE URANIUM AND THORIUM MINERALS

(From Frondel, J. W. et al, 1967, Glossary of Uranium- and Thorium-Bearing Minerals, U.S. Geological Survey Bulletin 1250, 69 p.)

Arsenates:

- Abernathylite $K_2(UO_2)_2(AsO_4)_2 \cdot 6H_2O$
Arsenuranylite $Ca(UO_2)_4(AsO_4)_2(OH)_4 \cdot 6H_2O$
Hallimondite $Pb_2(UO_2)(AsO_4)_2$
Heinrichite $Ba(UO_2)_2(AsO_4)_2 \cdot 10-12H_2O$
Hügelite $Pb_2(UO_2)_3(AsO_4)_2(OH)_4 \cdot 3H_2O$
Kahlerite $Fe(UO_2)_2(AsO_4)_2 \cdot nH_2O$
Metahenrichite $Ba(UO_2)_2(AsO_4)_2 \cdot 8H_2O$
Metakahlerite $Fe(UO_2)_2(AsO_4)_2 \cdot 8H_2O$
Metakirchheimerite $Co(UO_2)_2(AsO_4)_2 \cdot 8H_2O$
Metanovacekite $Mg(UO_2)_2(AsO_4)_2 \cdot 4H_2O$
Meta-uranospinite $Ca(UO_2)_2(AsO_4)_2 \cdot 8H_2O$
Metazeunerite $Cu(UO_2)_2(AsO_4)_2 \cdot 8H_2O$
Novacekite $Mg(UO_2)_2(AsO_4)_2 \cdot 8-10H_2O$
Paulite $HAl(UO_2)_4(AsO_4)_4 \cdot 16H_2O(?)$
Sodium uranospinite $(Na_2, Ca)(UO_2)_2[(As, P)O_4]_2 \cdot 5H_2O$
Troegerite $H_2(UO_2)_2(AsO_4)_2 \cdot 8H_2O$
Uranospathite $Cu(UO_2)_2(AsO_4, PO_4)_2 \cdot 11H_2O(?)$
Uranospinite $Ca(UO_2)_2(AsO_4)_2 \cdot 10H_2O$
Walpurgite $Bi_4(UO_2)(AsO_4)_2O_4 \cdot 3H_2O$
Zeunerite $Cu(UO_2)_2(AsO_4)_2 \cdot 10-12H_2O$

Carbonates:

- Andersonite $Na_2Ca(UO_2)(CO_3)_3 \cdot 6H_2O$
Bayleyite $Mg_2(UO_2)(CO_3)_3 \cdot 18H_2O$
Liebigite $Ca_2(UO_2)(CO_3)_3 \cdot 10H_2O$
Mackelveyite Near $Na_2Ba_4Ca(Y, U)_2(CO_3)_9 \cdot 5H_2O$
Metazellerite $Ca(UO_2)(CO_3)_2 \cdot 3H_2O$
Rabbitite $Ca_3Mg_3(UO_2)_2(CO_3)_6(OH)_4 \cdot 18H_2O$

Rutherfordine $(\text{UO}_2)\text{CO}_3$
 Schroeckingerite $\text{NaCa}_3(\text{UO}_2)(\text{CO}_3)_3(\text{SO}_4)\text{F}\cdot 10\text{H}_2\text{O}$
 Sharpite $(\text{UO}_2)(\text{CO}_3)\cdot\text{H}_2\text{O}$ or $6\text{UO}_3\cdot 5\text{CO}_2\cdot 7\text{H}_2\text{O}$
 Studtite Hydrated carbonate of U and Pb.
 Swartzite $\text{CaMg}(\text{UO}_2)(\text{CO}_3)_3\cdot 12\text{H}_2\text{O}$
 Thorbastnaesite $\text{Th}(\text{Ce,Ca})(\text{CO}_3)_2\text{F}_2\cdot 3\text{H}_2\text{O}$
 Voglite $\text{Ca}_2\text{Cu}(\text{UO}_2)(\text{CO}_3)_4\cdot 6\text{H}_2\text{O}$
 Widenmannite Carbonate of U and Pb.
 Wyartite $\text{UO}_2\cdot 6\text{UO}_3\cdot 2\text{CO}_2\cdot 3\text{CaO}\cdot 12\text{--}14\text{H}_2\text{O}$
 Zellerite $\text{Ca}(\text{UO}_2)(\text{CO}_3)_2\cdot 5\text{H}_2\text{O}$

Molybdates:

Calcurmolite $\text{Ca}(\text{UO}_2)_3(\text{MoO}_4)_3(\text{OH})_2\cdot 11\text{H}_2\text{O}$
 Cousinite $\text{MgO}\cdot 2\text{MoO}_3\cdot 2\text{UO}_2\cdot 6\text{H}_2\text{O}$
 Iriginite $\text{UO}_3\cdot 2\text{MoO}_3\cdot 3\text{H}_2\text{O}$
 Moluranite $\text{UO}_2\cdot 3\text{UO}_3\cdot 7\text{MoO}_3\cdot 20\text{H}_2\text{O}$
 Mourite Hydrous uranous uranic molybdate.
 Sedovite $\text{U}(\text{MoO}_4)_2(?)$
 Umohölte $(\text{UO}_2)(\text{MoO}_4)\cdot 4\text{H}_2\text{O}(?)$
 Wulfenite $\text{Pb}(\text{Mo,U})\text{O}_4$

Niobates-tantalates-titanates:

Aeschynite $(\text{Ce,Ca,Fe}^{+2},\text{Th})(\text{Ti,Nb})_2(\text{O,OH})_6$
 Betafite $\text{A}_{2-x}\text{B}_2\text{O}_6(\text{O,OH})_x$, where $\text{A}=\text{Ca,Na,U,Ce}$; $\text{B}=\text{Nb,Ta,Ti,Fe}$.
 Brannerite AB_2O_6 , where $\text{A}=\text{U,Ca,Fe,Th,Y}$; $\text{B}=\text{Ti}$ mainly and Fe.
 Calciosamarskite Probably $(\text{Ca,Y,Ce,U,Th})_3(\text{Nb,Ta,Fe,Ti,Sn})_5\text{O}_{15}(?)$
 Davidite $\text{A}_6\text{B}_{15}(\text{O,OH})_{36}$, where $\text{A}=\text{Fe}^{+2}$, rare earths, U^{+6} , Ca,Zr,Th ; $\text{B}=\text{Ti,Fe}^{+3}$.
 Euxenite $(\text{Y,Ca,Ce,U,Th})(\text{Nb,Ta,Ti})_2\text{O}_6$
 Fergusonite $(\text{Y,Er,Ce,Fe})(\text{Nb,Ta,Ti})\text{O}_4$
 Formanite $(\text{Y,U,Th,Ca})(\text{Ta,Nb,Ti})\text{O}_4$
 Helmite $(\text{Y,Fe,U})(\text{Nb,Ta,Sn,W})_2\text{O}_6$
 Ishikawaitite $(\text{U,Fe,Y,Ce})(\text{Nb,Ta})\text{O}_4$
 Khlopinite $(\text{Y,U,Th})_3(\text{Nb,Ta,Ti,Fe})_7\text{O}_{20}(?)$
 Kobelite $\text{AB}_2(\text{O,OH})_6$, where $\text{A}=\text{Y,U}$; $\text{B}=\text{Ti}$ mainly, Fe^{+3} , Nb,Ta
 Loparite $(\text{Na,Ce,Th})_{1-x}(\text{Nb,Ti})[\text{O}_{3-x}(\text{OH})_x]$
 Microlite $\text{A}_2\text{B}_2\text{O}_6(\text{O,OH,F})$, where $\text{A}=\text{Na,Ca,Fe}^{+2},\text{U}^{+4},\text{Sb}^{+3},\text{Pb,Th,Zr,Ce,Y}$; $\text{B}=\text{Nb,Ta,Ti,Sn,Fe}^{+3}$.

Niobo-aeschnite $(\text{Ce}, \text{Y}, \text{Ca}, \text{Fe}, \text{Th})(\text{Nb}, \text{Ti})_2\text{O}_6$
 Nohelite $(\text{Ca}, \text{Mg}, \text{Fe}^{+2}, \text{Y}, \text{U})_2(\text{Nb}, \text{Zr}, \text{Fe}^{+3})_3\text{O}_{10}$
 Obruchevite $(\text{Y}, \text{Na}, \text{Ca}, \text{U})(\text{Nb}, \text{Ta}, \text{Ti}, \text{Fe})_2(\text{O}, \text{OH})_7 \cdot \text{H}_2\text{O}$
 Pisekite Niobate-tantalate-titanate of U and rare earths, with Th and Sn.
 Polycrase $(\text{Y}, \text{Ca}, \text{Ce}, \text{U}, \text{Th})(\text{Ti}, \text{Nb}, \text{Ta})_2\text{O}_6$
 Priorite $(\text{Y}, \text{Er}, \text{Ca}, \text{Fe}^{+2}, \text{Th})(\text{Ti}, \text{Nb})_2\text{O}_6$
 Pyrochlore $\text{A}_2\text{B}_2\text{O}_6(\text{O}, \text{OH}, \text{F})$, where $\text{A}=\text{Na}, \text{Ca}, \text{U}, \text{Th}, \text{Ce}, \text{Y}$; $\text{B}=\text{Nb}, \text{Ta}, \text{Ti}$.
 Samarskite $(\text{Y}, \text{Ce}, \text{U}, \text{Ca}, \text{Fe}, \text{Pb}, \text{Th})(\text{Nb}, \text{Ta}, \text{Ti}, \text{Sn})_2\text{O}_6$
 Sinclite $\text{AB}_2(\text{O}, \text{OH})_7$, where $\text{A}=\text{Ce}, \text{Y}, \text{Th}, \text{U}$; $\text{B}=\text{Ti}, \text{Nb}$ mainly
 Thorutite $(\text{Th}, \text{Ca}, \text{U})\text{Ti}_2(\text{O}, \text{OH})_6$
 Yttrocraosite $(\text{Y}, \text{Th}, \text{U}, \text{Ca})_2\text{Ti}_4\text{O}_{11} (?)$
 Yttrotantalite $(\text{Fe}, \text{Y}, \text{U})(\text{Nb}, \text{Ta})\text{O}_4$
 Zirkelite $(\text{Ca}, \text{Fe}, \text{Th}, \text{U})_2(\text{Ti}, \text{Nb}, \text{Zr})_2\text{O}_7 (?)$

Oxides:

Becquerelite $7\text{UO}_3 \cdot 11\text{H}_2\text{O}$
 Billietite $\text{BaO} \cdot 6\text{UO}_3 \cdot 11\text{H}_2\text{O}$
 Cerlanite $(\text{Ce}, \text{Th})\text{O}_2$
 Clarkeite $(\text{Na}, \text{Ca}, \text{Pb}, \text{Th}, \text{H}_2\text{O})\text{U}_2(\text{O}, \text{H}_2\text{O})_7$
 Compregnacite $\text{K}_2\text{O} \cdot 6\text{UO}_3 \cdot 11\text{H}_2\text{O}$
 Curite $3\text{PbO} \cdot 8\text{UO}_3 \cdot 5\text{H}_2\text{O}$
 Fourmarierite $\text{PbO} \cdot 4\text{UO}_3 \cdot 5\text{H}_2\text{O}$
 Hydronasturan $\text{UO}_2 \cdot k\text{UO}_3 \cdot n\text{H}_2\text{O}$, where $k=2.3$ to 5.0 ; $n=3.9$ to 9.0
 Ianthininite $\text{UO}_2 \cdot 5\text{UO}_3 \cdot 10-11\text{H}_2\text{O}$
 Masuyite $\text{UO}_3 \cdot 2\text{H}_2\text{O}$
 Parapitchblende Oxide of uranium, chiefly U^{+6} , minor U^{+4} .
 Richetite Contains Pb and U.
 Schoepite $\text{UO}_3 \cdot 2\text{H}_2\text{O}$
 Thorlanite $(\text{Th}, \text{U})\text{O}_2$
 Uraninite $(\text{U}^{+4}_{1-x}, \text{U}^{+6}_x)\text{O}_2 + x$
 Uranosphaerite $\text{BiUO}_4(\text{OH})$
 Urgite $\text{UO}_3 \cdot n\text{H}_2\text{O}$
 Vandenbrandelite $\text{CuUO}_4 \cdot 2\text{H}_2\text{O}$
 Vandendriesscheite $\text{PbO} \cdot 7\text{UO}_3 \cdot 12\text{H}_2\text{O} (?)$
 Wölsendorflite $(\text{Pb}, \text{Ca})\text{U}_2\text{O}_7 \cdot 2\text{H}_2\text{O}$

Phosphates:

