

**BULLETIN 41**

**BIBLIOGRAPHY and INDEX OF  
PUBLICATIONS RELATED TO  
COAL in COLORADO**

**1972 - 1977**

by  
**Hollis B. Fender  
D. C. Jones  
D. K. Murray**



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COLORADO GEOLOGICAL SURVEY  
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and State Geologist

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MISSION OF THE COLORADO GEOLOGICAL SURVEY

The Colorado Geological Survey was legislatively re-established in February, 1969 to meet the geologic needs of the citizens, governmental agencies, and mineral industries of Colorado. This modern legislation is aimed at applying geologic knowledge toward the solution of today's and tomorrow's problems of an expanding population, mounting environmental concern, and the growing demand for mineral resources.

SPECIFIC LEGISLATIVE CHARGES ARE:

"Assist, consult with and advise state and local governmental agencies on geologic problems."

"Promote economic development of mineral resources."

"Evaluate the physical features of Colorado with reference to present and potential human and animal use."

"Conduct studies to develop geological information."

"Inventory the State's mineral resources."

"Collect, preserve and distribute geologic information."

"Determine areas of geologic hazard that could affect the safety of or economic loss to the citizens of Colorado."

"Prepare, publish and distribute geologic reports, maps and bulletins."

"Evaluate the geologic factors affecting all new subdivisions in unincorporated areas of the State."

"Promulgate model geologic hazard area control regulation."

"Provide technical assistance to local governments concerning designation of and guidelines for matters of State interest in geologic hazard areas and the identification of mineral resource areas."

"To provide other governmental agencies with technical assistance regarding geothermal resources."

BULLETIN 41  
BIBLIOGRAPHY AND INDEX OF  
PUBLICATIONS RELATED  
TO COAL IN COLORADO, 1972-1977

(complement to Colorado Geological Survey Bulletin  
34-A, 1972; includes pre-1972 publications not  
listed in Bulletin 34-A)

By

Hollis B. Fender, David C. Jones, and D. Keith Murray

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COLORADO GEOLOGICAL SURVEY  
DEPARTMENT OF NATURAL RESOURCES  
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DENVER, COLORADO

1978

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## PREFACE

This bibliography and index includes approximately 500 references to published and generally publicly available information (such as environmental statements, open-file materials, etc.) pertaining to coal deposits and coal-related activities in Colorado issued between January 1, 1972 and December 31, 1977. This new bibliography is designed to supplement Colorado Geological Survey Bulletin 34-A, "Bibliography, coal resources in Colorado", by Richard D. Holt, published in 1972. However, the present Bulletin also includes a number of pre-1972 references that are not listed in Bulletin 34-A. These additional listings, some of which date back to the late 1800's, were located after a thorough search of Colorado Geological Survey Bulletin 37, "Bibliography and Index of Colorado geology, 1875-1975", a comprehensive 488-page volume compiled by the American Geological Institute utilizing its computer-based data collection system, GeoRef, and published in 1976.

The contents of the present Bulletin have been stored on flexible discs in the Colorado Geological Survey's in-house word-processing system. The data stored in this new system are readily accessible, easily updated, and can be rapidly printed out in camera-ready format. On a regular basis, we intend to enter into our word-processing system all new references of which we have knowledge that pertain to Colorado coal. Periodically (perhaps once a year), we then will be able to generate an up-to-date, fully collated bibliography and index of coal-related publications, which will include both the new references and all of those listed in Bulletin 41.

