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COLORADO GEOLOGICAL SURVEY

GEOPHYSICAL LOGS
FROM THE 1981 WATER WELL LOGGING PROGRAM,
CASTLE ROCK 1/2° X 1° QUADRANGLE



by
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Open File Report 81-8
1981

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INTRODUCTION

The Colorado Geological Survey, under a United States Geological Survey grant, conducted a program involving the geophysical logging of water wells in the Castle Rock $1/2^{\circ} \times 1^{\circ}$ Quadrangle in November, 1981. The program was designed to aid in the evaluation of the coal resources of the quadrangle. The Colorado Geological Survey awarded the pump pulling contract to Don Eastwood Drilling, Inc., of Deer Trail, Colorado and the geophysical logging contract to Goodwell Inc. of Upton, Wyoming.

Locations of water wells which were logged in the program were determined after an extensive evaluation of petroleum exploration well logs, water well logs and logs of coal and uranium exploration holes. The final wells were selected based upon owner approval. The wells were located primarily in two different areas; the Buick-Matheson area, in which Laramie Formation coals are relatively near the surface and the Ramah-Fondis area, where coals of the Denver Formation are generally at shallow depths. One well near the western edge of the Denver Basin was logged; the remainder are on the eastern side. Well depths averaged about 400'. High costs precluded obtaining extensive information on extremely deep coals (over 500' depth).

Thirty-one wells had their pumps pulled and were geophysically logged. The standard logs run were natural gamma-density and natural gamma-neutron in wells cased with steel and natural gamma-density only in wells with plastic casing (PVC). Six wells had plastic casing.

Formation boundaries and coal beds in these wells were delineated primarily by interpretation of the geophysical logs, with backup information from the drillers' log for the well and other existing drill hole information in the proximity of the well.

Unless otherwise noted all measurements are in feet.

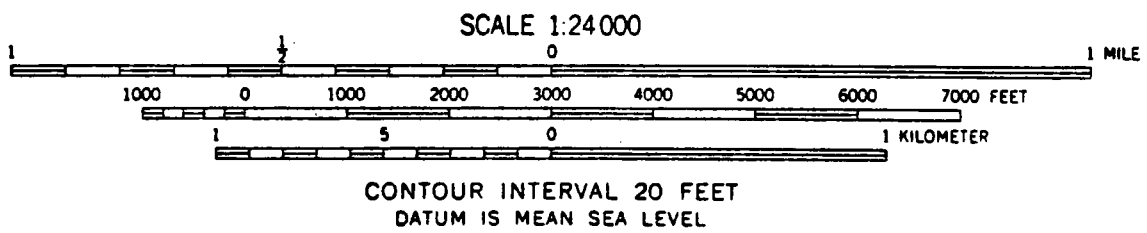
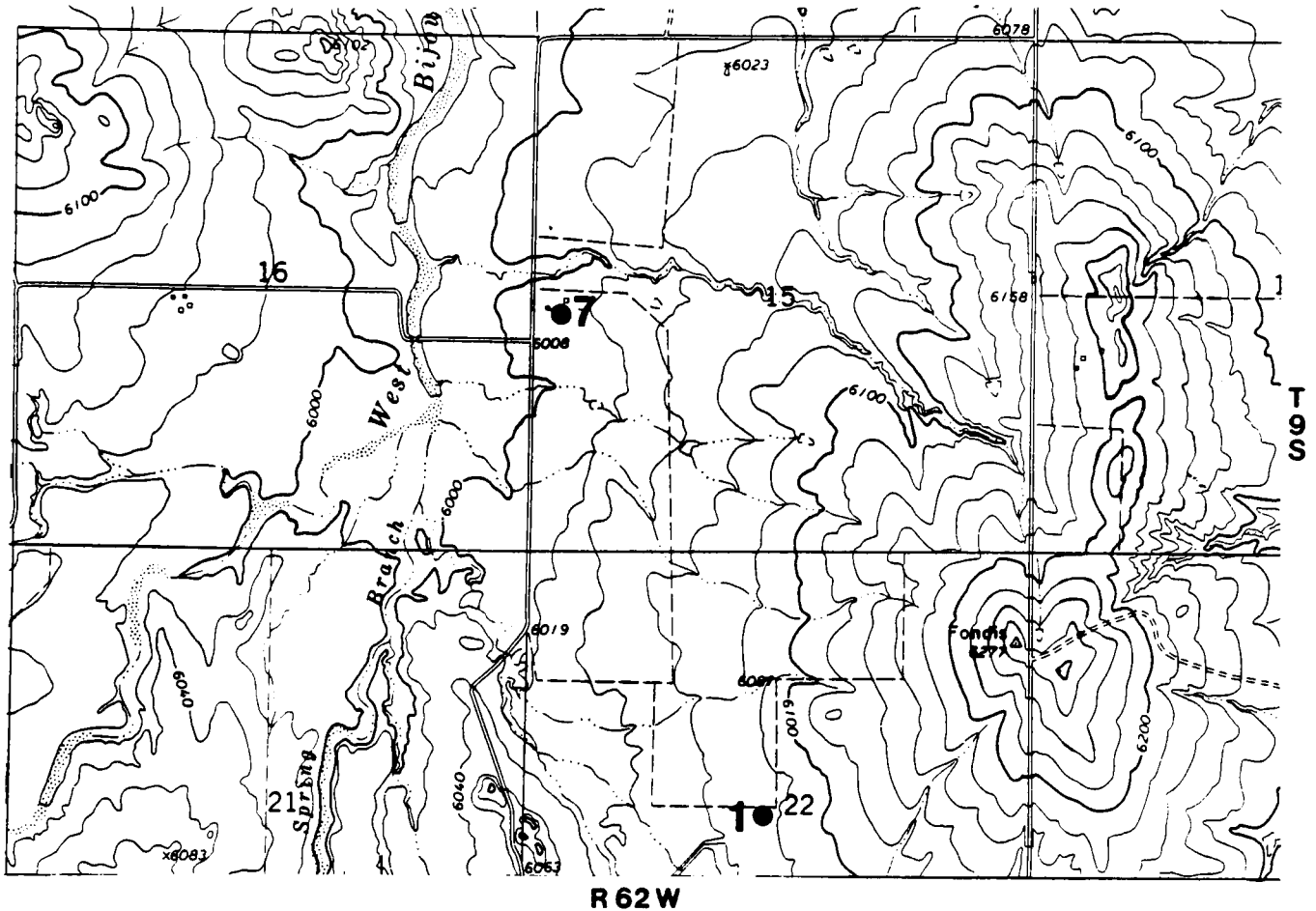


Figure 1. Location of water wells in the Big Gulch quadrangle.

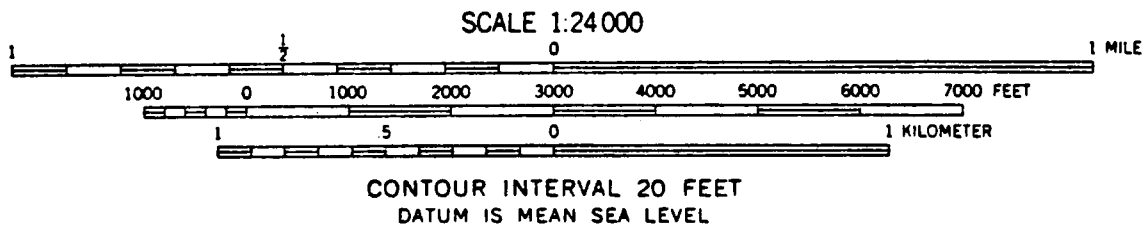
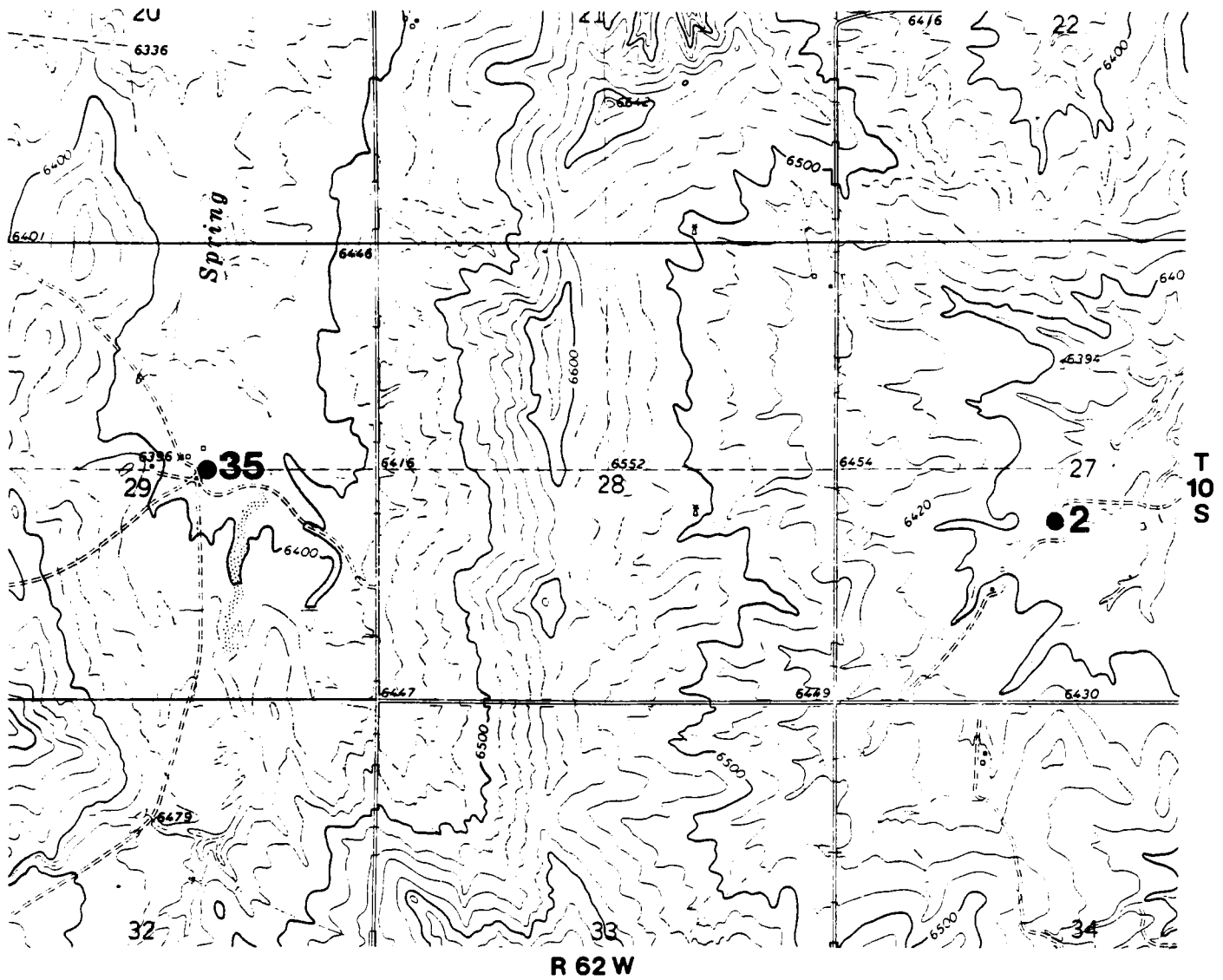


Figure 2. Location of water wells in the Fondis quadrangle.

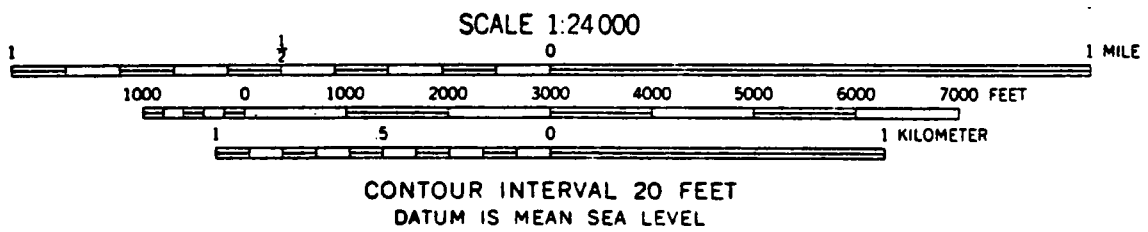
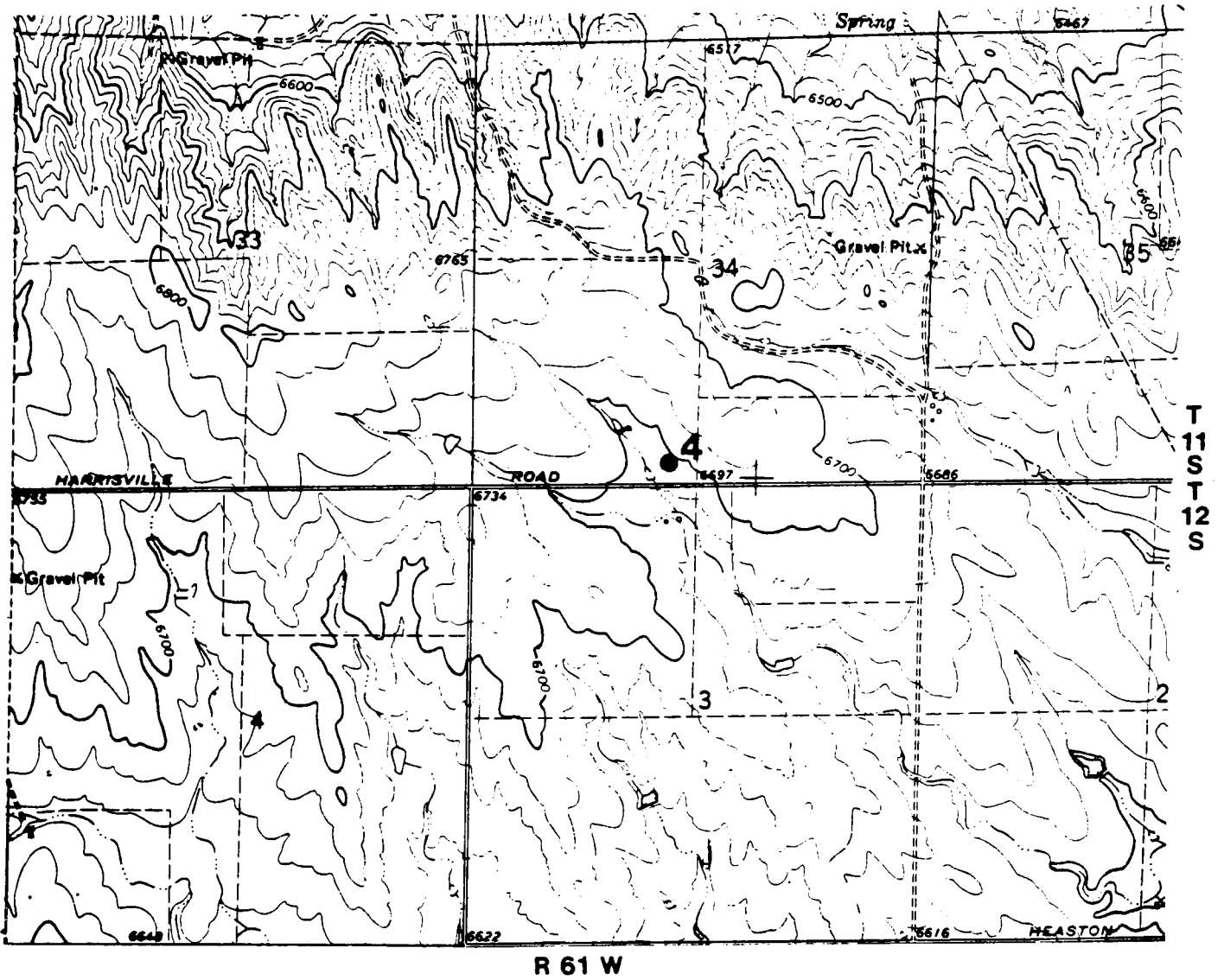


Figure 3. Location of water wells in the Ramah South quadrangle.

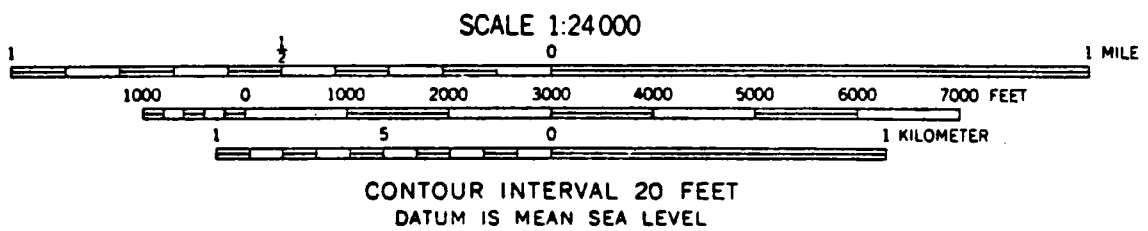
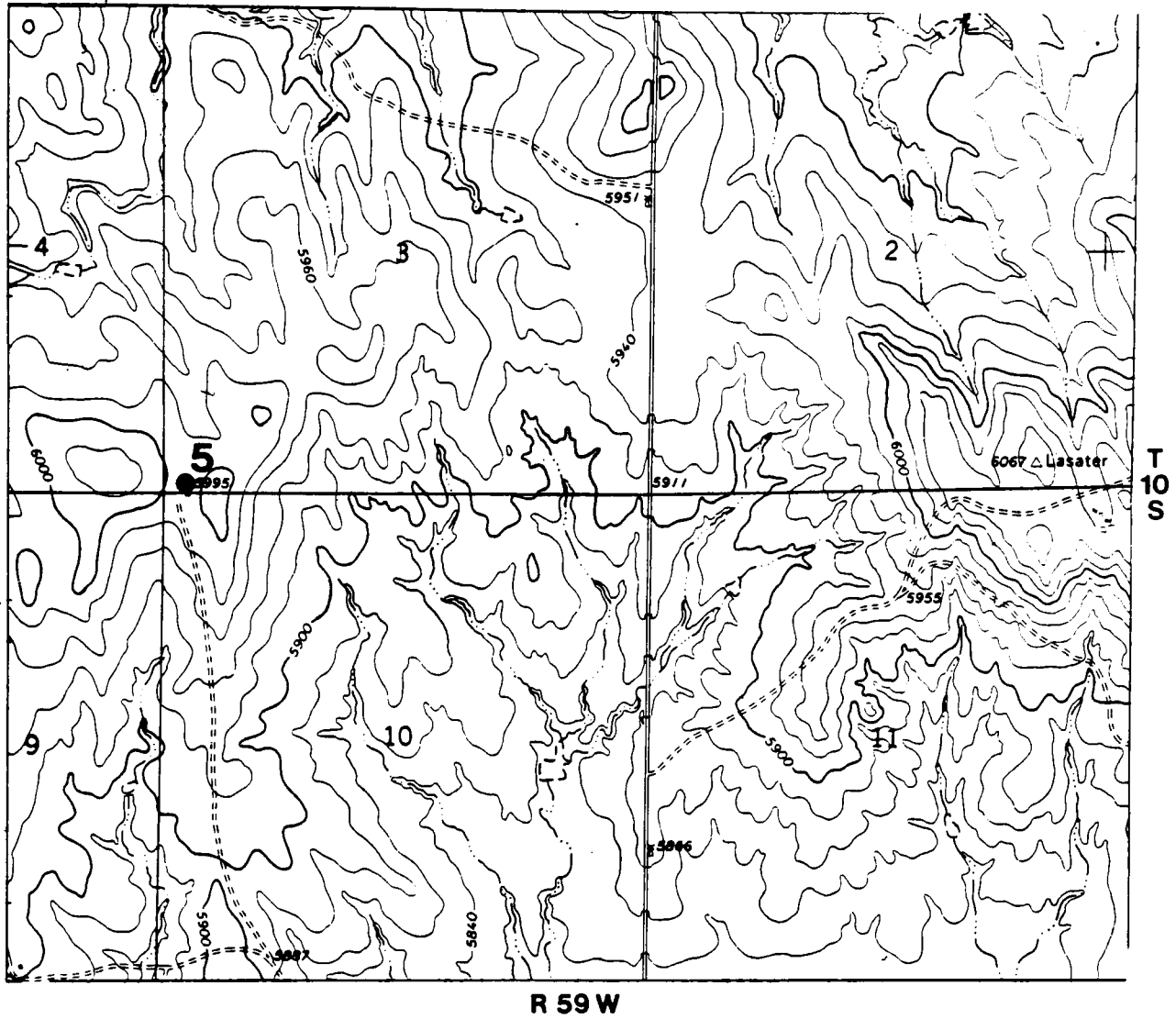


Figure 4. Location of water wells in the Matheson quadrangle.

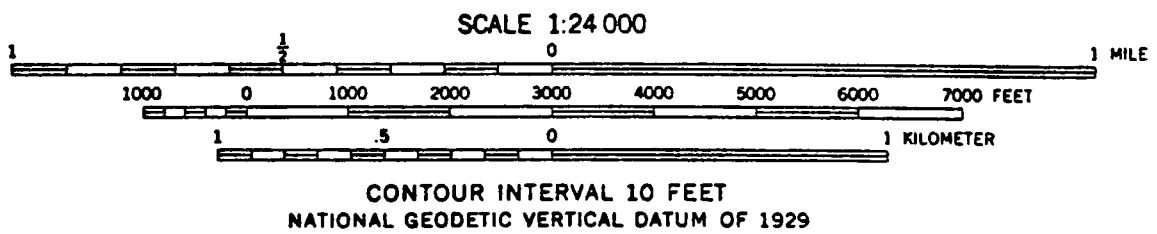
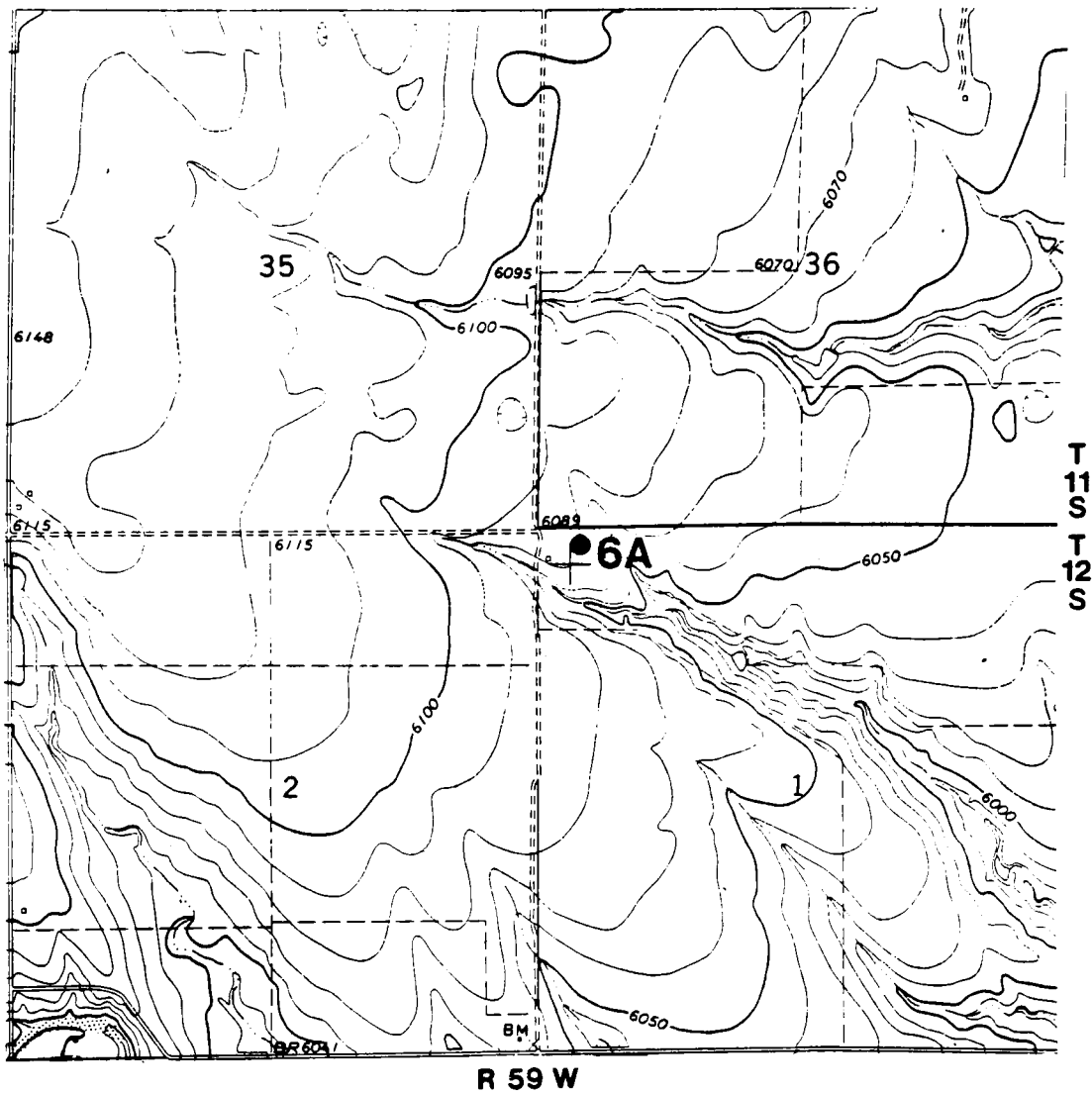


Figure 5. Location of water wells in the Matheson SW quadrangle.

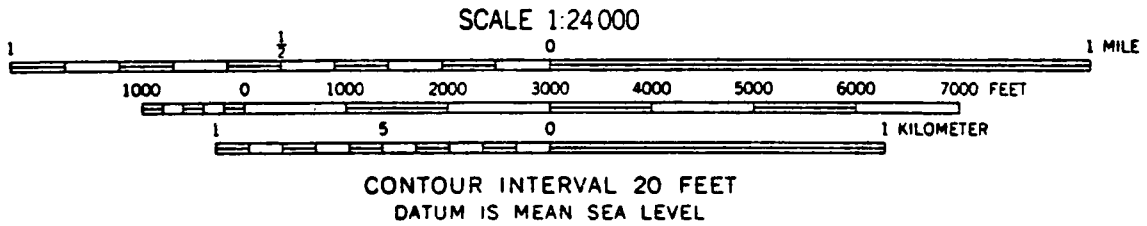
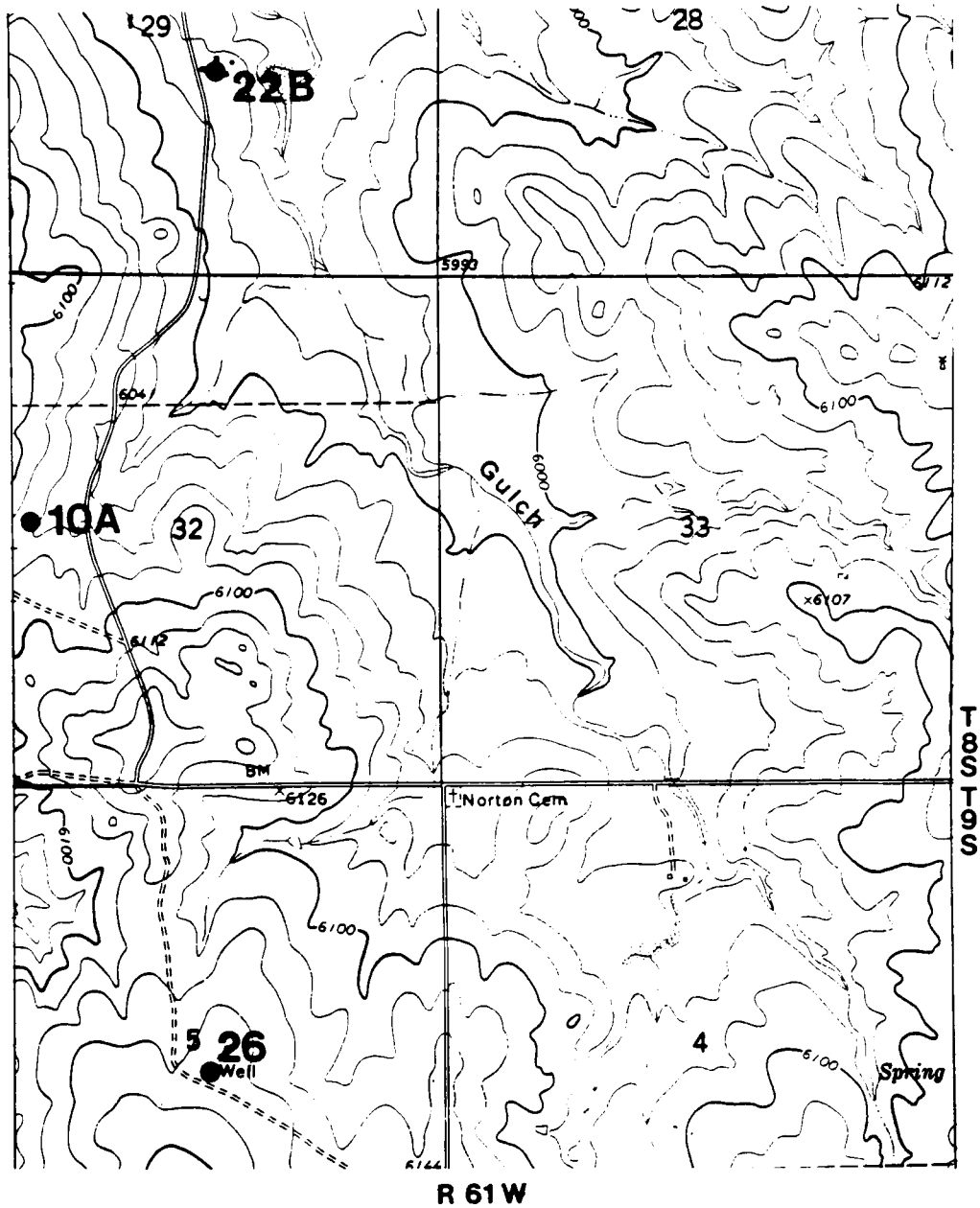


Figure 6. Location of water wells in the Bijou SW quadrangle.