- Autunite $\text{Ca}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 10-12\text{H}_2\text{O}$
- Bassetite $\text{Fe}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 8\text{H}_2\text{O}$
- Bergelite $\text{Ba}(\text{UO}_2)_4(\text{PO}_4)_2(\text{OH})_4 \cdot 8\text{H}_2\text{O}$
- Brockite $(\text{Ca}, \text{Th})\text{PO}_4 \cdot \text{H}_2\text{O}$
- Cerphosphorhuttonite $(\text{Th}, \text{Ce})(\text{Si}, \text{P})\text{O}_4 \cdot 1.5\text{H}_2\text{O}$
- Cheralite $(\text{Ca}, \text{Th}, \text{Ce})(\text{P}, \text{Si})\text{O}_4$
- Coconinoite $\text{Fe}^{+3}_2\text{Al}_2(\text{UO}_2)_2(\text{PO}_4)_4(\text{SO}_4)(\text{OH})_2 \cdot 20\text{H}_2\text{O}$
- Dewindtite $\text{Pb}_3(\text{UO}_2)_5(\text{PO}_4)_4(\text{OH})_4 \cdot 10\text{H}_2\text{O} (?)$
- Dumontite $\text{Pb}_2(\text{UO}_2)_3(\text{PO}_4)_2(\text{OH})_4 \cdot 3\text{H}_2\text{O}$
- Fritzscheite $\text{Mn}(\text{UO}_2)_2[(\text{P}, \text{V})\text{O}_4]_2 \cdot 8\text{H}_2\text{O} (?)$
- Grayite Thorium phosphate, perhaps $(\text{Th}, \text{Pb}, \text{Ca})(\text{PO}_4) \cdot \text{H}_2\text{O}$
- Hydrogen autunite $\text{H}_2(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 8-10\text{H}_2\text{O}$
- Kivulite $(\text{Th}, \text{Ca}, \text{Pb})\text{H}_2(\text{UO}_2)_4(\text{PO}_4)_2(\text{OH})_8 \cdot 7\text{H}_2\text{O}$
- Lermontovite $(\text{U}, \text{Ca}, \text{R.E.}^*)_3(\text{PO}_4)_4 \cdot 6\text{H}_2\text{O}$ *RARE EARTHS
- Meta-ankoleite $\text{K}_2(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 6\text{H}_2\text{O}$
- Meta-autunite I $\text{Ca}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 2-6\text{H}_2\text{O}$
- Meta-autunite II $\text{Ca}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 0-6\text{H}_2\text{O}$
- Metasaleeite $\text{Mg}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 4(?)\text{H}_2\text{O}$
- Metatorbernite $\text{Cu}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot n\text{H}_2\text{O}$, where $n=4 (?)$ to 8.
- Meta-uranocircite $\text{Ba}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 8\text{H}_2\text{O}$
- Monazite $(\text{Ce}, \text{La}, \text{Nd})\text{PO}_4$, with Th substituting for (Ce, La).
- Natroautunite $\text{Na}_2(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 8\text{H}_2\text{O}$
- Ningyolite $(\text{U}, \text{Ca}, \text{R.E.}^*)_2(\text{PO}_4)_2 \cdot 1-2\text{H}_2\text{O}$ *RARE EARTHS
- Parsonsite $\text{Pb}_2(\text{UO}_2)(\text{PO}_4)_2$
- Phosphuranylite $\text{Ca}(\text{UO}_2)_4(\text{PO}_4)_2(\text{OH})_4 \cdot 7\text{H}_2\text{O}$
- Przhevalskite $\text{Pb}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 2\text{H}_2\text{O}$
- Pseudo-autunite $(\text{H}_3\text{O})_2\text{Ca}(\text{UO}_2)(\text{PO}_4)_2 \cdot 2.5\text{H}_2\text{O}$
- Renardite $\text{Pb}(\text{UO}_2)_4(\text{PO}_4)_2(\text{OH})_4 \cdot 7\text{H}_2\text{O}$
- Sabugalite $\text{HAl}(\text{UO}_2)_4(\text{PO}_4)_4 \cdot 16\text{H}_2\text{O}$
- Saleeite $\text{Mg}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 8-10\text{H}_2\text{O}$
- Saryarkite $(\text{Ca}, \text{Y}, \text{Th})_2\text{Al}_4(\text{SiO}_4, \text{PO}_4)_4(\text{OH}) \cdot 9\text{H}_2\text{O}$
- Sodium uranospinite $(\text{Na}_2, \text{Ca})(\text{UO}_2)_2[(\text{As}, \text{P})\text{O}_4]_2 \cdot 5\text{H}_2\text{O}$
- Torbernite $\text{Cu}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 12\text{H}_2\text{O}$
- Uramphite $(\text{NH}_4)(\text{UO}_2)(\text{PO}_4) \cdot 3\text{H}_2\text{O}$

Uranospathite $\text{Cu}(\text{UO}_2)_2(\text{AsO}_4, \text{PO}_4)_2 \cdot 11\text{H}_2\text{O} (?)$

Selenites:

Demesmaekerite $\text{Pb}_2\text{Cu}_5(\text{UO}_2)_2(\text{SeO}_3)_6(\text{OH})_6 \cdot 2\text{H}_2\text{O}$

Guilleminite $\text{Ba}(\text{UO}_2)_3(\text{OH})_4(\text{SeO}_3)_2 \cdot 3\text{H}_2\text{O}$

Silicates:

Barium uranophane Contains major Ba, U, Si.

Beta-uranophane $\text{Ca}(\text{UO}_2)_2(\text{SiO}_3)_2(\text{OH})_2 \cdot 5\text{H}_2\text{O}$

Bilibinite $3(\text{Ca}, \text{Pb})\text{O} \cdot (\text{U}, \text{Th})\text{O}_2 \cdot 7\text{UO}_3 \cdot 10\text{SiO}_2 \cdot 19\text{H}_2\text{O}$

Boltwoodite $\text{K}_2(\text{UO}_2)_2(\text{SiO}_3)_2(\text{OH})_2 \cdot 5\text{H}_2\text{O}$

Caryocerite Borosilicate of Ce, Y, and Th.

Cerphosphorhuttonite $(\text{Th}, \text{Ce})(\text{Si}, \text{P})\text{O}_4 \cdot 1.5\text{H}_2\text{O}$

Cheralite $(\text{Ca}, \text{Th}, \text{Ce})(\text{P}, \text{Si})\text{O}_4$

Chevkinite $(\text{Ce}, \text{Y}, \text{Ca}, \text{U}, \text{Th})_2(\text{Ti}, \text{Fe}, \text{Mg})_2(\text{Si}, \text{Al})_2\text{O}_{11} (?)$

Coffinite $\text{U}(\text{SiO}_4)_{1-x}(\text{OH})_{4x}$

Cuprosklodowskite $\text{Cu}(\text{UO}_2)_2(\text{SiO}_3)_2(\text{OH})_2 \cdot 5\text{H}_2\text{O}$

Ekanite $(\text{Th}, \text{U})(\text{Ca}, \text{Fe}, \text{Pb})_2\text{Si}_8\text{O}_{20}$

Halweelite $\text{CaO} \cdot 2\text{UO}_3 \cdot 6\text{SiO}_2 \cdot 5\text{H}_2\text{O}$

Huttonite ThSiO_4

Hydrocerite $(\text{La}, \text{Ce}, \text{Th})_2(\text{Si}, \text{P})_2\text{O}_7 \cdot 5\text{H}_2\text{O}$

Kasolite $\text{Pb}(\text{UO}_2)(\text{SiO}_3)(\text{OH})_2$

Metahalweelite $\text{CaO} \cdot 2\text{UO}_3 \cdot 6\text{SiO}_2 \cdot n\text{H}_2\text{O}$

Nenadkevite $(\text{U}^{+4}, \text{Y}, \text{Ce})\text{U}^{+6}(\text{Ca}, \text{Mg}, \text{Pb})(\text{SiO}_4)_2(\text{OH})_4 \cdot n\text{H}_2\text{O}$

Orillite $3\text{PbO} \cdot 3\text{UO}_3 \cdot 4\text{SiO}_2 \cdot 6\text{H}_2\text{O}$

Orthochevkinite Dimorph of chevkinite.

Parrierite $(\text{Ce}, \text{Y}, \text{Ca}, \text{Th})_2(\text{Ti}, \text{Fe}, \text{Mg})_2(\text{Si}, \text{Al})_2\text{O}_{11} (?)$

Ranquillite $3\text{CaO} \cdot 4\text{UO}_3 \cdot 10\text{SiO}_2 \cdot 24\text{H}_2\text{O}$

Saryarkite $(\text{Ca}, \text{Y}, \text{Th})_2\text{Al}_4(\text{SiO}_4, \text{PO}_4)_4(\text{OH}) \cdot 9\text{H}_2\text{O}$

Sklodowskite $\text{Mg}(\text{UO}_2)_2(\text{SiO}_3)_2(\text{OH})_2 \cdot 5\text{H}_2\text{O}$

Sodylite $(\text{UO}_2)_5(\text{SiO}_4)_2(\text{OH})_2 \cdot 5\text{H}_2\text{O}$

Steenstrupine $(\text{Ce}, \text{La}, \text{Th}, \text{Ca}, \text{Na})_2(\text{Mn}, \text{Fe})(\text{SiO}_3)_2(\text{OH})_2 \cdot 2\text{H}_2\text{O}$

Thorite ThSiO_4

Thorogummite $(\text{Th}(\text{SiO}_4)_{1-x}(\text{OH})_{4x}$

Thorosteenstrupine $(\text{Ca}, \text{Th}, \text{Mn})_3\text{Si}_4(\text{O}, \text{F})_{12} \cdot 5.7\text{H}_2\text{O}$

Tritomite Borosilicate of Ce, Y, Th, Ca, and F.

Uranophane $\text{Ca}(\text{UO}_2)_2(\text{SiO}_3)_2(\text{OH})_2 \cdot 5\text{H}_2\text{O}$

Ursillite $2(\text{Ca}, \text{Mg})\text{O} \cdot 2\text{UO}_3 \cdot 5\text{SiO}_2 \cdot 9-10\text{H}_2\text{O}$

Usigite $\text{R} \cdot (\text{UO}_2)_2(\text{Si}_2\text{O}_7) \cdot n\text{H}_2\text{O}$ MEANING OF R NOT SPECIFIED

Weeksite $\text{K}(\text{UO}_2)_2(\text{Si}_2\text{O}_5)_3 \cdot 4\text{H}_2\text{O}$

Yttrialite $(\text{Y}, \text{Th})_2\text{Si}_2\text{O}_7$

Sulfates:

Calclouraconite Near $\text{Ca}(\text{UO}_2)_4(\text{SO}_4)_2(\text{OH})_6 \cdot 20\text{H}_2\text{O}$

Coconinoltite $\text{Fe}_2^{+3}\text{Al}_2(\text{UO}_2)_2(\text{PO}_4)_4(\text{SO}_4)(\text{OH})_2 \cdot 20\text{H}_2\text{O}$

Cuprozippeite $\text{Cu}(\text{UO}_2)_2(\text{SO}_4)_2(\text{OH})_2 \cdot 11\text{H}_2\text{O}$

Johannite $\text{Cu}(\text{UO}_2)_2(\text{SO}_4)_2(\text{OH})_2 \cdot 6\text{H}_2\text{O}$

Medjildite Supposedly a uranium sulfate.

Meta-uranopilite $(\text{UO}_2)_6(\text{SO}_4)(\text{OH})_{10} \cdot 5\text{H}_2\text{O}(?)$

Schroekingite $\text{NaCa}_3(\text{UO}_2)(\text{CO}_3)_3(\text{SO}_4)\text{F} \cdot 10\text{H}_2\text{O}$

Uranochalcite Supposedly a uranium sulfate.

Uranopilite $(\text{UO}_2)_6(\text{SO}_4)(\text{OH})_{10} \cdot 12\text{H}_2\text{O}$

Voglianite Hydrated calcium uranium sulfate.

Zippeite $\text{K}_4(\text{UO}_2)_6(\text{SO}_4)_3(\text{OH})_{10} \cdot \text{H}_2\text{O}$

Tellurites:

Moctezumite $\text{PbO} \cdot \text{UO}_3 \cdot 2\text{TeO}_2$

Vanadates:

Carnotite $\text{K}_2(\text{UO}_2)_2(\text{VO}_4)_2 \cdot n\text{H}_2\text{O}(n=1 \text{ to } 3)$

Ferghanite $(\text{UO}_2)_3(\text{VO}_4)_2 \cdot 6\text{H}_2\text{O}(?)$

Francevillite $(\text{Ba}, \text{Pb})(\text{UO}_2)_2(\text{VO}_4)_2 \cdot 5\text{H}_2\text{O}$

Fritzscheite $\text{Mn}(\text{UO}_2)_2[(\text{P}, \text{V})\text{O}_4]_2 \cdot 8\text{H}_2\text{O}(?)$

Metatyuyamunite $\text{Ca}(\text{UO}_2)_2(\text{VO}_4)_2 \cdot 3-5\text{H}_2\text{O}$

Rauvite $\text{CaO} \cdot 2\text{UO}_3 \cdot 5\text{V}_2\text{O}_5 \cdot 16\text{H}_2\text{O}(?)$

Senglerite $\text{Cu}(\text{UO}_2)_2(\text{VO}_4)_2 \cdot 8-10\text{H}_2\text{O}$

Tyuyamunite $\text{Ca}(\text{UO}_2)_2(\text{VO}_4)_2 \cdot 5-8\text{H}_2\text{O}$

Uvanite $\text{U}_2\text{V}_6\text{O}_{21} \cdot 15\text{H}_2\text{O}(?)$

Vanuralite $(\text{UO}_2)_2\text{Al}(\text{VO}_4)_2(\text{OH}) \cdot 8\text{H}_2\text{O}$

Vanuranyllite $[(\text{H}_3\text{O})_{1.2}(\text{Ba}, \text{Ca}, \text{K}, \text{Pb})_{0.4}](\text{UO}_2)_2(\text{VO}_4)_2 \cdot 4 \cdot 2\text{H}_2\text{O}$

ENERGY-RELATED PUBLICATIONS OF THE COLORADO GEOLOGICAL SURVEY

URANIUM

- BULLETIN 40 -- Radioactive Mineral Occurrences of Colorado, and Bibliography, including maps, by J. L. Nelson-Moore, O. Bishop Collins, and A. L. Hornbaker, 1976, 1,053 p., over-the-counter, \$37.00, mailed \$40.00.
- MAP SERIES 11 -- Uranium-Vanadium Mining Activity Map of Colorado with Directory, J. Collier, A. L. Hornbaker, and W. Chenoweth, 1973, scale 1:500,000, incl. Uravan Mineral Area 1:100,000, \$4.00.

GEOTHERMAL ENERGY AND GROUNDWATER

- BULLETIN 32 -- Bibliography of Hydrogeologic Reports in Colorado, by R. H. Pearl, 1971, 39 p., \$1.00.
- BULLETIN 33 -- Proceedings of a Symposium on Geothermal Energy in Colorado, by R. H. Pearl, ed., 1974, 102 p., \$3.00.
- BULLETIN 36 -- Geologic Control of Supply and Quality of Water in the Mountainous Part of Jefferson County, Colorado, by W. E. Hofstra and D. C. Holt, 1975, 51 p., \$3.00.
- BULLETIN 39 -- An Appraisal of Colorado's Geothermal Resources, by J. K. Barrett and R. H. Pearl, 1973, 223 p., \$7.00.
- SPECIAL PUBLICATION 2 -- Geothermal Resources of Colorado, by R. H. Pearl, 1972, 34 p., \$1.00.
- SPECIAL PUBLICATION 4 -- Geology of Ground Water Resources in Colorado--An Introduction, by R. H. Pearl, 1974, 47 p., \$1.50.
- INFORMATION SERIES 4 -- Map Showing Thermal Springs, Wells and Heat-Flow Contours in Colorado, by J. K. Barrett, R. H. Pearl, and A. J. Pennington, 1977, 1 pl., scale 1:1,000,000, \$1.50.
- INFORMATION SERIES 6 -- Hydrogeological Data of Thermal Springs and Wells in Colorado, by J. K. Barrett and R. H. Pearl, 1976, 124 p., \$1.50.
- INFORMATION SERIES 9 -- Geothermal Resource Development in Colorado, Processes, Promises and Problems, by B. A. Coe, 1973, 43 p., \$3.00.