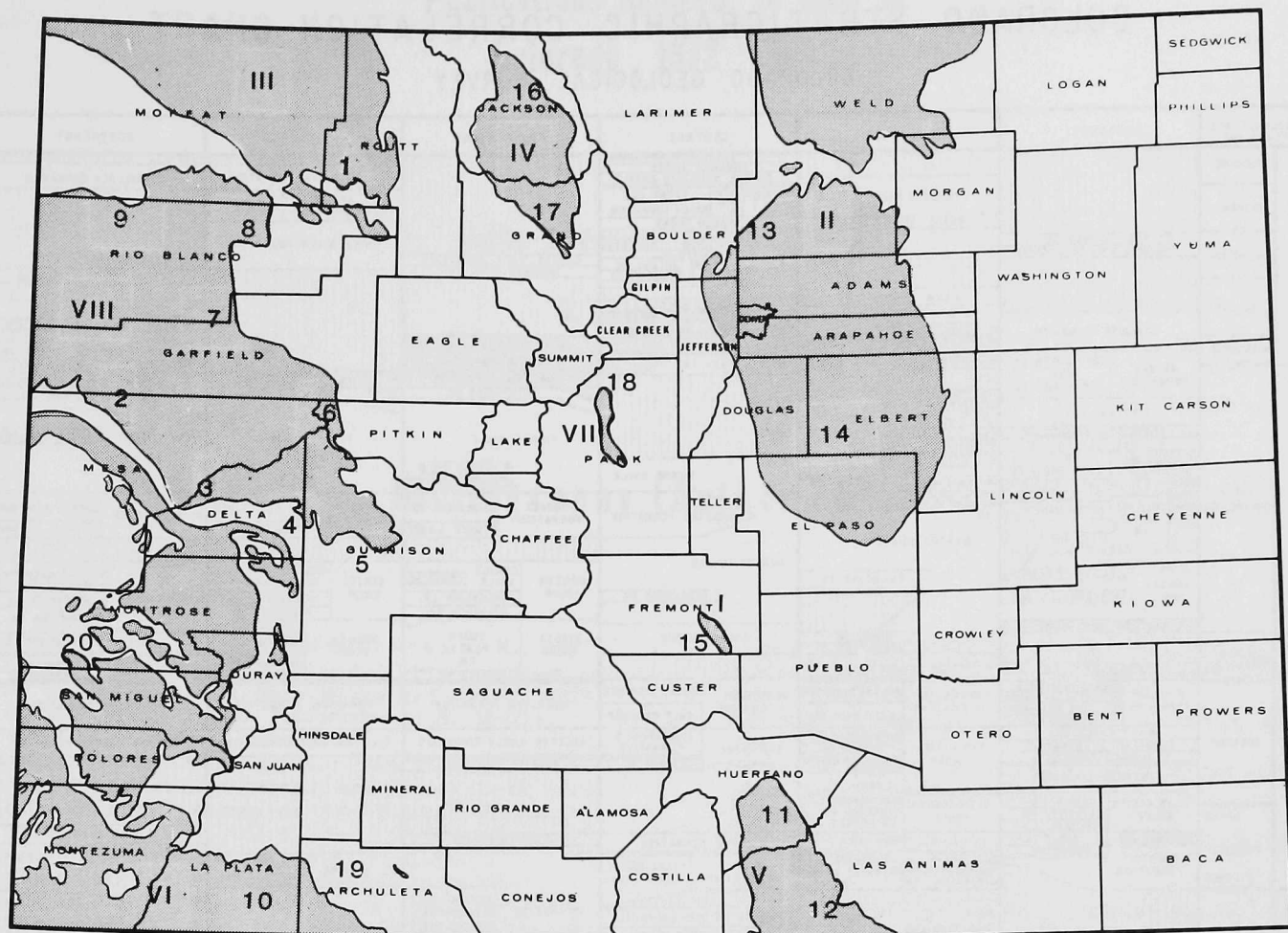
Bulletin 41 is arranged in two sections. The first is a BIBLIOGRAPHY (author index), listed alphabetically by name of the author (or authors) and generally following the format used by the U.S. Geological Survey (for example, see U.S.G.S. Circular 709, "Bibliography and index of U.S. Geological Survey publications relating to coal, January 1971 - June 1974", by Flora K. Walker, 1975). The second section consists of a KEY WORD INDEX and a Key Word Listing. The Key Word Listing alphabetically lists selected key words. Under each "first order" or primary key word are listed, alphabetically by author, the short citation for each pertinent reference, followed by all of the key words (separated by a slash) assigned to that reference. The Key Word Listing is designed to be used with the Bibliography (author index) in which the complete bibliographic citations are found.

The users of this publication are urged to notify our office of any errors, omissions, or inconsistencies in order that updated versions might be as accurate as possible.

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### COAL REGIONS AND FIELDS IN COLORADO

#### COAL REGIONS

- I Canon City (field)
- II Denver Basin
- III Green River
- IV North Park
- V Raton Mesa
- VI San Juan River
- VII South Park (field)
- VIII Uinta