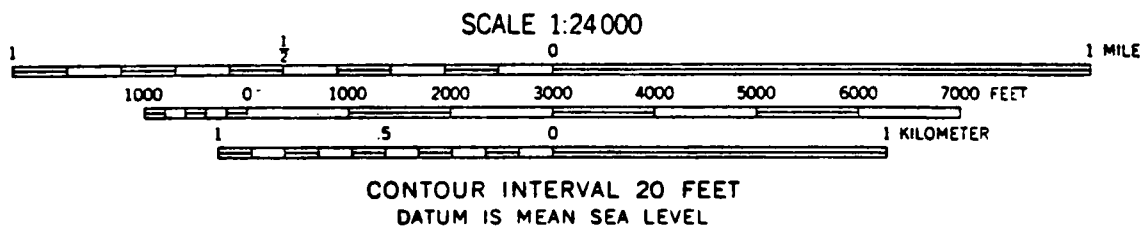
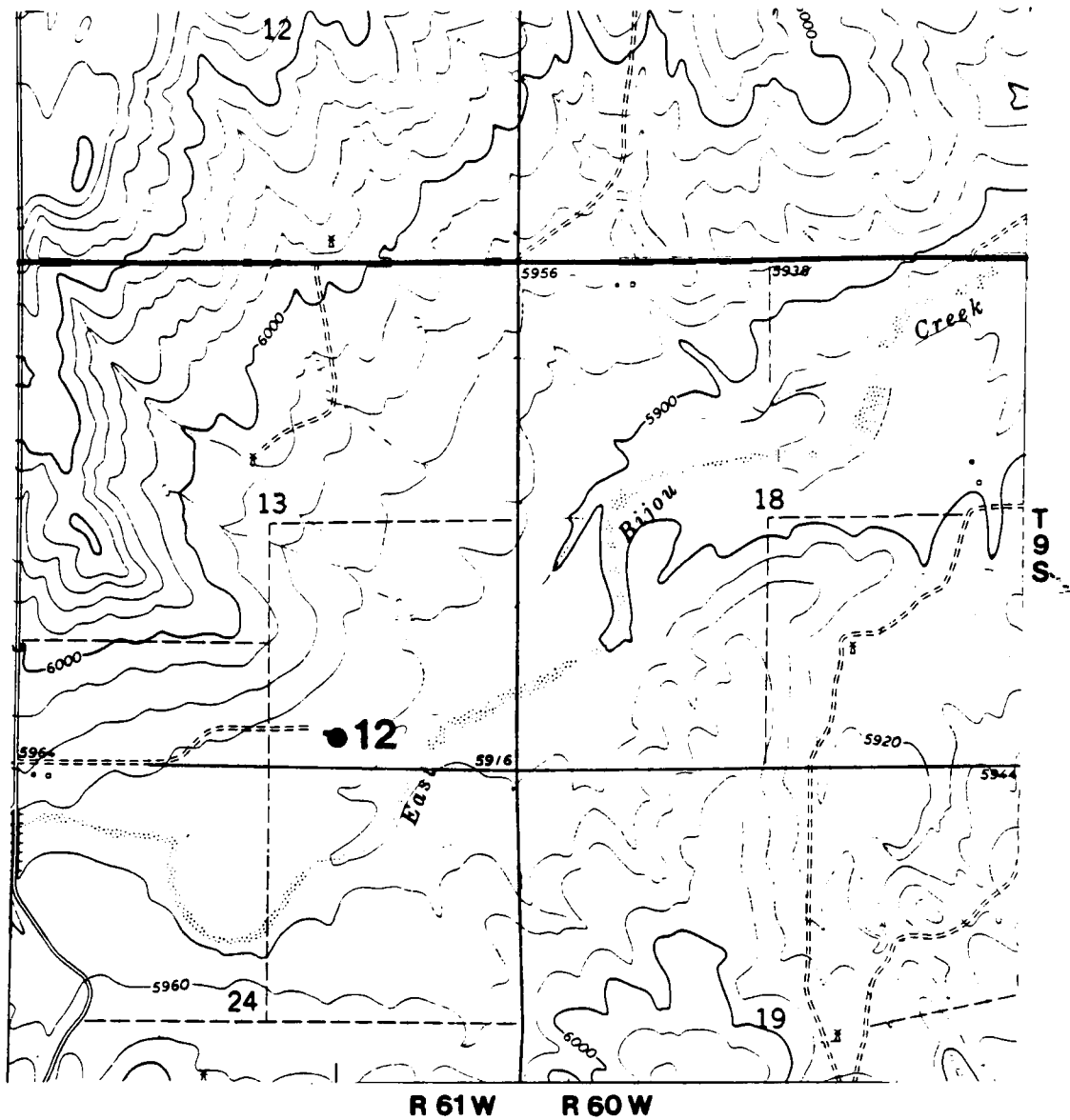
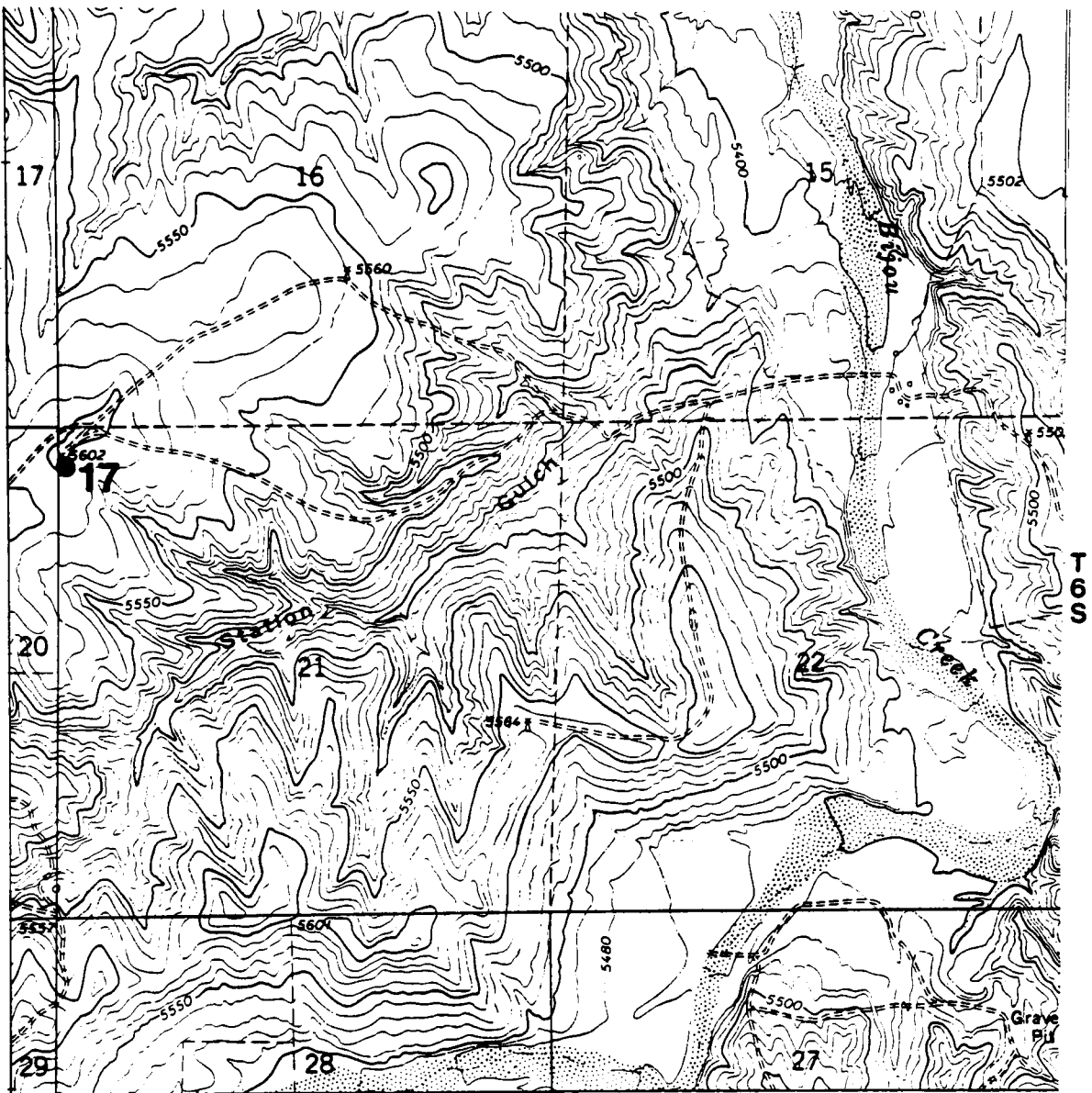
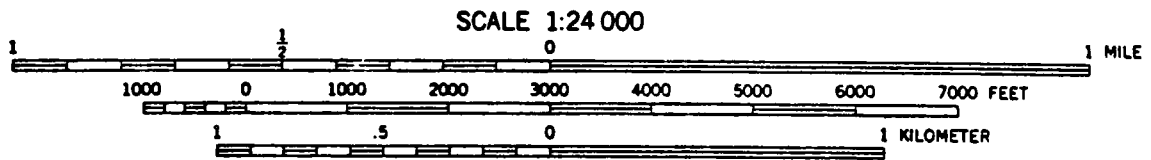


Figure 7. Location of water wells in the Bijou SW quadrangle.

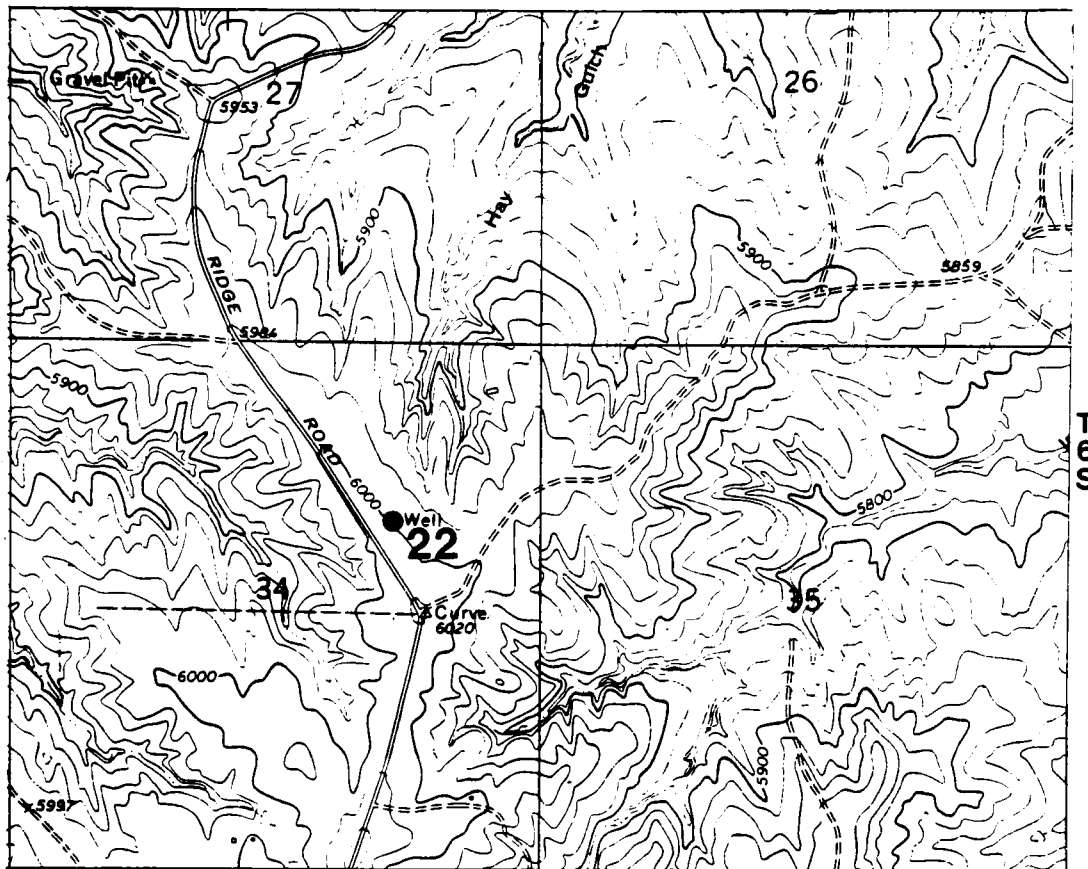


R 60 W



CONTOUR INTERVAL 10 FEET
 NATIONAL GEODETIC VERTICAL DATUM OF 1929

Figure 8. Location of water wells in the Deer Trail quadrangle.



R 61 W

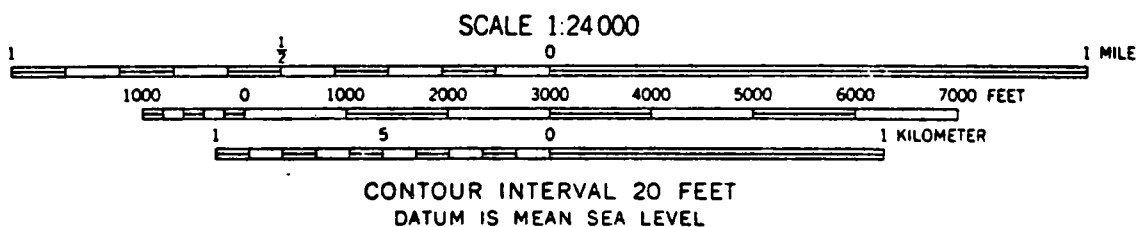
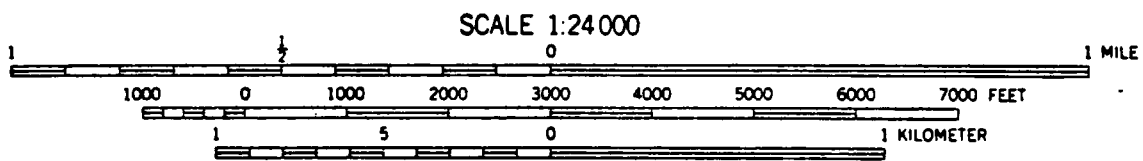
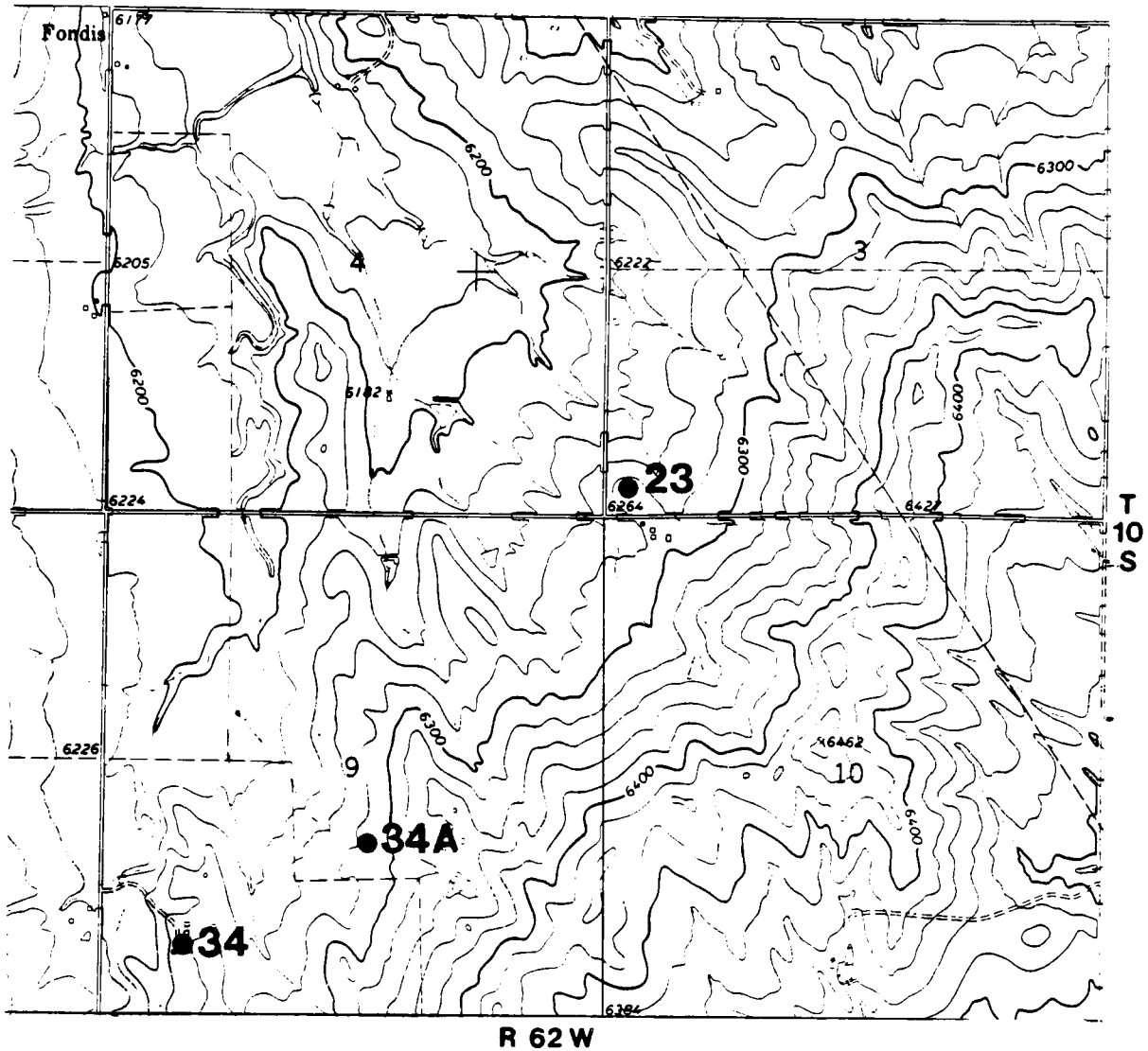


Figure 9. Location of water wells in the Bijou quadrangle.



CONTOUR INTERVAL 20 FEET
 DATUM IS MEAN SEA LEVEL

Figure 10. Location of water wells in the Fondis quadrangle.

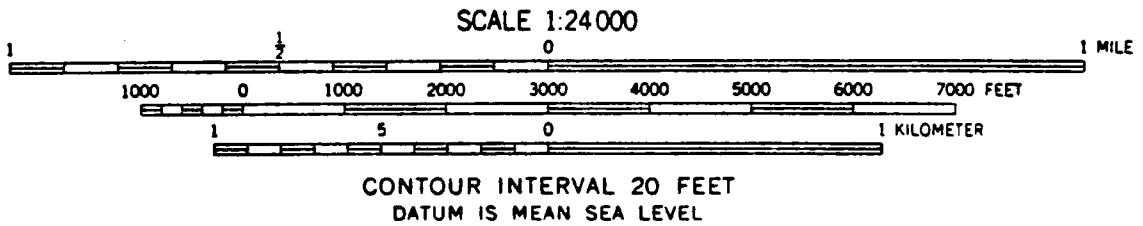
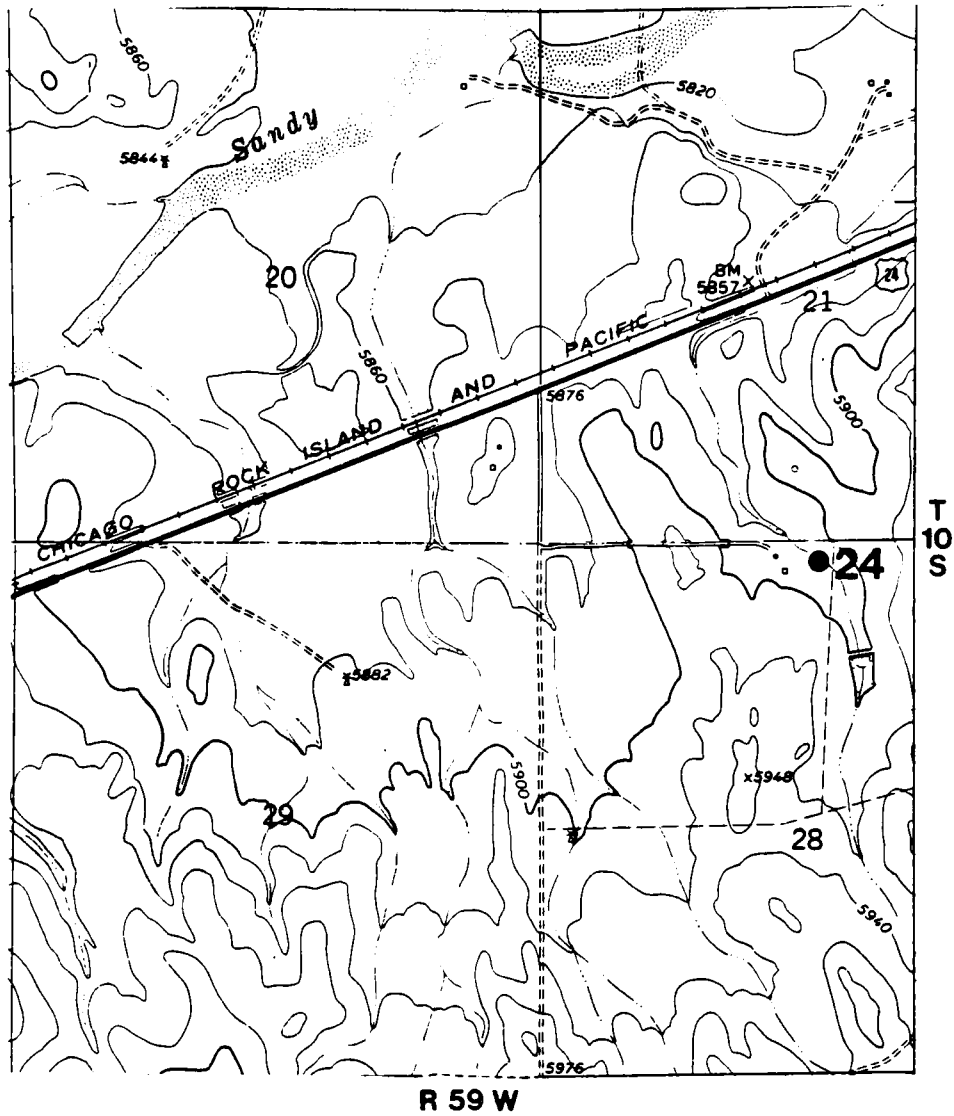
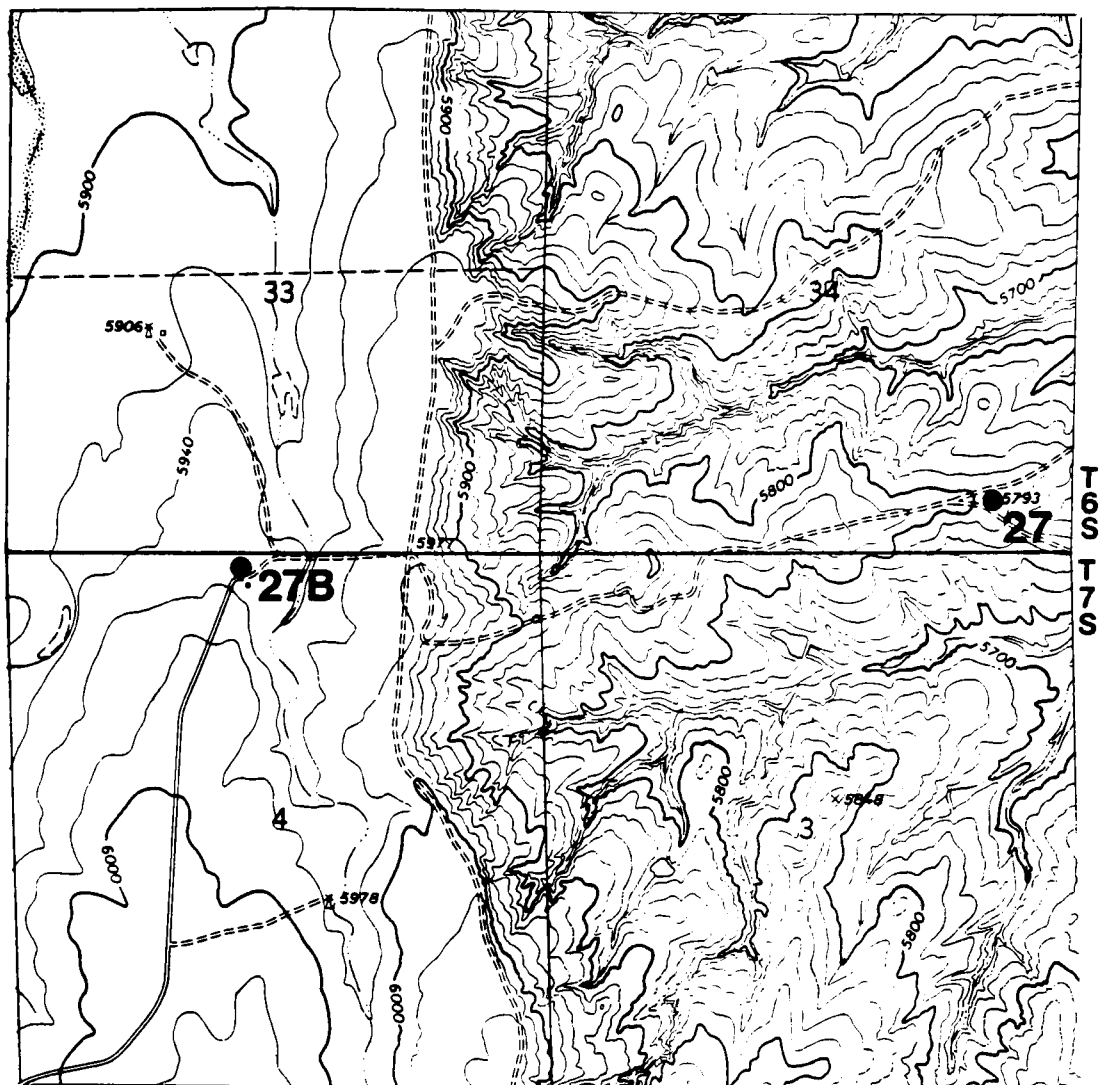
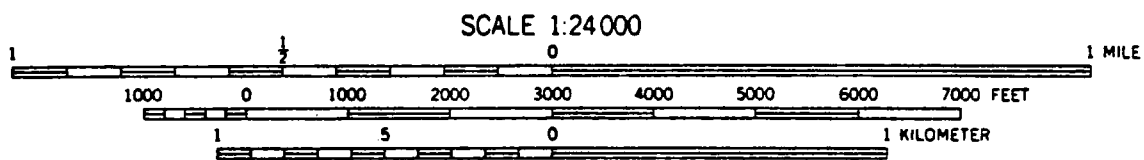


Figure 11. Location of water wells in the Simla quadrangle.

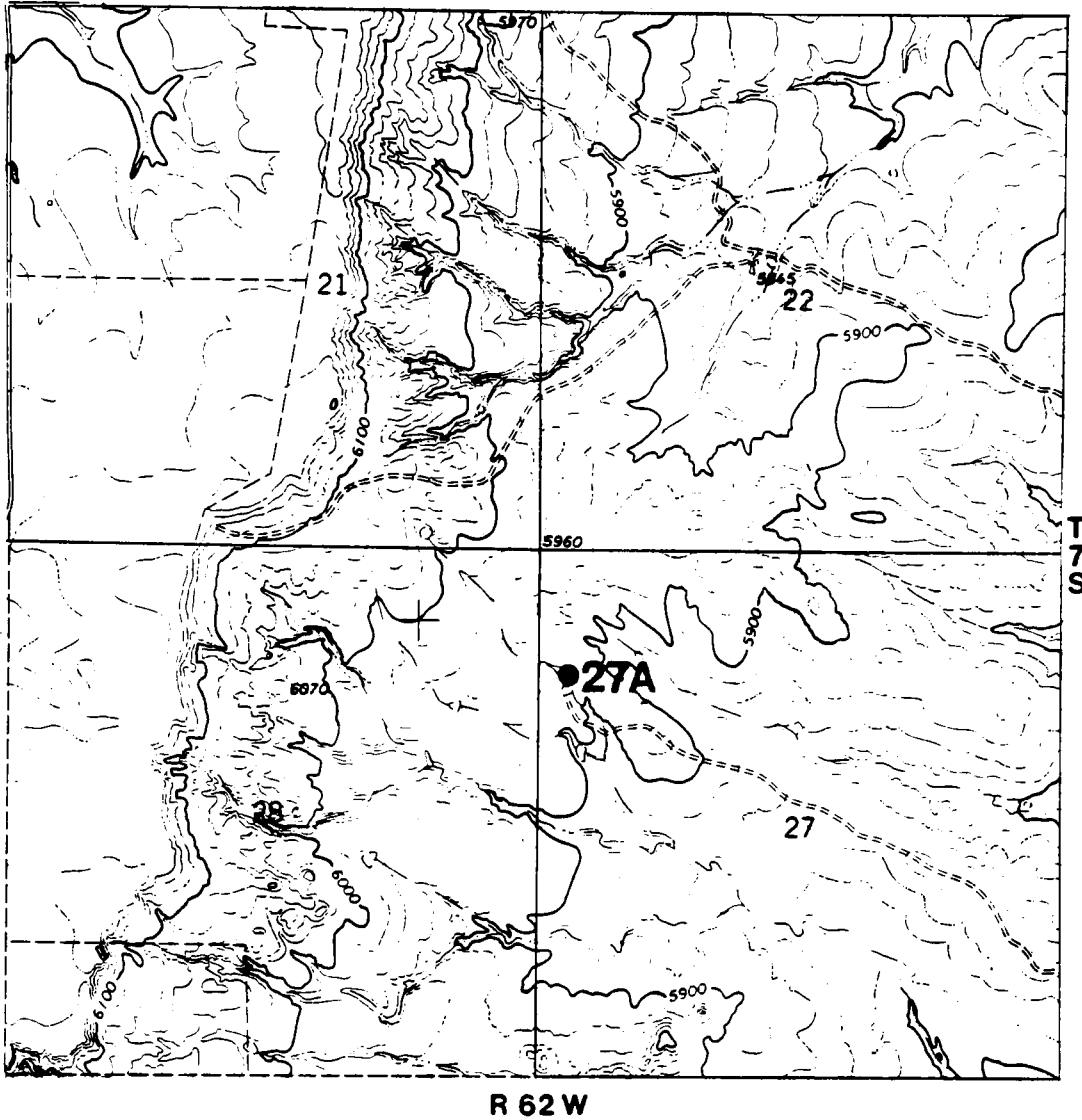


R 62 W



CONTOUR INTERVAL 20 FEET
 DATUM IS MEAN SEA LEVEL

Figure 12. Location of water wells in the Kiowa NE quadrangle.



R 62 W

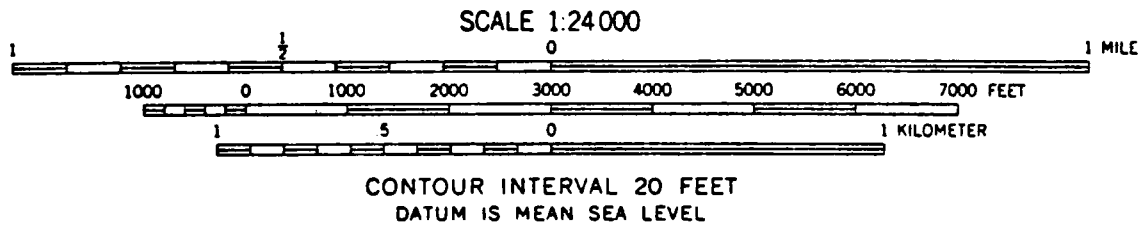
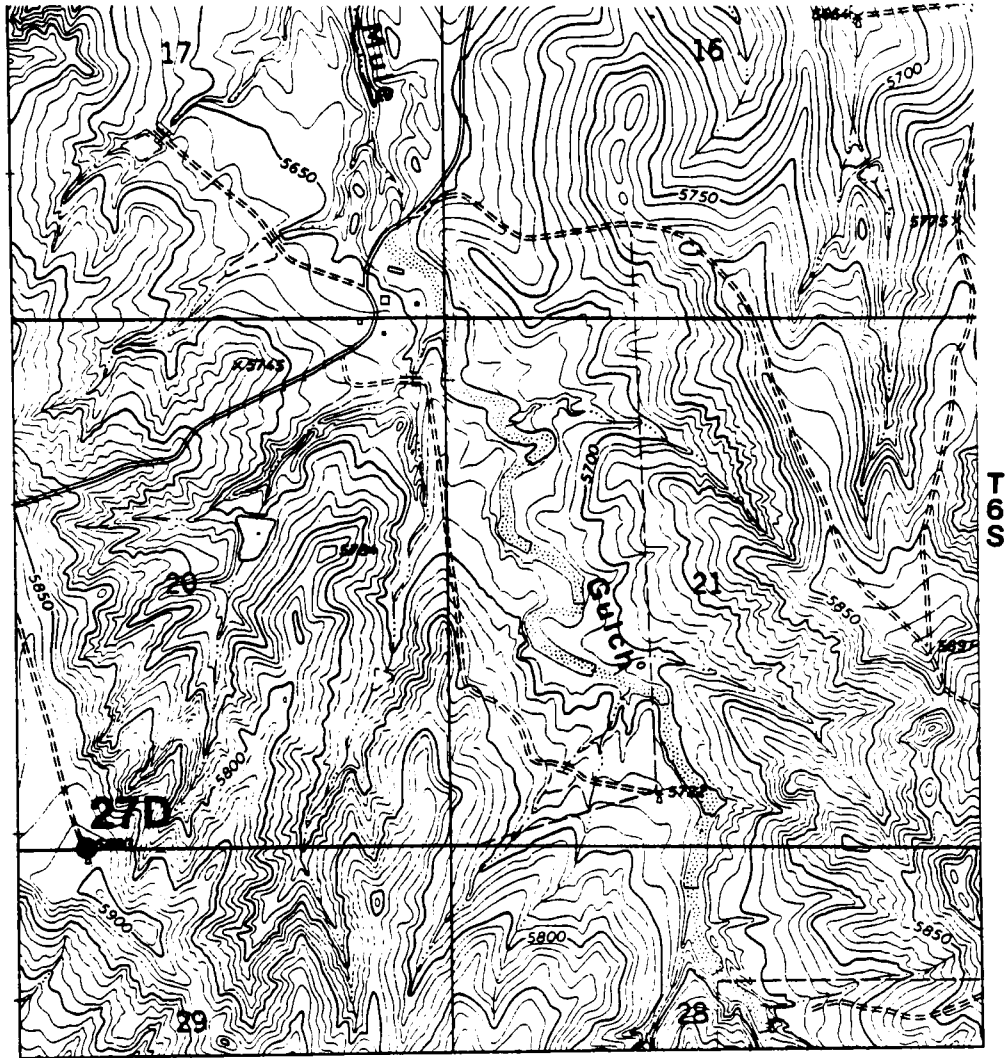
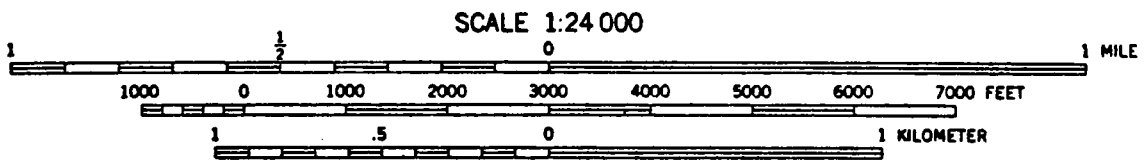


Figure 13. Location of water wells in the Kiowa NE quadrangle.



R61W



SCALE 1:24 000
 CONTOUR INTERVAL 10 FEET
 NATIONAL GEODETIC VERTICAL DATUM OF 1929

Figure 14. Location of water wells in the Byers SW quadrangle.