COAL

- RESOURCE SERIES 1 -- Geology of Rocky Mountain Coal, a Symposium, 1976, edited by D. Keith Murray, 1977, 175 p., \$4.00.
- RESOURCE SERIES 5 -- Colorado Coal Directory and Source Book, by L. C. Dawson and D. K. Murray, 1973, 225 p., \$6.00.
- RESOURCE SERIES 4 -- Proceedings of the Second Symposium on the Geology of Rocky Mountain Coal - 1977, edited by Helen E. Hodgson, 1978, 219 p., \$5.00.
- INFORMATION SERIES 2 -- Coal Mines of Colorado, Statistical Data, by D. C. Jones and D. K. Murray, 1976, 27 p., \$1.00.
- INFORMATION SERIES 7 -- Colorado Coal Analyses, 1975 (Analyses of 64 Samples Collected in 1973), by D. L. Borack, D. C. Jones, D. K. Murray, J. E. Schultz, and D. C. Suek, 112 p., \$3.00.
- INFORMATION SERIES 10 -- Colorado Coal Analyses, 1976, by J. E. Schultz, 1973 (in preparation).
- SPECIAL PUBLICATION 9 -- 1975 Summary of Coal Resources in Colorado, by A. L. Hornbaker, R. D. Holt, and D. K. Murray, 1976, 17 p., \$1.00.
- BULLETIN 34-A -- Bibliography, Coal Resources in Colorado, by R. D. Holt, 1972, 32 p., \$1.00.
- BULLETIN 41 -- Bibliography and Index of Publications Related to Coal in Colorado, 1972-1977, by H. B. Fender, D. C. Jones, and D. K. Murray, 1978, 55 p., \$2.00.
- MAP SERIES 8 -- Licensed Coal Mines in Colorado, by D. C. Jones, 1977, scale 1:1,000,000, \$2.00.
- MAP SERIES 9 -- Coal Resources and Development Map of Colorado, by D. C. Jones, J. E. Schultz, and D. K. Murray, 1973, scale 1:500,000, \$4.00 (mail orders add \$.50 for each copy, postage and mailer).
- MAP SERIES 12 -- Map of Licensed Coal Mines in Colorado, as of June 1, 1976, S. M. Goolsby and W. B. S. Reade, 1976, sheet, scale 1:1,000,000, \$2.00.
- OPEN-FILE REPORT 78-1 -- Evaluation of Gokins Coal Deposits in Colorado, by D. C. Jones and D. K. Murray, First Annual Report, 1973, 18 p., 1 fig., 5 plates, 10 tables (price: cost of reproduction).
- OPEN-FILE REPORT 78-2 -- Data Accumulation on the Methane Potential of the Coal Beds of Colorado, Final Report, by H. B. Fender and D. K. Murray, 1973 (price: cost of reproduction).

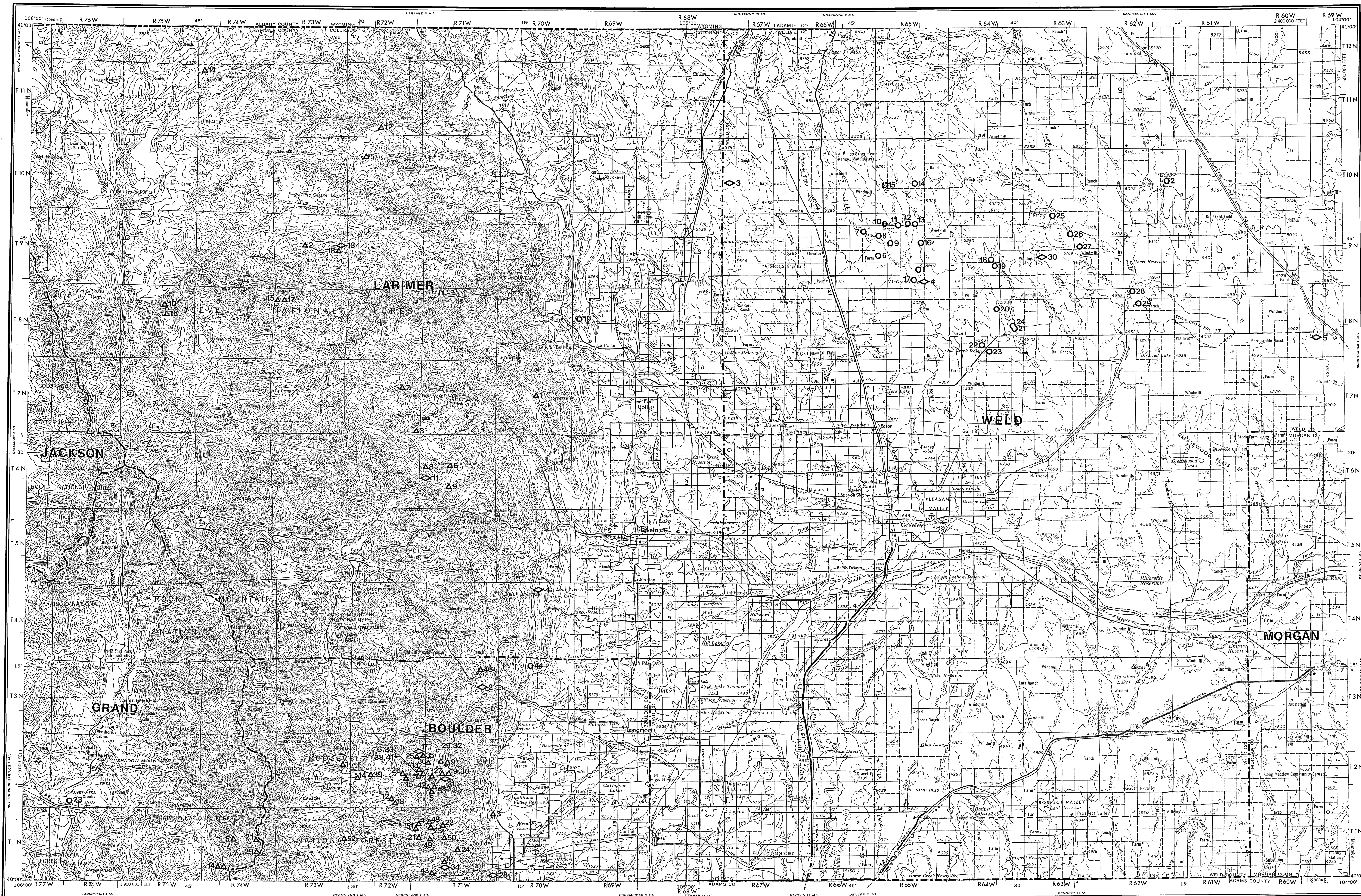
OIL AND GAS

- INFORMATION SERIES 3 -- Oil and Gas Fields of Colorado, Statistical Data, by D. C. Jones and D. K. Murray, 1976, 57 p., \$2.00.

GENERAL

- GEOLOGIC MAP OF COLORADO -- U.S. Geological Survey, 1935, 1 sheet, multi-colored, scale 1:500,000; reprinted by Colorado Geological Survey, 1975, \$5.00 (\$6.50 rolled and mailed).
- MAP MP-788 -- Preliminary Geologic Map of Colorado, compiled by Ogden Tweto, published by U.S. Geological Survey, 1976, 2 sheets, black and white, scale 1:500,000, \$1.50.
- MAP 1-1019 -- Energy Resources Map of Colorado, compiled by U.S. Geological Survey and Colorado Geological Survey, 1 sheet, multi-color, scale 1:500,000, \$2.00.
- MAP SERIES 1 -- Geologic, Energy and Mineral Resources Maps of Routt County, Colorado, by A. E. Miller, 1975, 2 maps, scale 1:126,720, \$5.00.
- MAP SERIES 5 -- Geology of Moffat County, by A. E. Miller, 1977, scale 1:126,720, \$8.00.
- OPEN-FILE REPORT -- Mineral Resources Maps of Moffat County, Colorado, by C. S. Robinson and Associates, 1975, 3 sheets, \$5.00, (reproducibles also available at Moffat County Planning Commission Office, Craig, Colorado).
- BULLETIN 37 -- Bibliography and Index of Colorado Geology 1875-1975, compiled by American Geological Institute, 1976, \$7.50 (soft cover) \$10.00 (hard cover) (mail orders add \$1.00 for each copy, postage and mailer).
- COLORADO STRATIGRAPHIC CORRELATION CHART -- by R. H. Pearl and D. K. Murray, 1974, \$0.25.

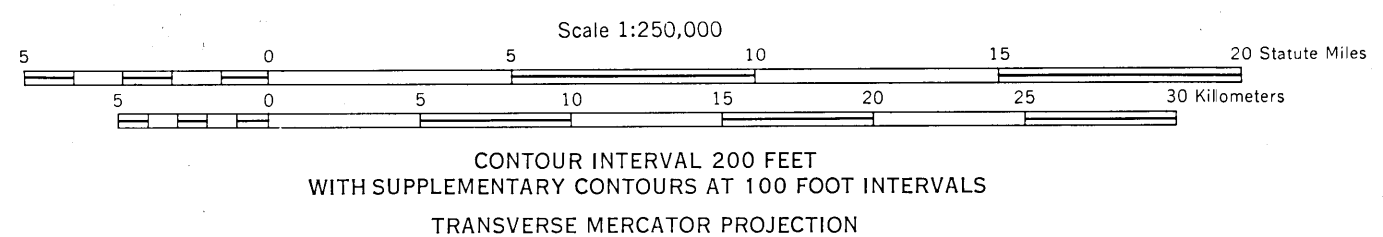
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Base from U. S. Geological Survey

EXPLANATION

- HOST ROCKS FOR OCCURRENCES**
- SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE, LAKE SEDIMENTS
 - COAL, SHALE, LIMESTONE
 - SPRING DEPOSITS, GROUND WATER
 - △ IGNEOUS, METAMORPHIC
 - ◇ UNDETERMINED
 - 11 OCCURRENCE NUMBER FROM TEXT
- STATE BOUNDARY
--- COUNTY BOUNDARY



RADIOACTIVE MINERAL OCCURRENCES OF THE GREELEY 1° x 2° QUADRANGLE, COLORADO

Compiled by James L. Nelson-Moore, Donna Bishop Collins, and A. L. Hornbaker

1978

LOCATION DIAGRAM FOR NK 13-11

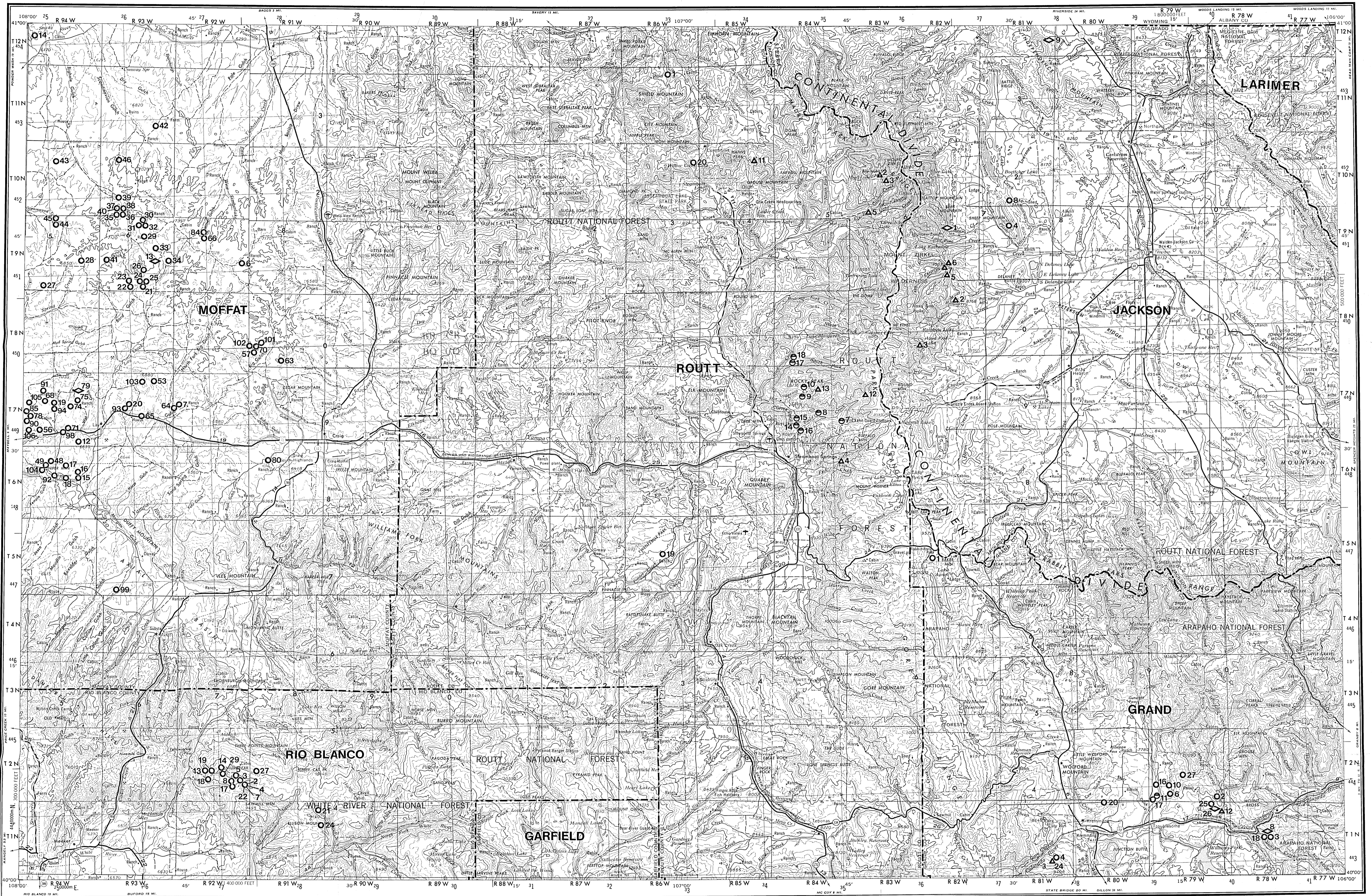
31°	30'	31°	30'
WYOMING	WYOMING	WYOMING	WYOMING
NK 12-6	NK 13-4	NK 13-5	NK 13-6
NK 12-9	NK 13-7	NK 13-8	NK 13-9
NK 12-12	NK 13-10	NK 13-11	NK 13-12
NK 12-3	NK 13-1	NK 13-3	NK 13-4
NK 12-6	NK 13-4	NK 13-5	NK 13-6
30'	31°	31°	30'