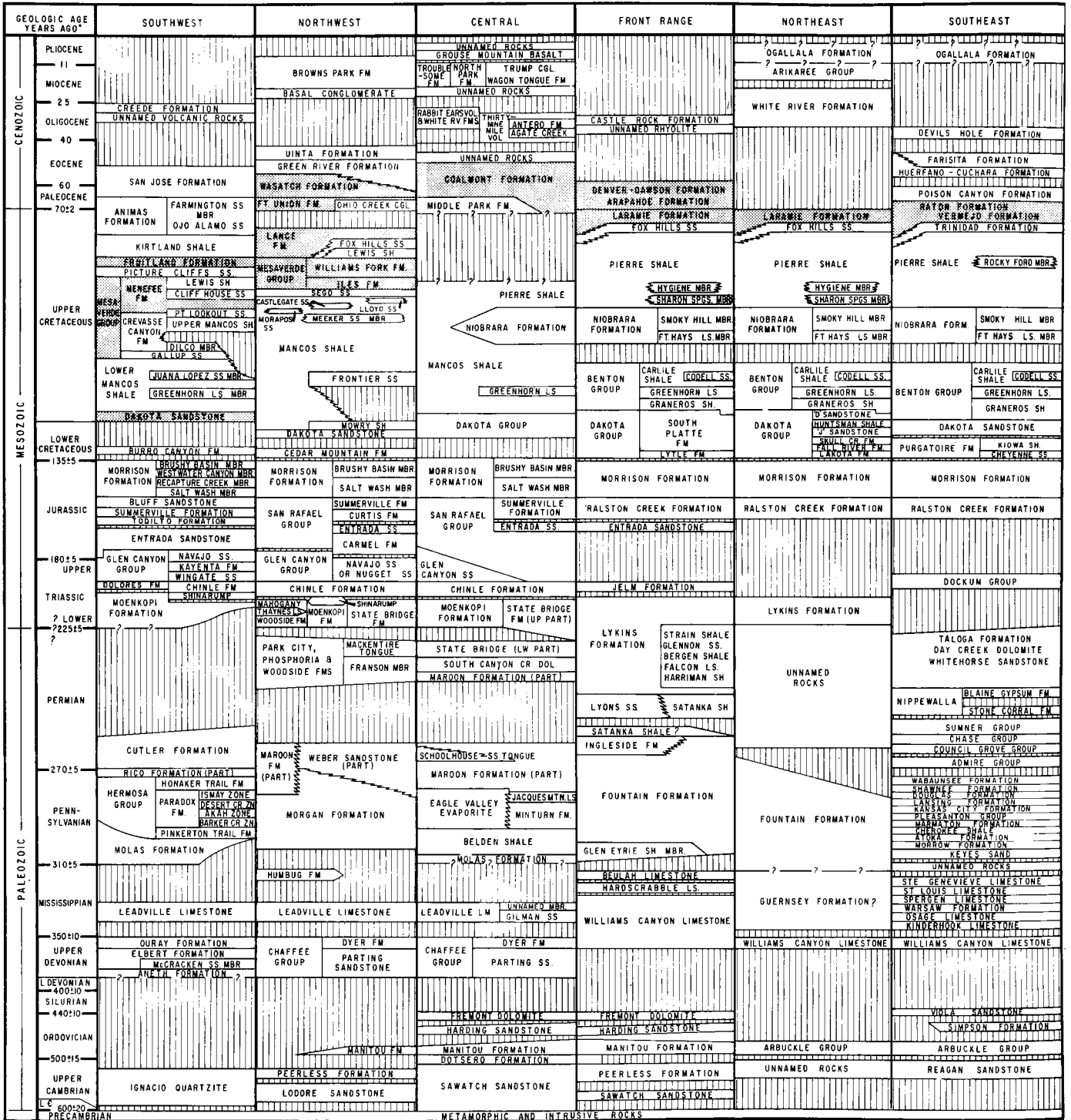
#### COAL FIELDS

- 1. Yampa
- 2. Book Cliffs
- 3. Grand Mesa
- 4. Somerset
- 5. Crested Butte
- 6. Carbondale
- 7. Grand Hogback
- 8. Danforth Hills
- 9. Lower White River
- 10. Durango
- 11. Walsenburg
- 12. Trinidad
- 13. Boulder-Weld
- 14. Colorado Springs
- 15. Canon City
- 16. North Park
- 17. Middle Park
- 18. South Park
- 19. Pagosa Springs
- 20. Nucla-Naturita

Index map, coal-bearing regions and fields in Colorado

# COLORADO STRATIGRAPHIC CORRELATION CHART

## COLORADO GEOLOGICAL SURVEY



Compiled by Richard Howard Peart and D. Keith Murray (August 1974).  
 \*Millions of years before present (Source: Geochron Laboratories, Inc.)

Source of data: Geologic Atlas of the Rocky Mountain Region (RMAG, 1972)  
 and other publications. Reviewed by selected members of the RMAG.