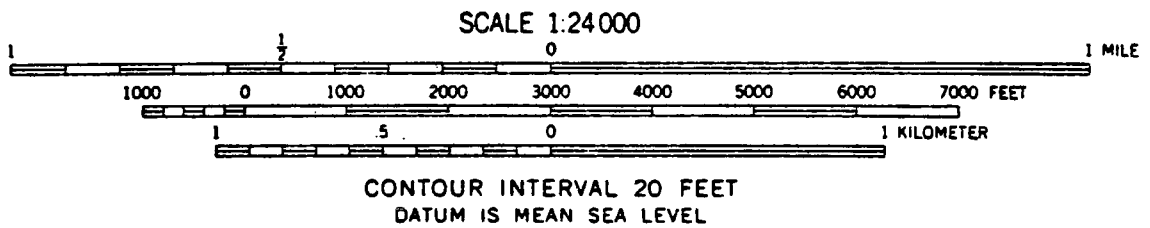
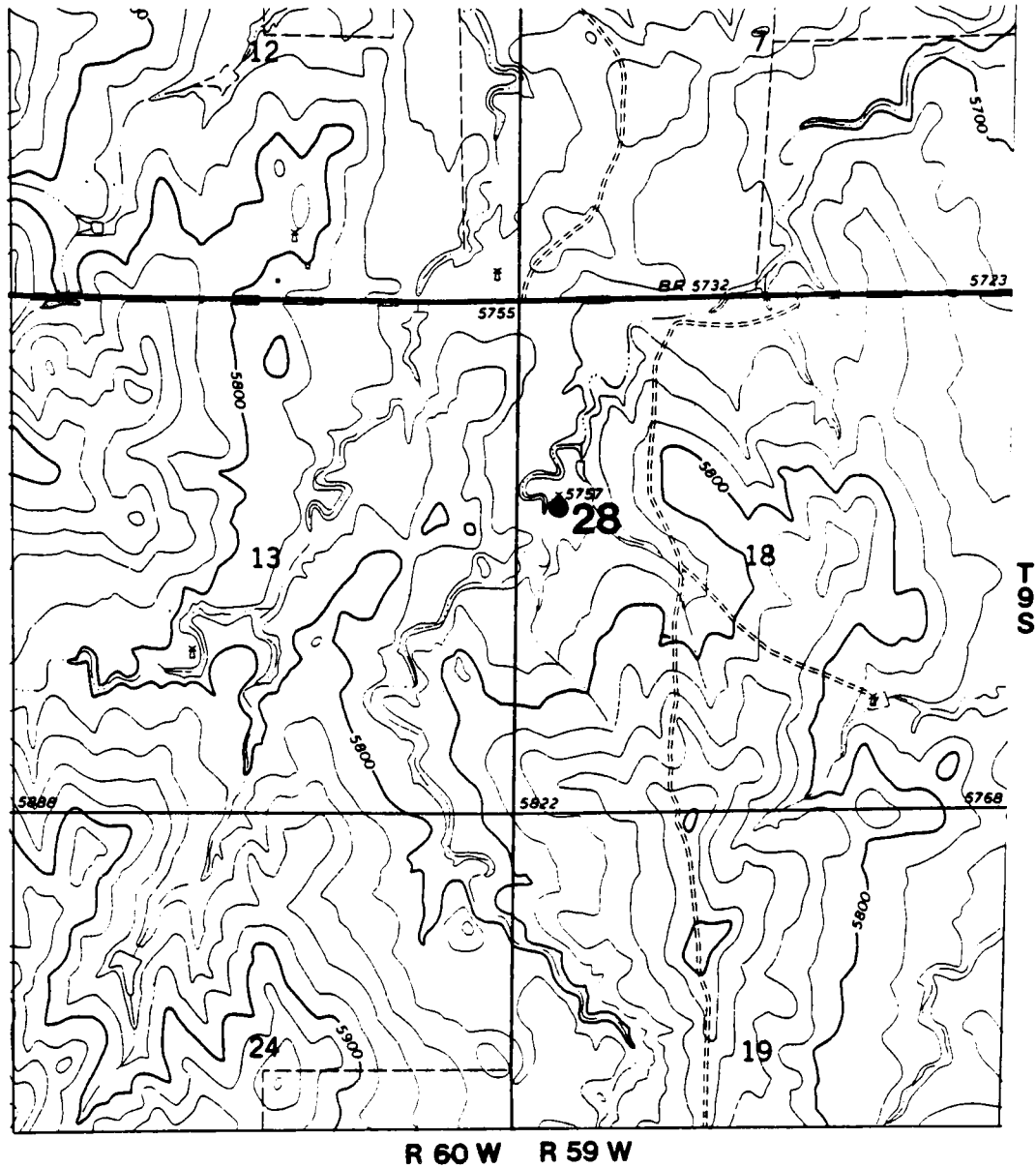


Figure 15. Location of water wells in the Kuhn's Crossing quadrangle.

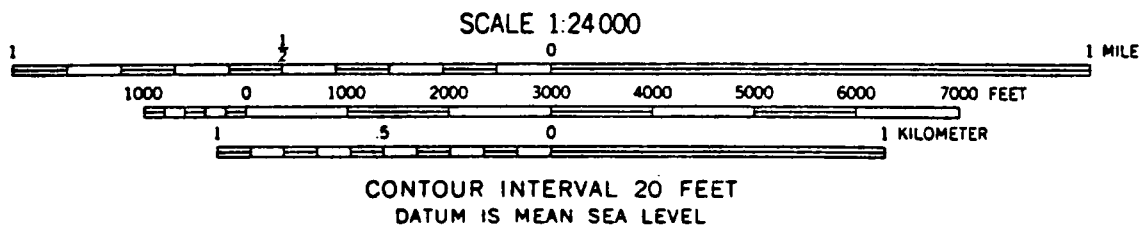
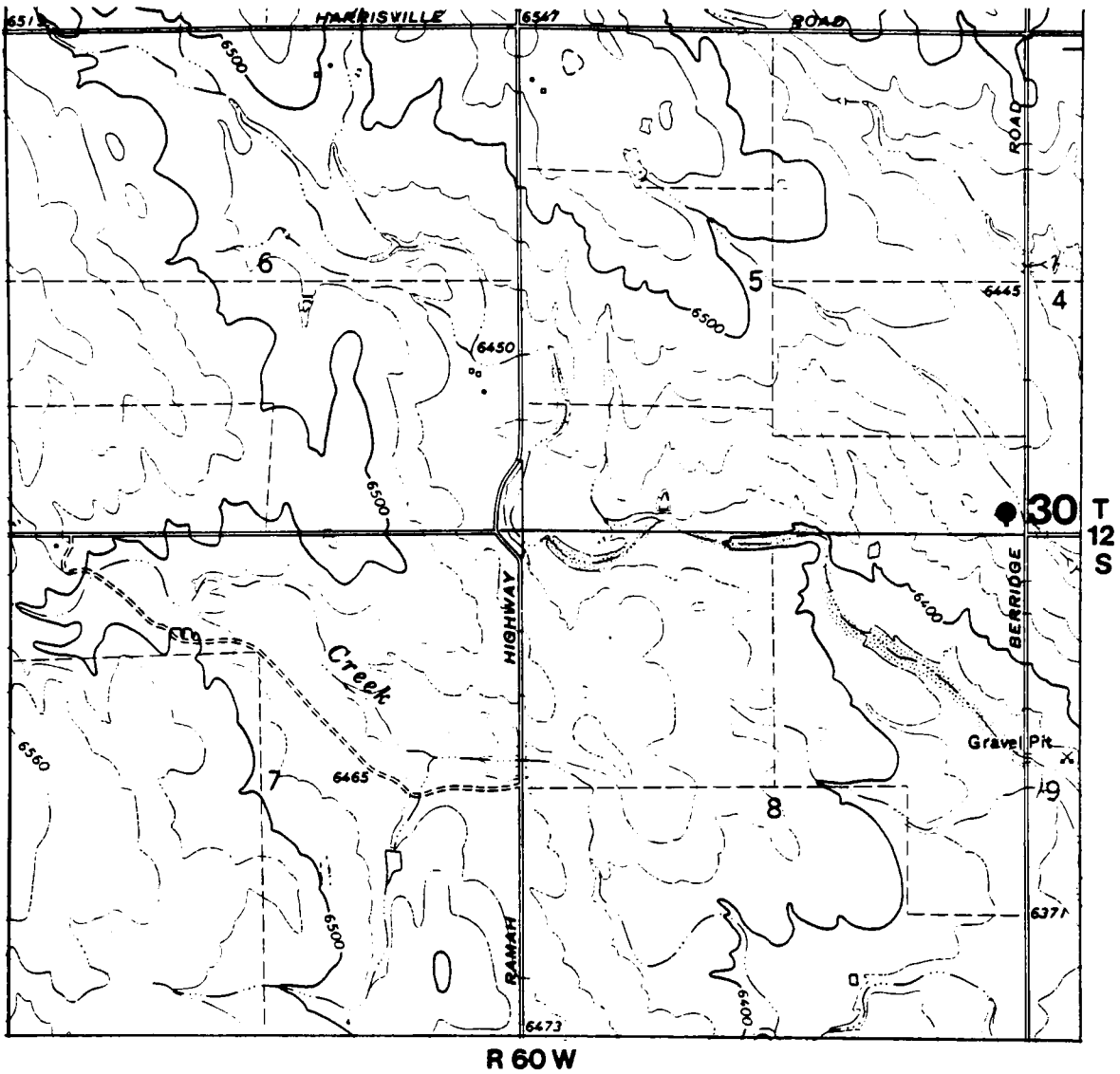
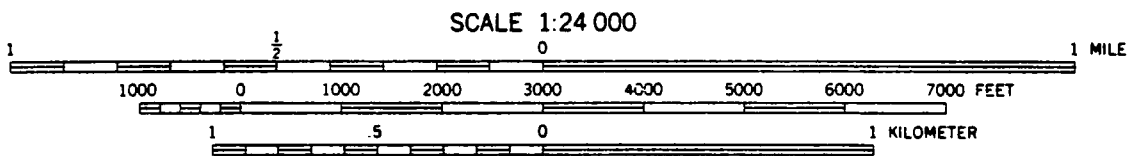
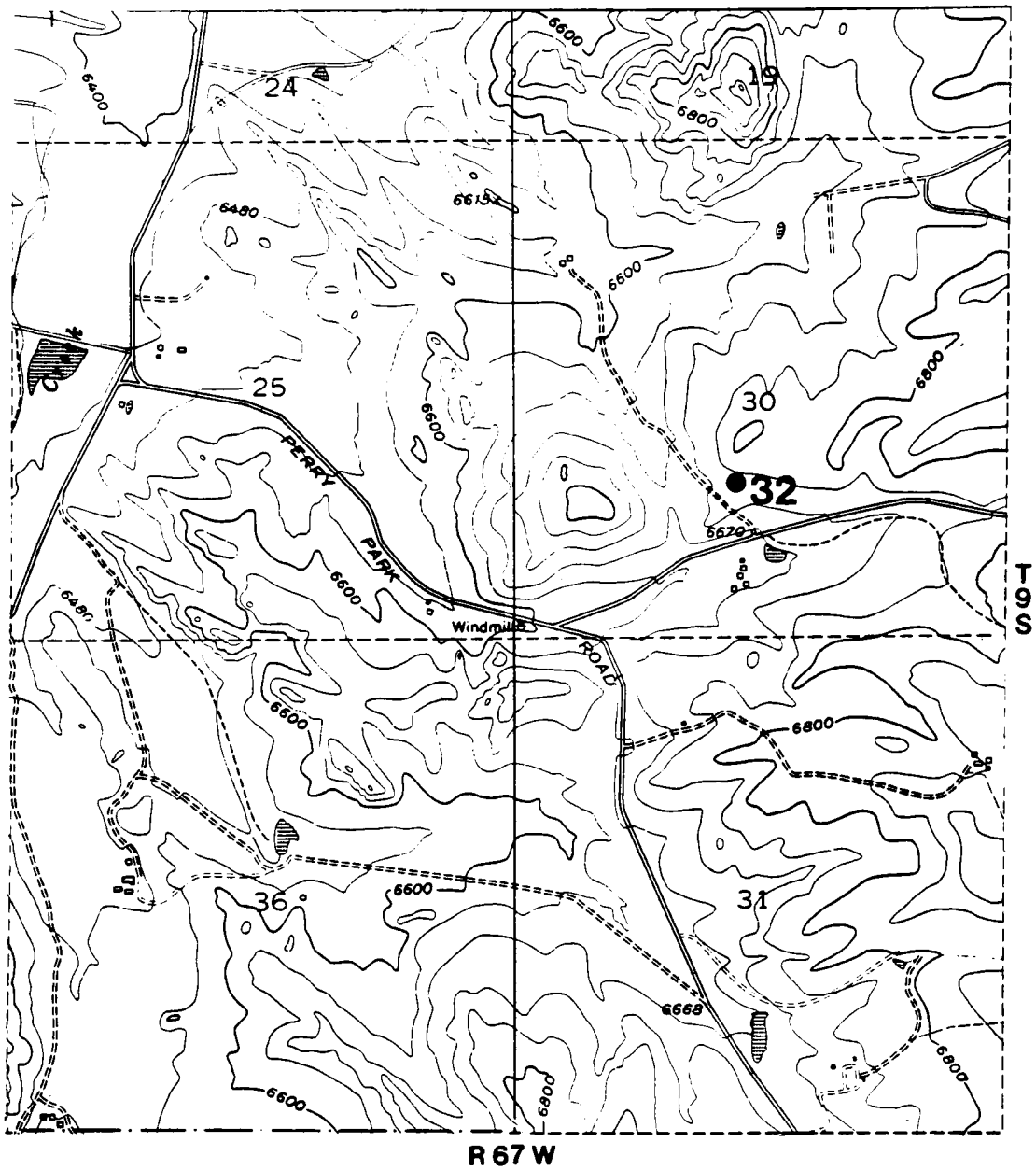


Figure 16. Location of water wells in the Ramah South quadrangle.



CONTOUR INTERVAL 40 FEET
 NATIONAL GEODETIC VERTICAL DATUM OF 1929

Figure 18. Location of water wells in the Larkspur quadrangle.

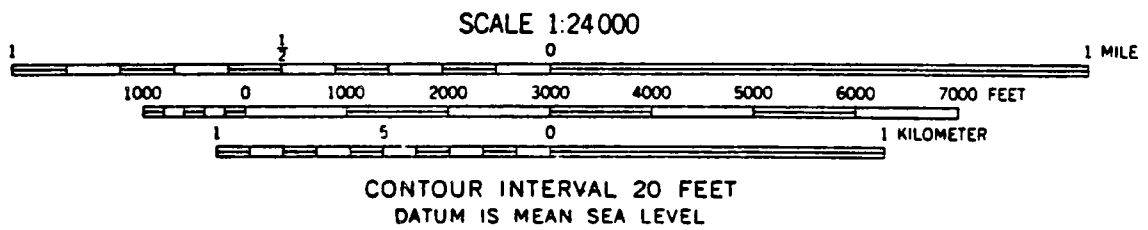
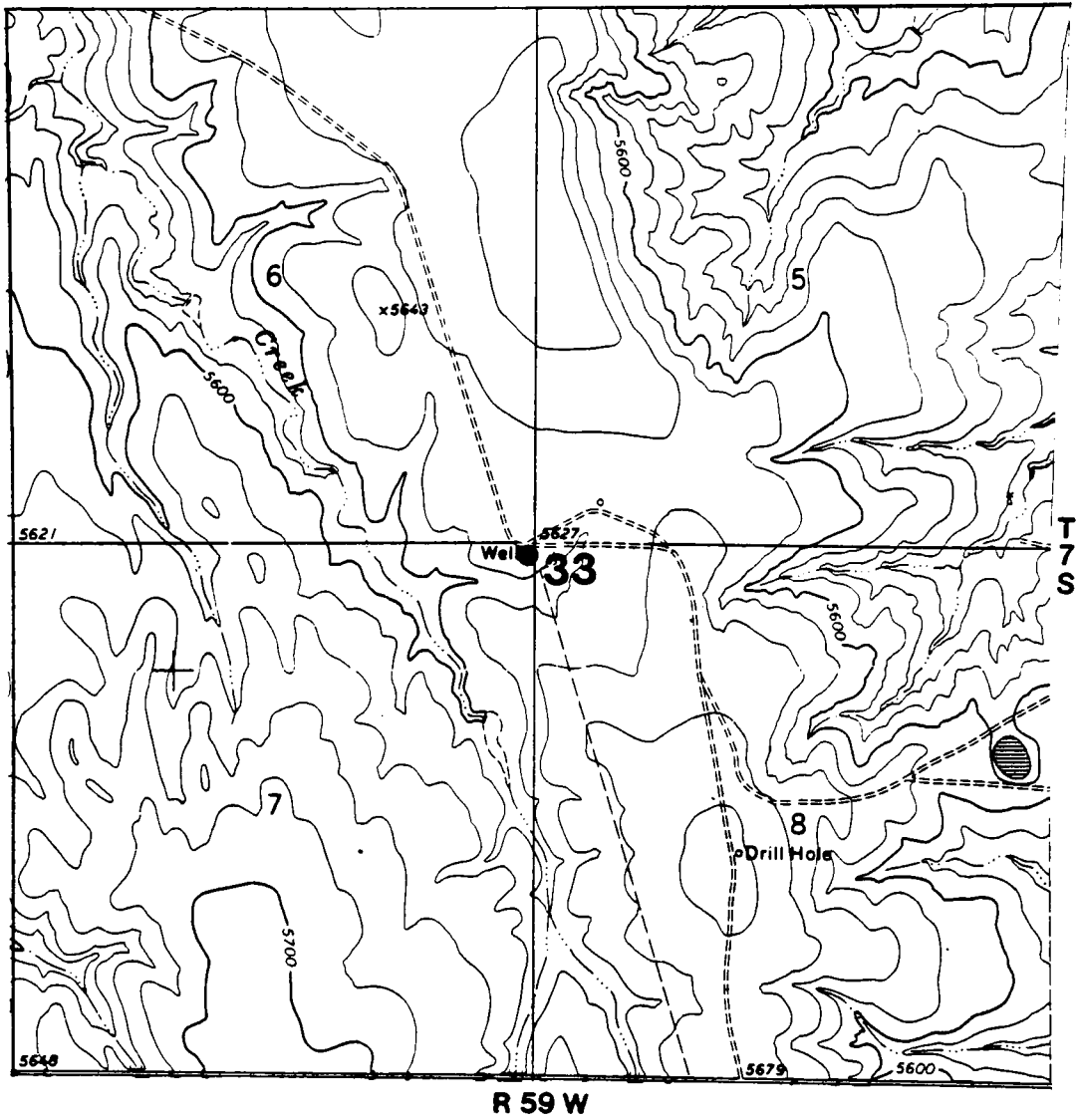


Figure 19. Location of water wells in the Cattle Gulch quadrangle.

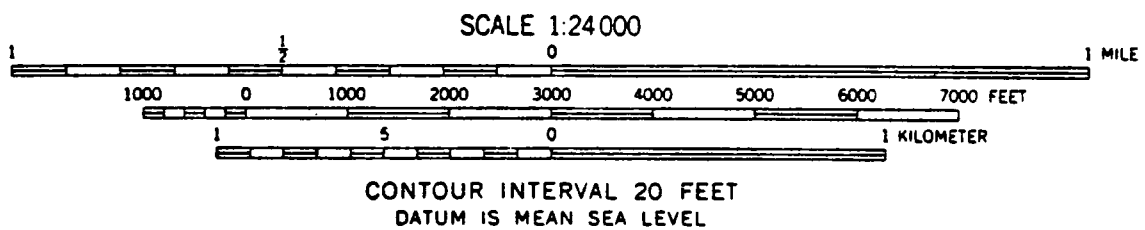
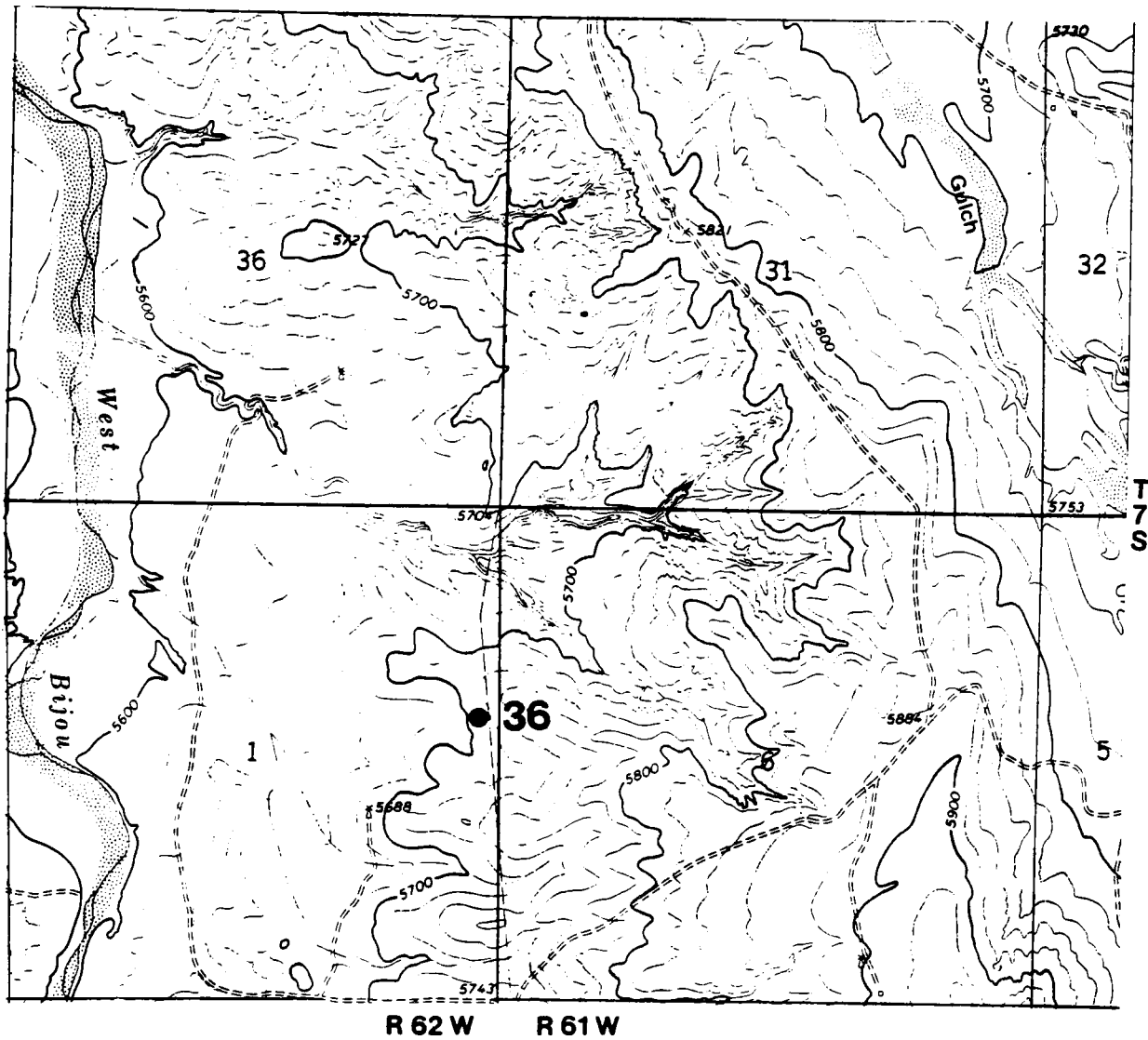


Figure 20. Location of water wells in the Kiowa NE quadrangle.

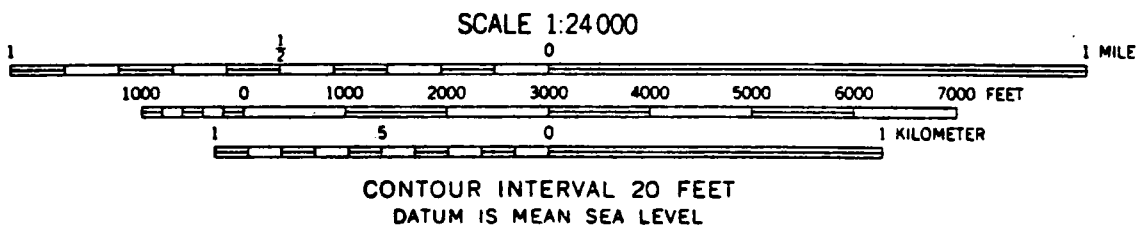
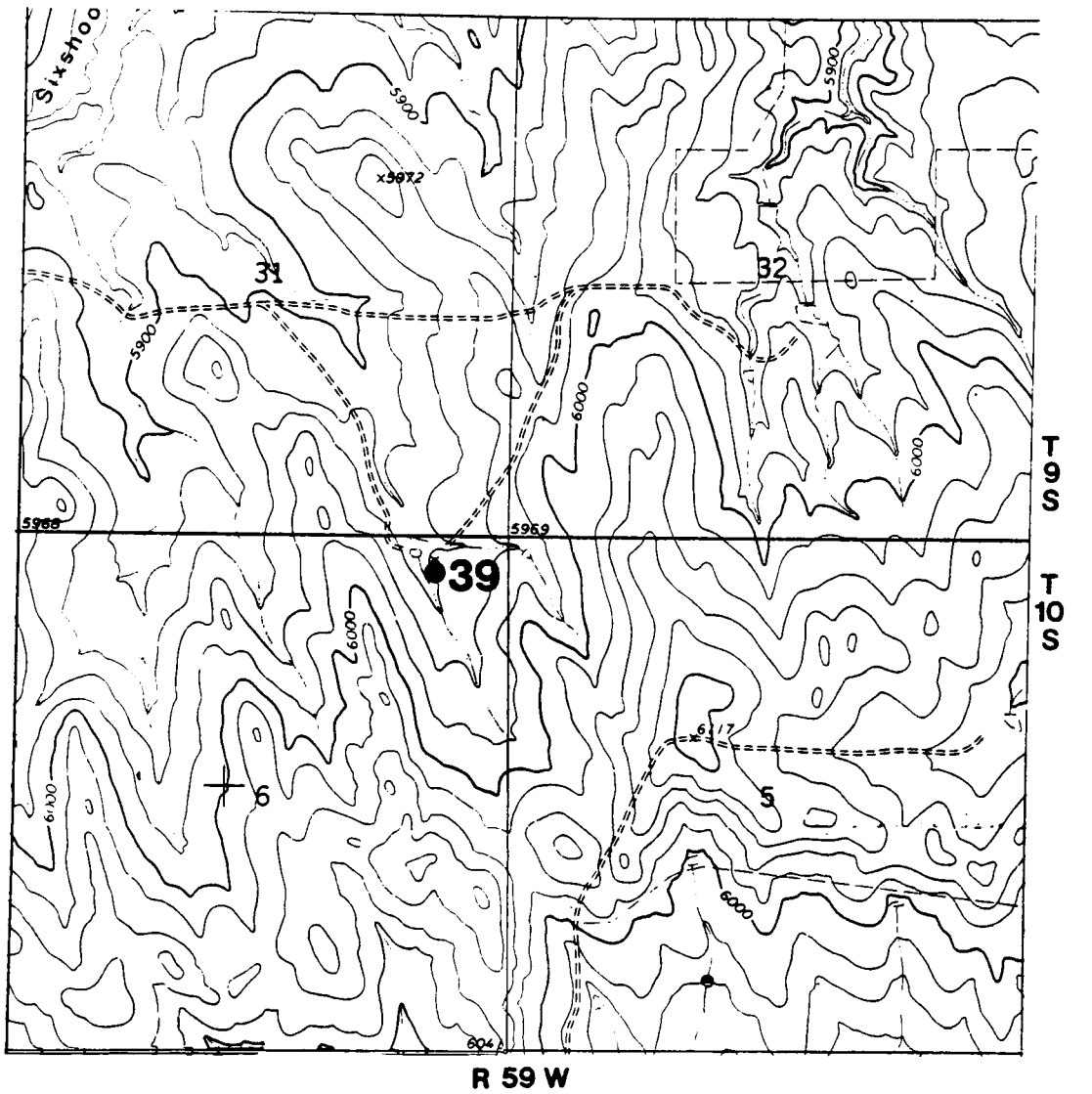
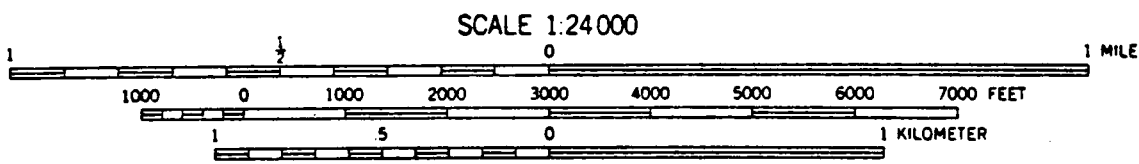
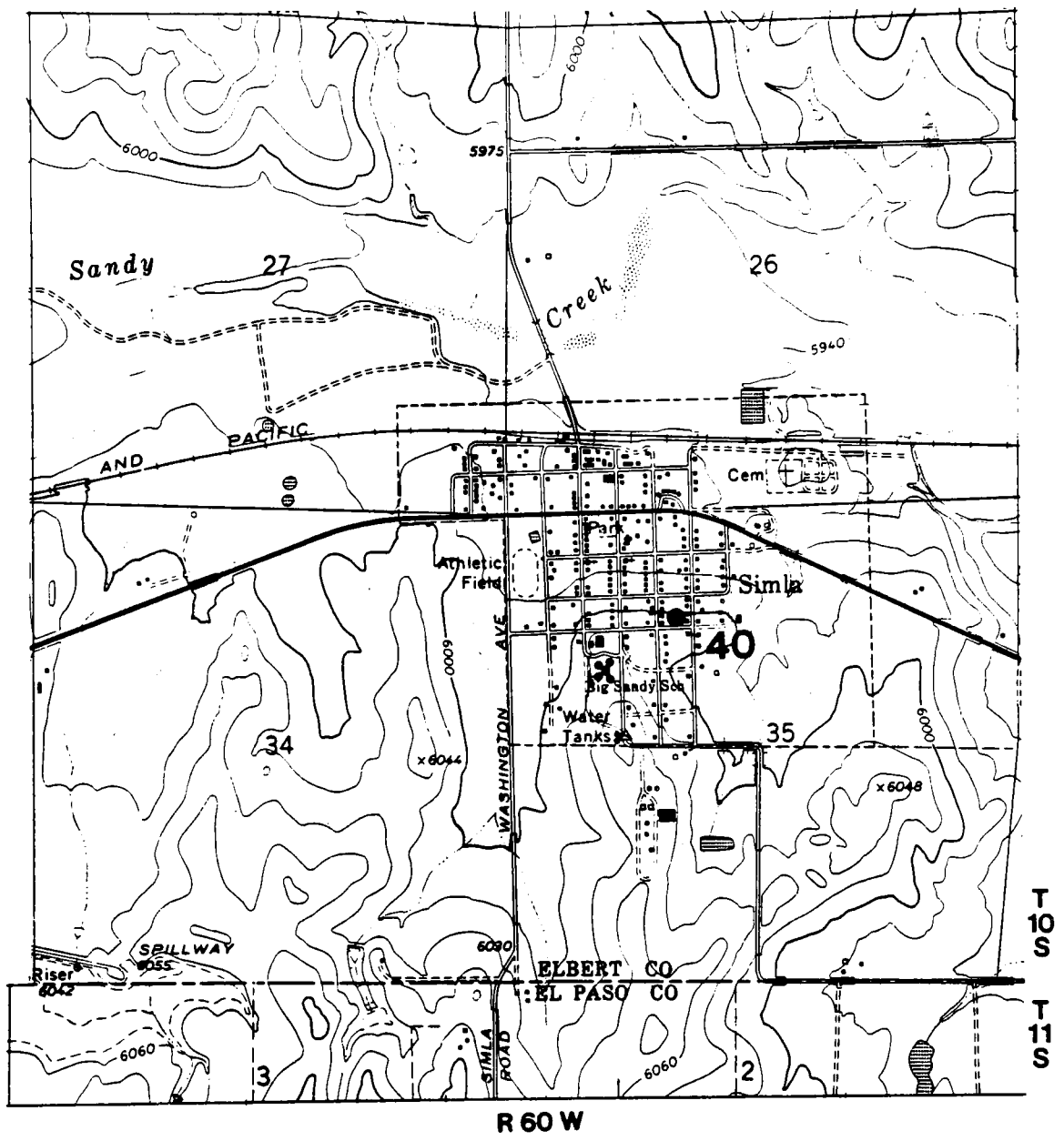


Figure 21. Location of water wells in the Simla quadrangle.



SCALE 1:24 000
 CONTOUR INTERVAL 20 FEET
 DATUM IS MEAN SEA LEVEL

Figure 22. Location of water wells in the Simla quadrangle.