SECTIONED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

GREELEY, COLORADO; WYOMING

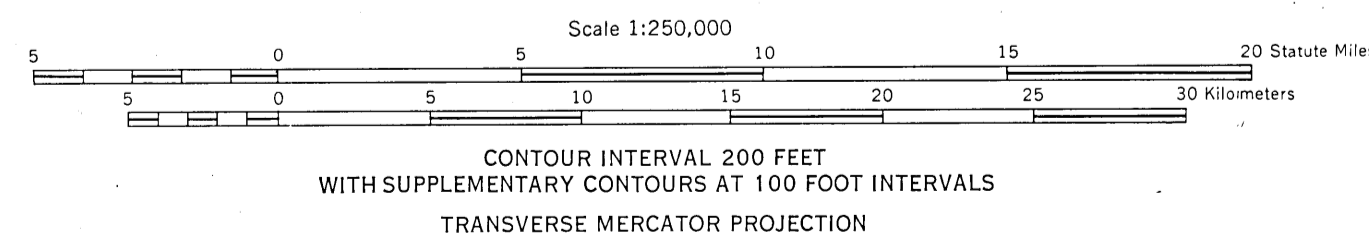
1954
Limited Revision 1961



Base from U. S. Geological Survey

EXPLANATION

- HOST ROCKS FOR OCCURRENCES**
- SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE, LAKE SEDIMENTS
 - COAL, SHALE, LIMESTONE
 - SPRING DEPOSITS, GROUND WATER
 - ▲ IGNEOUS, METAMORPHIC
 - ◇ UNDETERMINED
 - 11 OCCURRENCE NUMBER FROM TEXT
- STATE BOUNDARY
----- COUNTY BOUNDARY

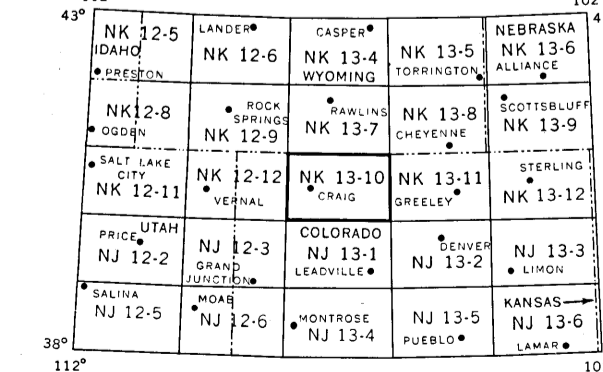


RADIOACTIVE MINERAL OCCURRENCES OF THE CRAIG 1°x2° QUADRANGLE, COLORADO

Compiled by James L. Nelson-Moore, Donna Bishop Collins, and A. L. Hornbaker

1978

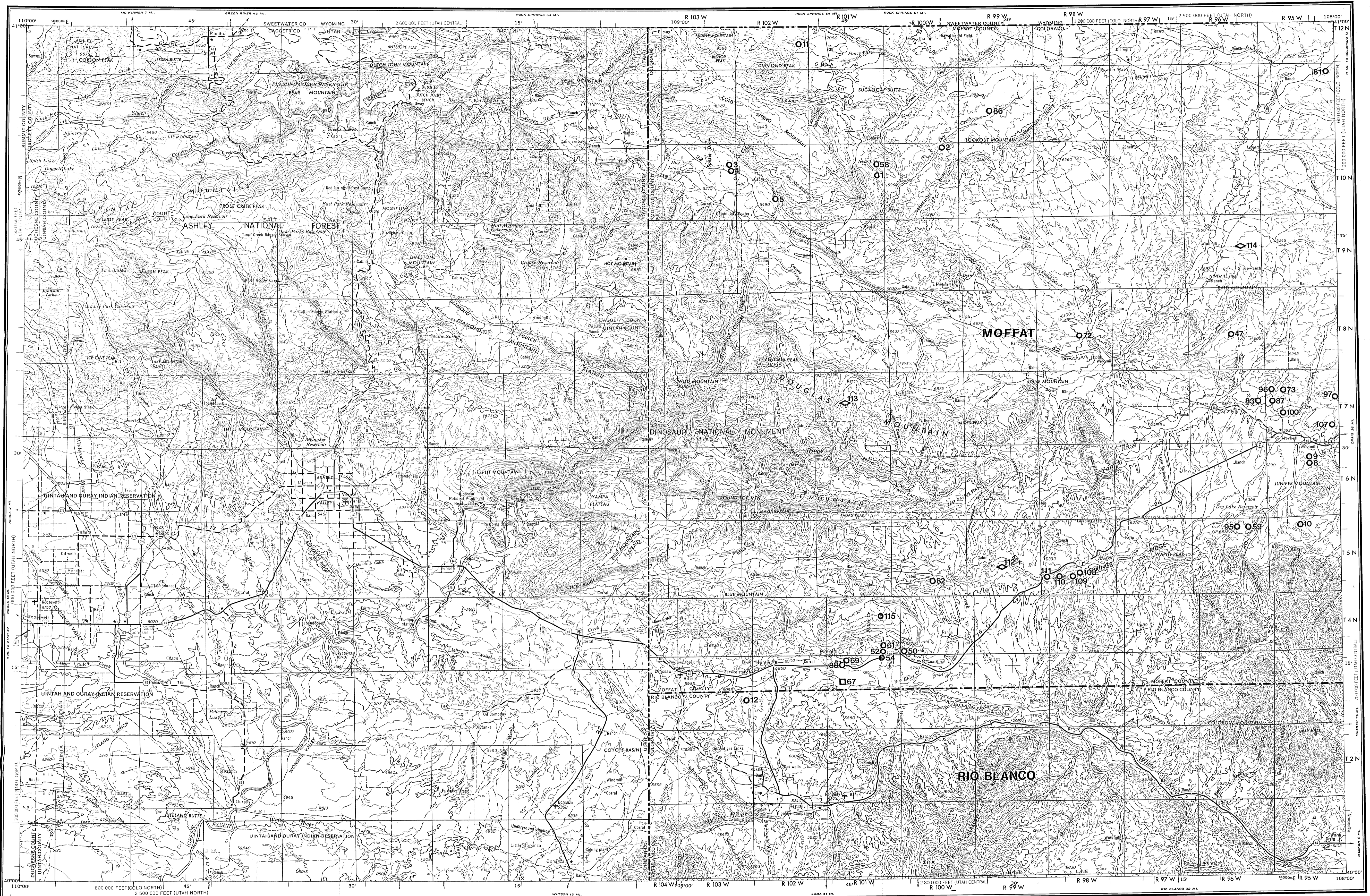
LOCATION DIAGRAM



SECTIONIZED TOWNSHIP

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7	8	9	10	11	12
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19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

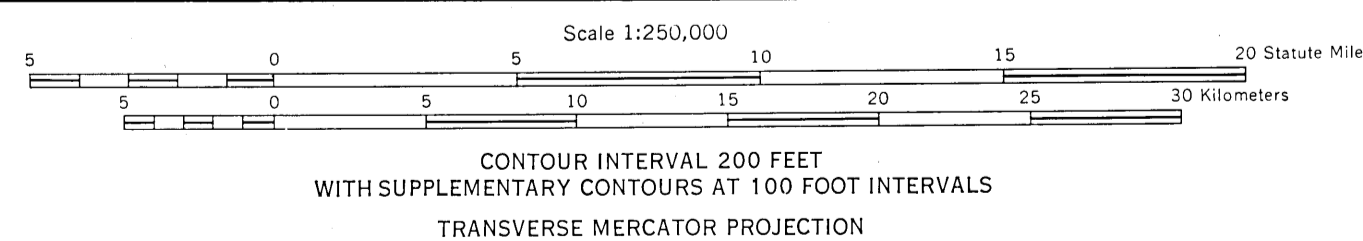
CRAIG, COLORADO, WYOMING
1954
REVISED 1974



Base from U. S. Geological Survey

EXPLANATION

- SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE, LAKE SEDIMENTS
- COAL, SHALE, LIMESTONE
- ⊕ SPRING DEPOSITS, GROUND WATER
- ⊕ IGNEOUS, METAMORPHIC
- ◇ UNDETERMINED
- 11 OCCURRENCE NUMBER FROM TEXT
- STATE BOUNDARY
- COUNTY BOUNDARY



RADIOACTIVE MINERAL OCCURRENCES OF THE VERNAL 1° x 2° QUADRANGLE, COLORADO

Compiled by James L. Nelson-Moore, Donna Bishop Collins, and A. L. Hornbaker

1978

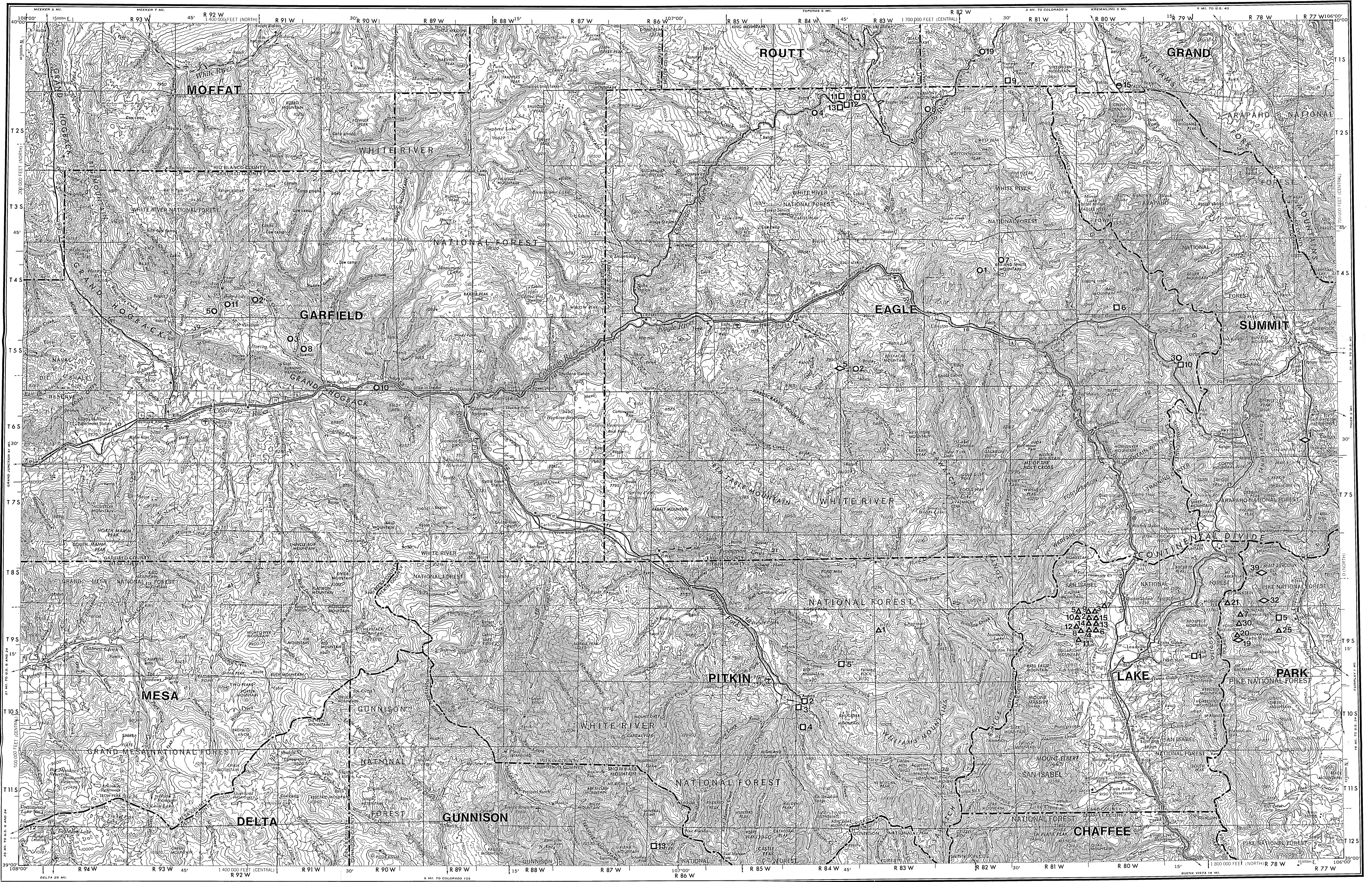
LOCATION DIAGRAM

POCAHONTE NK 12-4	IDAHO NK 12-5	WYOMING NK 12-6	CASPER NK 13-4	WYOMING NK 13-5
BRIDGEMAN CITY NK 12-8	WYOMING NK 12-9	WYOMING NK 12-10	WYOMING NK 13-6	WYOMING NK 13-7
WYOMING NK 12-11	WYOMING NK 12-12	WYOMING NK 12-13	WYOMING NK 13-8	WYOMING NK 13-9
UTAH PRICE NK 12-1	UTAH PRICE NK 12-2	UTAH PRICE NK 12-3	UTAH PRICE NK 13-10	UTAH PRICE NK 13-11
UTAH PRICE NK 12-4	UTAH PRICE NK 12-5	UTAH PRICE NK 12-6	UTAH PRICE NK 13-12	UTAH PRICE NK 13-13

SECTIONIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

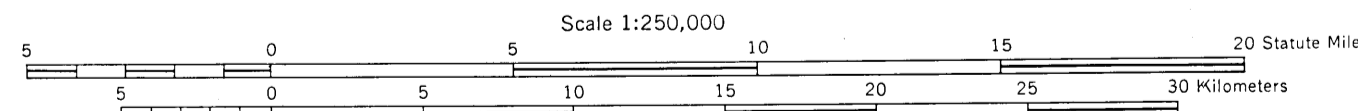
VERNAL, UTAH, COLORADO
1954
LIMITED REVISION 1965



Base from U. S. Geological Survey

EXPLANATION

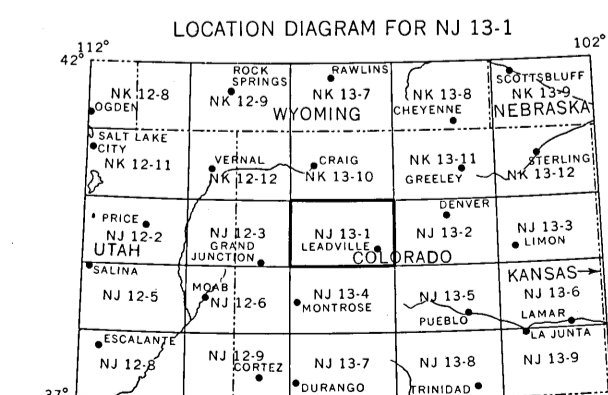
- HOST ROCKS FOR OCCURRENCES**
- SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE, LAKE SEDIMENTS
 - COAL, SHALE, LIMESTONE
 - SPRING DEPOSITS, GROUND WATER
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 - - - COUNTY BOUNDARY



Scale 1:250,000
 CONTOUR INTERVAL 200 FEET
 WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS
 TRANSVERSE MERCATOR PROJECTION