**■ COAL-BEARING ROCK**



# Bibliography and Index of Publications Related to Coal in Colorado, 1972 - 1977

By

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## Adams County

Cotton, R. B.; and Anderson, L. W., 1977  
Adams County/ Denver region/ map-geologic/ Boulder County/ Weld County/  
Denver Regional Council of Governments, 1977  
resources/ bibliography/ Denver region/ Boulder-Weld field/ reserves/ Adams County/ Arapahoe County/ Boulder County/ Jefferson County/  
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bibliography/ processing/ gasification/ conversion/  
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statistics/ reserves/ analyses/ soils/ land  
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Lepper, C. M.; and Ruskey, Frank, 1977  
Denver region/ Boulder-Weld field/ geophysics/  
seismic/ faults/  
Madden, D. H., 1977  
North Park region/ Jackson County/ Coalmont  
field/ geophysics/ well logs/ lithology/

## Key Word Listing

### Geophysics, well logs (cont.)

- Madden, D. H., 1977  
North Park region/ Jackson County/ McCallum field/ geophysics/ well logs/ lithology/
- Meyer, R. F., 1977  
Green River region/ Moffat County/ Yampa field/ geophysics/ well logs/
- Osterwald, F. W.; and others, 1973  
Denver region/ Jefferson County/ geophysics/
- Prost, Gary, 1977  
Green River region/ Moffat County/ Routt County/ Yampa field/ geophysics/ well logs/
- Raju, N. M., 1961  
geophysics/ Garfield County/ Uinta region/
- Reheis, M. J., 1976  
Uinta region/ Danforth Hills field/ Moffat County/ Rio Blanco County/ resources/ stratigraphy/ geophysics/ well logs/
- Reheis, M. J.; and Peterson, J. E., 1977  
Green River region/ Moffat County/ Rio Blanco County/ Danforth Hills field/ geophysics/ well logs/
- Sanchez, J. D., 1976  
Denver region/ Adams County/ lignite/ stratigraphy/ geophysics/ well logs/
- Soister, P. E., 1974  
Denver region/ lignite/ resources/ map-geologic/ geophysics/ well logs/ lithology/ analyses/ utilization/
- Grand County
- Mallet, E. J., 1875  
North Park region/ Middle Park field/ Grand County/
- Green River region
- Anonymous, 1902  
Routt County/ Green River region/ Yampa field/
- Anonymous, 1904  
Green River region/ Routt County/ Moffat County/
- Beattie, D. A., 1958  
geology/ Moffat County/ Green River region/
- Brownfield, M. E., 1976  
Green River region/ Moffat County/ Routt County/ Yampa field/ geophysics/ well logs/
- Burger, J. A., 1959  
Cretaceous/ Mesaverde Group/ Green River region/
- Campbell, M. R., 1906  
properties/ utilization/ Yampa field/ Green River region/ Routt County/ Moffat County/
- Dyni, J. R., 1968  
geology/ distribution/ Green River region/ Yampa field/ Moffat County/
- Eby, J. B., 1924  
Green River region/ Yampa field/ Routt County/
- Energy Fuels Corporation, 1977  
Green River region/ Yampa field/ Routt County/ mining-surface/ reclamation/
- Fenneman, N. M., 1906  
Green River region/ Yampa field/ Routt County/
- Hail, W. J., Jr., 1973  
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- Hail, W. J., Jr., 1974  
geology/ Green River region/ Rio Blanco County/ Moffat County/
- Hale, L. A., 1959  
Cretaceous/ stratigraphy/ Green River region/
- Haun, J. D., 1961  
stratigraphy/ Cretaceous/ Tertiary/ Green River region/ Routt County/ Moffat County/ Yampa field/
- Headden, W. P., 1907  
Green River region/ Uinta region/ Denver region/ Routt County/ Delta County/ Boulder County/ properties/
- Headden, W. P., 1907  
Green River region/ Routt County/ properties/
- Hewett, G. C., 1889  
Green River region/
- Kaplan, H. M., 1976  
Green River region/ Yampa field/ Routt County/ mining-surface/ reclamation/
- Konishi, Kenji, 1959  
Green River region/ Yampa field/ Routt County/ Moffat County/ Cretaceous/ stratigraphy/
- Kucera, R. E., 1959  
Cretaceous/ stratigraphy/ Green River region/ Yampa field/ Routt County/ Moffat County/
- Lakes, Arthur, 1903  
Green River region/
- Lakes, Arthur, 1904  
Green River region/ Routt County/ Yampa field/ anthracite/ lignite/
- Lakes, Arthur, 1905  
Green River region/ resources/
- Lakes, Arthur, 1905  
Green River region/ Routt County/ anthracite/
- Lakes, Arthur, 1905  
Green River region/ Routt County/ Yampa field/
- Lakes, Arthur, 1907  
Green River region/ Yampa field/ Routt County/
- Mason, R. H., 1975  
Green River region/ Yampa field/ Routt County/ mining-surface/ reclamation/
- Masters, C. D., 1959  
Cretaceous/ geology/ stratigraphy/ Green River region/ Uinta region/
- Masters, C. D., 1961  
Tertiary/ Green River region/
- McFarlane, G. C., 1929  
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- Meyer, R. F., 1977  
Green River region/ Moffat County/ Yampa field/ geophysics/ well logs/
- Miller, A. E., 1975  
map-geologic/ map-energy resources/ Green River region/ Routt County/ Yampa field/
- Mitchell, R. S.; and Gluskoter, H. J., 1976  
mineralogy/ trace elements/ ash/ Green River region/ Routt County/ Cretaceous/
- Newman, K. R., 1976  
Green River region/ energy/ Cretaceous/ stratigraphy/ geology/
- Newman, K. R.; and Murray, D. K., 1976  
Green River region/ energy/ road log/ Routt County/ Moffat County/ Rio Blanco County/ Garfield County/ Cretaceous/ stratigraphy/ geology/
- Parsons, E. J.; and Liddell, C. A., 1903  
Green River region/ Routt County/ Yampa field/
- Persse, F. H.; Lockard, D. W.; and Lindquist, A. E., 1977  
Green River region/ Yampa field/ Routt County/ mining-surface/ reclamation/ costs
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Green River region/ Moffat County/ Routt County/