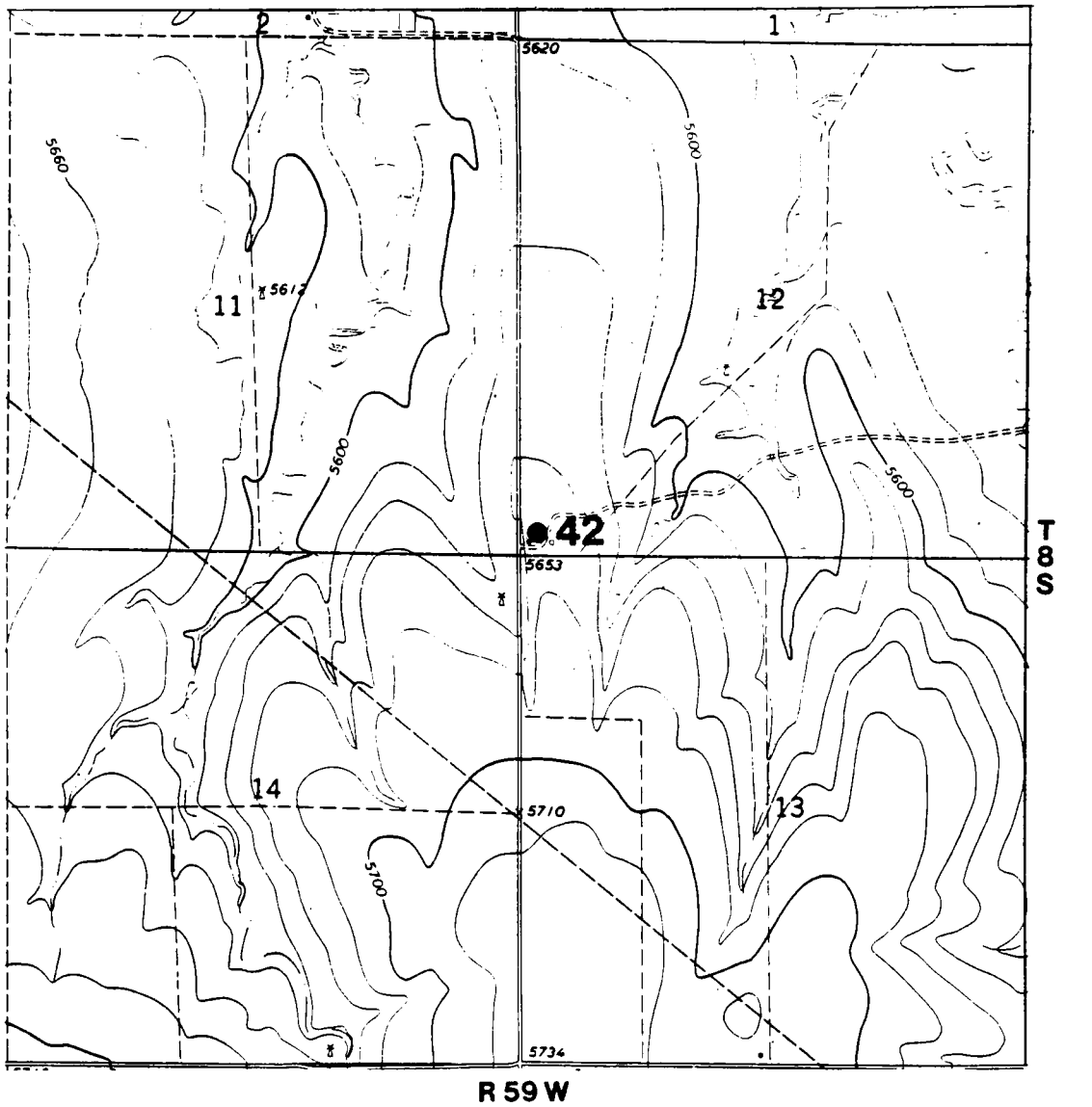


Figure 23. Location of water wells in the Beuck Draw quadrangle.

COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

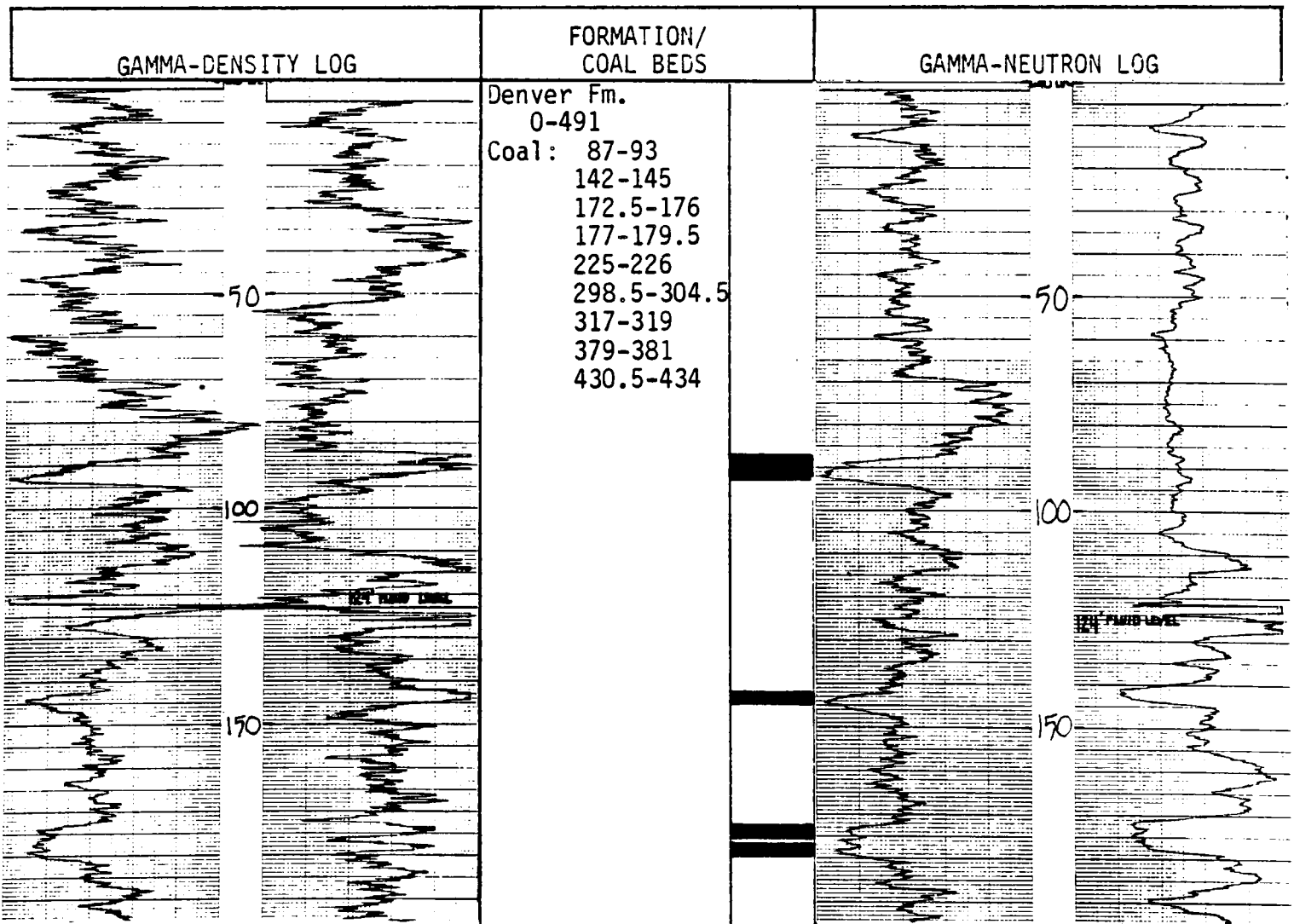
Well No. 1 State-Colorado County-Elbert Date Logged- 11/2/81
 Location: T. 9 S., R. 62 W., sec. NESW 22 Elevation (ft) 6070
 Total depth 602 Logged depth 491 Fluid level 124

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: 0-602 4½" steel (perforated 525-602).

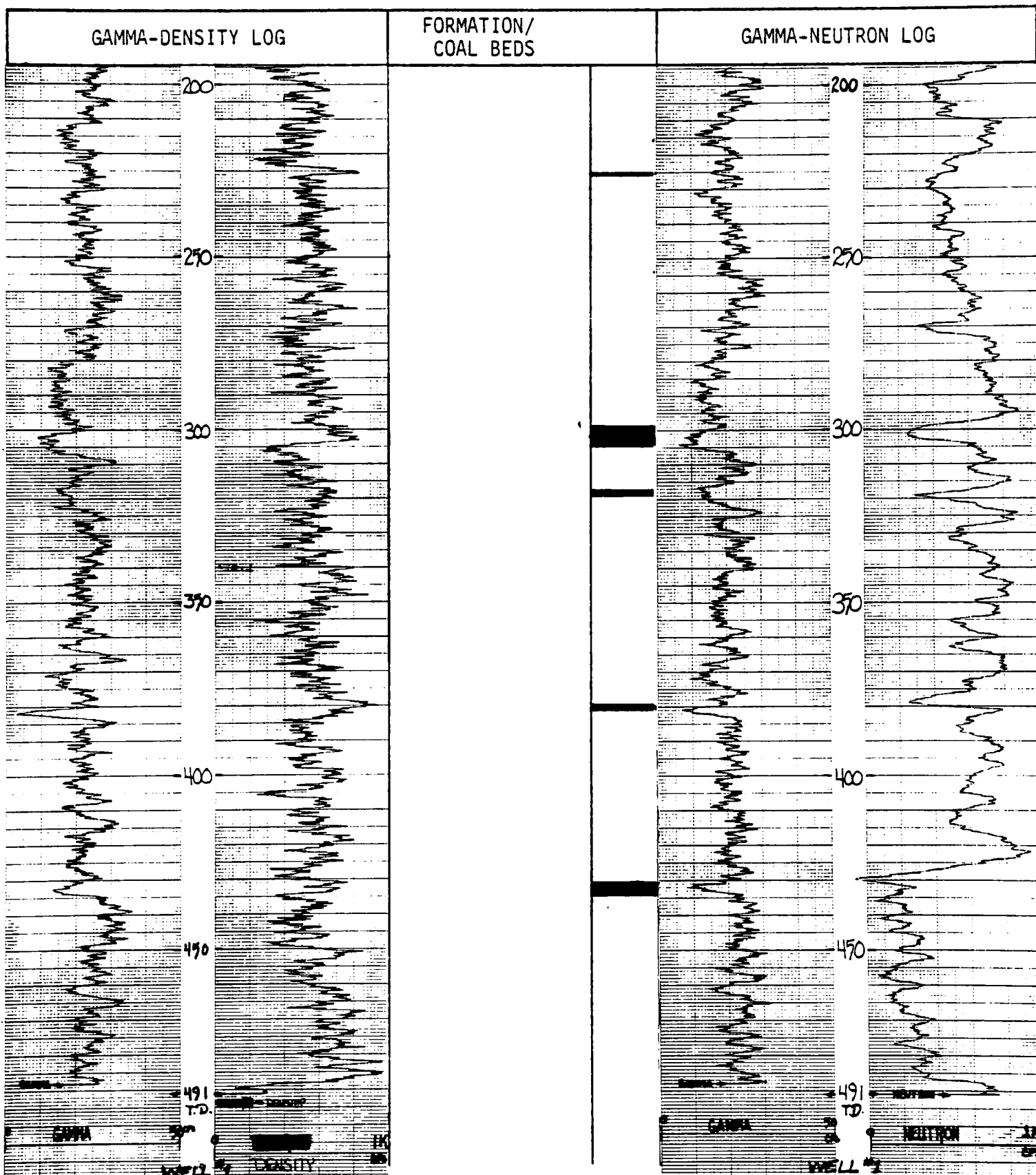
Remarks: Big Gulch Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 1

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COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

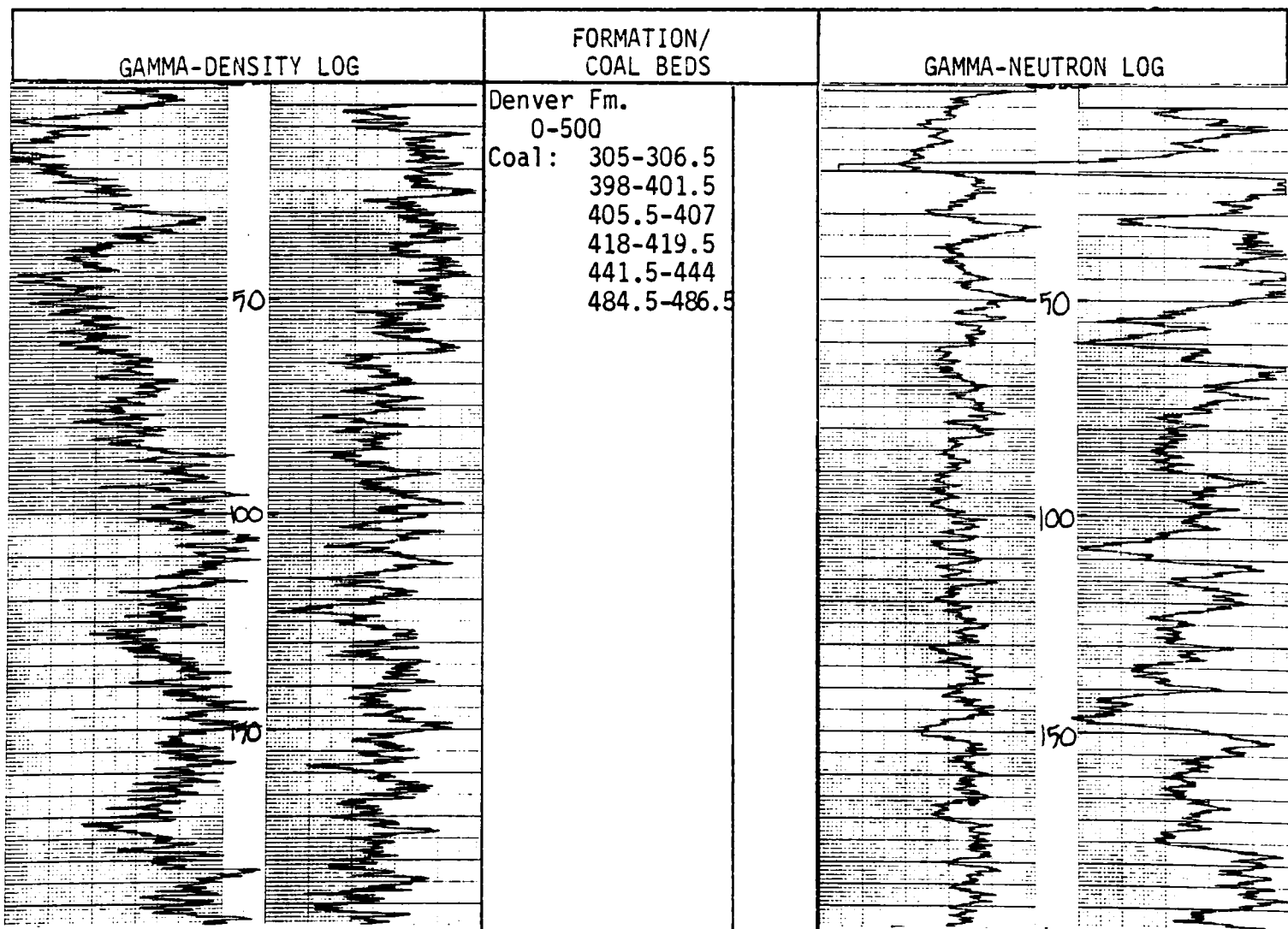
Well No. 2 State-Colorado County- Elbert Date Logged- 11/8/81
 Location: T. 10 S., R. 62 W., sec. NESW 27 Elevation (ft) 6385
 Total depth 750 Logged depth 500 Fluid level 326

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: N/A

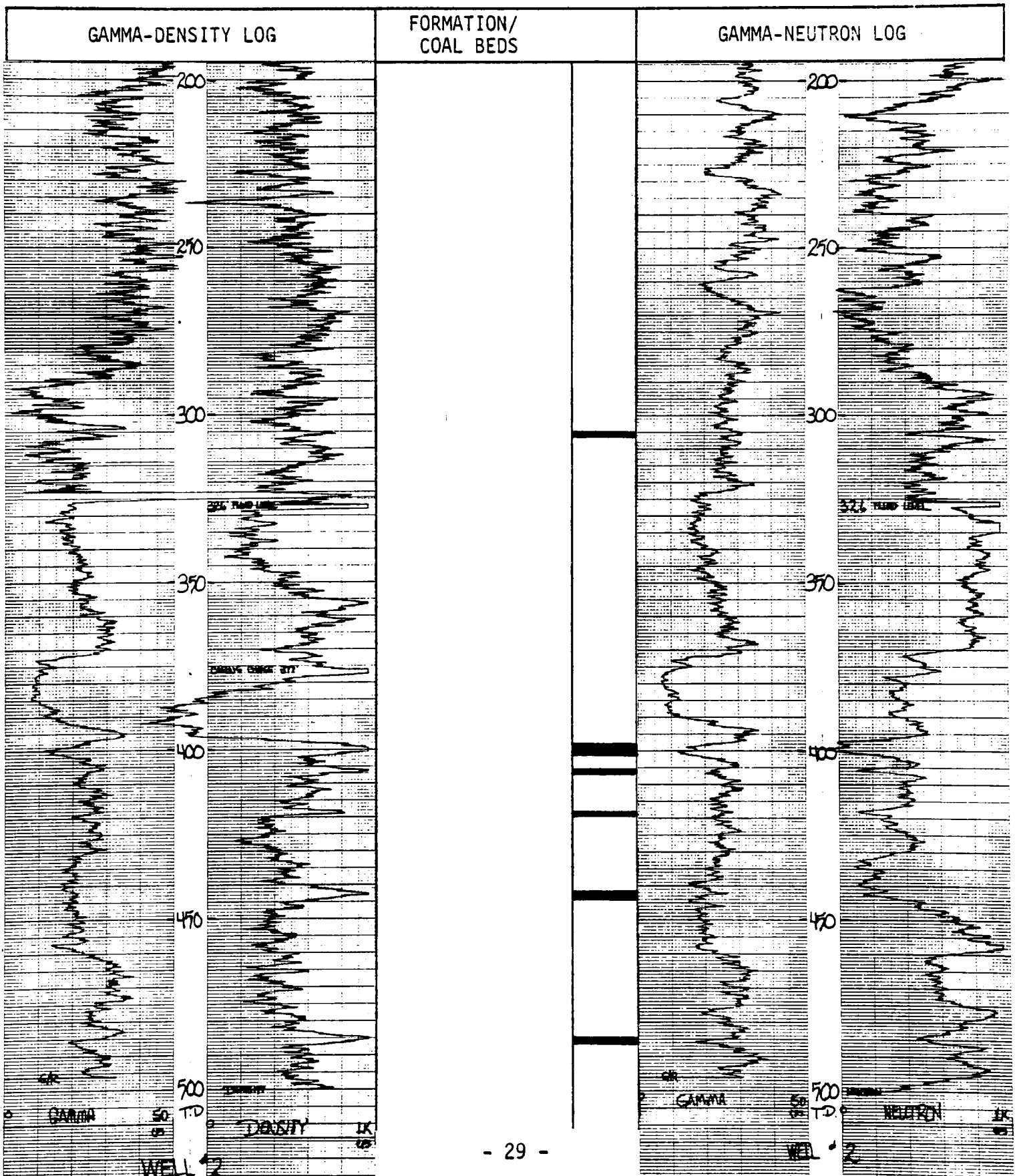
Remarks: Fondis Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 2

-Continued



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

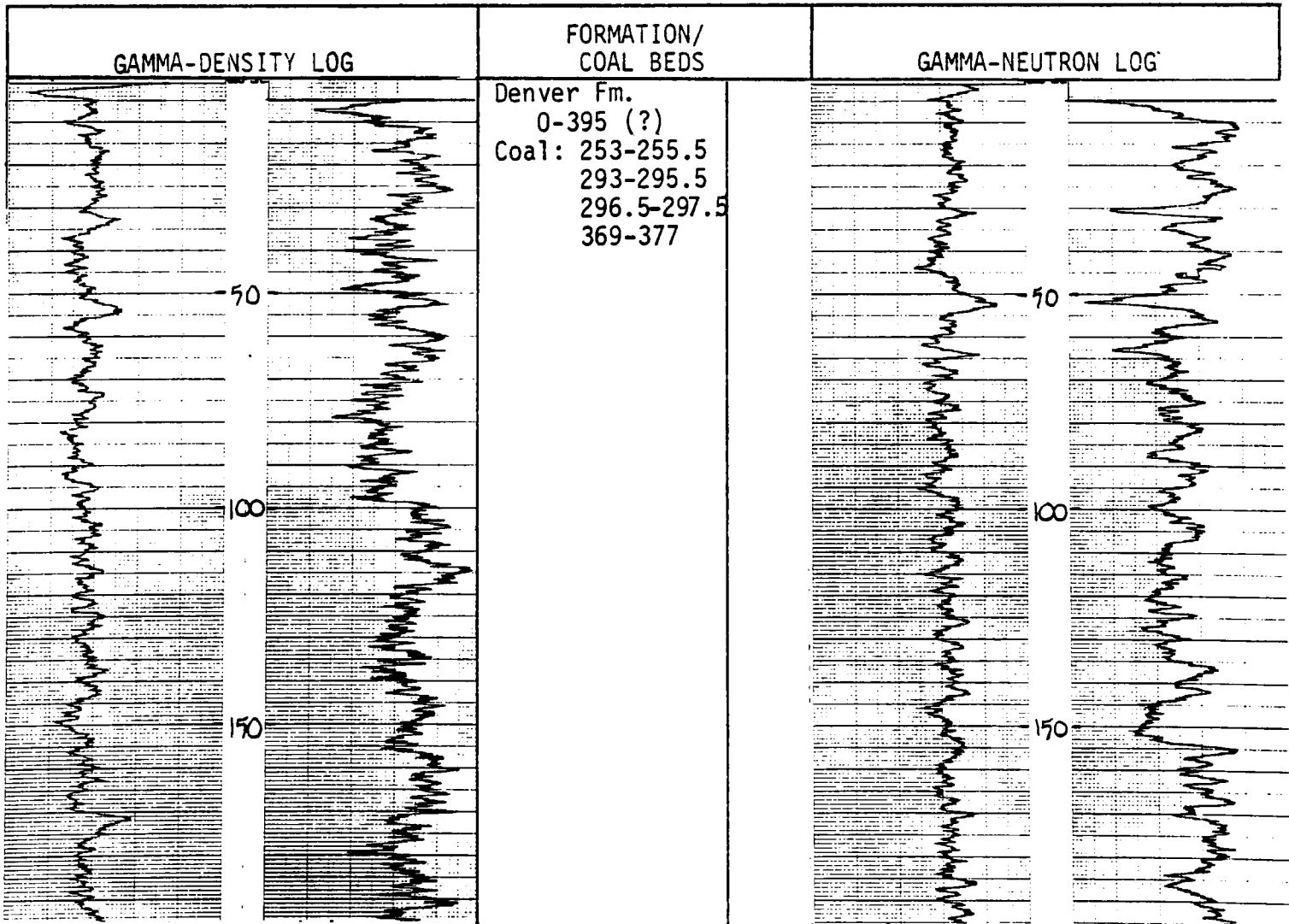
Well No. 4 State-Colorado County- El Paso Date Logged- 11/16/81
 Location: T. 11 S., R. 67 W., sec. SESW 34 Elevation (ft) 6697
 Total depth 1159 Logged depth 991 Fluid level 547

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: 0-972 4½" steel (perforated 772-972)

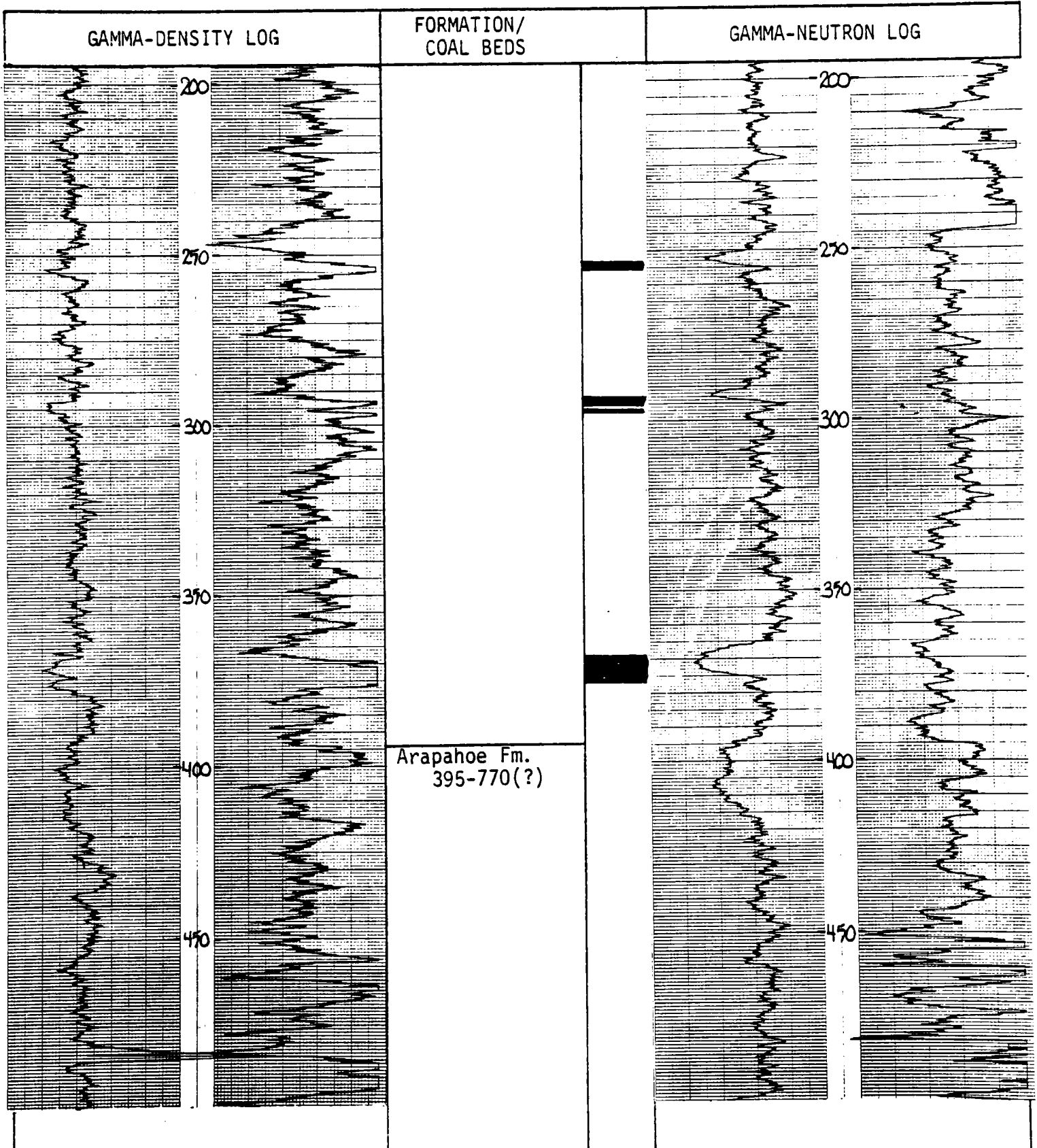
Remarks: Ramah South Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 4

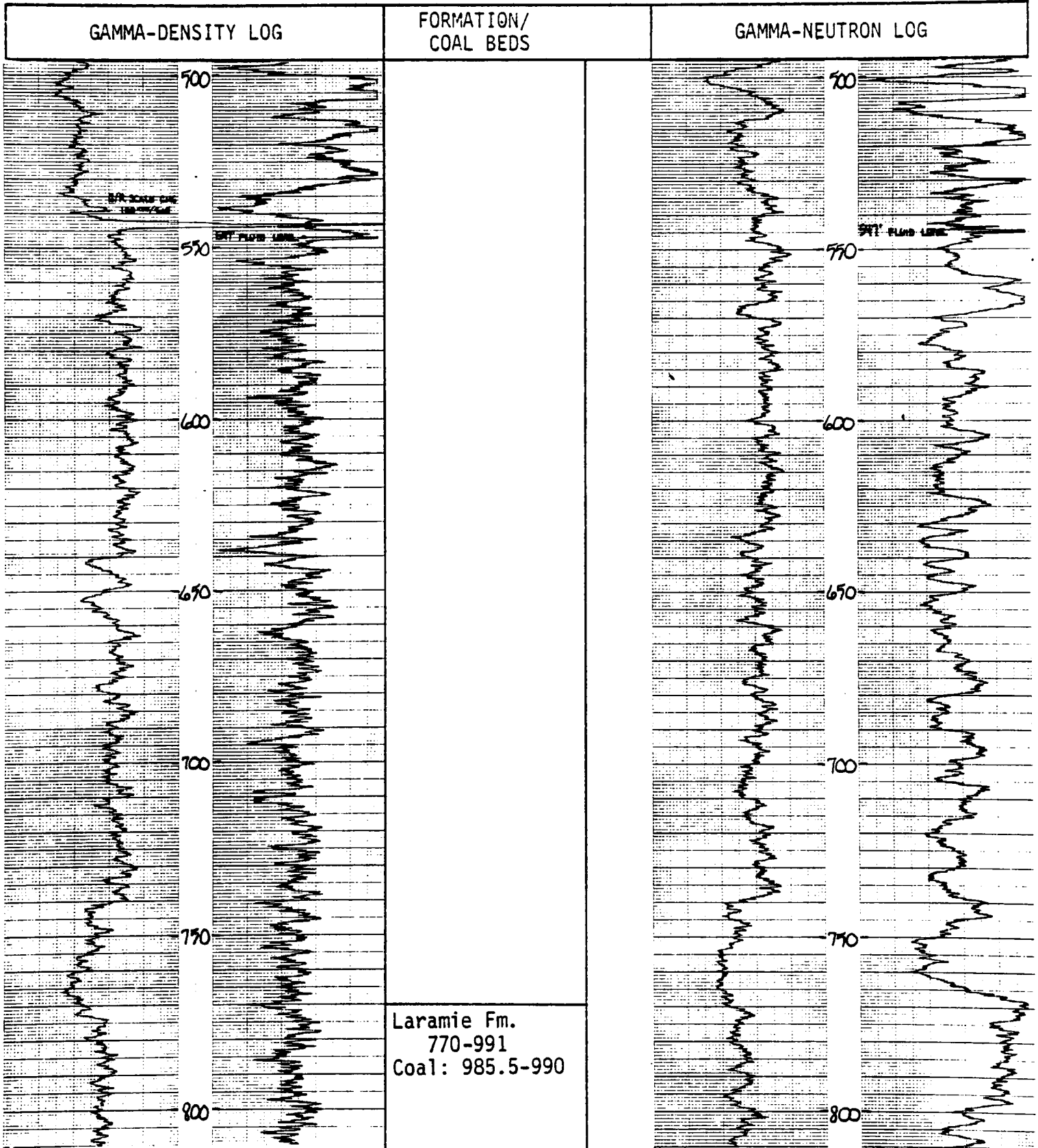
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COLORADO GEOLOGICAL SURVEY

Well No. 4

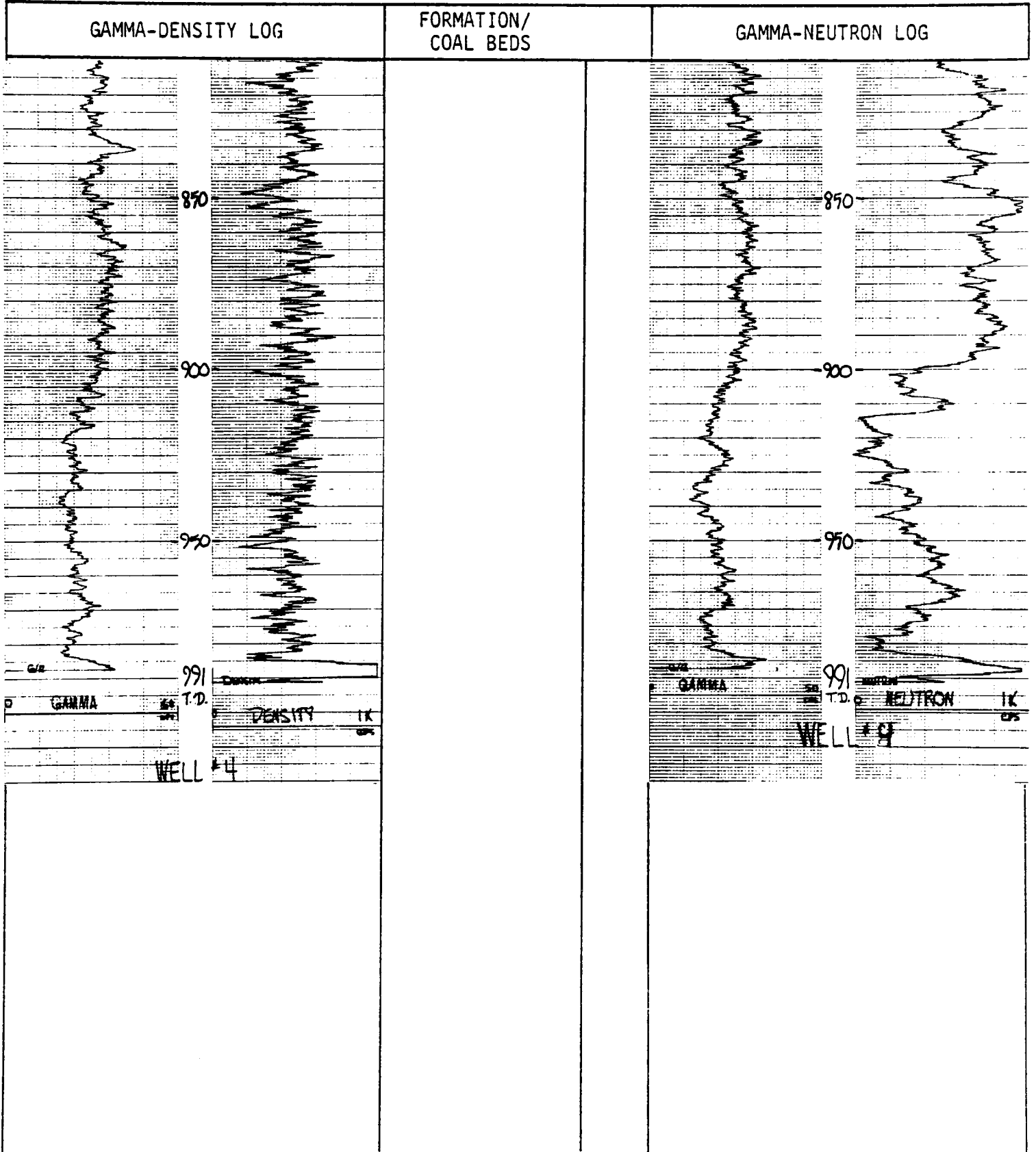
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COLORADO GEOLOGICAL SURVEY

Well No. 4

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COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

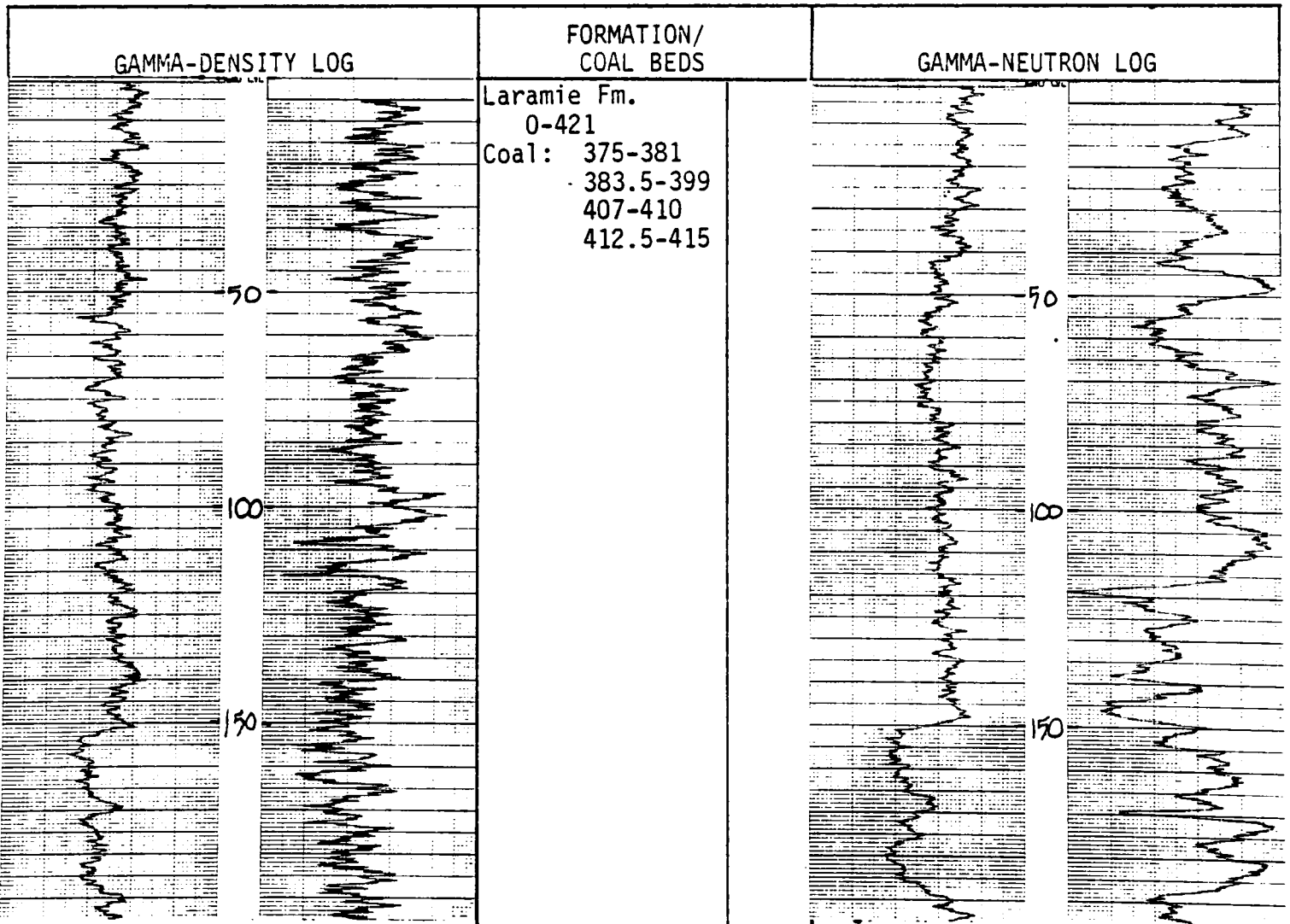
Well No. 5 State-Colorado County- Elbert Date Logged- 11/12/81
 Location: T. 10 S., R. 59 W., sec. SWSW 3 Elevation (ft) 5995
 Total depth 460 Logged depth 421 Fluid level 278

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: 0-391 4½" steel; 391-460 4½" steel (perforated).