RADIOACTIVE MINERAL OCCURRENCES OF THE LEADVILLE 1° x 2° QUADRANGLE, COLORADO

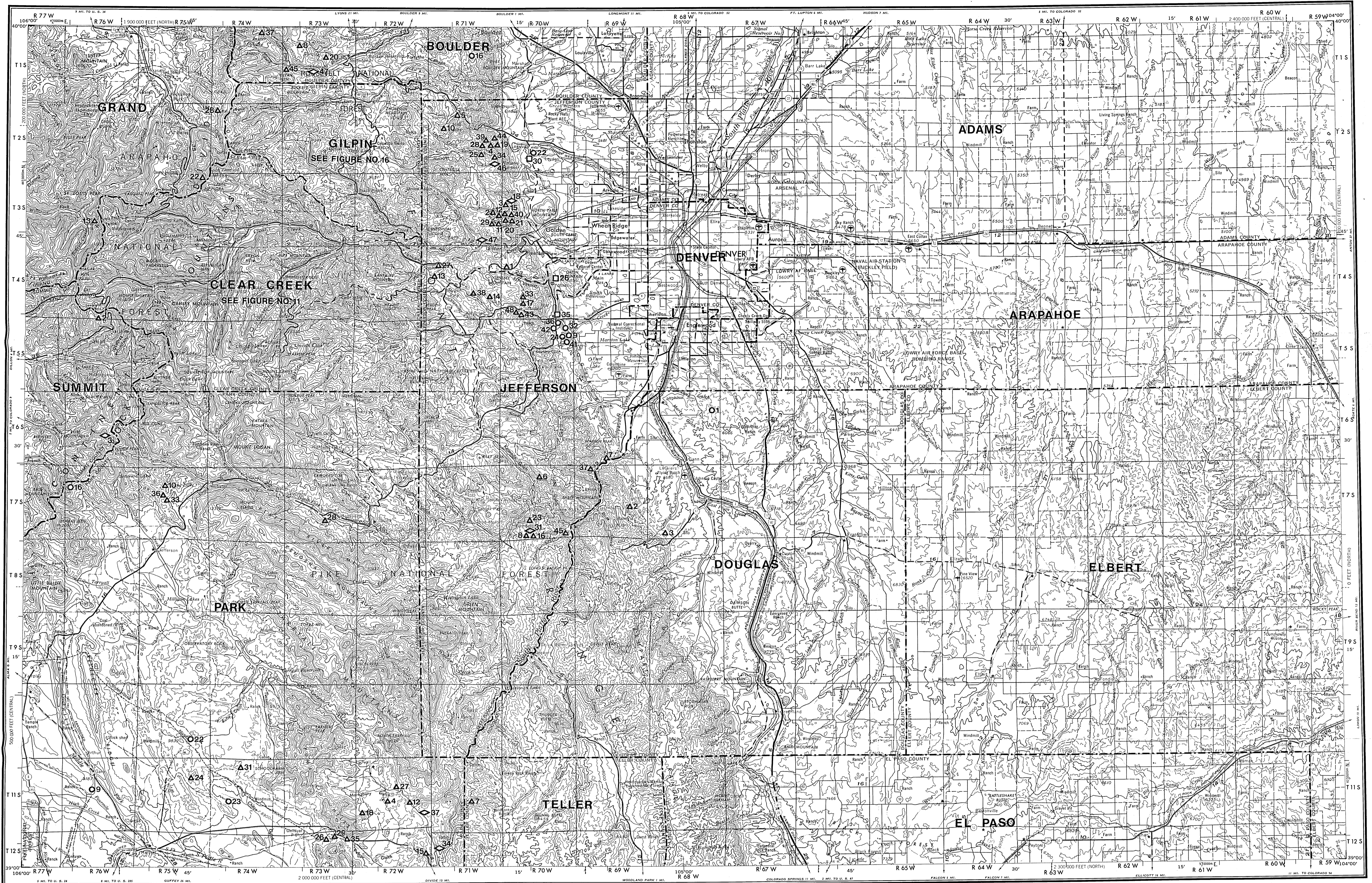
Compiled by James L. Nelson-Moore, Donna Bishop Collins, and A. L. Hornbaker



SECTIONIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
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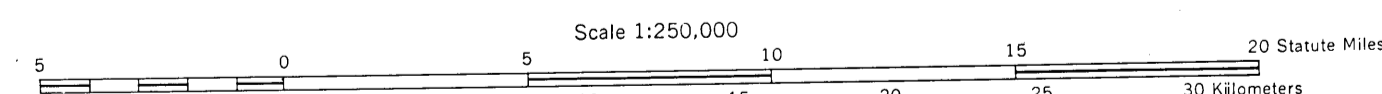
LEADVILLE, COLORADO



Base from U. S. Geological Survey

EXPLANATION

- | | | | |
|-----|--|-------|-----------------|
| ○ | SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE, LAKE SEDIMENTS | ----- | STATE BOUNDARY |
| □ | COAL, SHALE, LIMESTONE | ----- | COUNTY BOUNDARY |
| △ | SPRING DEPOSITS, GROUND WATER | | |
| ▲ | IGNEOUS, METAMORPHIC | | |
| ◇ | UNDETERMINED | | |
| ○11 | OCCURRENCE NUMBER FROM TEXT | | |



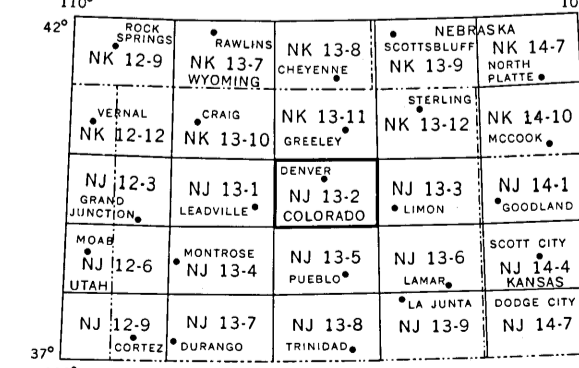
CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS
TRANSVERSE MERCATOR PROJECTION

RADIOACTIVE MINERAL OCCURRENCES OF THE DENVER 1°x2° QUADRANGLE, COLORADO

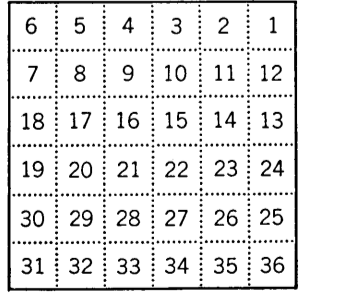
Compiled by James L. Nelson-Moore, Donna Bishop Collins, and A. L. Hornbaker

1978

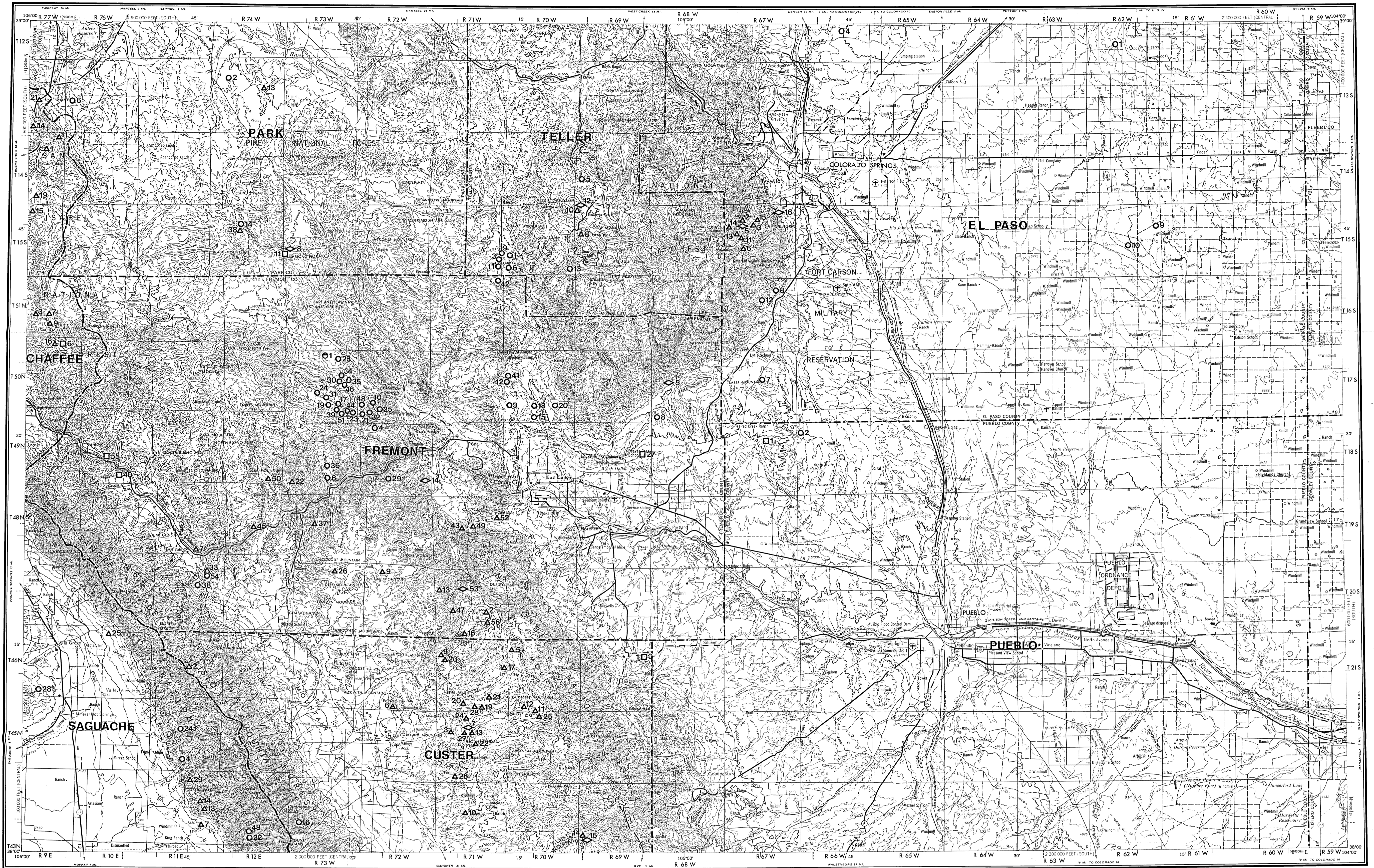
LOCATION DIAGRAM FOR NJ 13-2



SECTIONING TOWNSHIP



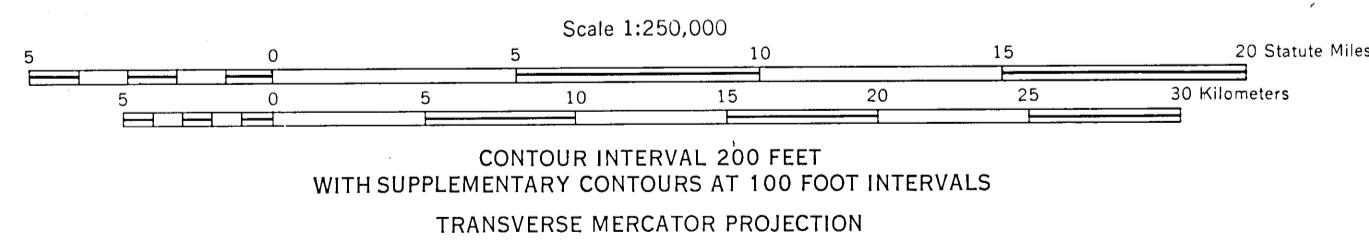
DENVER, COLORADO
1953
LIMITED REVISION 1963



Base from U. S. Geological Survey

EXPLANATION

- HOST ROCKS FOR OCCURRENCES**
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- - - - STATE BOUNDARY
 - - - - COUNTY BOUNDARY

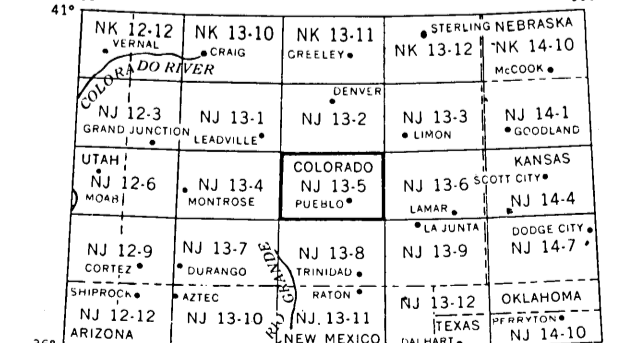


RADIOACTIVE MINERAL OCCURRENCES OF THE PUEBLO 1° x 2° QUADRANGLE, COLORADO

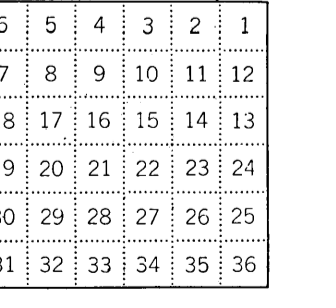
Compiled by James L. Nelson-Moore, Donna Bishop Collins, and A. L. Hornbaker