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logs/  
Ryer, T. A., 1977  
Green River region/ Yampa field/ Routt County/  
reclamation/ geology/ stratigraphy/ resources/  
Shelton, E., 1924  
Green River region/ Yampa field/  
Stander, L. H., Jr., 1977  
air quality/ Denver region/ Green River region/  
North Park region/ environment/ resources/ reserves/  
analyses/ production/ development/  
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Green River region/ Yampa field/ Moffat County/  
electrical power generation/ environment/  
Steele, T. D.; Bauer, D. P.; Wentz, D. A.; and  
Warner, J. W., 1976  
Green River region/ Yampa field/ water resources/  
environment/ Routt County/ Moffat County/  
Steele, T. D.; James, I. C., Jr.; Bauer, D. P.;  
and others, 1976  
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environment/ Routt County/ Moffat County/  
Tweto, Ogden, (compiler), 1976  
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water/ Green River region/ Yampa field/ stratigraphy/  
Cretaceous/  
Weber, J. R., 1971  
Green River region/ Moffat County/ structure/  
stratigraphy/ geology/  
Weston, W., 1904  
Green River region/ Yampa field/  
Weston, W., 1904  
Green River region/ Yampa field/ Routt County/  
Weston, W., 1911  
Green River region/ Yampa field/  
Whiteside, F. W., 1917  
Green River region/ Yampa field/  
Rio Blanco County/ Piceance Creek basin/ Uinta  
region/ Carbondale field/ Grand Hogback field/  
Danforth Hills field/ resources/ geology/ stratigraphy/  
coke and coking coal/ methane/  
Dapples, E. C., 1939  
Uinta region/ Gunnison County/ Crested Butte  
field/ anthracite/ coke and coking coal/ metamorphism/  
De Golyer, E. L., 1911  
Uinta region/ Crested Butte field/ Gunnison  
County/ coke and coking coal/ anthracite/ metamorphism  
Dunrud, C. R., 1976  
mining-underground/ subsidence/ Uinta region/  
Somerset field/ Gunnison County/ geology/ resources/  
Eakins, L. G., 1890  
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Grosvenor, N. E.; and Scott, R. L., 1976  
coke and coking coal/ Uinta region/ Raton Mesa  
region/ Gunnison County/ Pitkin County/ Las  
Animas County/ production/ quality/  
Hallowell, J. K., 1883  
Tertiary/ Uinta region/ Gunnison County/  
Hanks, T. L., 1962  
geology/ resources/ Uinta region/ Somerset field/  
Piceance Creek basin/ coke and coking coal/  
Gunnison County/ Pitkin County/ stratigraphy/  
Hills, R. C., 1886  
Cretaceous/ Uinta region/ Gunnison County/ water/  
Johnson, V. H., 1952  
Uinta region/ Somerset field/ Delta County/  
Gunnison County/ coke and coking coal/ metamorphism/  
Johnson, V. H., 1952  
Uinta region/ Somerset field/ Delta County/  
Gunnison County/ coke and coking coal/ metamorphism/  
Lakes, Arthur, 1886  
Uinta region/ Gunnison County/ Crested Butte  
field/  
Lee, W. T., 1913  
Uinta region/ Delta County/ Gunnison County/  
Grand Mesa field/ Somerset field/  
Murray, D. K; Fender, H. B.; and Jones, D. C., 1977  
methane/ coke and coking coal/ Uinta region/  
Grand Hogback field/ Carbondale field/ Crested  
Butte field/ Somerset field/ Grand Mesa field/  
Book Cliffs field/ Garfield County/ Pitkin County/  
Gunnison County/ Delta County/ Mesa County/  
stratigraphy/ geology/ statistics/ analyses/  
Osterwald, F. W.; Dunrud, C. R.; Bennetti, J. B.,  
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Sprigg, N. C., 1926  
Uinta region/ Gunnison County/ anthracite/  
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environment/ development/ Uinta region/ Gunnison  
County/ Delta County resources/ mining-underground/  
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environment/ Uinta region/ Gunnison County/  
Delta County/ resources/ mining-underground/