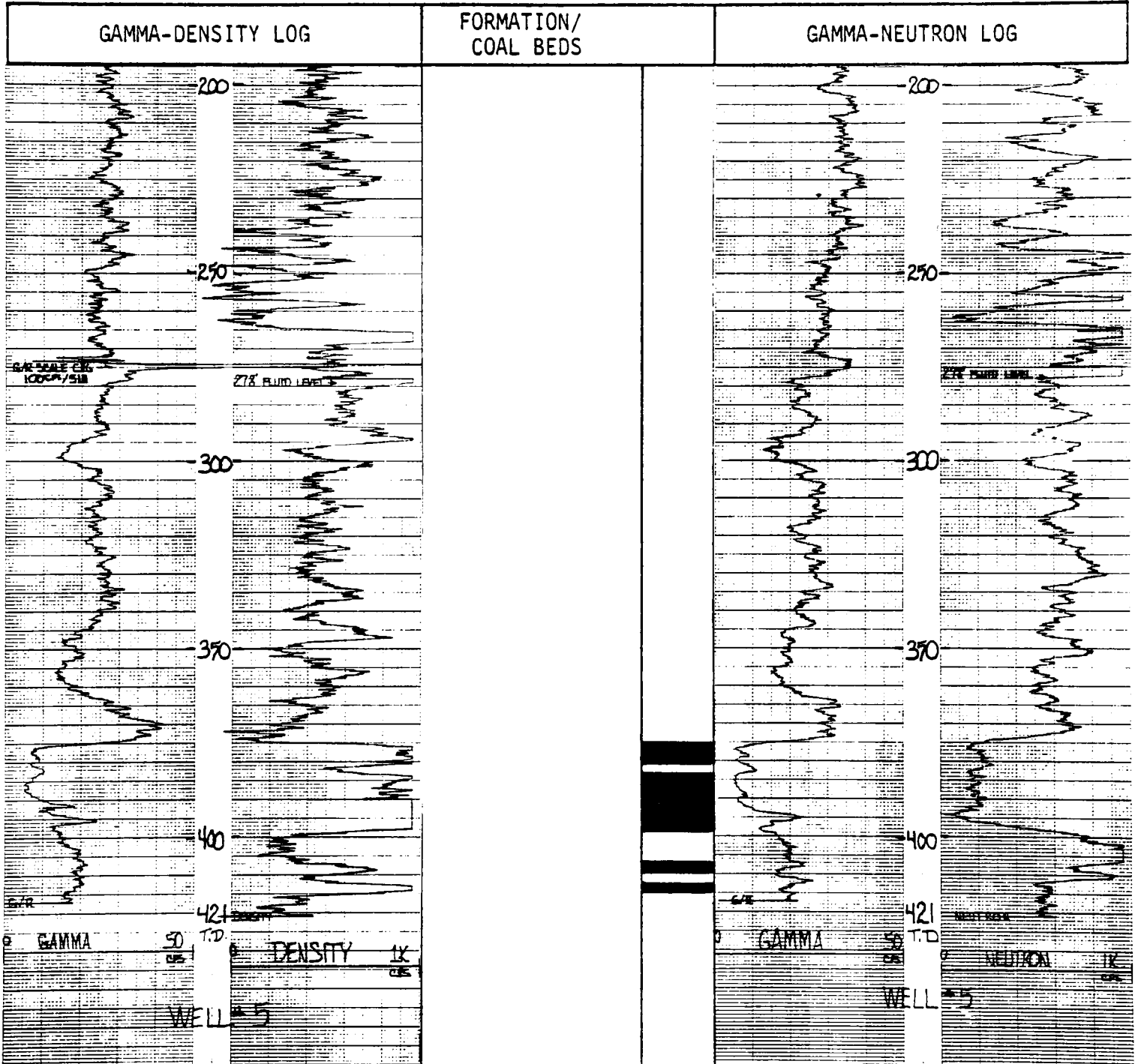
Remarks: Matheson Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 5

-Continued



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

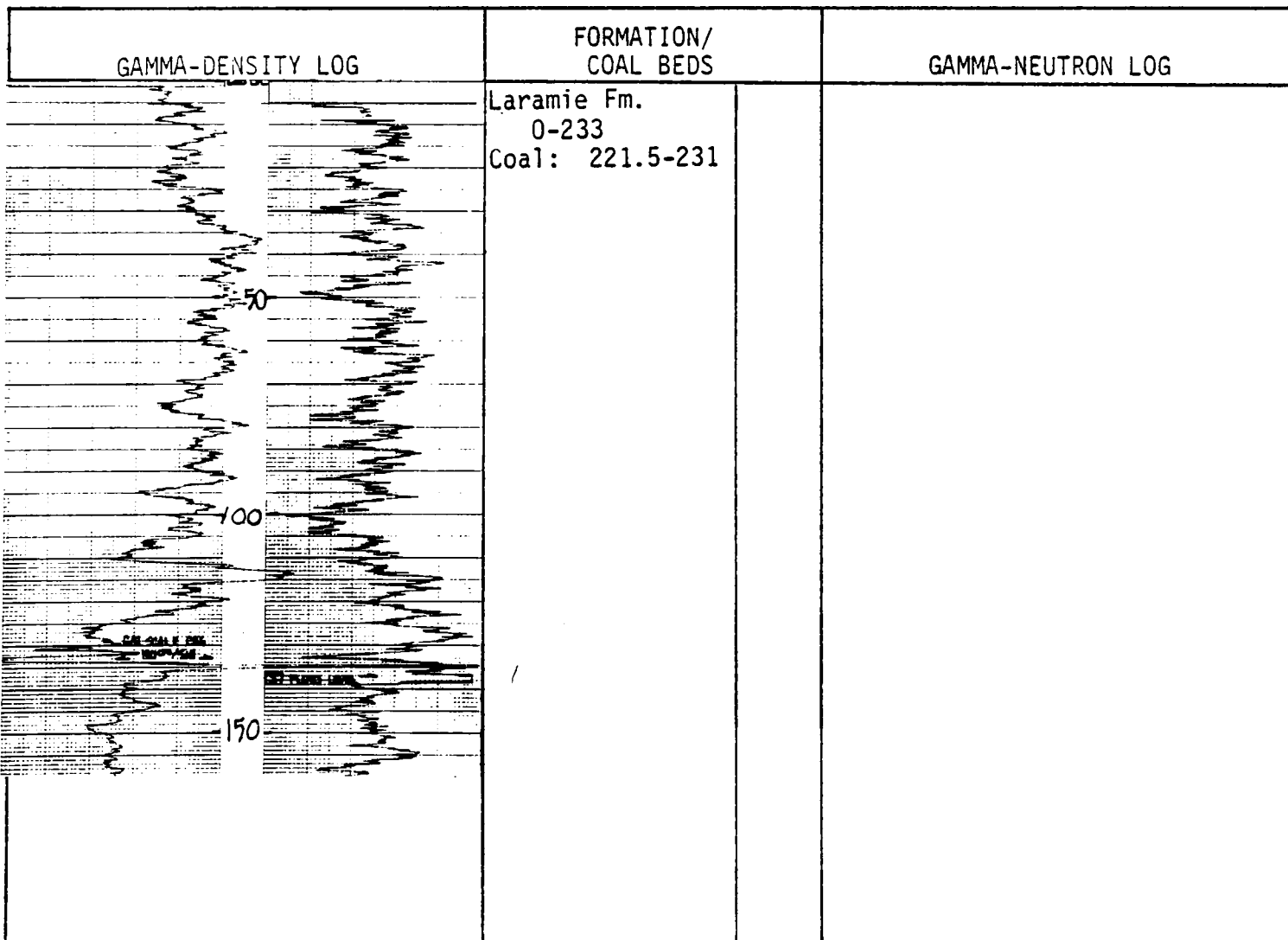
Well No. 6A State-Colorado County- Elbert Date Logged- 11/12/81
 Location: T. 12 S., R. 59 W., sec. NWNW 1 Elevation (ft) 6080
 Total depth 239 Logged depth 233 Fluid level 137

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC		Scale	cps/in	Logging speed		fpm
Neutron:	TC		Scale	cps/in	Logging speed		fpm

Casing Information: 0-150 5" PVC; 150-200 6" PVC (perforated).

Remarks: Matheson SW Quadrangle. No neutron log run due to plastic casing.



COLORADO GEOLOGICAL SURVEY

Well No. 6A

-Continued

GAMMA-DENSITY LOG	FORMATION/ COAL BEDS	GAMMA-NEUTRON LOG
<p>GAMMA $\frac{cp}{in}$</p> <p>DENSITY $\frac{g}{cc}$</p> <p>WELL # 6A</p>		

COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

Well No. 7 State-Colorado County- Elbert Date Logged- 11/2/81

Location: T. 9 S., R. 62 W., sec. NWSW 15 Elevation (ft) 6010

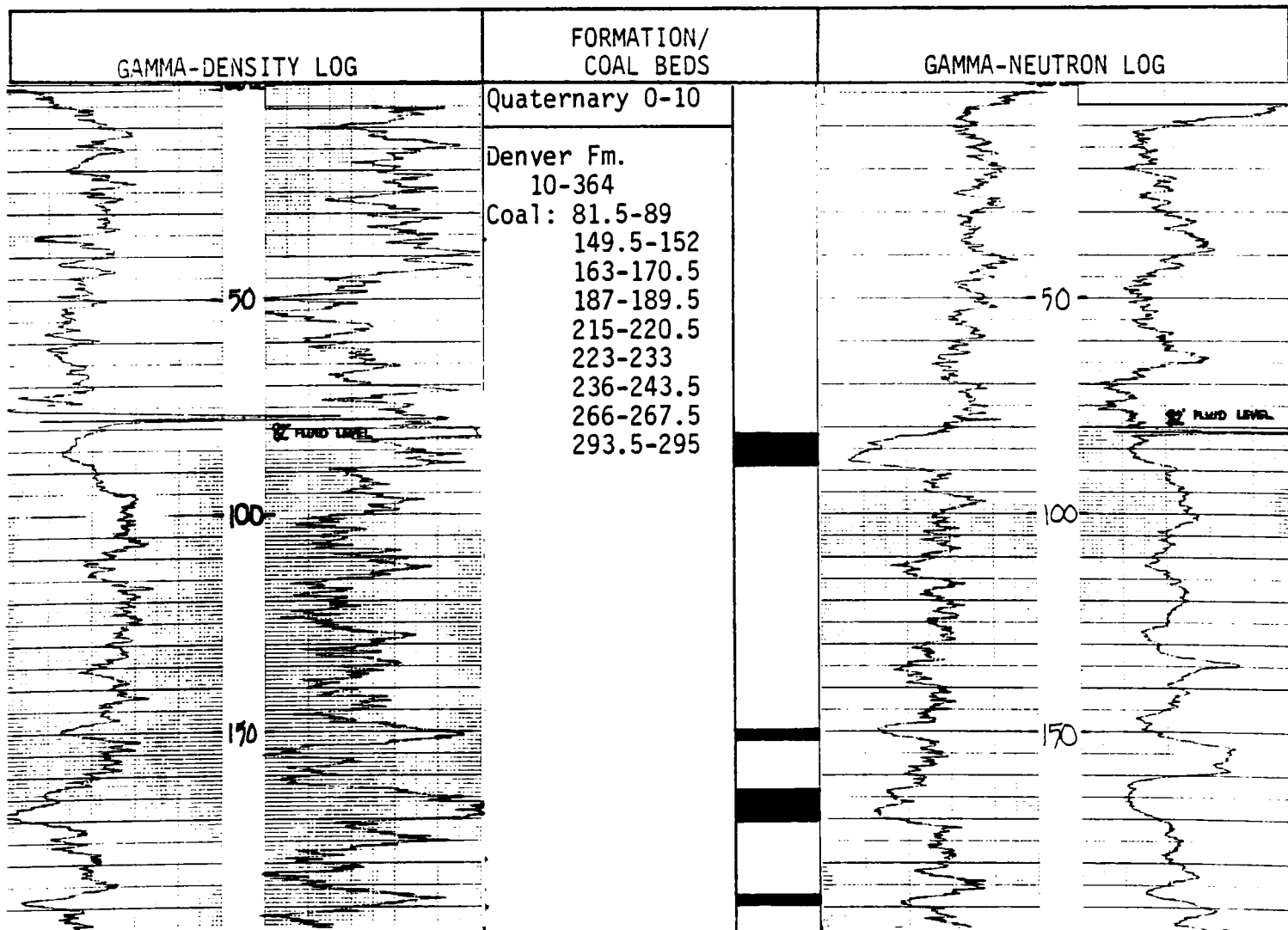
Total depth 401 Logged depth 364 Fluid level 82
242 (neutron)

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: 0-250 6 5/8" steel; 301-401 4½" steel (perforated).

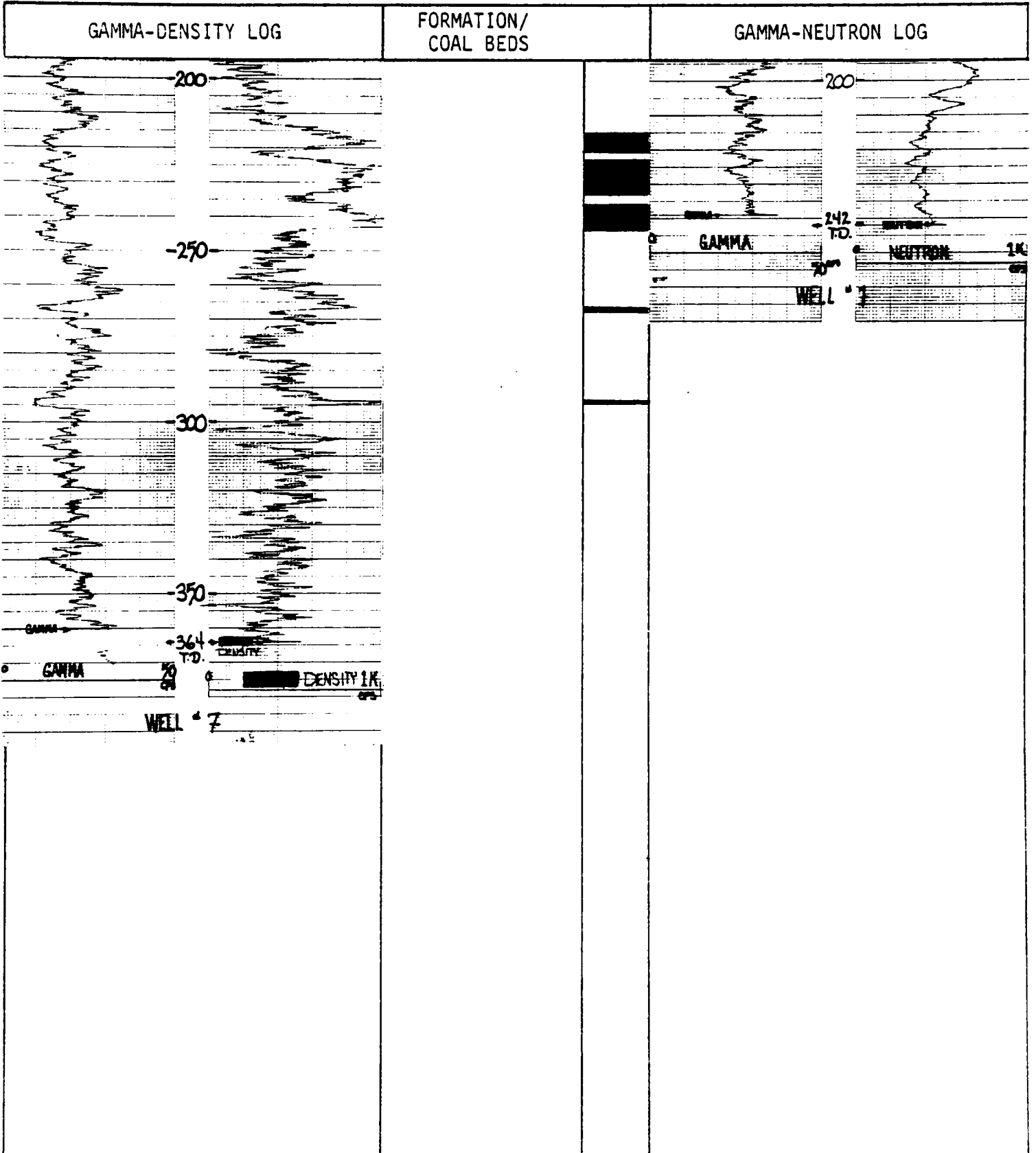
Remarks: Big Gulch Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 7

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COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

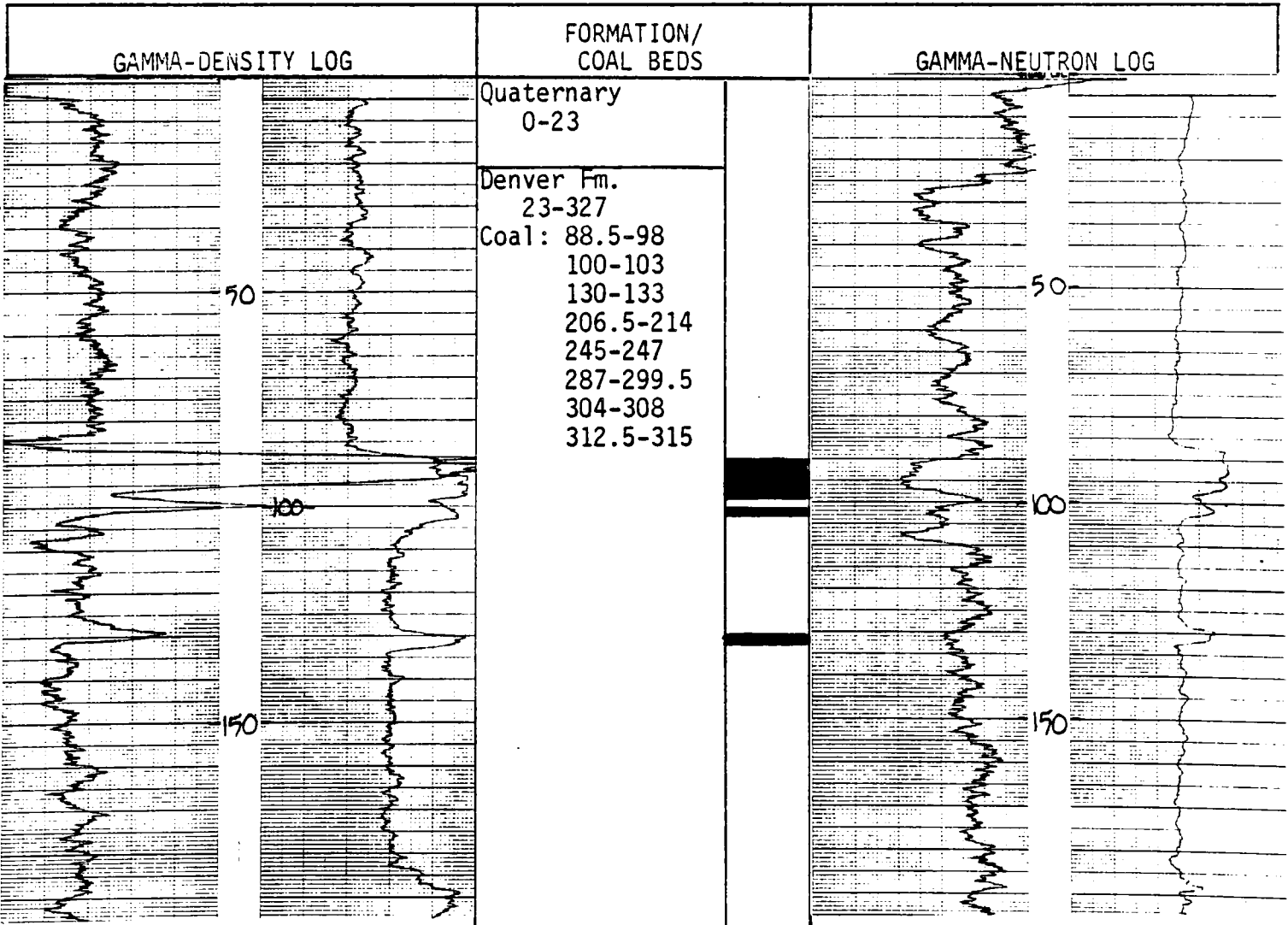
Well No. 10A State-Colorado County- Elbert Date Logged- 11/9/81
 Location: T. 8 S., R. 61 W., sec. SWNW 32 Elevation (ft) 6070
 Total depth 335 Logged depth 327 Fluid level 208

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: 0-282 6" steel; 282-335 6" steel (perforated).

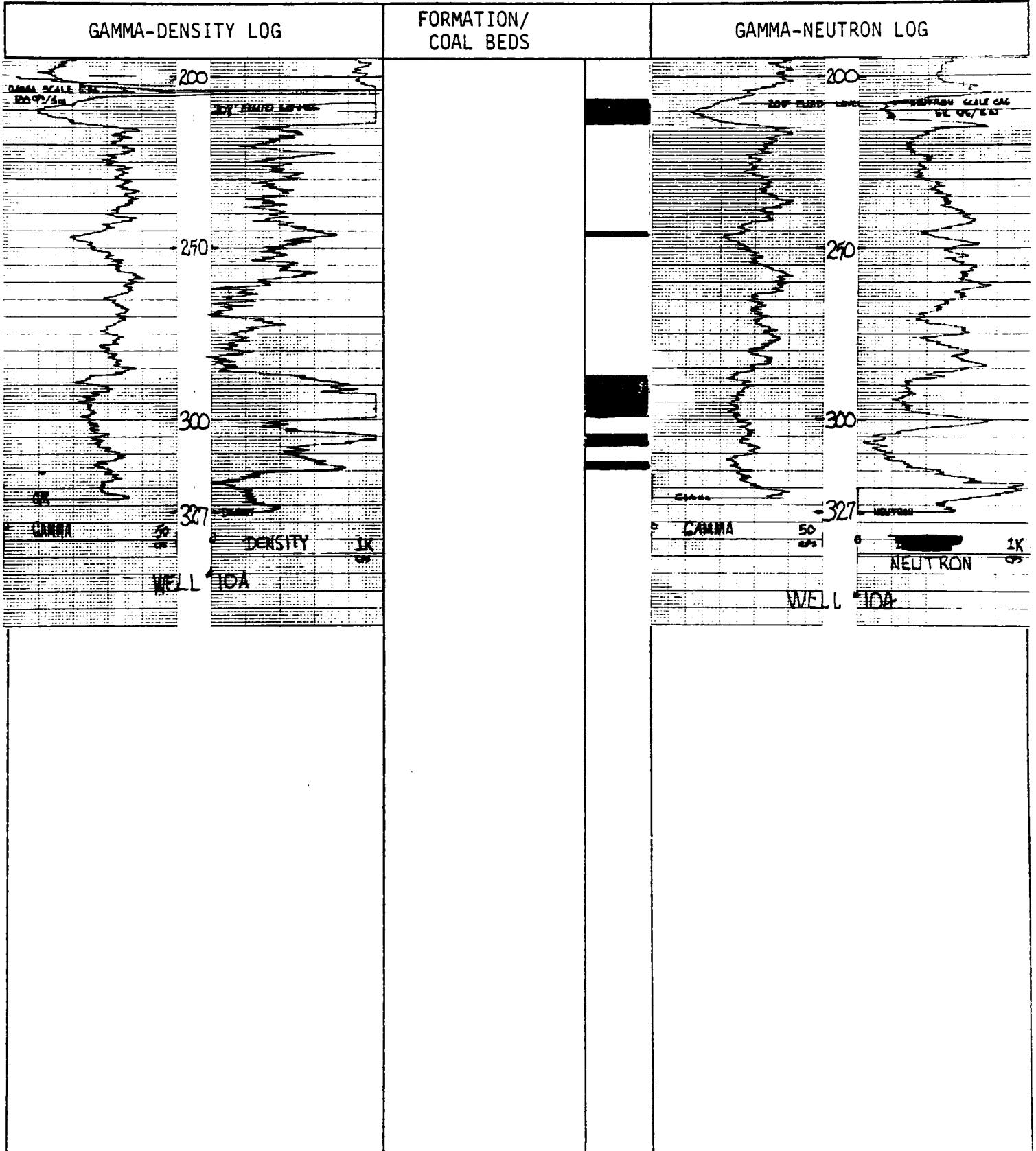
Remarks: Bijou SW Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 10A

-Continued



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

Well No. 12 State-Colorado County- Elbert Date Logged- 11/5/81
 Location: T. 9 S., R. 61 W., sec. SWSE 13 Elevation (ft) 5930
 Total depth 36 Logged depth 36 Fluid level 17

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC		Scale	cps/in	Logging speed		fpm
Neutron:	TC		Scale	cps/in	Logging speed		fpm

Casing Information: N/A

Remarks: Bijou SW Quadrangle. No neutron log run.

GAMMA-DENSITY LOG	FORMATION/ COAL BEDS	GAMMA-NEUTRON LOG
<p>FLUID LEVEL 25 36 GAMMA 50 cps DENSITY 1K 2.5</p>	<p>Quaternary 0-9 Denver Fm. 9-36 Coal: 30.5-35.5</p>	
<p>WELL #12</p>		

COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

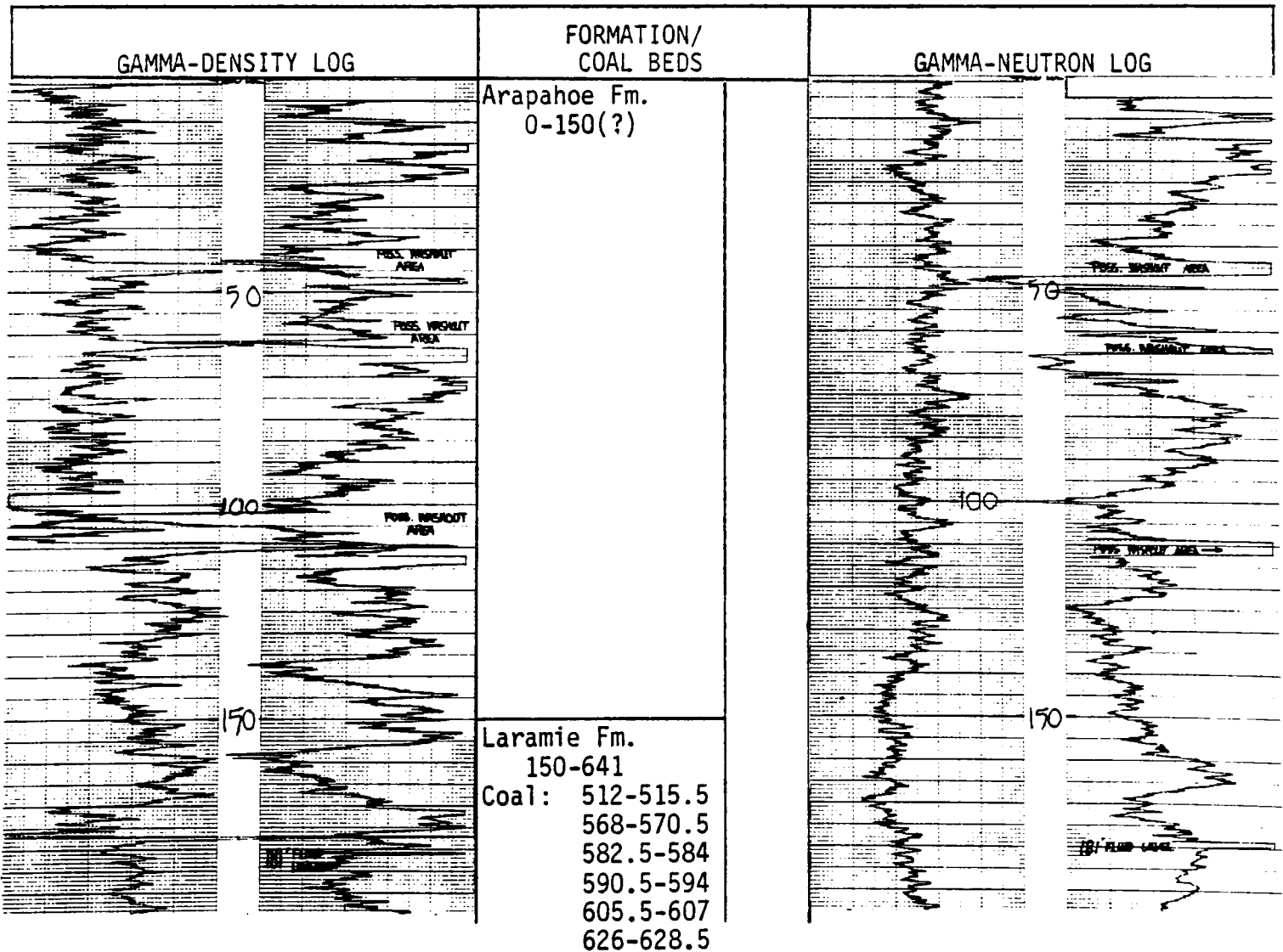
Well No. 17 State-Colorado County- Elbert Date Logged- 11/3/81
 Location: T. 6 S., R. 60 W., sec. NWNW 21 Elevation (ft) 5602
 Total depth 730 Logged depth 679 Fluid level 181

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: 0-635 6" steel; 635-730 4½" steel (perforated).