1978

LOCATION DIAGRAM FOR NJ 13-5

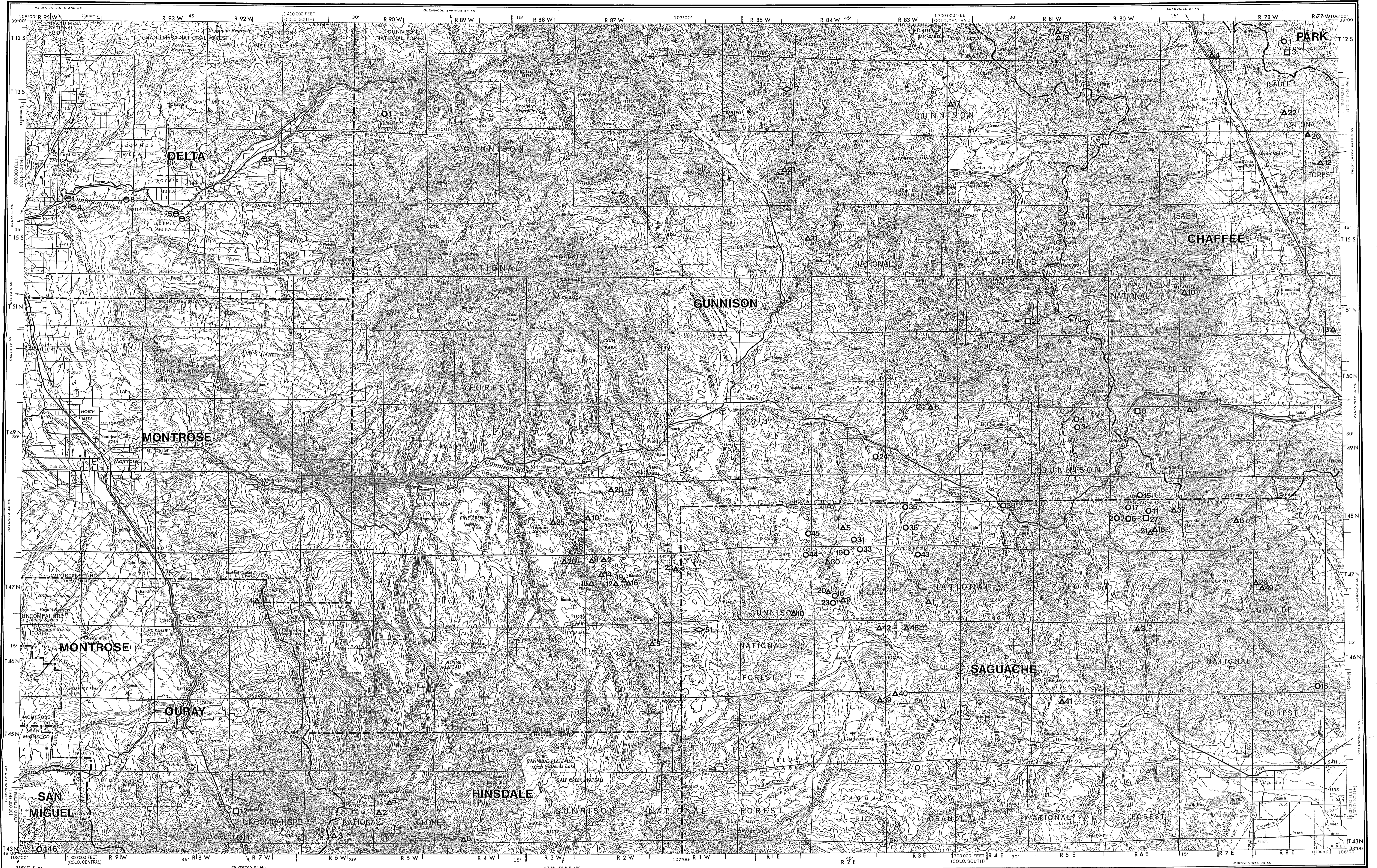


SECTIONIZED TOWNSHIP



PUEBLO, COLORADO

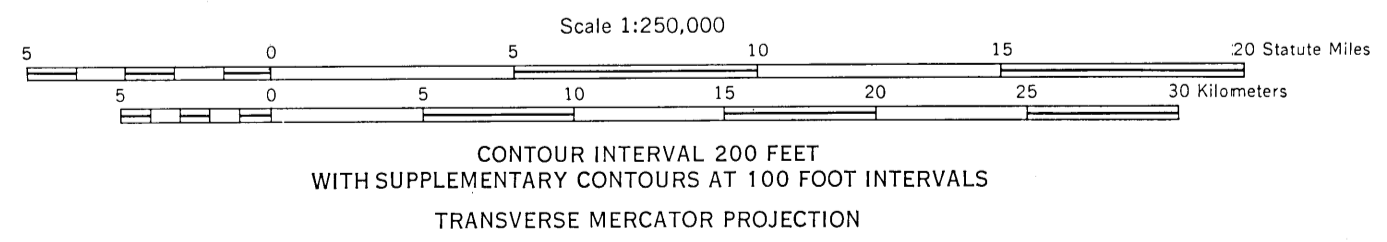
1954
LIMITED REVISION 1962



Base from U. S. Geological Survey

EXPLANATION

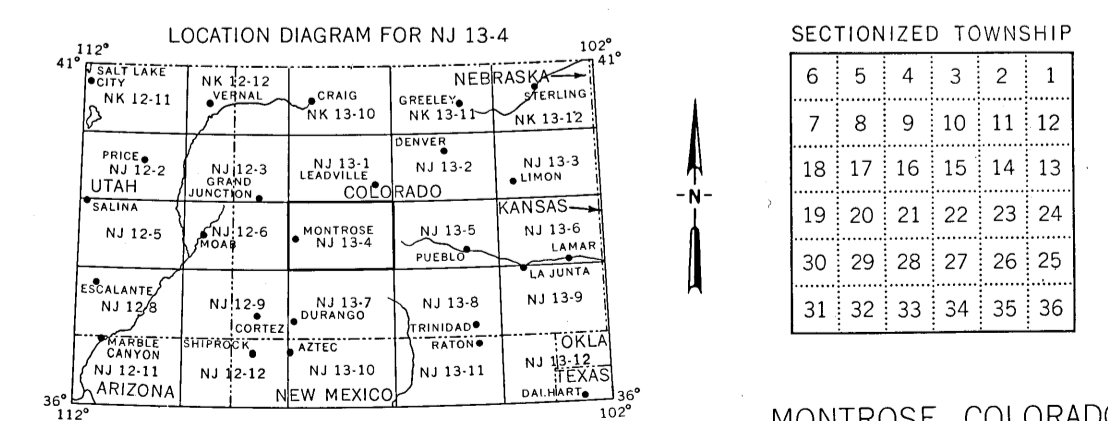
- HOST ROCKS FOR OCCURRENCES**
- SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE, LAKE SEDIMENTS
 - COAL, SHALE, LIMESTONE
 - ⊙ SPRING DEPOSITS, GROUND WATER
 - △ IGNEOUS, METAMORPHIC
 - ◇ UNDETERMINED
 - 11 OCCURRENCE NUMBER FROM TEXT
- STATE BOUNDARY
- - - COUNTY BOUNDARY



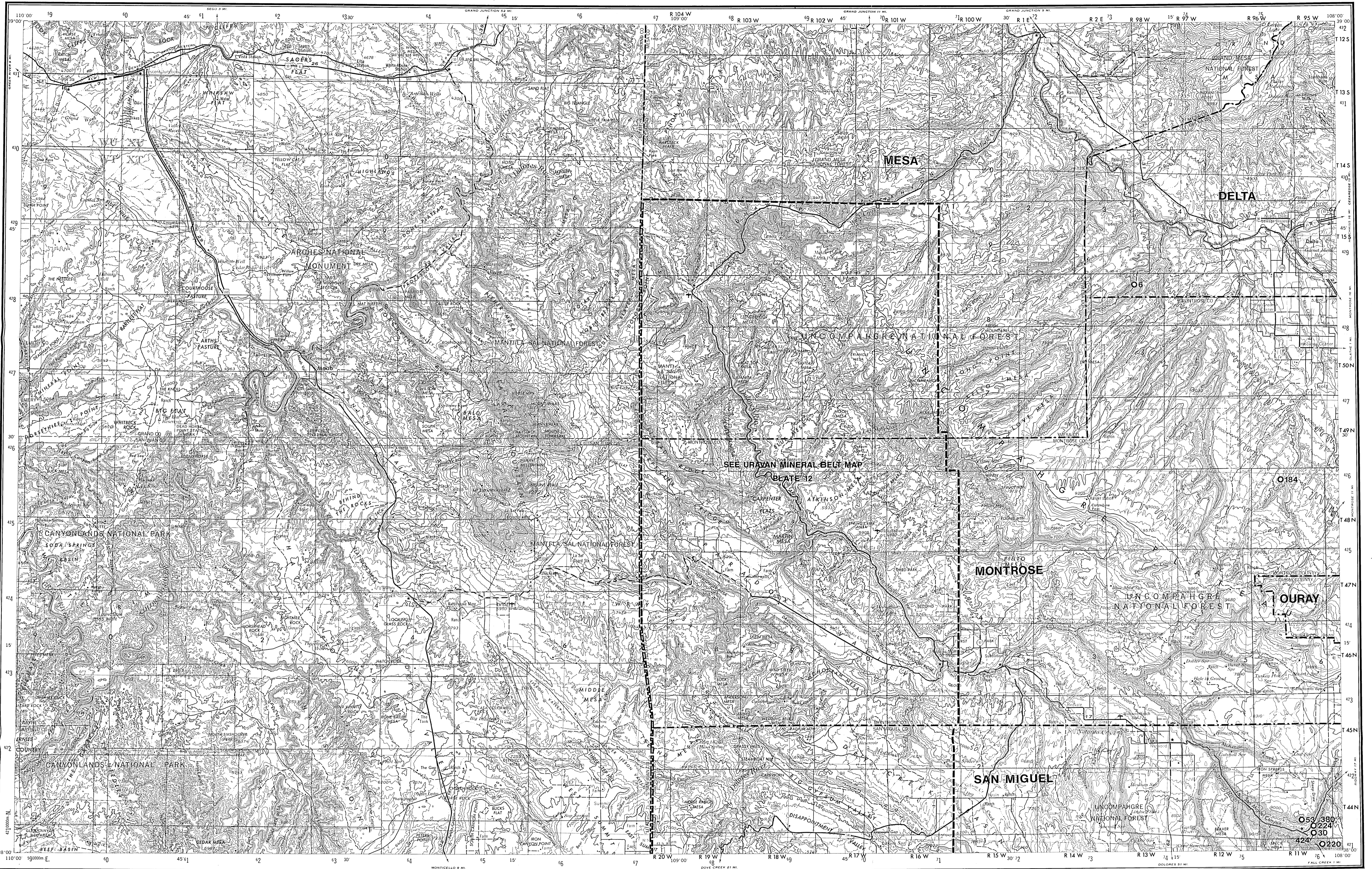
RADIOACTIVE MINERAL OCCURRENCES OF THE MONTROSE 1° x 2° QUADRANGLE, COLORADO

Compiled by James L. Nelson-Moore, Donna Bishop Collins, and A. L. Hornbaker

1978



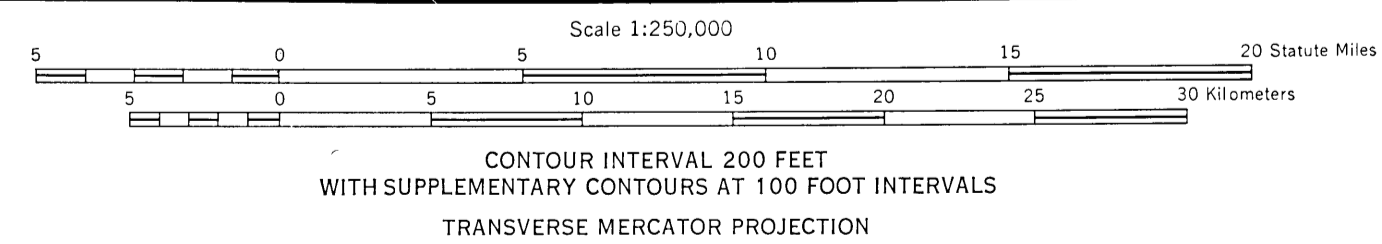
MONTROSE, COLORADO
1956
LIMITED REVISION 1962



Base from U. S. Geological Survey

EXPLANATION

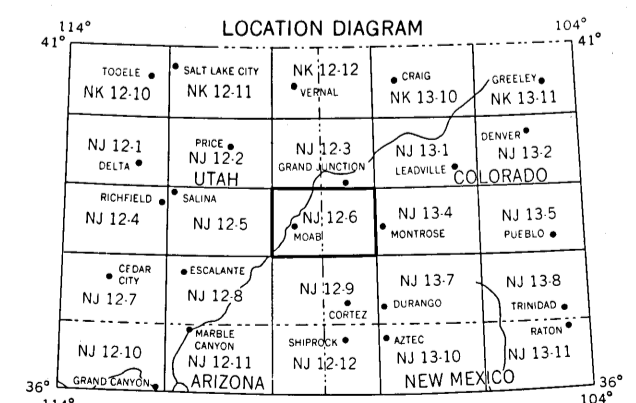
- HOST ROCKS FOR OCCURRENCES**
- SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE, LAKE SEDIMENTS
 - ◻ COAL, SHALE, LIMESTONE
 - ◻ SPRING DEPOSITS, GROUND WATER
 - ▲ IGNEOUS, METAMORPHIC
 - ◇ UNDETERMINED
 - 11 OCCURRENCE NUMBER FROM TEXT
- STATE BOUNDARY
- COUNTY BOUNDARY
- URAYAN MINERAL BELT BOUNDARY, PLATE 12