Gunnison County

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Uinta region/ Somerset field/ Gunnison County/  
mining-underground/  
Collins, B. A., 1975  
Piceance Creek basin/ Uinta Region/ Carbondale  
field/ Grand Hogback field/ Danforth Hills field/  
Gunnison County/ Pitkin County/ Garfield County/  
Rio Blanco County/ geology/ stratigraphy/ depositional  
environments/ analyses/ coke and coking coal/  
methane/  
Collins, B. A., 1976  
resources/ Pitkin County/ Gunnison County/ Garfield  
County/ Rio Blanco County/ Piceance Creek basin/  
Uinta region/ Carbondale field/ Grand Hogback  
field/ Danforth Hills field/ resources/ geology/  
stratigraphy/ coke and coking coal/ methane/  
Collins, B. A., 1977  
Pitkin County/ Gunnison County/ Garfield County/  
Huerfano County  
Amuedo, C. L.; and Bryson, R. S., 1977  
Raton Mesa region/ Huerfano County/ Las Animas  
County/ resources/  
Ash, S. R.; and Tidwell, W. D., 1976

## Key Word Listing

### Huerfano County (cont.)

Raton Mesa region/ Las Animas County/ Huerfano County/ paleobotany/ Cretaceous/ Paleocene/ paleoecology/  
 Billingsley, L. T., 1977  
 stratigraphy/ Raton Mesa region/ Huerfano County/ Walsenburg field/ Cretaceous/ depositional environments/  
 Billingsley, L. T., 1977  
 Raton Mesa region/ Huerfano County/ Walsenburg field/ Cretaceous/ stratigraphy/ depositional environments/  
 Fassett, J. E., 1976  
 San Juan River region/ La Plata County/ Archuleta County/ Raton Mesa region/ Las Animas County/ Huerfano County/ Cretaceous/ lithology/ depositional environments/  
 Guiterman, K. S., 1909  
 Raton Mesa region/ Huerfano County/ Las Animas County/ coke and coking coal/ mining-general/  
 Hills, R. C., 1888  
 Raton Mesa region/ Huerfano County/ Las Animas County/ metamorphism/  
 Hills, R. C., 1904  
 Raton Mesa region/ Walsenburg field/ Huerfano County/  
 Holmes, T. J., Jr., 1926  
 Raton Mesa region/ Huerfano County/ analyses/  
 Jurie, C. A.; and Gerhard, L. C., 1969  
 Las Animas County/ Huerfano County/ Raton Mesa region/ Trinidad field/ Walsenburg field/ production/ stratigraphy/ quality/ utilization/  
 Jurie, Jay, 1976  
 bibliography/ Raton Mesa region/ Huerfano County/ Las Animas County/ Trinidad field/ Walsenburg field/  
 Lakes, Arthur, 1902  
 Raton Mesa region/ Huerfano County/ Las Animas County/ metamorphism/ coke and coking coal/  
 Lakes, Arthur, 1903  
 Raton Mesa region/ Huerfano County/  
 Lakes, Arthur, 1905  
 Raton Mesa region/ Huerfano County/ Las Animas County/ Walsenburg field/ Trinidad field/  
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 Raton Mesa region/ Huerfano County/ Las Animas County/ Walsenburg field/ metamorphism/  
 Lakes, Arthur, 1908  
 geology/ Raton Mesa region/ Huerfano County/  
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 Raton Mesa region/ Huerfano County/ geology/  
 Meade, Frank, 1900  
 history/ Huerfano County/ Raton Mesa region/  
 Meissner, F. F., 1977  
 methane/ metamorphism/ Raton Mesa region/ Las Animas County/ Huerfano County/  
 Pierce, A. P., 1952  
 Raton Mesa region/ Huerfano County/ geology/  
 Whiteside, F. W., 1912  
 Raton Mesa region/ Canon City field/ Huerfano County/ Fremont County/ history/ geology/