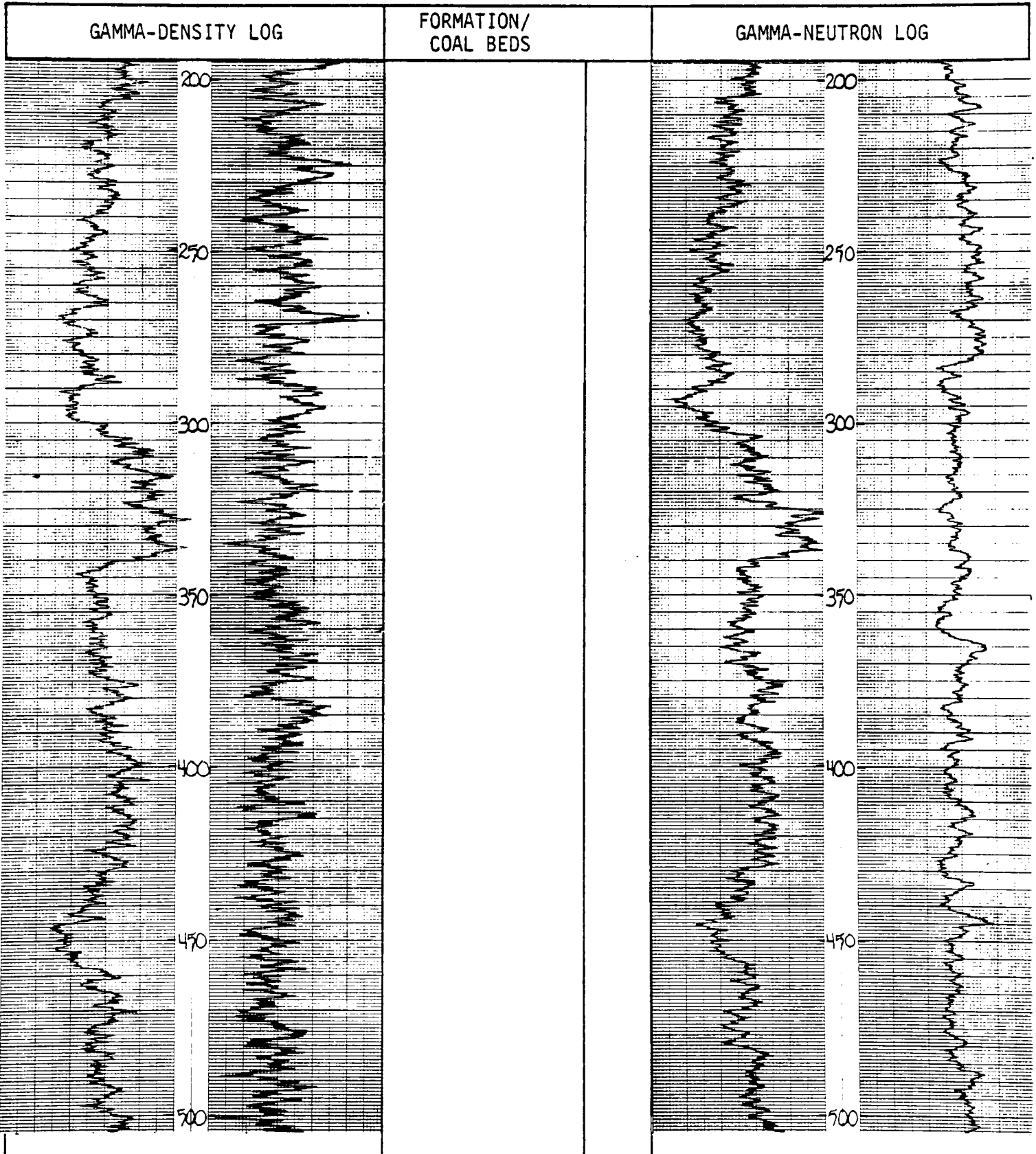
Remarks: Deer Trail Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 17

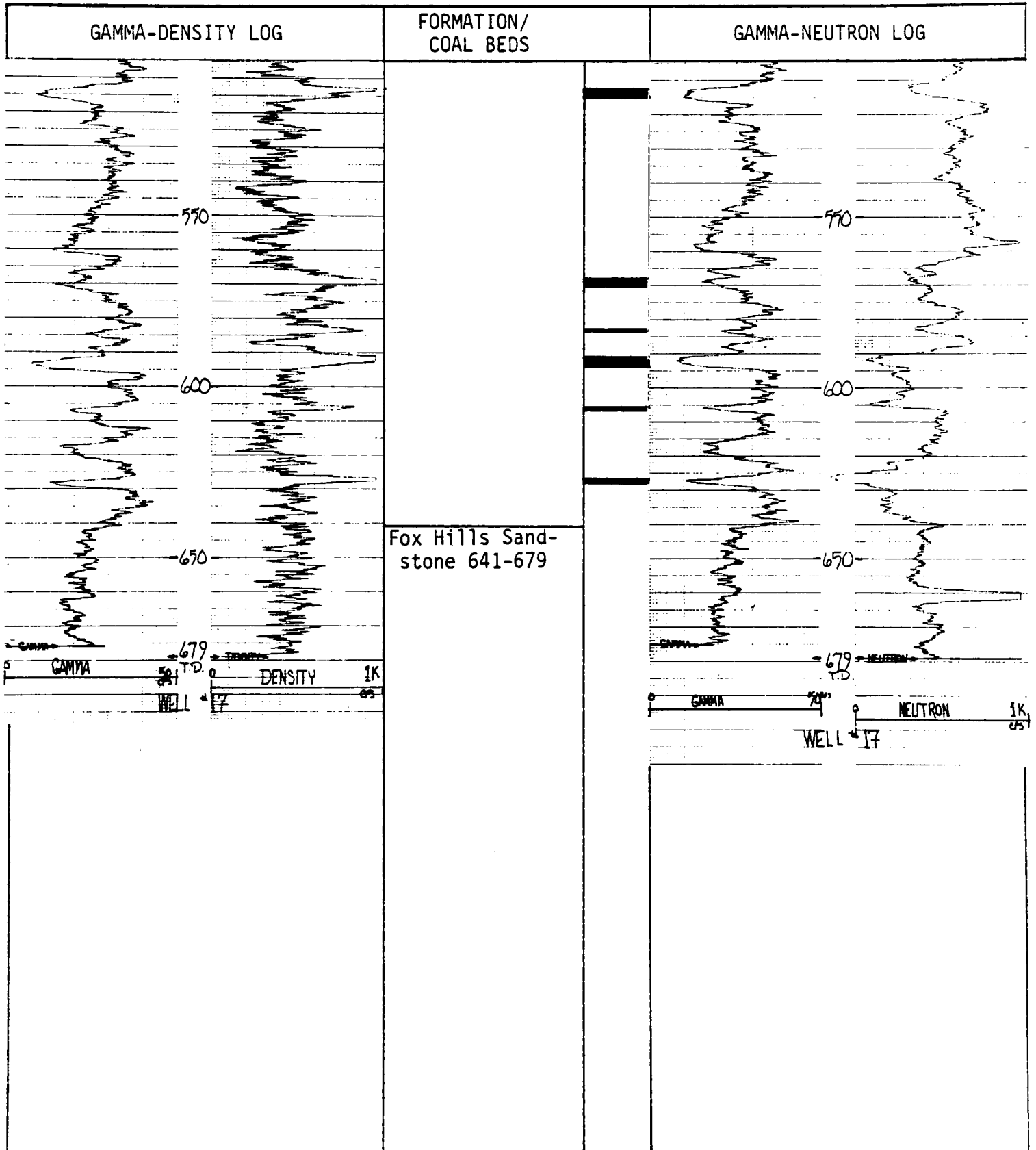
-Continued



COLORADO GEOLOGICAL SURVEY

Well No. 17

-Continued



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

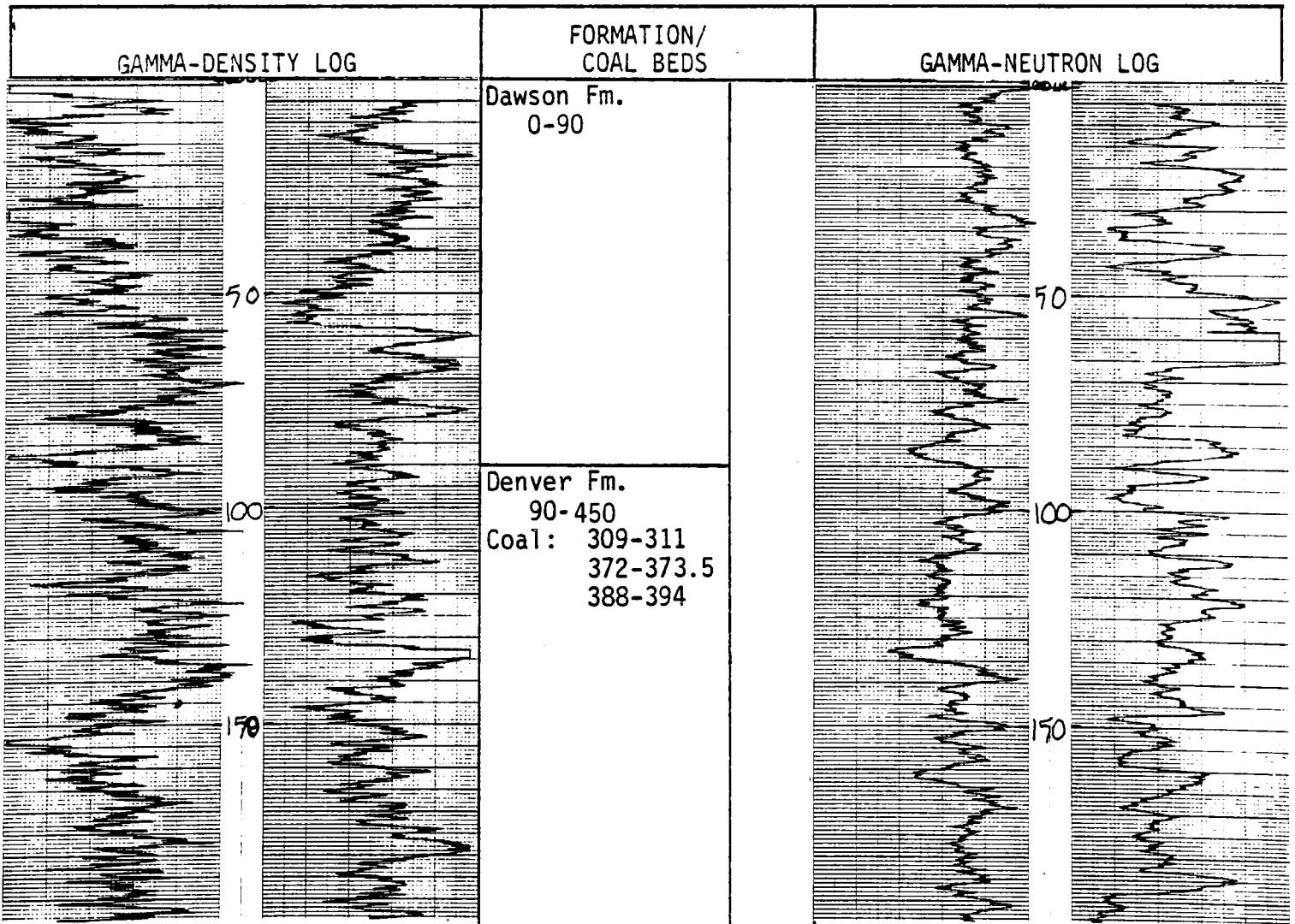
Well No. 22 State-Colorado County- Elbert Date Logged- 11/4/81
 Location: T. 6 S., R. 61 W., sec. SWNE 34 Elevation (ft) 6000
 Total depth 650 Logged depth 628 Fluid level 407

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: 0-300 6" steel; 300-495 4" steel; 495-650 4" steel (perforated).

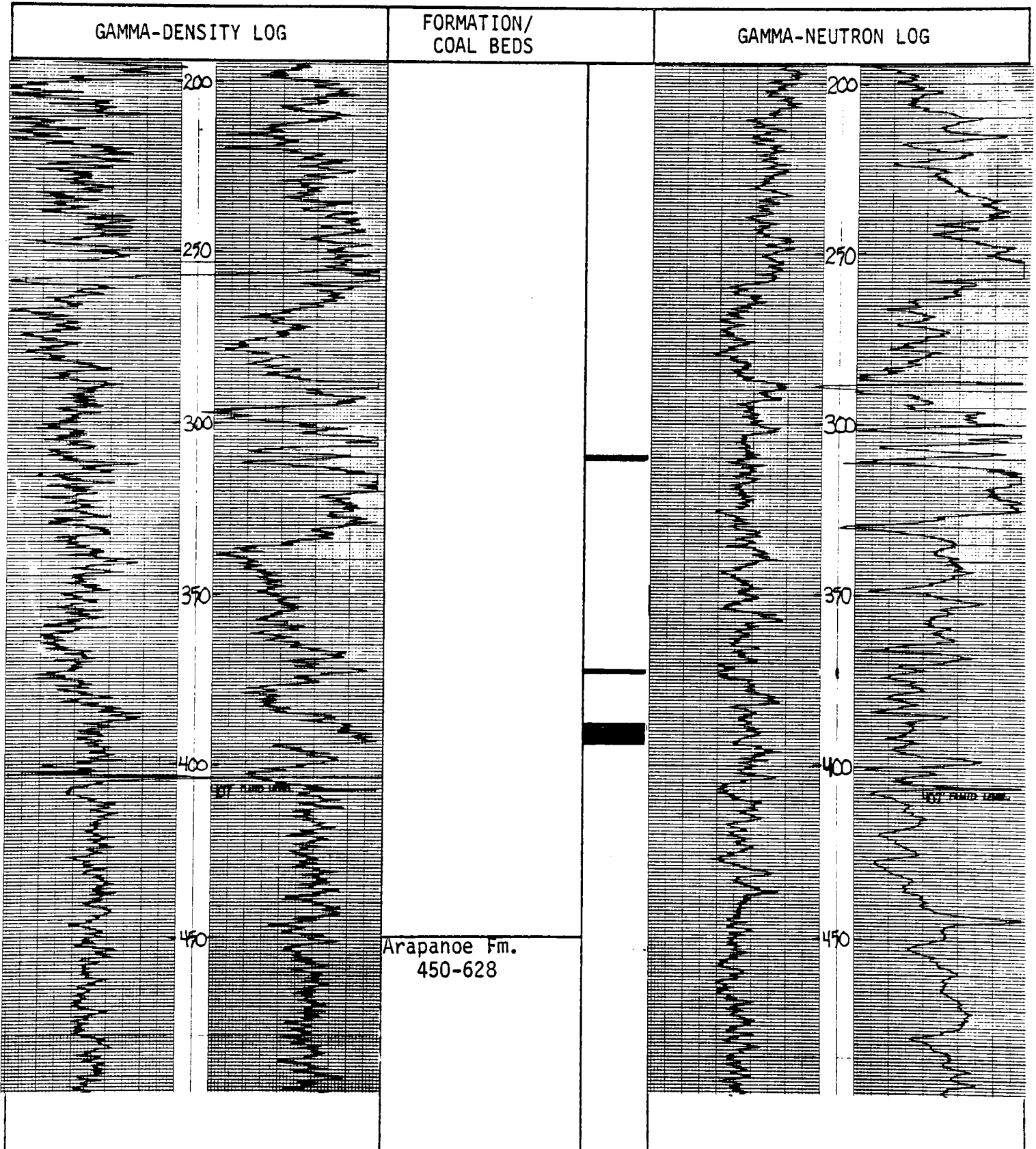
Remarks: Bijou Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 22

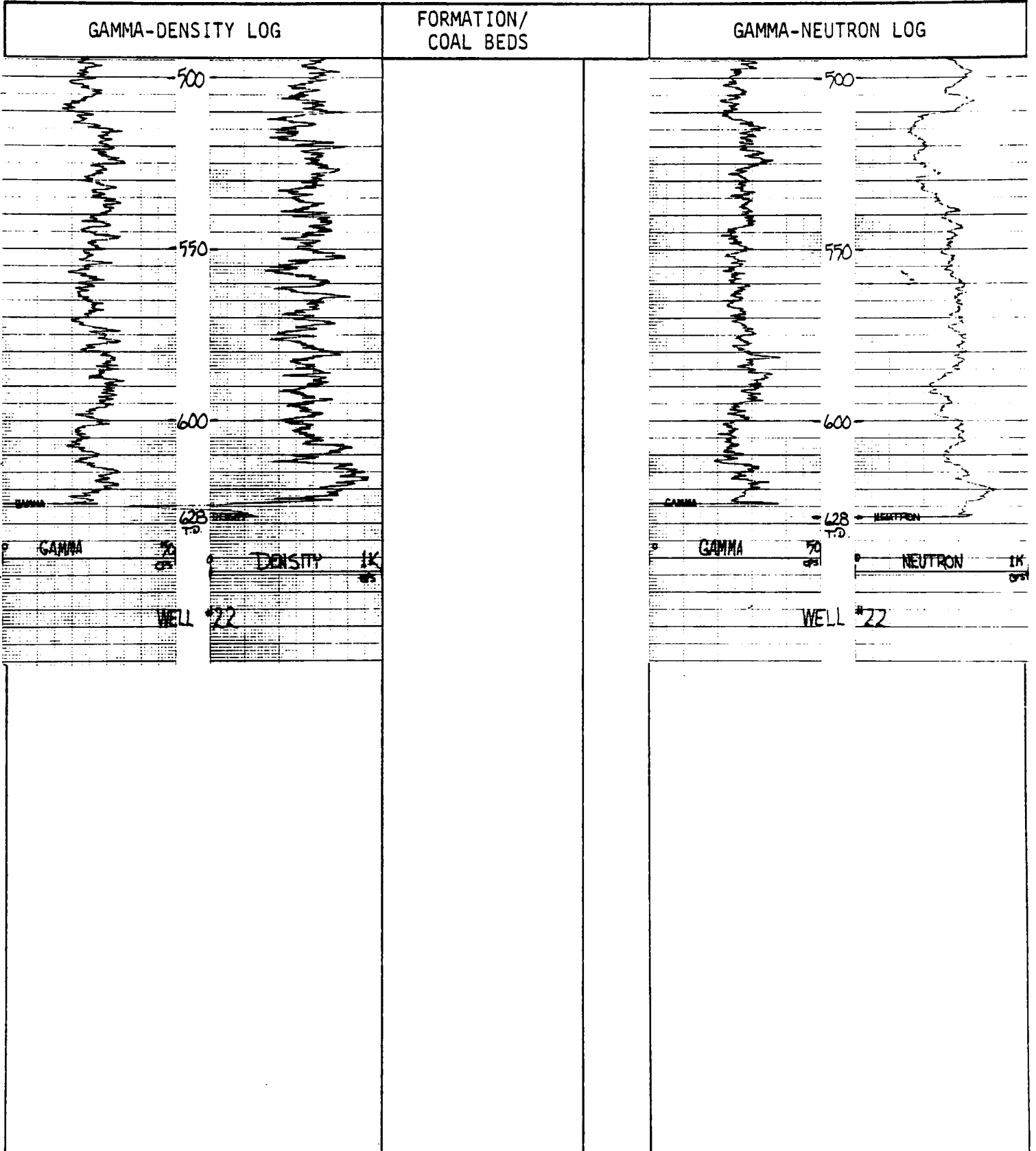
-Continued



COLORADO GEOLOGICAL SURVEY

Well No. 22

-Continued



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

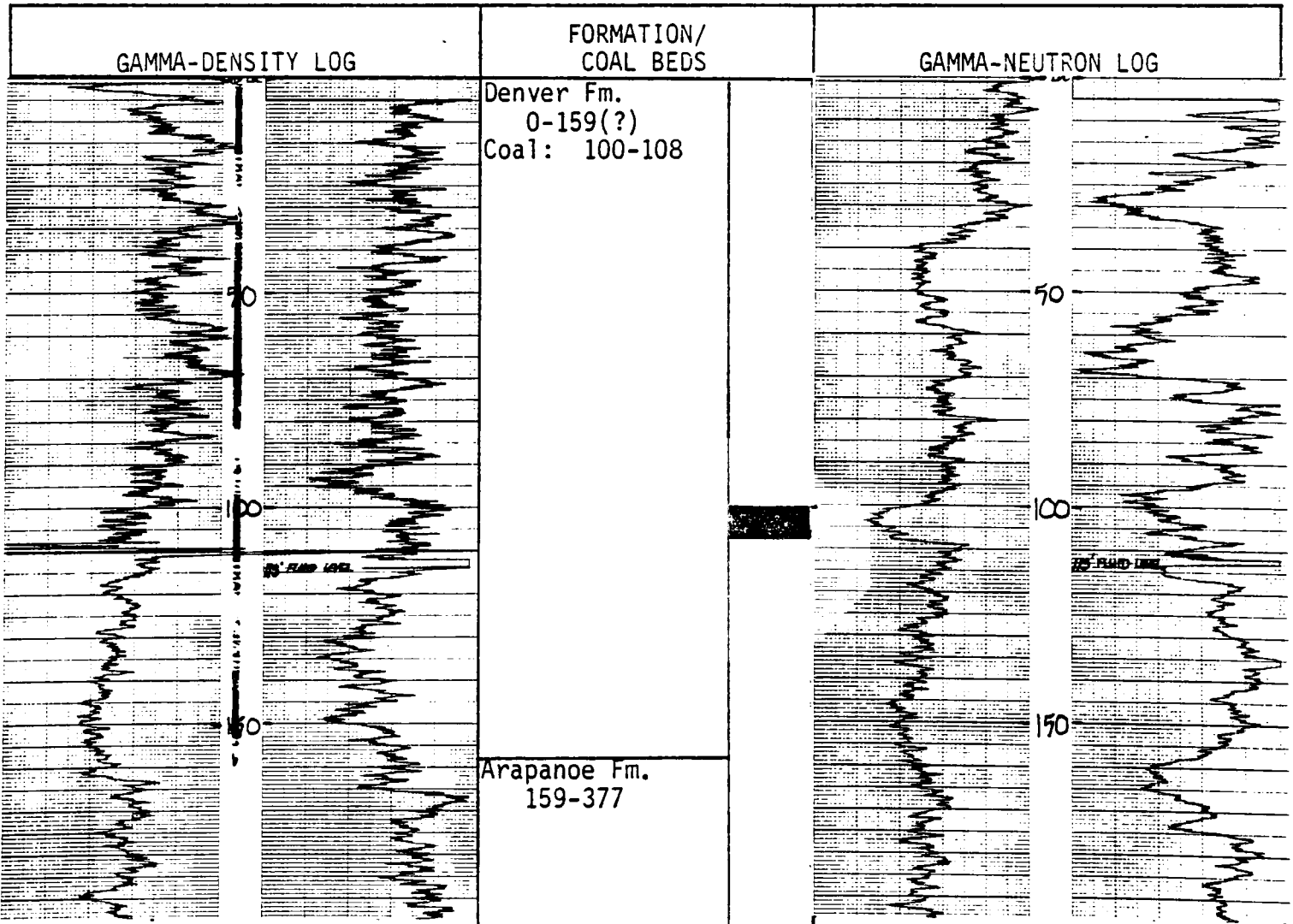
Well No. 22B State-Colorado County- Elbert Date Logged- 11/9/81
 Location: T. 8 S., R. 61 W., sec. NWSE 29 Elevation (ft) 5970
 Total depth 390 Logged depth 377 Fluid level 113

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: N/A

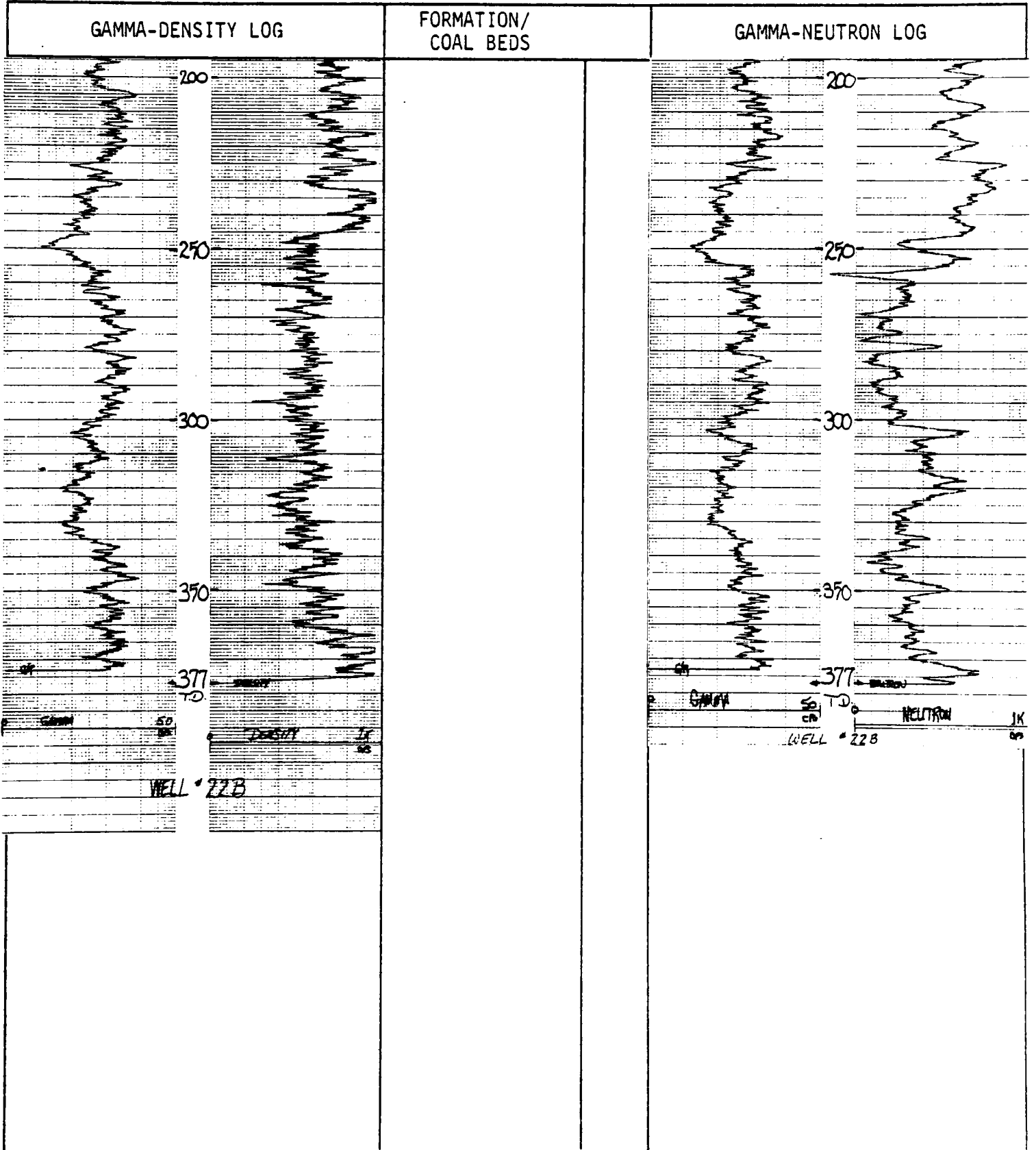
Remarks: Bijou SW Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 22B

-Continued



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

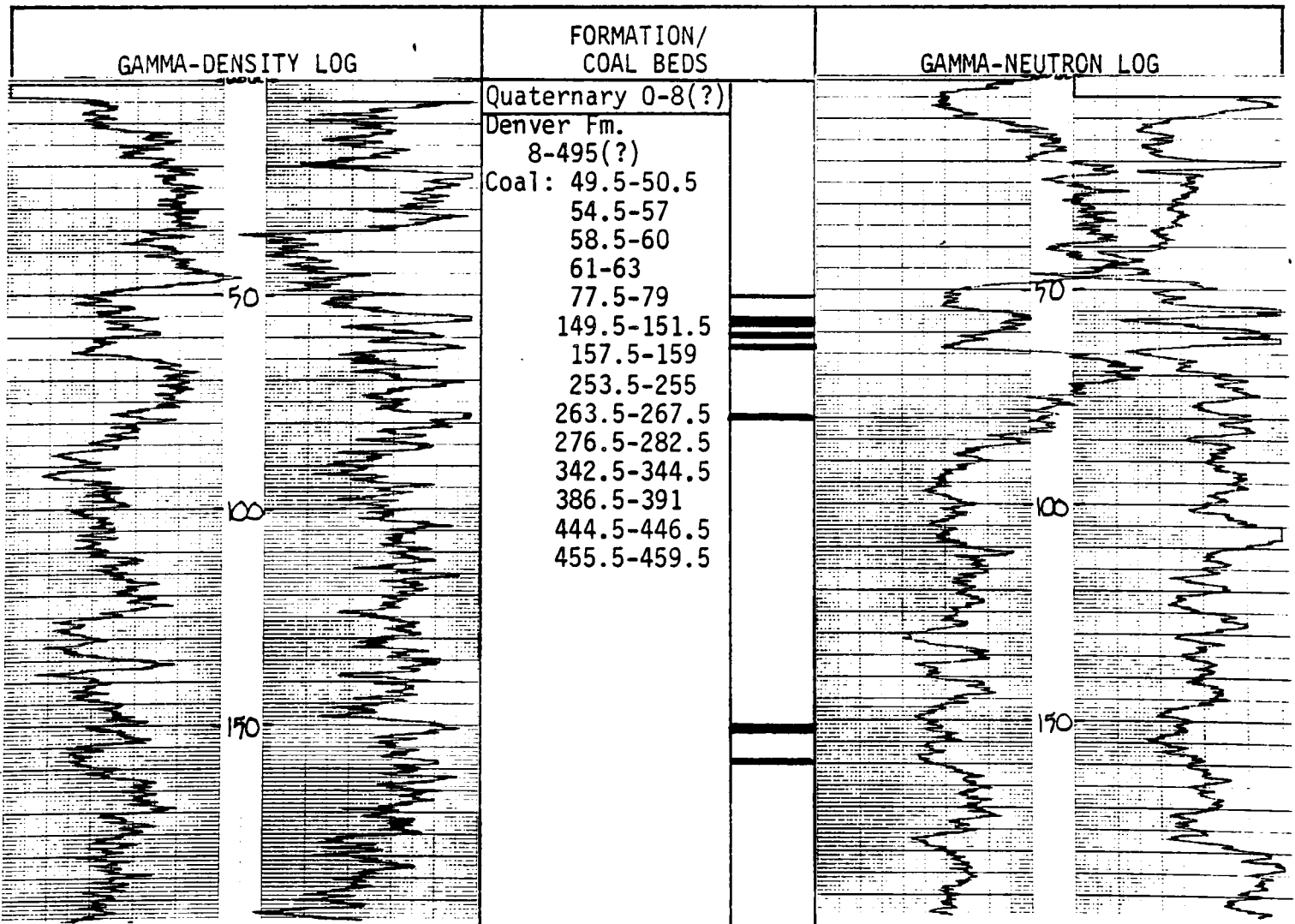
Well No. 23 State-Colorado County- Elbert Date Logged- 11/7/81
 Location: T. 10 S., R. 62 W., sec. SWSW 3 Elevation (ft) 6280
 Total depth 648 Logged depth 620 Fluid level 280

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: 0-412 6" steel; 412-500 4½" steel; 500-648 4½" steel (perforated).