RADIOACTIVE MINERAL OCCURRENCES OF THE MOAB 1° x 2° QUADRANGLE, COLORADO

Compiled by James L. Nelson-Moore, Donna Bishop Collins, and A. L. Hornbaker

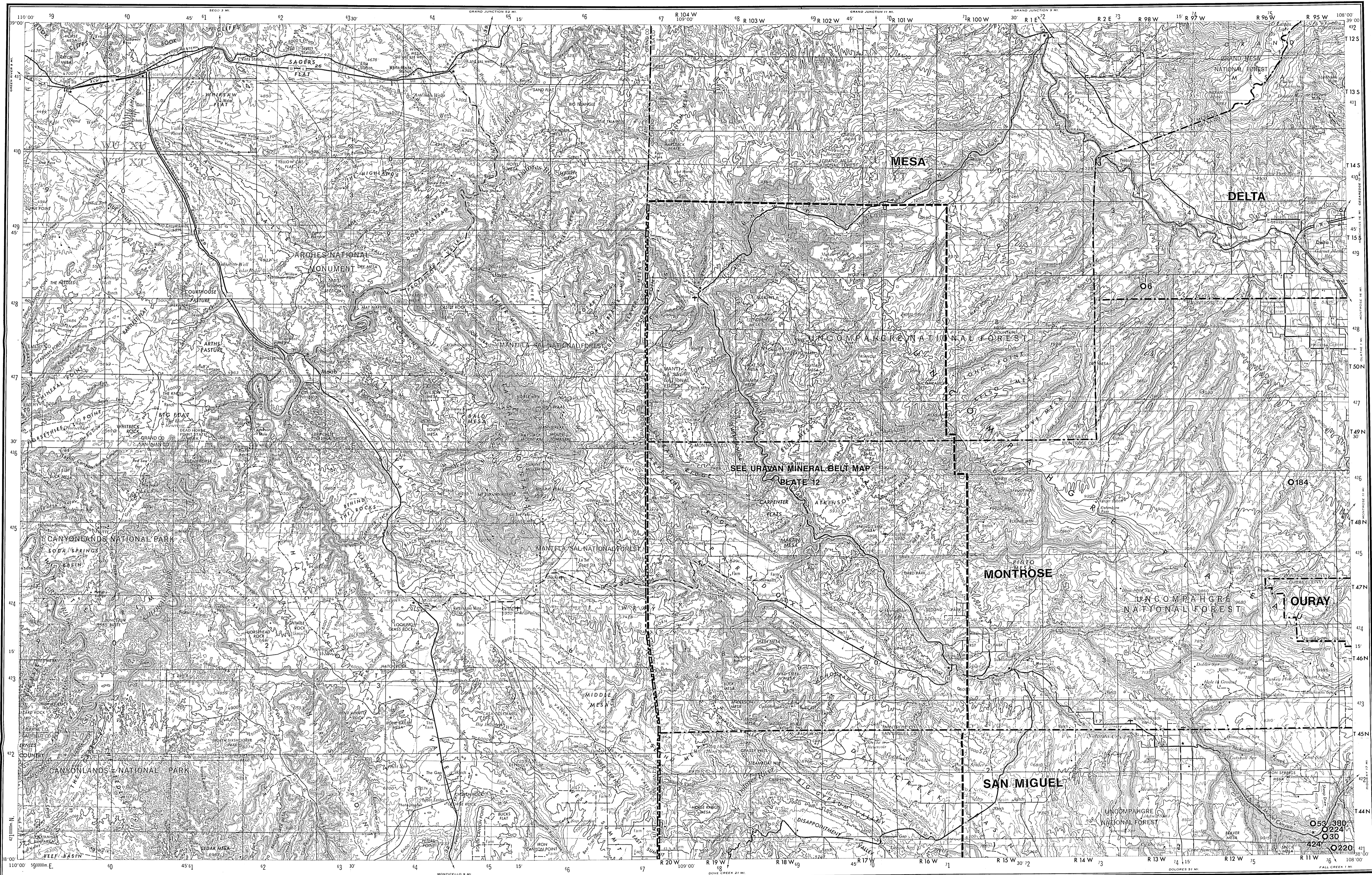
1978



SECTIONIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

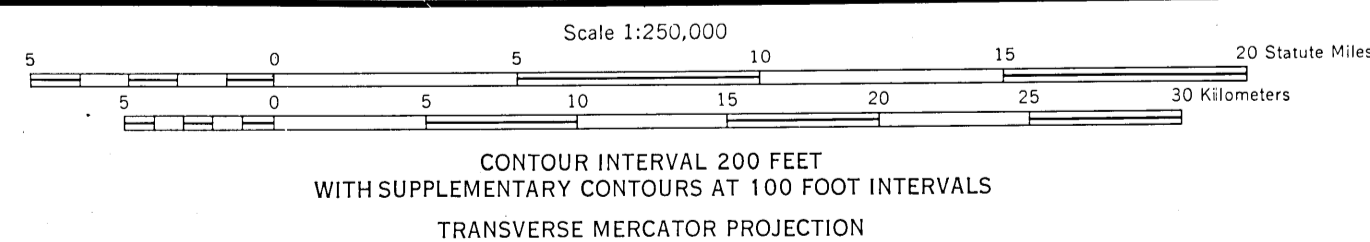
MOAB, UTAH; COLORADO
 1956
 REVISED 1969



Base from U. S. Geological Survey

EXPLANATION

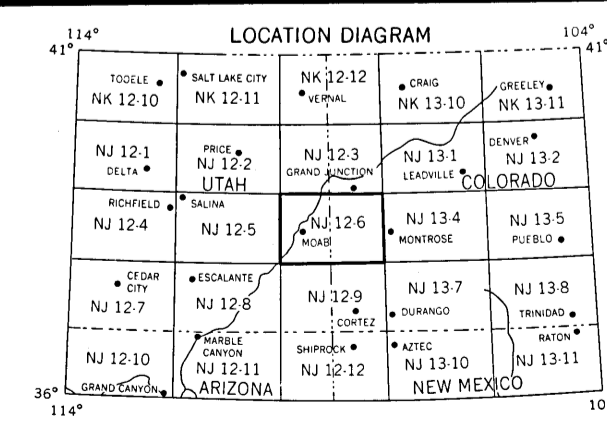
- HOST ROCKS FOR OCCURRENCES**
- SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE, LAKE SEDIMENTS
 - COAL, SHALE, LIMESTONE
 - ◇ SPRING DEPOSITS, GROUND WATER
 - ▲ IGNEOUS, METAMORPHIC
 - ◇ UNDETERMINED
 - 11 OCCURRENCE NUMBER FROM TEXT
- STATE BOUNDARY
--- COUNTY BOUNDARY
--- URAPAN MINERAL BELT BOUNDARY, PLATE 12



RADIOACTIVE MINERAL OCCURRENCES OF THE MOAB 1° x 2° QUADRANGLE, COLORADO

Compiled by James L. Nelson-Moore, Donna Bishop Collins, and A. L. Hornbaker

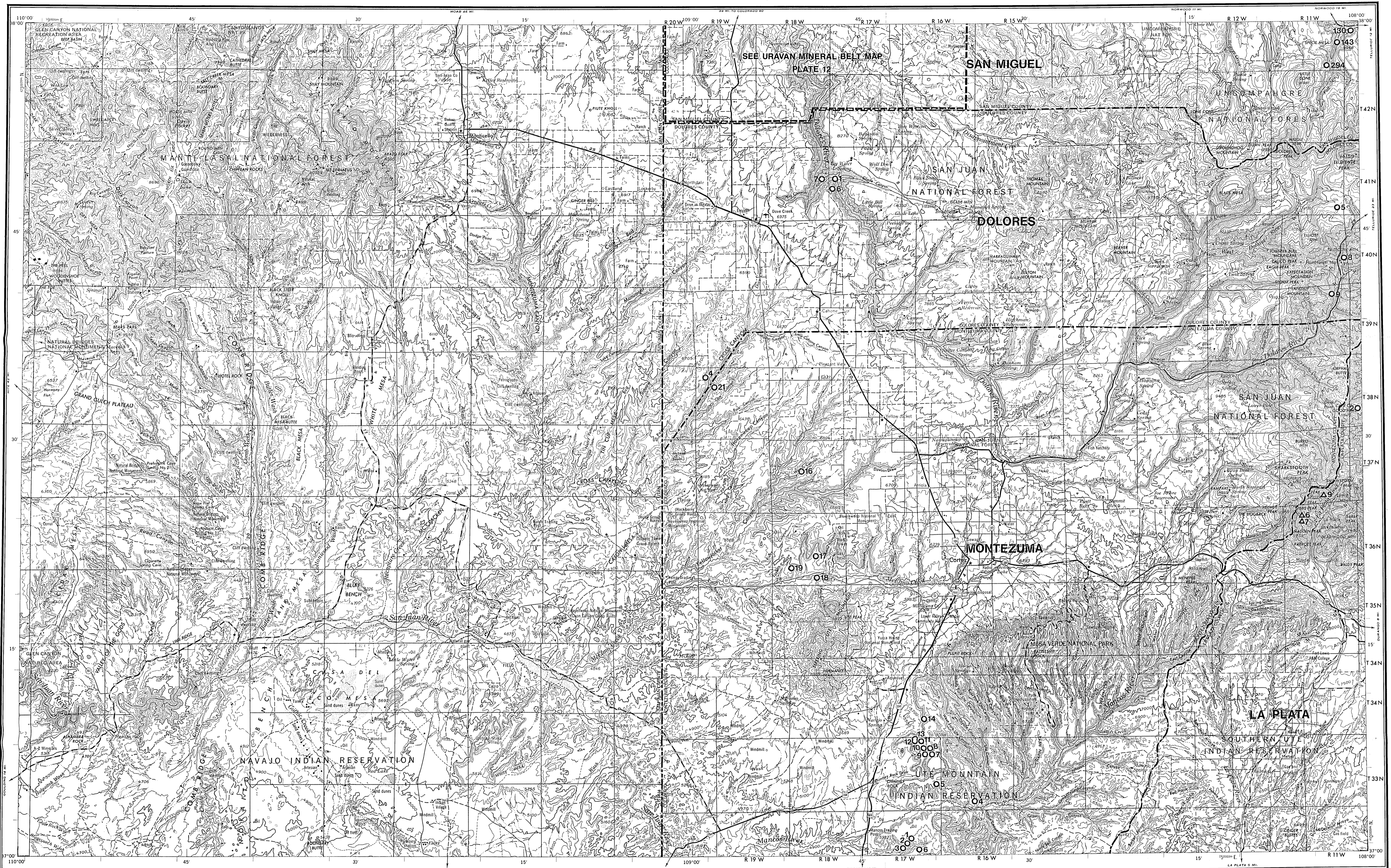
1978



SECTIONIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

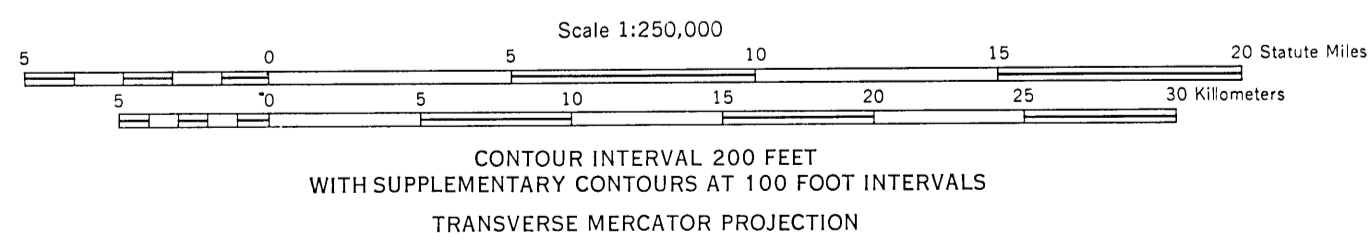
MOAB, UTAH, COLORADO
1956
REVISED 1969



Base from U. S. Geological Survey

EXPLANATION

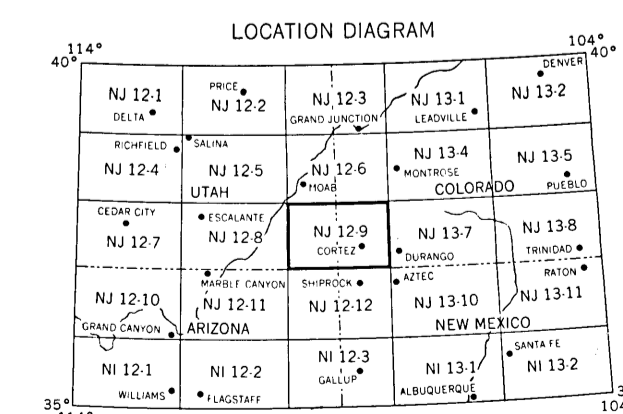
- | | |
|--|--|
| ○ HOST ROCKS FOR OCCURRENCES | — · — · — · STATE BOUNDARY |
| ○ SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE, LAKE SEDIMENTS | — — — — COUNTY BOUNDARY |
| □ COAL, SHALE, LIMESTONE | — · — · — · URAVAN MINERAL BELT BOUNDARY, PLATE 12 |
| ○ SPRING DEPOSITS, GROUND WATER | |
| ▲ IGNEOUS, METAMORPHIC | |
| ◇ UNDETERMINED | |
| ○11 OCCURRENCE NUMBER FROM TEXT | |



RADIOACTIVE MINERAL OCCURRENCES OF THE CORTEZ 1° x 2° QUADRANGLE, COLORADO

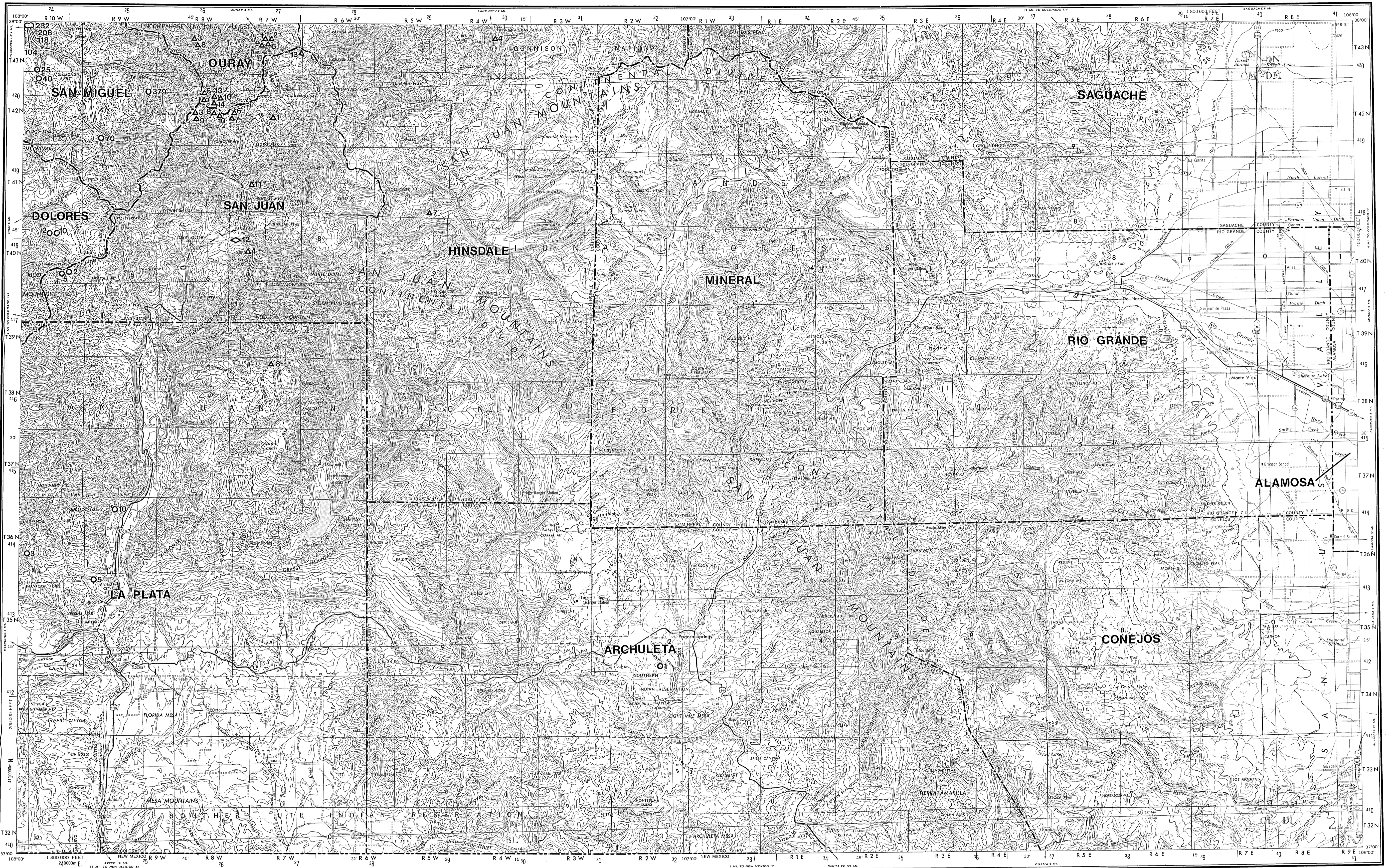
Compiled by James L. Nelson-Moore, Donna Bishop Collins, and A. L. Hornbaker