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Ashburner, C. A., 1889  
 history/  
 Bancroft, G. J., 1906  
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 Kneeland, F. H., 1921  
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Meade, Frank, 1900  
 history/ Huerfano County/ Raton Mesa region/  
 Morris, R. W., 1923  
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 San Juan River region/ geology/  
 Richards, R. H.; and Locke, C. E., 1908  
 history/  
 Shepardson, J. W., 1973  
 development/ production/ history/ statistics/ analyses/ leasing/ permits/  
 Shurick, A. T., 1916  
 history/  
 Smith, J. A., 1883  
 history/  
 Tibbits, A. R., 1914  
 history/  
 White, W. A., 1922  
 history/

### Jackson County

Anonymous, 1912  
 North Park region/ Coalmont field/ Jackson County/  
 Hendricks, M. L., 1977  
 North Park region/ Jackson County/ Tertiary/ depositional environments/  
 Henkes, W. C., 1957  
 North Park region/ Jackson County/ resources/ geology/  
 Kinney, D. M.; and Hail, W. J., 1959  
 North Park region/ Jackson County/ Cretaceous/ geology/ stratigraphy/  
 Madden, D. H., 1977  
 North Park region/ Jackson County/ Coalmont field/ geophysics/ well logs/ lithology/  
 Madden, D. H., 1977  
 North Park region/ Jackson County/ McCallum field/ geophysics/ well logs/ lithology/  
 Shubart, B., 1912  
 North Park region/ Jackson County/ analyses/ mining-surface/  
 Swanson, V. E.; Medlin, J. H.; Hatch, J. R.; Coleman, S. L.; Wood, G. H., Jr.; Woodruff, S. D.; and Hildebrand, R. T., 1976  
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 The New Empire, 1912  
 North Park region/ Coalmont field/ Jackson County/

### Jefferson County

Berthoud, E. L., 1874  
 Jefferson County/ Denver region/  
 Bryant, Bruce; and Wobus, R. A., 1975

Jefferson County (cont.)

- Denver region/ map-geologic/ El Paso County/  
Douglas County/ Jefferson County/  
Denver Regional Council of Governments, 1977  
resources/ bibliography/ Denver region/ Boulder-Weld  
field/ reserves/ Adams County/ Arapahoe County/  
Boulder County/ Jefferson County/  
Lakes, Arthur, 1905  
Denver region/ Jefferson County/ Boulder County/  
structure/  
Machette, M. N., 1975  
map-geologic/ Denver region/ Boulder-Weld field/  
Adams County/ Boulder County/ Jefferson County/  
Osterwald, F. W.; and others, 1973  
Denver region/ Jefferson County/ geophysics/  
Schopf, J. M., 1960  
Jefferson County/ Denver region/ description/  
sampling/  
Scott, G. R., 1972  
Denver region/ Jefferson County/ map-geologic/  
Stone, G. H., 1903  
Denver region/ Jefferson County/  
Van Horn, Richard, 1976  
Denver region/ Jefferson County/ Cretaceous/  
Huerfano County/ Cretaceous/ lithology/ depositional  
environments/  
Fay, C. H., 1913  
Raton Mesa region/ Las Animas County/ Trinidad  
field/ mining-general/  
Grosvenor, N. E.; and Scott, R. L., 1976  
coke and coking coal/ Uinta region/ Raton Mesa  
region/ Gunnison County/ Pitkin County/ Las  
Animas County/ production/ quality/  
Guiterman, K. S., 1909  
Raton Mesa region/ Huerfano County/ Las Animas  
County/ coke and coking coal/ mining-general/  
Hills, R. C., 1888  
Raton Mesa region/ Huerfano County/ Las Animas  
County/ metamorphism/  
Hills, R. C., 1903  
Raton Mesa region/ Trinidad field/ Las Animas  
County/  
Hosea, R. M., 1904  
Raton Mesa region/ Trinidad field/ Las Animas  
County/  
Hosea, R. M., 1904  
Raton Mesa region/ Trinidad field/ Las Animas  
County/ coke and coking coal/  
Hosea, R. M., 1904  
Raton Mesa region/ Trinidad field/ Las Animas  
County/  
Jurie, C. A.; and Gerhard, L. C., 1969  
Las Animas County/ Huerfano County/ Raton Mesa  
region/ Trinidad field/ Walsenburg field/ production/  
stratigraphy/ quality/ utilization/  
Lakes, Arthur, 1886  
Raton Mesa region/ Trinidad field/ Las Animas  
County/  
Lakes, Arthur, 1889  
Raton Mesa region/ Trinidad field/ Las Animas  
County/  
Lakes, Arthur, 1902  
Raton Mesa region/ Huerfano County/ Las Animas  
County/ metamorphism/ coke and coking coal/  
Lakes, Arthur, 1903  
Raton Mesa region/ Las Animas County/ Trinidad  
field/  
Lakes, Arthur, 1905  
Raton Mesa region/ Huerfano County/ Las Animas  
County/ Walsenburg field/ Trinidad field/  
Lakes, Arthur, 1905  
Raton Mesa region/ Huerfano County/ Las Animas  
County/ Walsenburg field/ metamorphism/  
McLaughlin, J. E., 1903  
Raton Mesa region/ Las Animas County/ Trinidad  
field/  
Pillmore, C. L., 1976  
Raton Mesa region/ Las Animas County/ Trinidad  
field/ stratigraphy/ Cretaceous/ Tertiary/  
Plumb, C. H., 1905  
Raton Mesa region/ Las Animas County/  
Podwysocki, M. H., and Dutcher, R. R., 1971  
metamorphism/ Raton Mesa region/ Trinidad field/  
Las Animas County/ analyses/ petrography/  
Van Diest, P. H., 1890  
Raton Mesa region/ Las Animas County/  
Whiteside, F. W., 1909  
Raton Mesa region/ Trinidad field/ Las Animas  
County/  
Whiteside, F. W., 1912  
Raton Mesa region/ Las Animas County/ explosions/