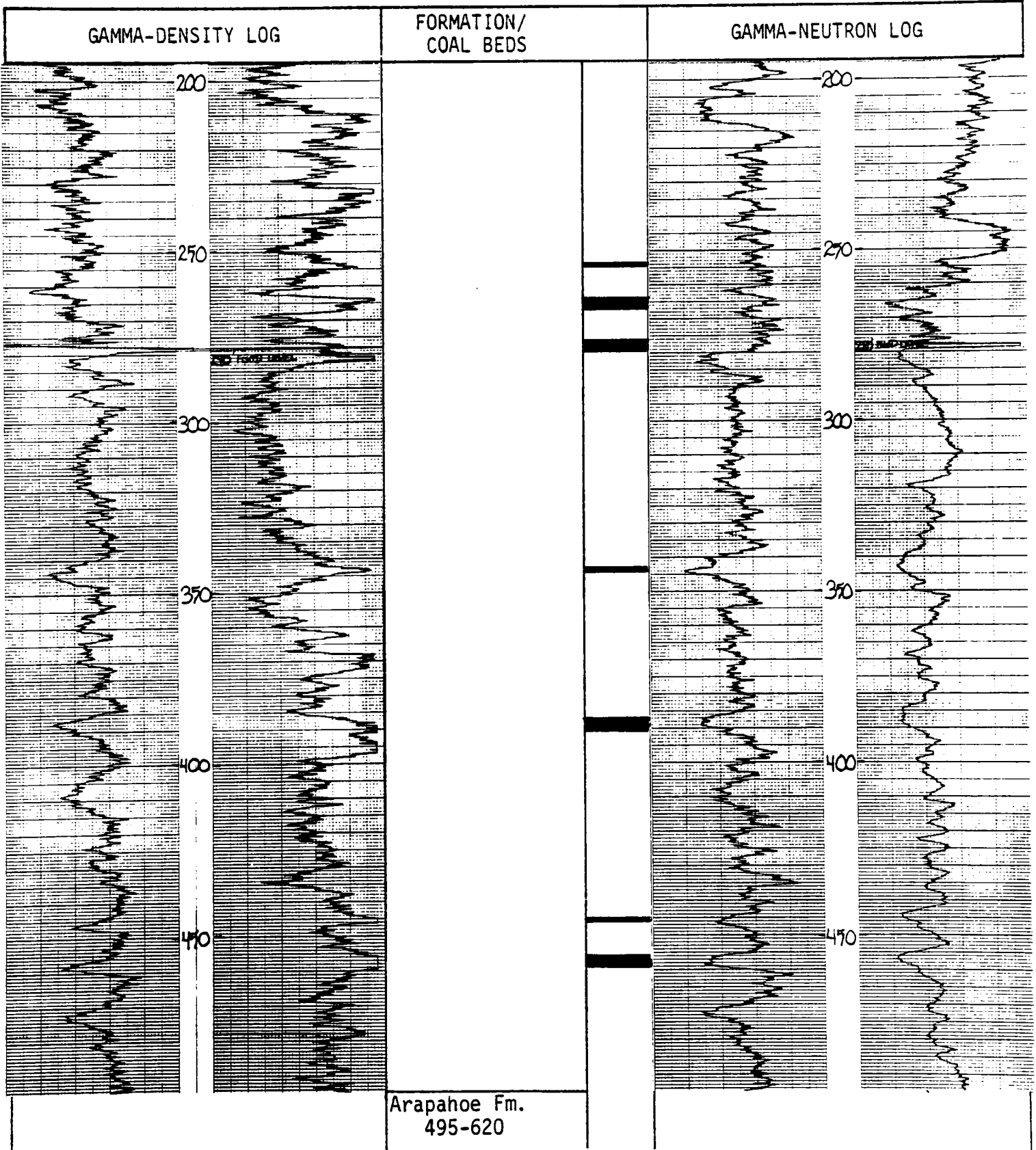
Remarks: Fondis Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 23

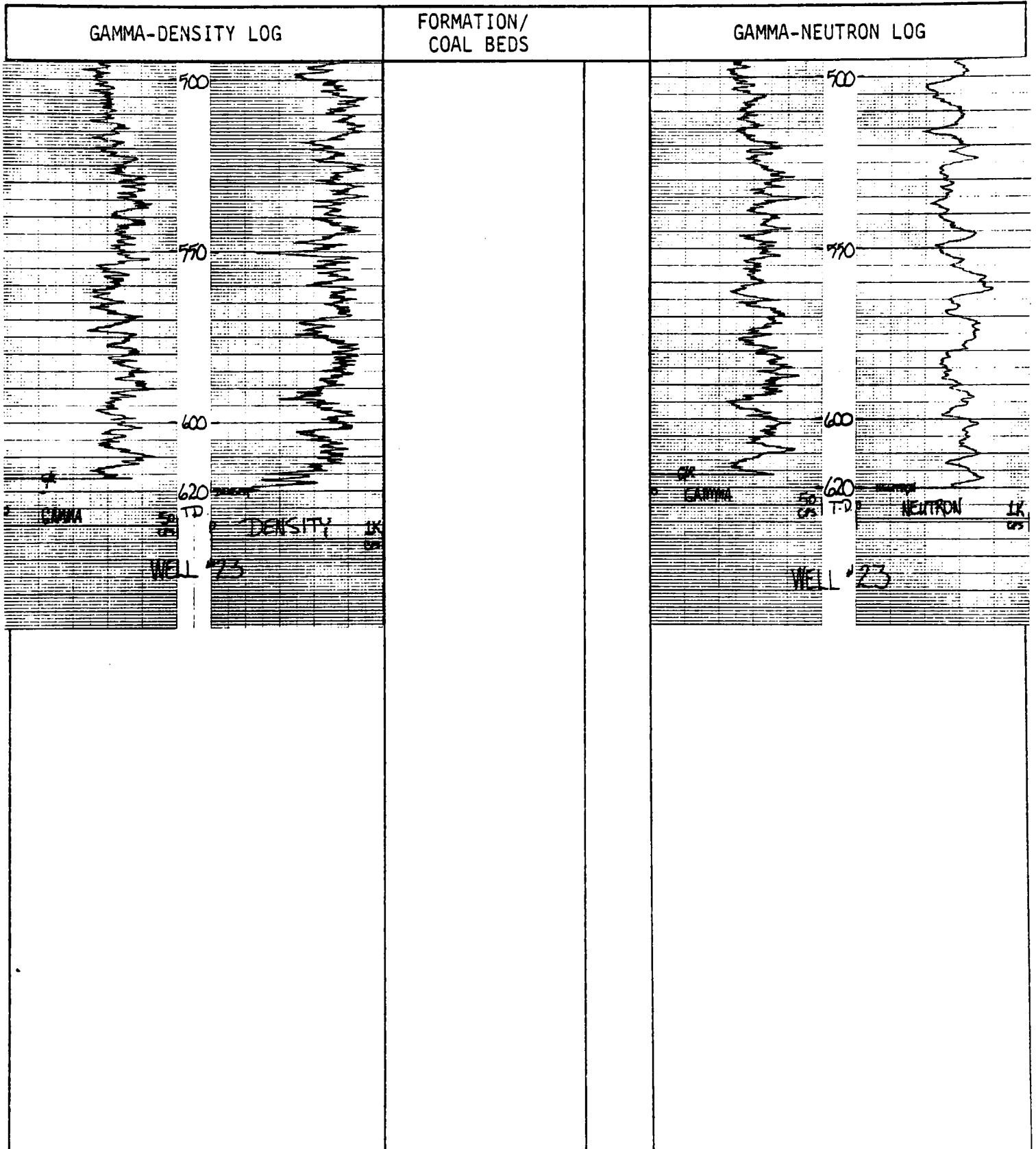
-Continued



COLORADO GEOLOGICAL SURVEY

Well No. 23

-Continued



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

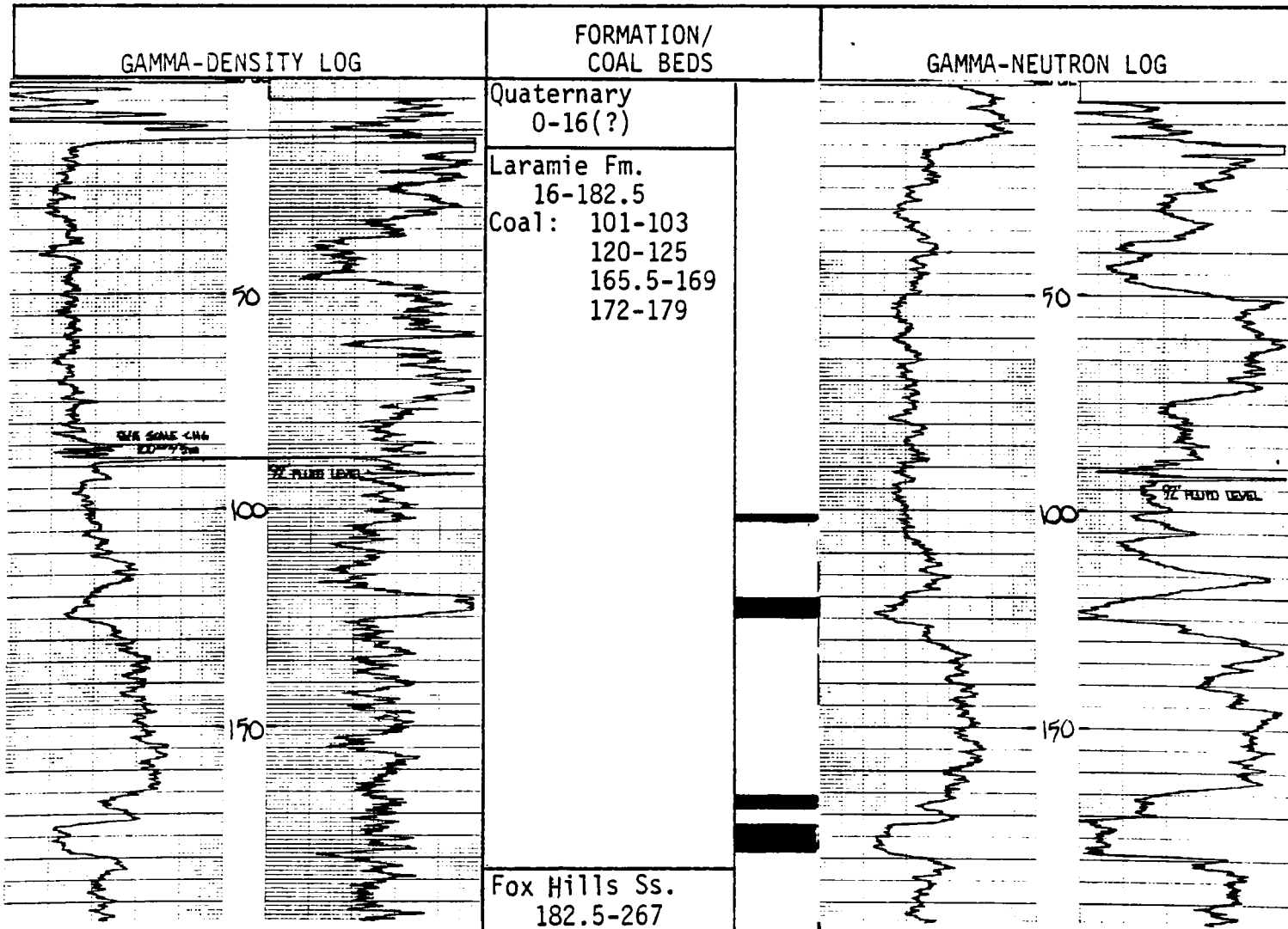
Well No. 24 State-Colorado County- Elbert Date Logged- 11/13/81
 Location: T. 10 S., R. 59 W., sec. NWNE 24 Elevation (ft) 5890
 Total depth 295 Logged depth 267 Fluid level 92

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: 0-228 4½" steel; 228-295 4½" steel (perforated).

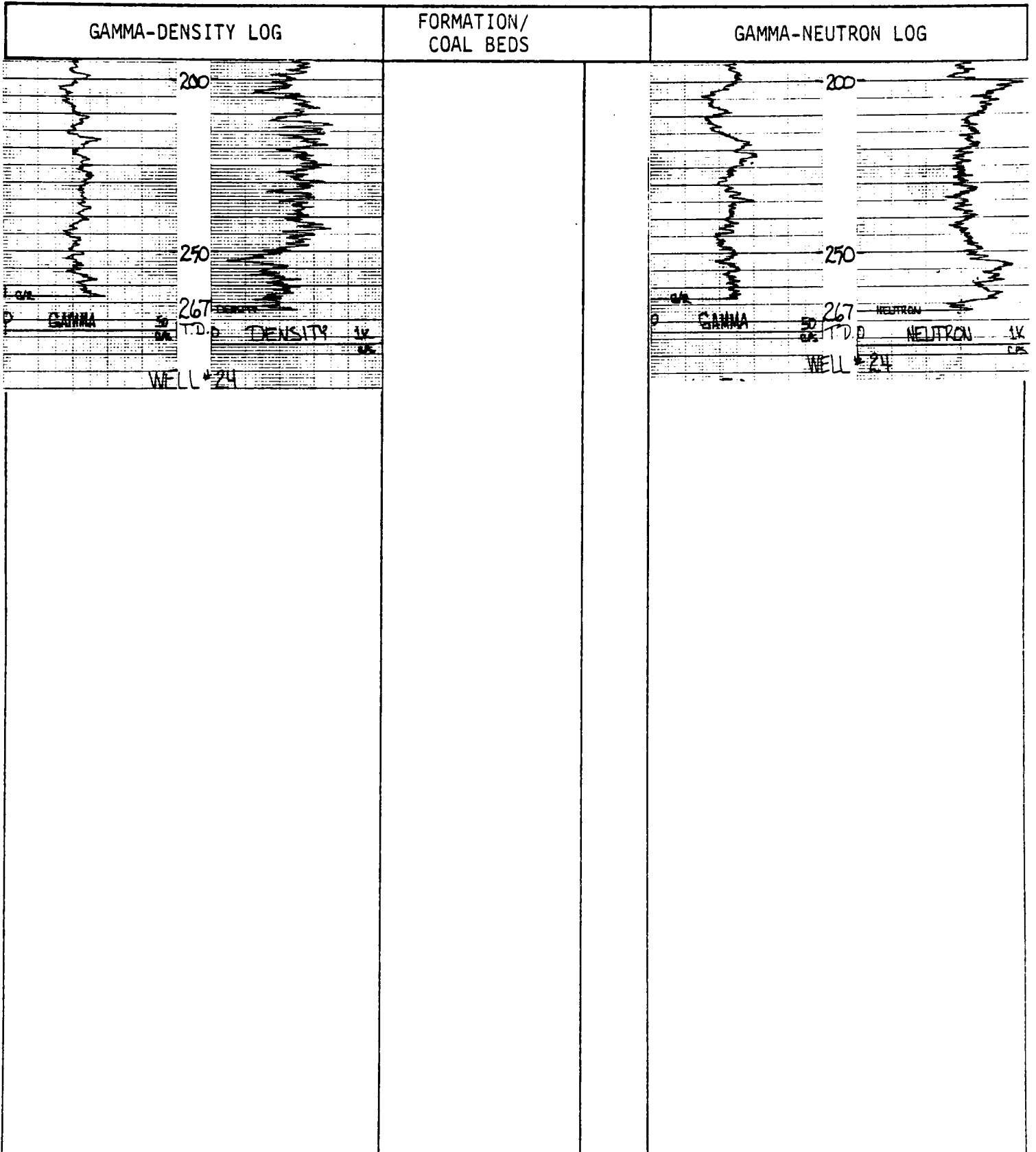
Remarks: Simla Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 24

-Continued



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

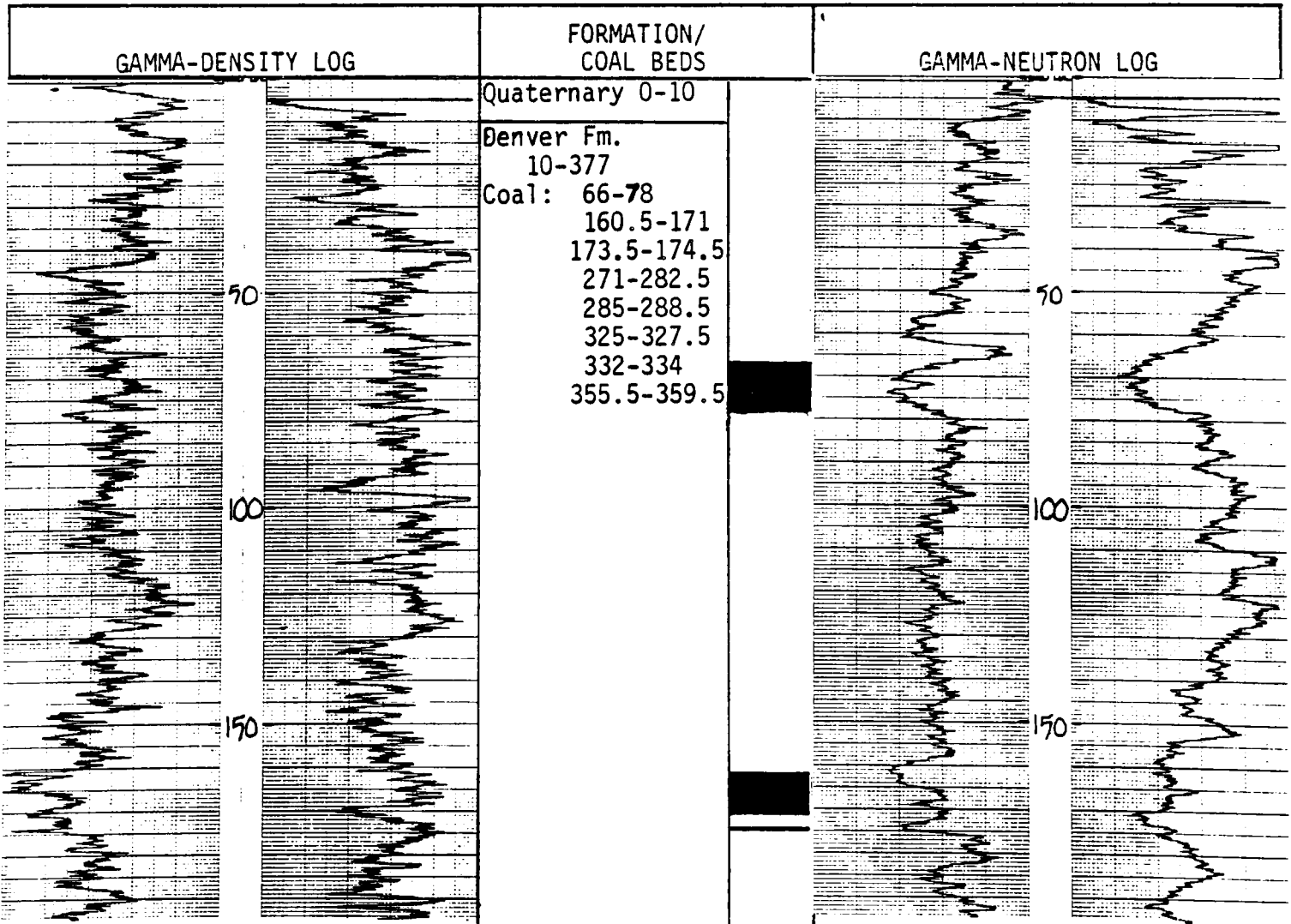
Well No. 26 State-Colorado County- Elbert Date Logged- 11/6/81
 Location: T. 9 S., R. 61 W., sec. NWSE 5 Elevation (ft) 6190
 Total depth 378 Logged depth 377 Fluid level 272

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: 0-290 6 5/8" steel; 290-378 4½" steel (perforated 298-378).

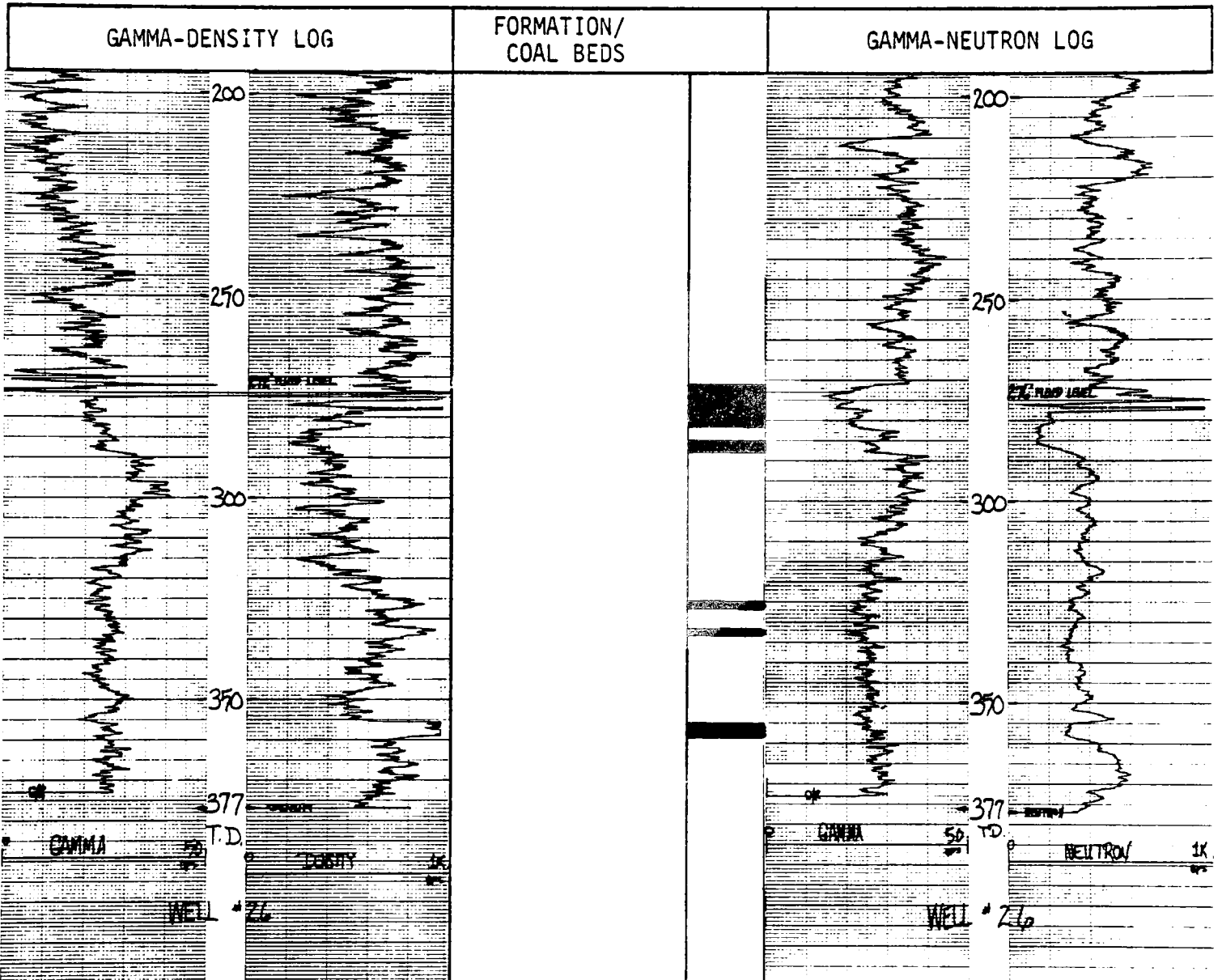
Remarks: Bijou SW Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 26

-Continued



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

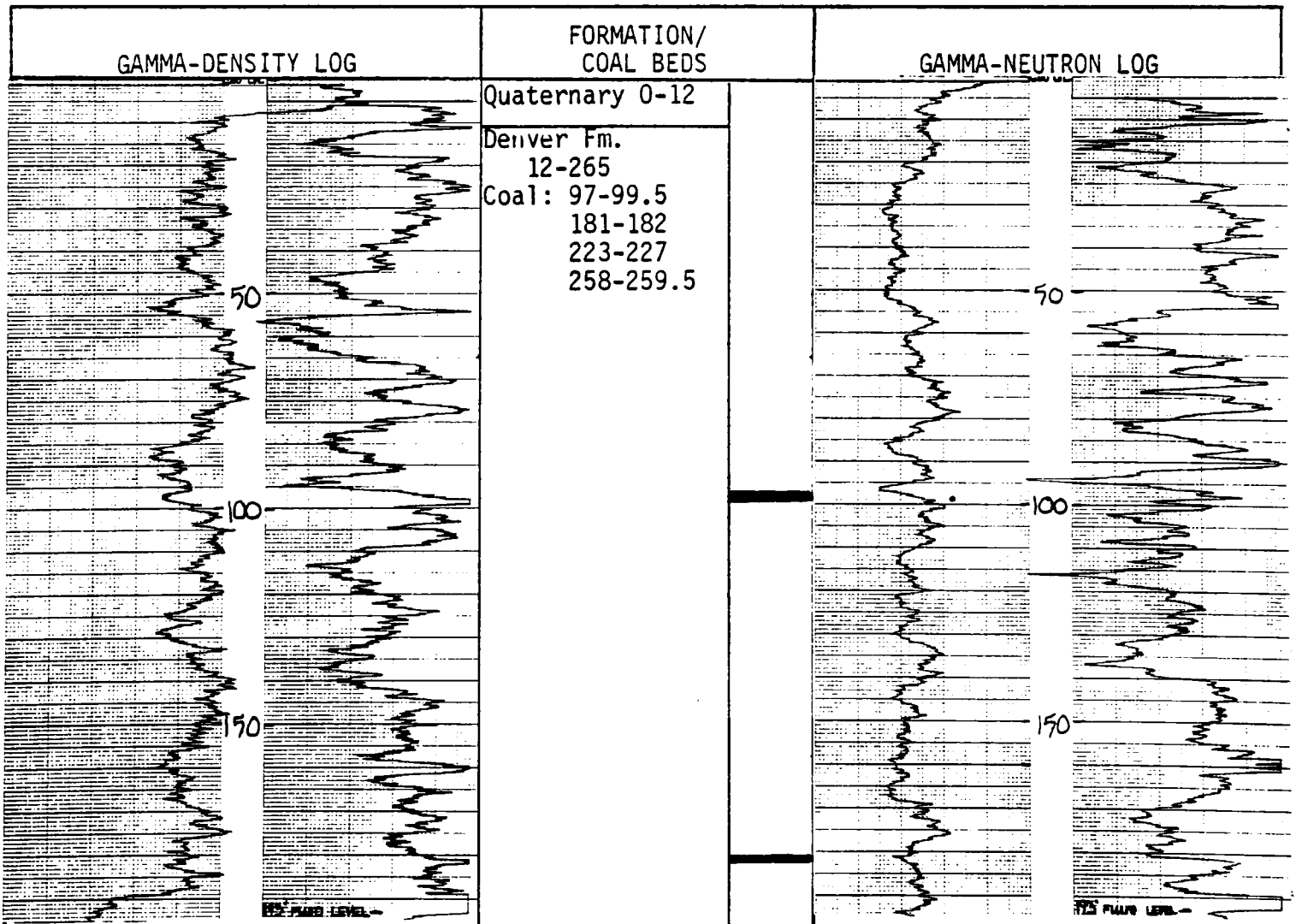
Well No. 27 State-Colorado County- Elbert Date Logged-11/14/81
 Location: T. 6 S., R. 62 W., sec. SESE 34 Elevation (ft) 5793
 Total depth 265 Logged depth 265 Fluid level 193

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: Logged through 2" galvanized pipe and 4½" steel casing.

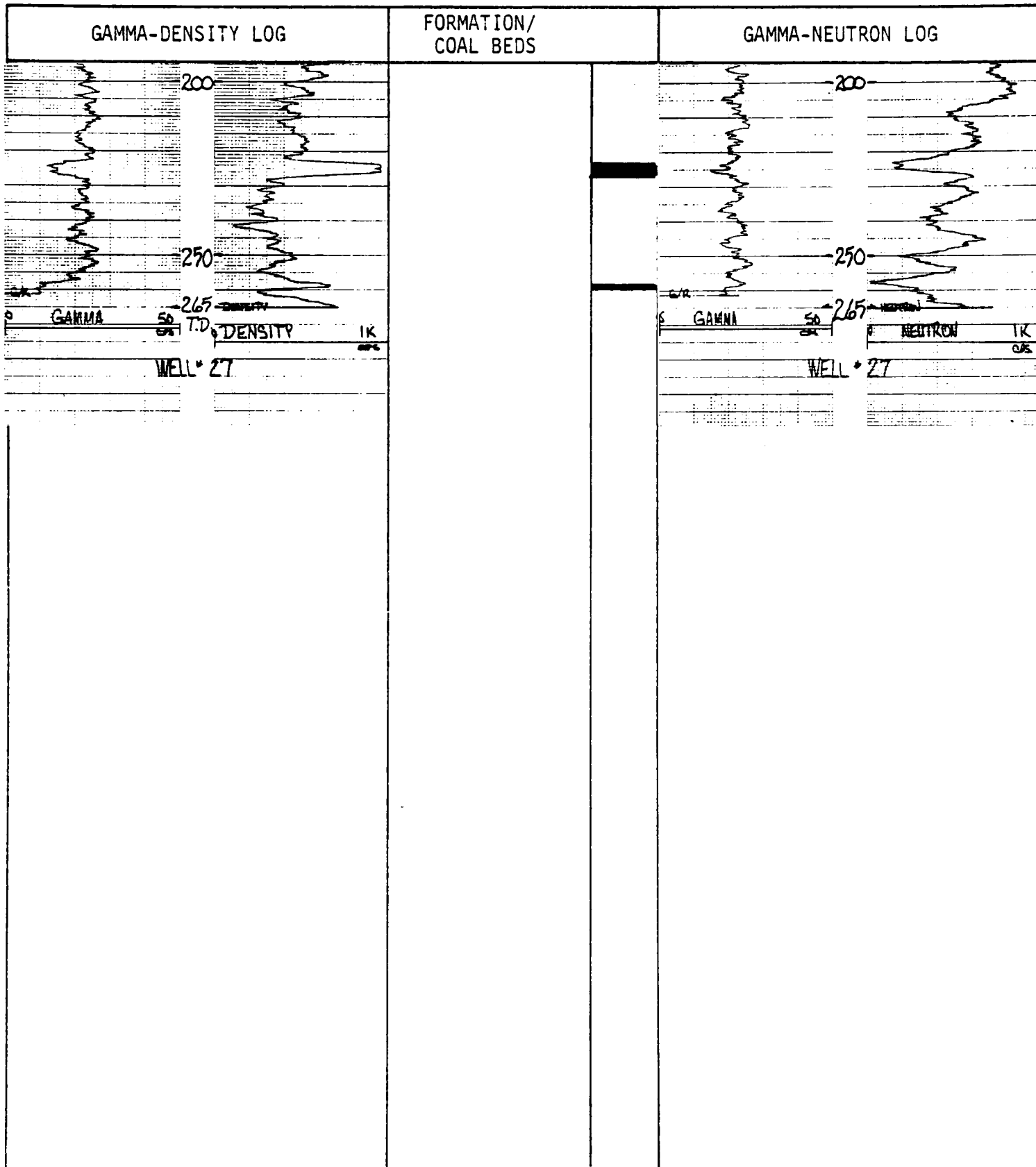
Remarks: Kiowa NE Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 27

-Continued



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

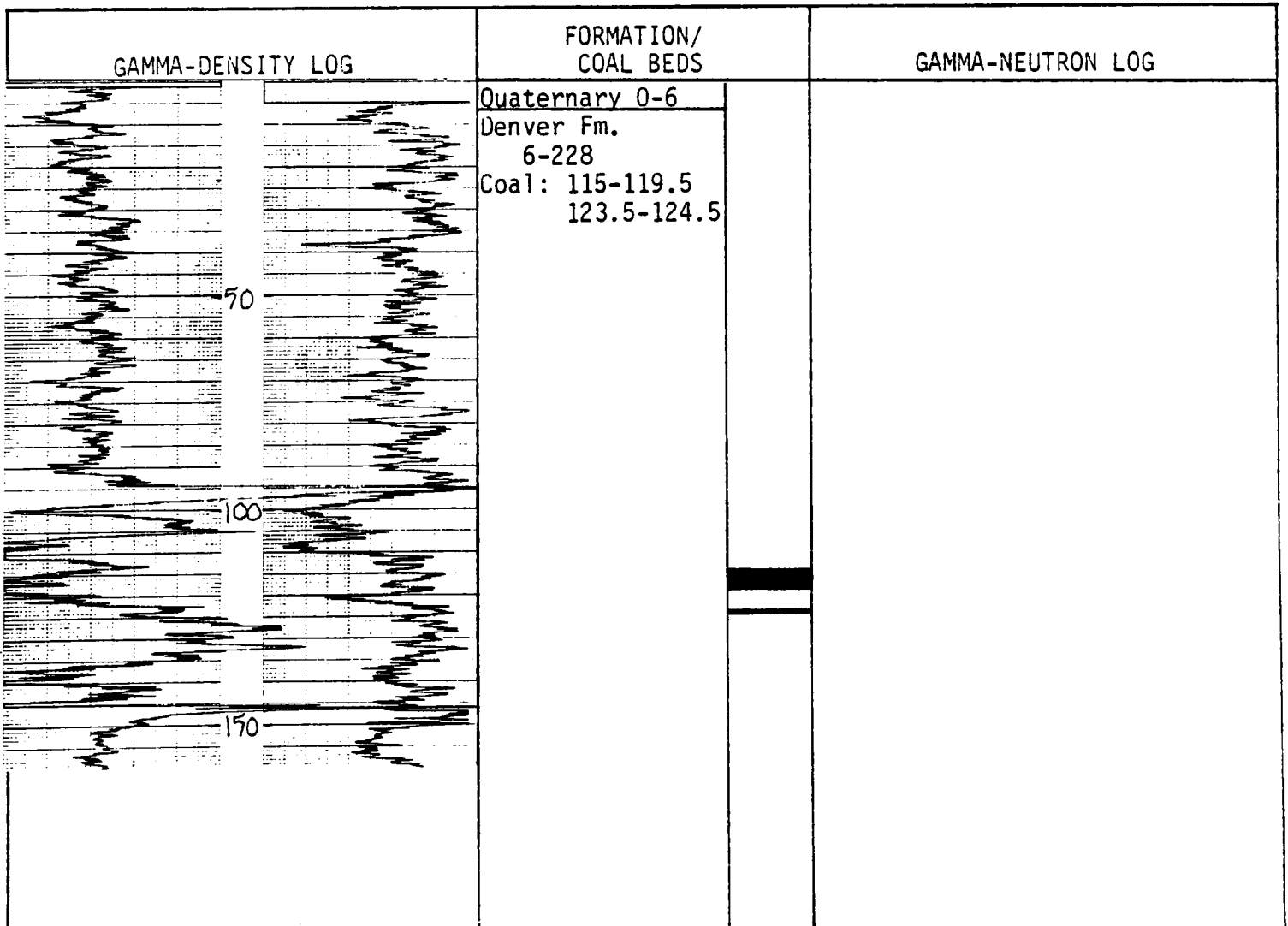
Well No. 27A State-Colorado County- Elbert Date Logged- 11/4/81
 Location: T. 7 S., R. 62 W., sec. NWNW 27 Elevation (ft) 5920
 Total depth 307 Logged depth 228 Fluid level 147

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC		Scale	cps/in	Logging speed		fpm
Neutron:	TC		Scale	cps/in	Logging speed		fpm

Casing Information: All 4½" PVC with perforations 79-105, 210-235, 283-303.