1978

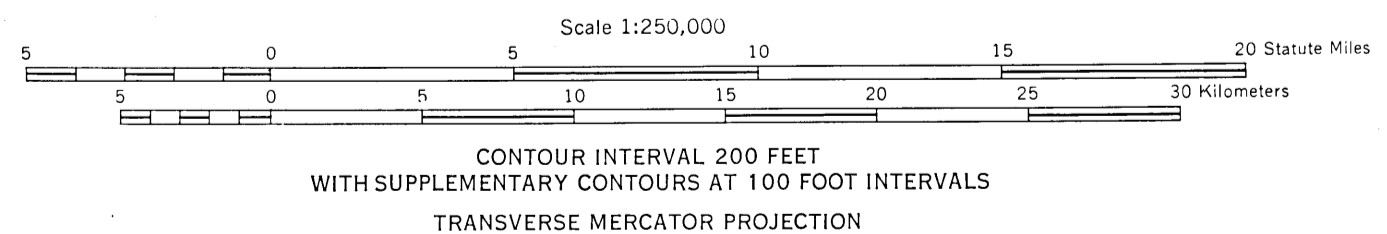


SECTIONIZED TOWNSHIP					
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

CORTEZ, COLORADO; UTAH
1956
REVISED 1969



- Base from U. S. Geological Survey
- EXPLANATION**
- HOST ROCKS FOR OCCURRENCES
 - SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE, LAKE SEDIMENTS
 - COAL, SHALE, LIMESTONE
 - △ SPRING DEPOSITS, GROUND WATER
 - ▲ IGNEOUS, METAMORPHIC
 - ◇ UNDETERMINED
 - 11 OCCURRENCE NUMBER FROM TEXT
 - STATE BOUNDARY
 - - - COUNTY BOUNDARY



RADIOACTIVE MINERAL OCCURRENCES OF THE DURANGO 1° x 2° QUADRANGLE, COLORADO
Compiled by James L. Nelson-Moore, Donna Bishop Collins, and A. L. Hornbaker
1978

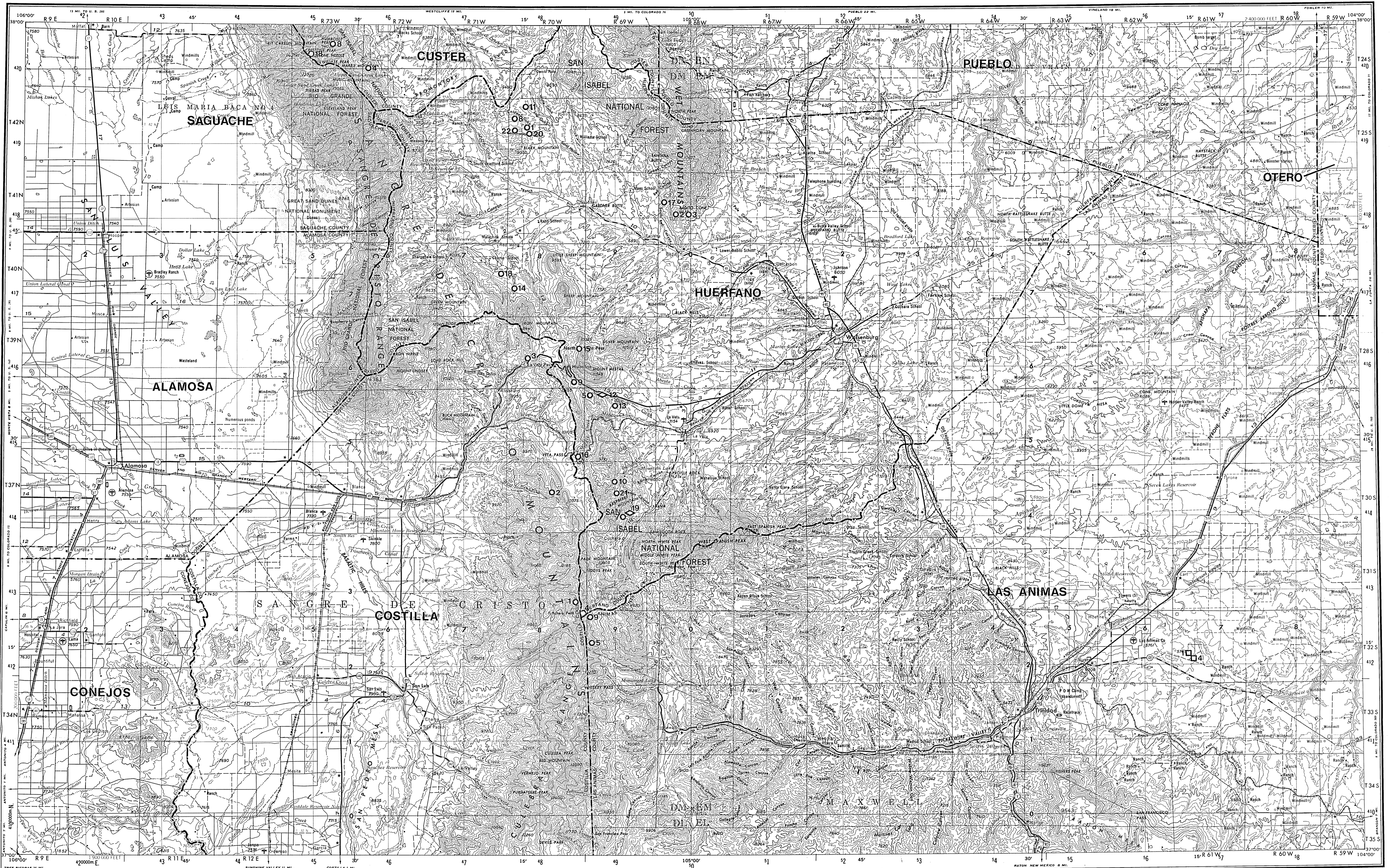
LOCATION DIAGRAM

PRICE NJ 12-2	GRAND NJ 12-3	DEWEE NJ 13-1	LEONORA NJ 13-2	OKLA NJ 13-3
SALINA NJ 12-5	UTAH NJ 12-6	COLORADO NJ 13-4	LANO NJ 13-5	LANO NJ 13-6
ESCALANTE NJ 12-8	OSAGE NJ 12-9	PERMIA NJ 13-7	PERMIA NJ 13-8	LA JUNTA NJ 13-9
MABLE CANYON NJ 12-11	ARIZONA NJ 12-12	NEW MEXICO NJ 13-10	NEW MEXICO NJ 13-11	NEW MEXICO NJ 13-12
FRANKLIN NJ 12-2	FRANKLIN NJ 12-3	SANTA FE NJ 13-2	SANTA FE NJ 13-3	TEXAS NJ 13-4

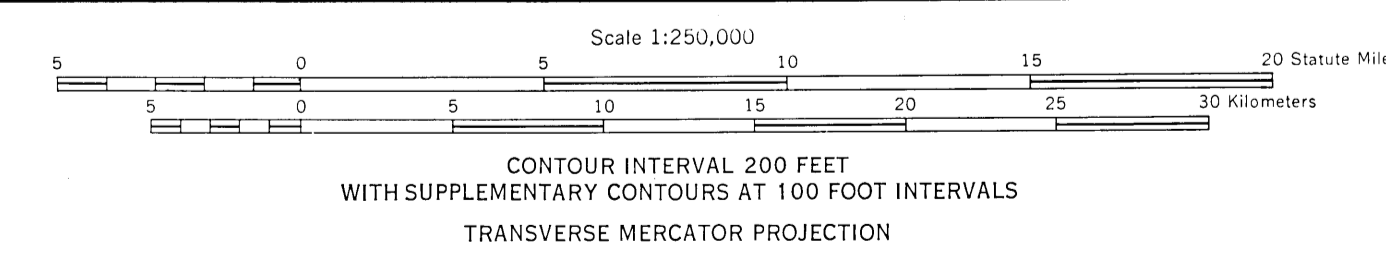
SECTIONIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

DURANGO, COLORADO
1945



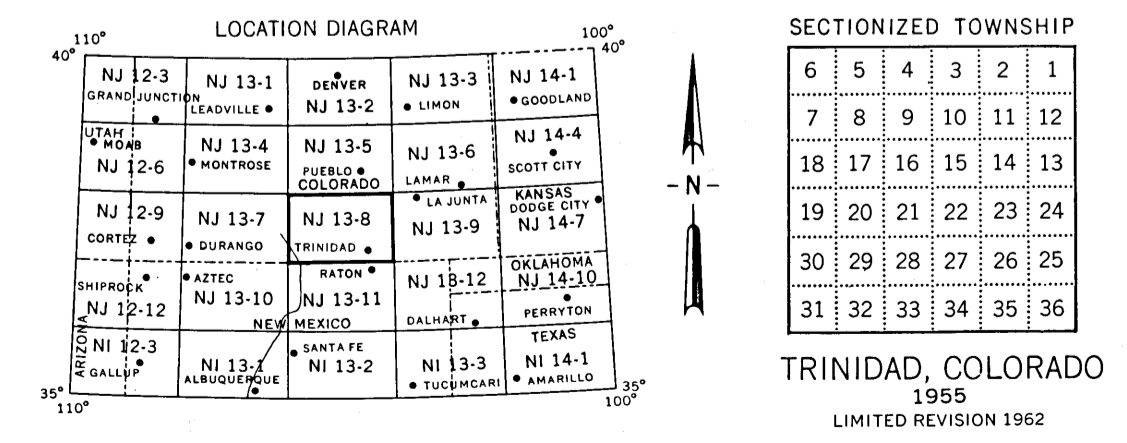
- Base from U. S. Geological Survey
- EXPLANATION**
- HOST ROCKS FOR OCCURRENCES
 - SANDSTONE, ARKOSE, CONGLOMERATE, SILTSTONE, LAKE SEDIMENTS
 - COAL, SHALE, LIMESTONE
 - △ SPRING DEPOSITS, GROUND WATER
 - ▲ IGNEOUS, METAMORPHIC
 - ◇ UNDETERMINED
 - 11 OCCURRENCE NUMBER FROM TEXT
 - STATE BOUNDARY
 - - - COUNTY BOUNDARY

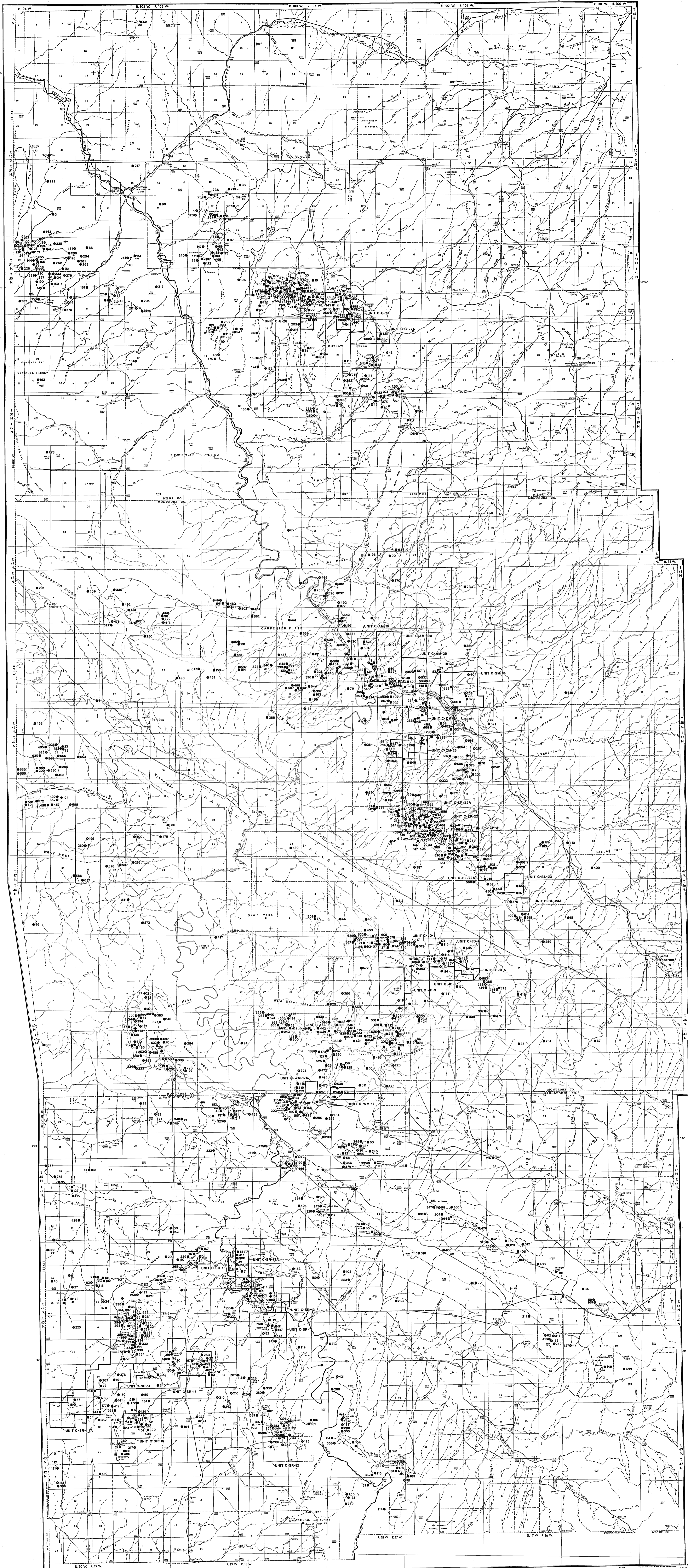


RADIOACTIVE MINERAL OCCURRENCES OF THE TRINIDAD 1° x 2° QUADRANGLE, COLORADO

Compiled by James L. Nelson-Moore, Donna Bishop Collins, and A. L. Hornbaker

1978





Base from U.S.G.S., ed. 1977

SCALE 1:100,000

URANIUM OCCURRENCES OF THE URAVAN MINERAL BELT

Compiled by
 James L. Nelson-Moore
 Donna Bishop Collins
 A. L. Hornbaker
 1978

Drawn by
 Kim M. Kocott
 Mark V. Parolletti

- EXPLANATION**
- STATE BOUNDARY. ———
 - COUNTY BOUNDARY. - - - - -
 - Primary Highway. ———
 - Secondary Highway. - - - - -
 - Light-duty Improved Road. ———
 - Unimproved Road. - - - - -
 - D.O.E. Lease Tract Boundary. ———
 - D.O.E. Lease Tract Number. ———
 - Parental Stream, Lake. ———
 - Intermittent Stream. - - - - -
 - Wash Rock for Occurrence. ●
 - Sandstone, Carbonate. ●
 - Siliceous, Arkose, Lamin. ●
 - Sediments. ●
 - Occurrence Number from Text. ●
 - Note: Occurrence Locations are Plotted at Center of Section if no 1/4 Section Location is Given.
 - UNIT C-AAA-00