La Plata County

- Fassett, J. E., 1976  
San Juan River region/ La Plata County/ Archuleta  
County/ Raton Mesa region/ Las Animas County/  
Huerfano County/ Cretaceous/ lithology/ depositional  
environments/  
Fassett, J. E., 1977  
San Juan River region/ Montezuma County/ La  
Plata County/ Archuleta County/ stratigraphy/  
depositional environments/ quality/ resources/  
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La Plata County/ San Juan River region/  
Hartman, Frank, 1903  
La Plata County/  
Haynes, P. T.; and Read, C. B., 1957  
San Juan River region/ Durango field/ La Plata  
County/ resources/ geology/  
Irwin, J. H., 1966  
San Juan River region/ water/ geology/ La Plata  
County/ Montezuma County/  
Lakes, Arthur, 1905  
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Steven, T. A.; Lipman, P. W.; Hail, W. J., Jr.;  
and others, 1974  
San Juan River region/ La Plata County/ map-geologic/  
Las Animas County  
Amuedo, C. L.; and Bryson, R. S., 1977  
Raton Mesa region/ Huerfano County/ Las Animas  
County/ resources/  
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Raton Mesa region/ Las Animas County/ Huerfano  
County/ paleobotany/ Cretaceous/ Paleocene/  
paleoecology/  
Boley, C. C.; Fegley, M. M.; Porter, R. B.; and  
Boteler, D. C., 1972  
coke and coking coal/ Las Animas County/ Raton  
Mesa region/  
Fassett, J. E., 1976  
San Juan River region/ La Plata County/ Archuleta  
County/ Raton Mesa region/ Las Animas County/

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### Las Animas County (cont.)

- Whiteside, F. W., 1912  
Raton Mesa region/ Trinidad field/ Las Animas County/
- Wood, G. H., Jr.; Johnson, R. B.; and Dixon, G. H., 1957  
Raton Mesa region/ Trinidad field/ Las Animas County/ geology/ resources/
- Laws, permits, regulations, leasing
- Boyle, G. J., 1977  
taxation/ laws/ reserves/
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leasing/ economics/
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taxation/ laws/ economics/ mining-surface/
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mining-surface/ environment/ reclamation/ laws/
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permits/ laws/ regulations/
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laws/ land ownership/ leasing/ regulations/ reclamation/
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mining-surface/ reclamation/ laws/
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development/ production/ history/ statistics/ analyses/ leasing/ permits/
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resources/
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resources/
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resources/
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resources/ coke and coking coal/ production/ costs/ classification/ utilization/
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stratigraphy/ Tertiary/ Uinta region/ resources/
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Tertiary/ Uinta region/ resources/ chemistry/
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resources/ research/
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resources/ utilization/ development/
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development/ resources/ utilization/ statistics/
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North Park region/ Jackson County/ resources/ geology/
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resources/ statistics/ analyses/ stratigraphy/
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resources/ statistics/ analyses/ stratigraphy/
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resources/ reserves/ characteristics/
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