Remarks: Kiowa NE Quadrangle. No neutron log run due to plastic casing.



COLORADO GEOLOGICAL SURVEY

Well No. 27A

-Continued

GAMMA-DENSITY LOG	FORMATION/ COAL BEDS	GAMMA-NEUTRON LOG
<p>200</p> <p>2.28 DENSITY</p> <p>50 95</p> <p>DENSITY</p> <p>WELL # 27A</p>		

COLORADO GEOLOGICAL SURVEY
WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

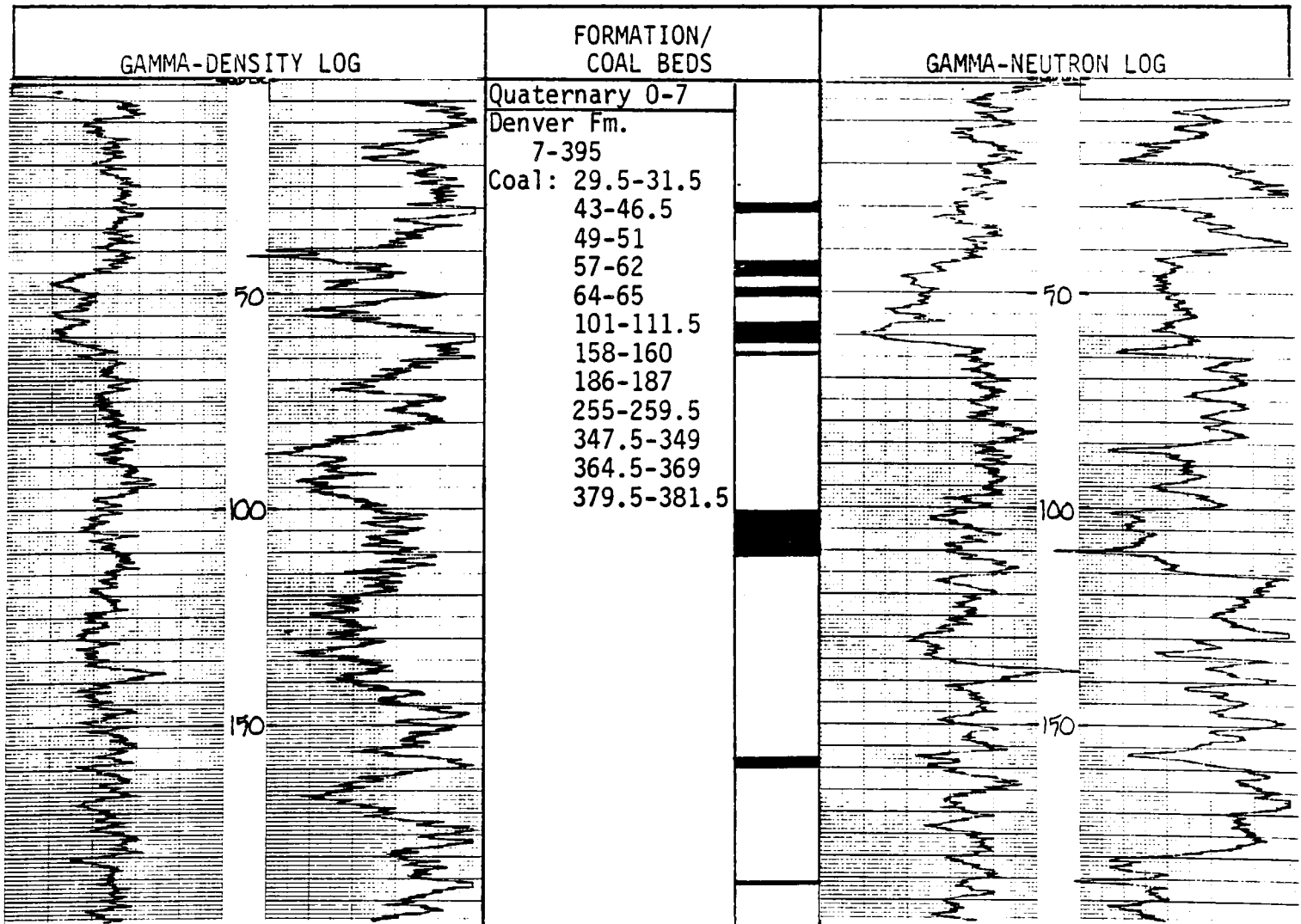
Well No. 27B State-Colorado County- Elbert Date Logged- 11/5/81
 Location: T. 7 S., R. 62 W., sec. NENW 4 Elevation (ft) 5955
 Total depth 665 Logged depth 597 Fluid level 290

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: 0-606 4½" steel (perforated 518-606).

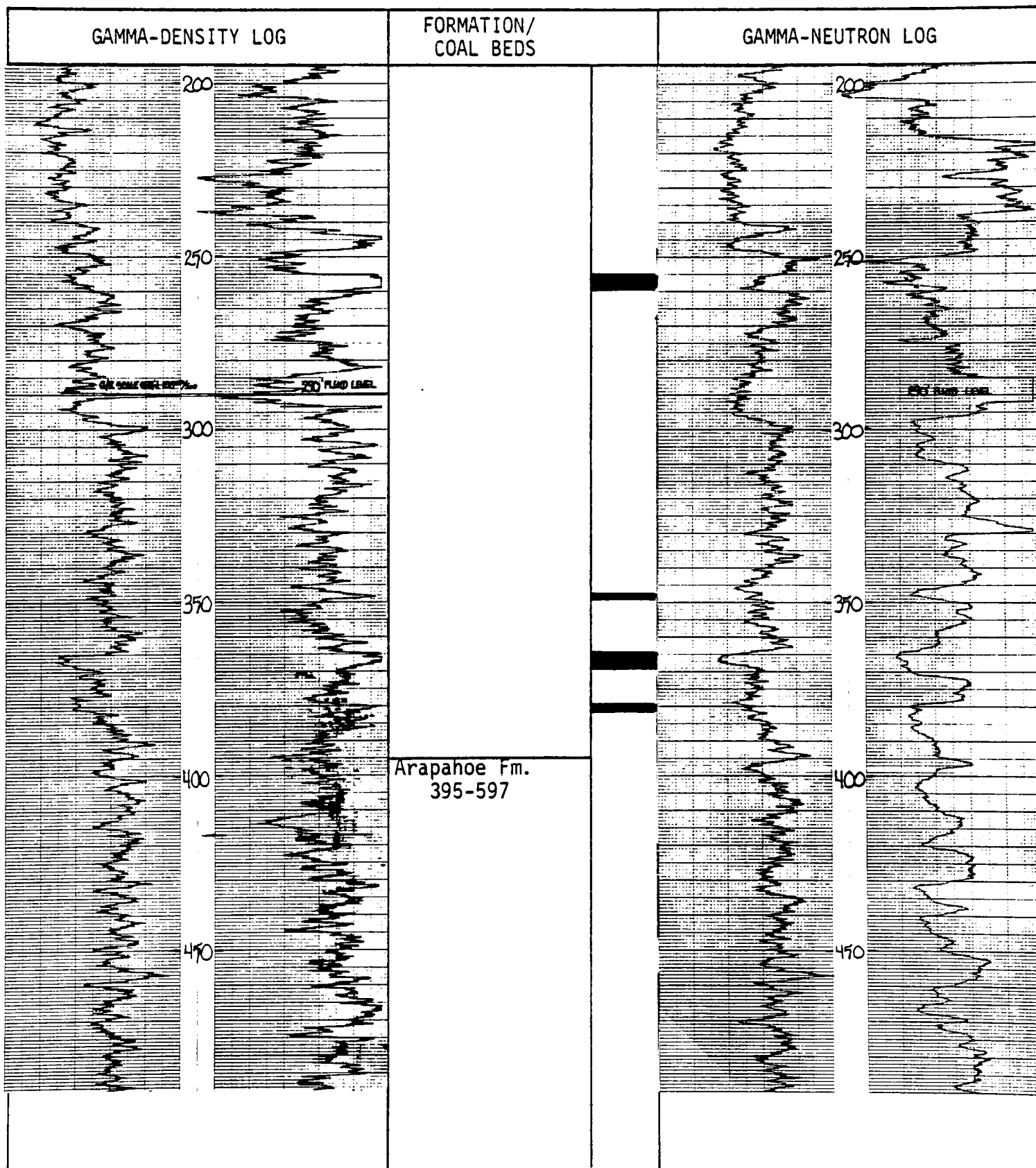
Remarks: Kiowa NE Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 27B

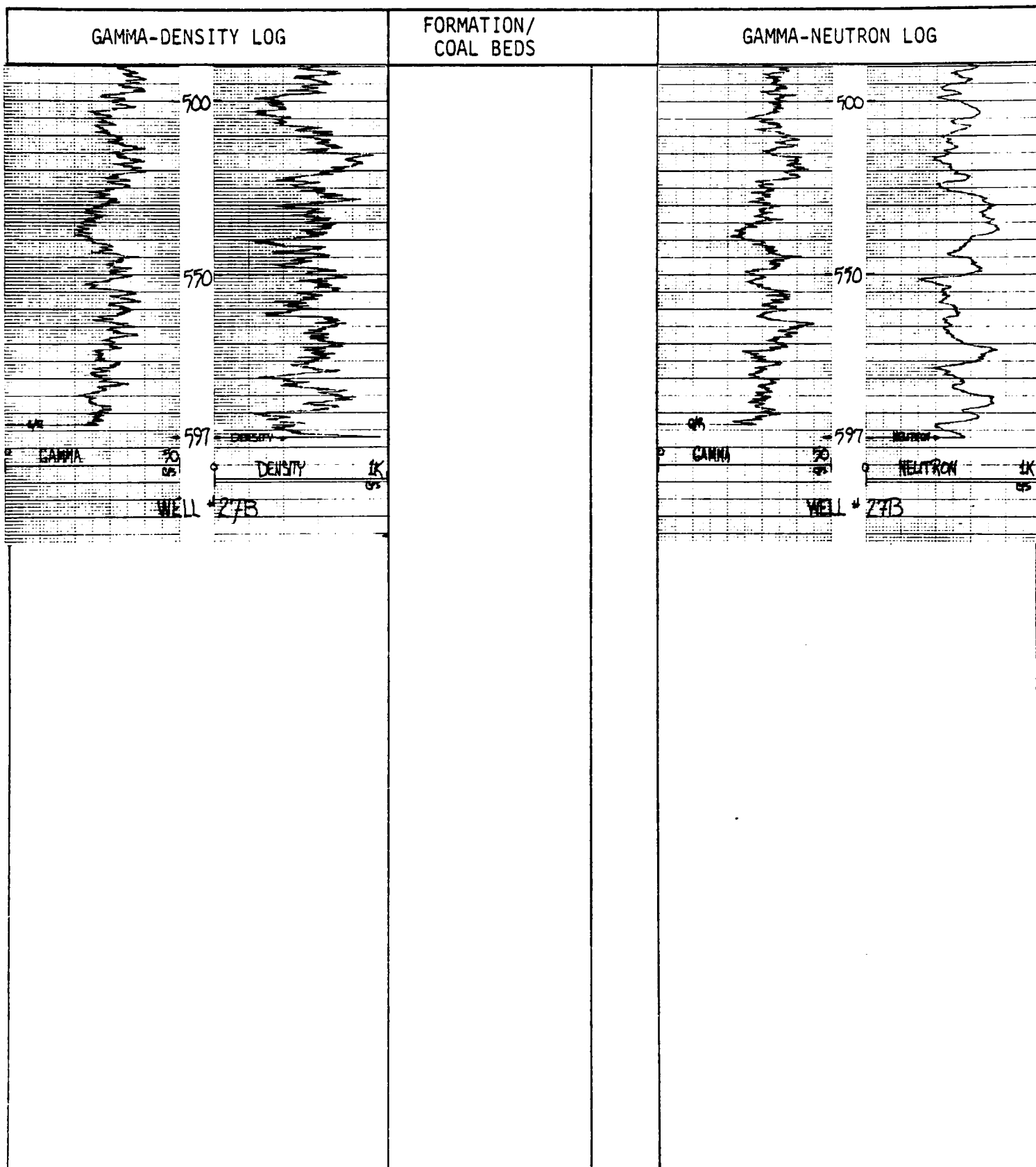
-Continued



COLORADO GEOLOGICAL SURVEY

Well No. 27B

-Continued



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

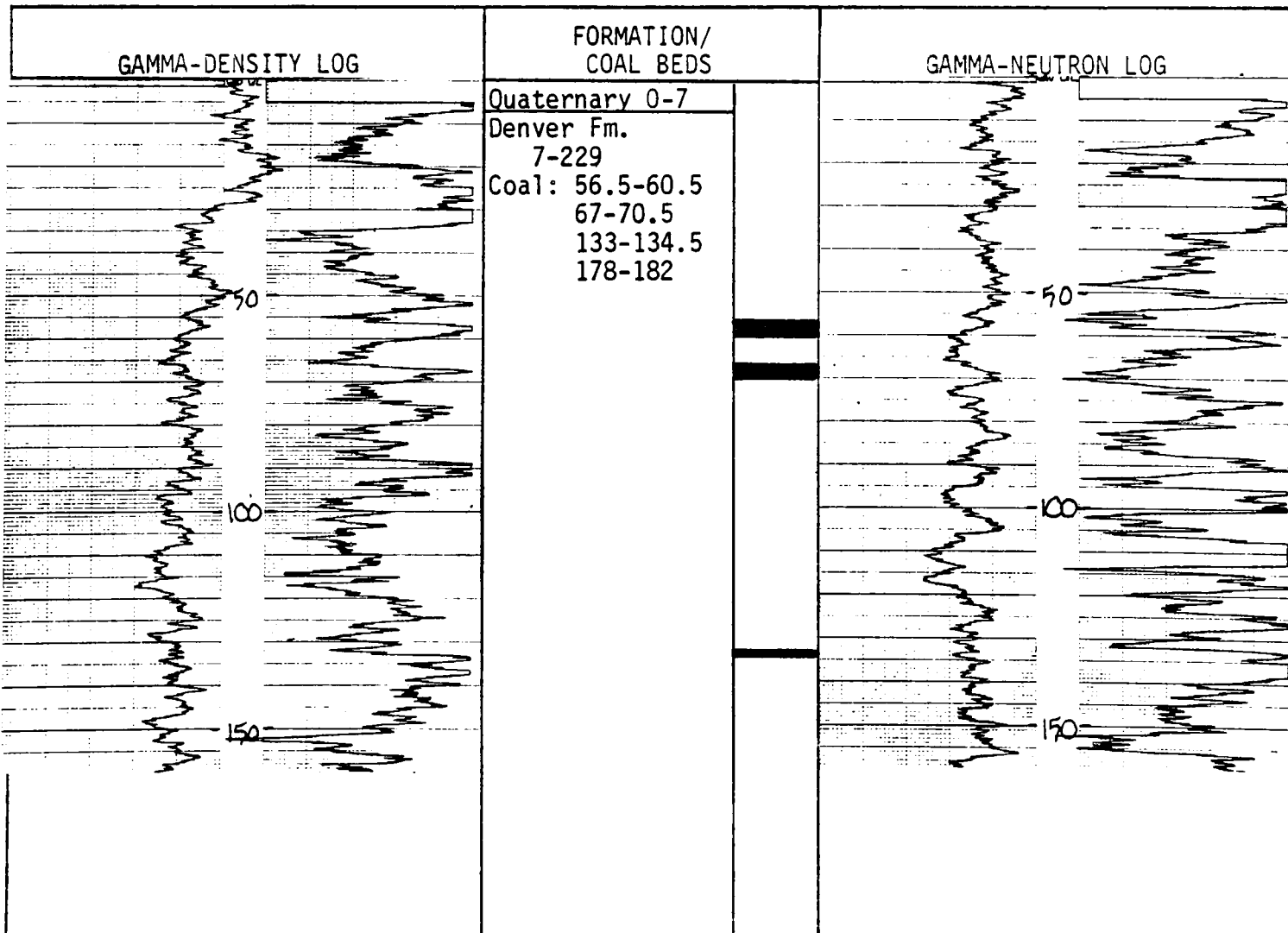
Well No. 270 State-Colorado County- Elbert Date Logged-11/16/81
 Location: T. 6 S., R. 61 W., sec. SESW 20 Elevation (ft) 5893
 Total depth 500 Logged depth 229 Fluid level 219

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: Logged through 2" galvanized pipe and 4½" steel casing.

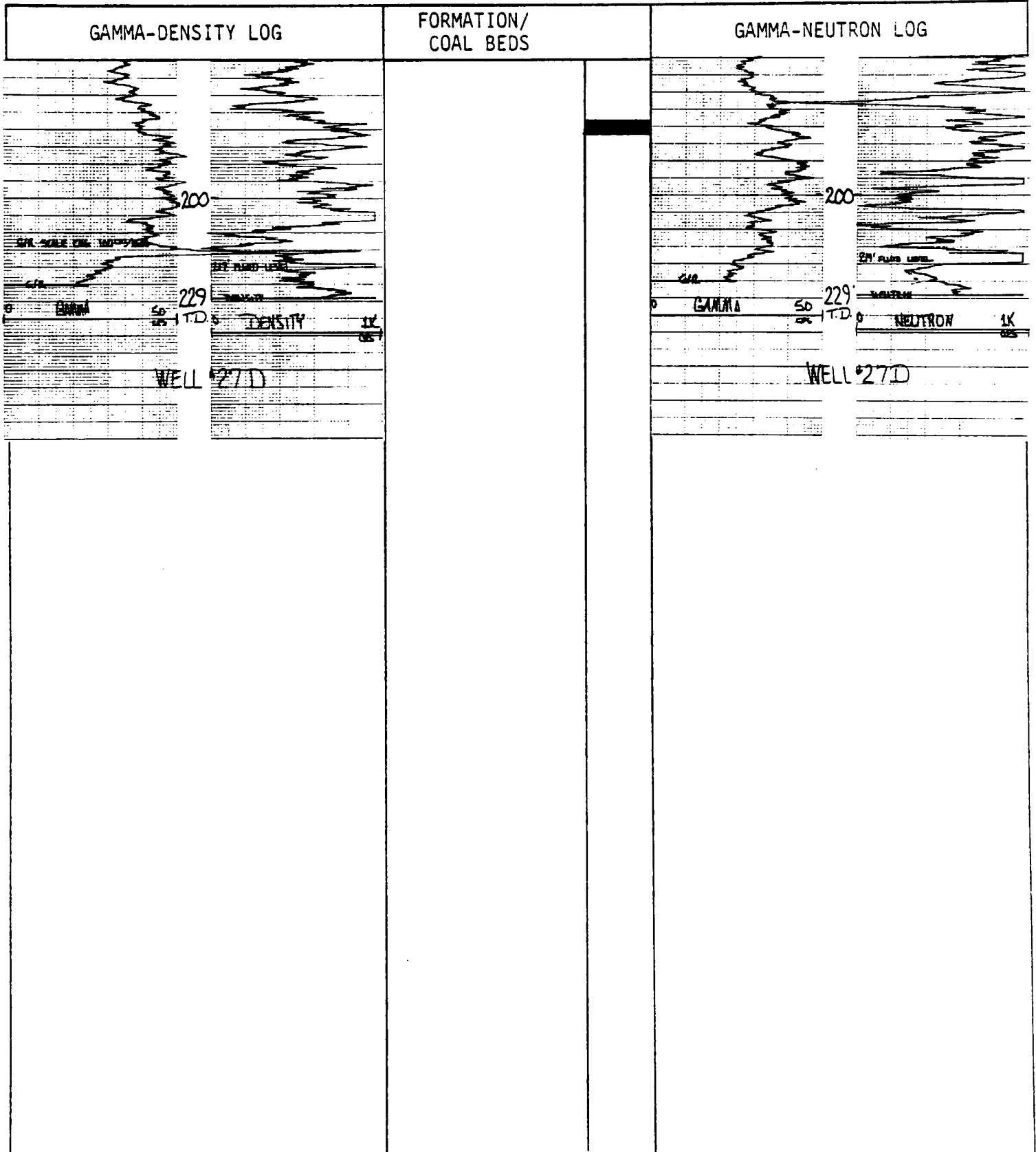
Remarks: Byers SW Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 27D

-Continued



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

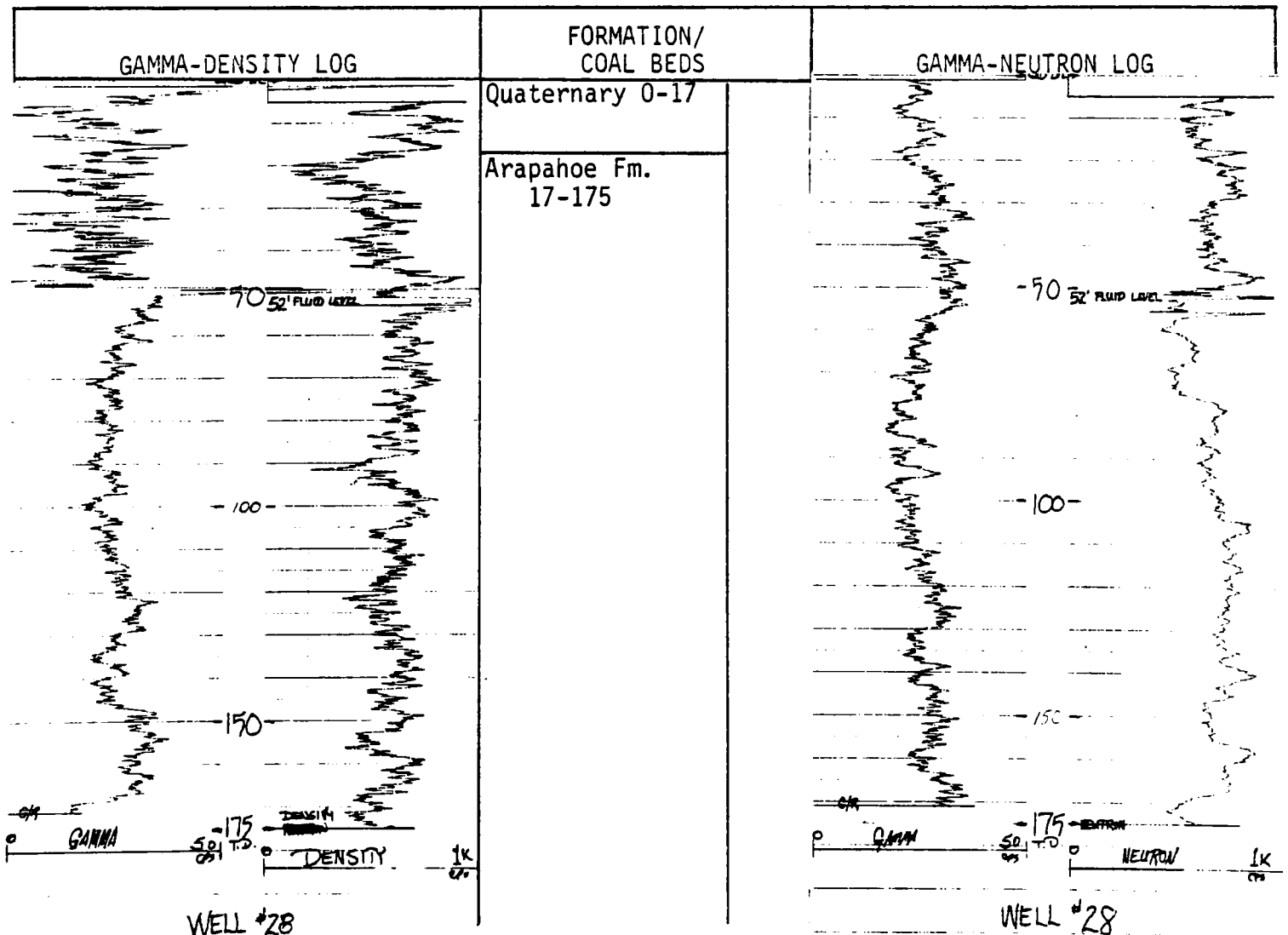
Well No. 28 State-Colorado County- Elbert Date Logged- 11/6/81
 Location: T. 9 S., R. 59 W., sec. SWNW 18 Elevation (ft) 5757
 Total depth 183 Logged depth 175 Fluid level 52

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: 0-183 6" steel (perforated 140-183).

Remarks: Kuhn's Crossing Quadrangle



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

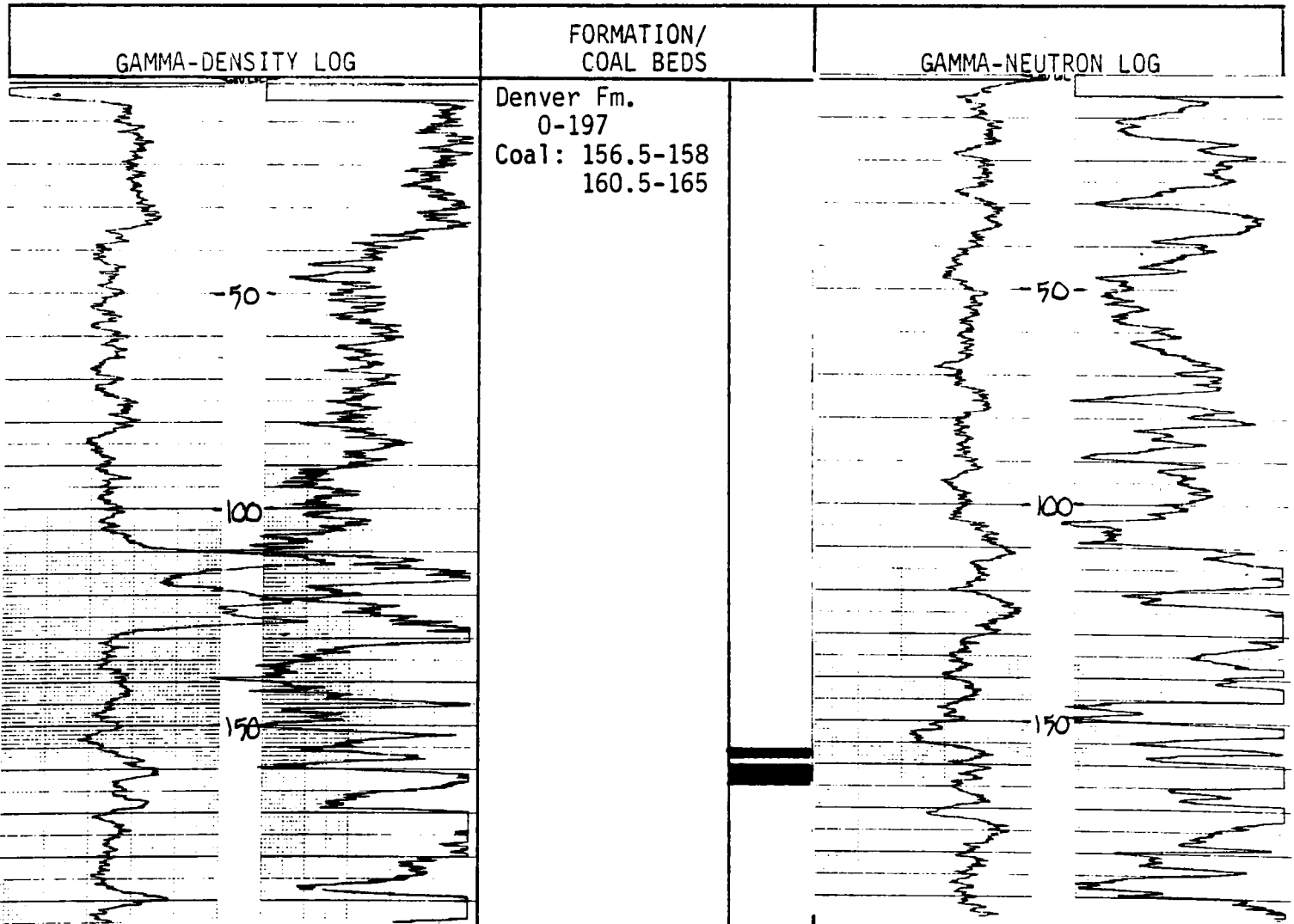
Well No. 30 State-Colorado County- El Paso Date Logged- 11/19/81
 Location: T. 12 S., R. 60 W., sec. SESE 5 Elevation (ft) 6450
 Total depth 453 Logged depth 431 Fluid level 258

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: 0-338 4½" steel; 338-453 4½" steel (perforated).

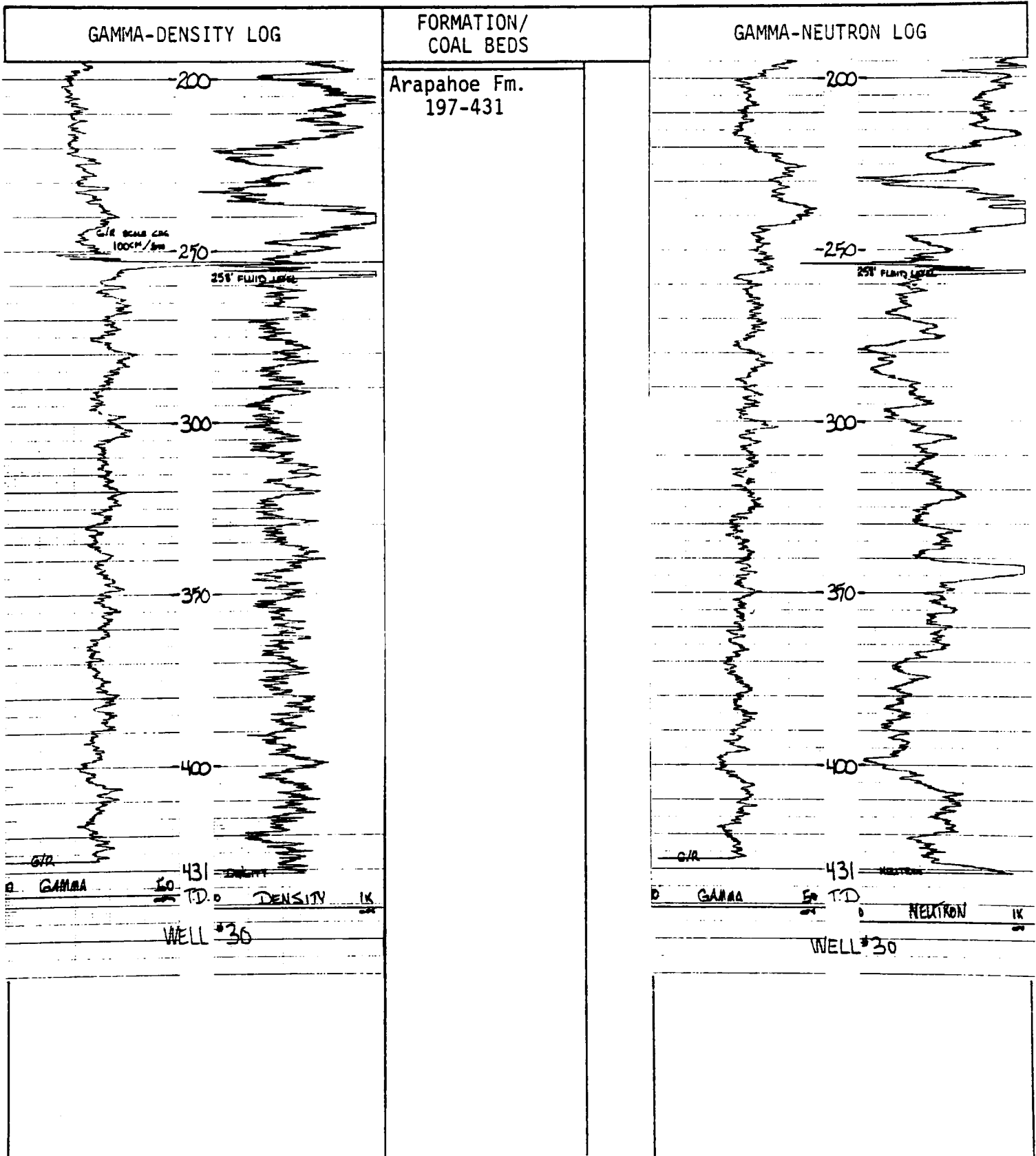
Remarks: Ramah South Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 30

-Continued



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

Well No. 31 State-Colorado County- Elbert Date Logged- 11/12/81

Location: T. 10 S., R. 59 W., sec. SESE 34 Elevation (ft) 6050

Total depth 335 Logged depth 330 Fluid level 201

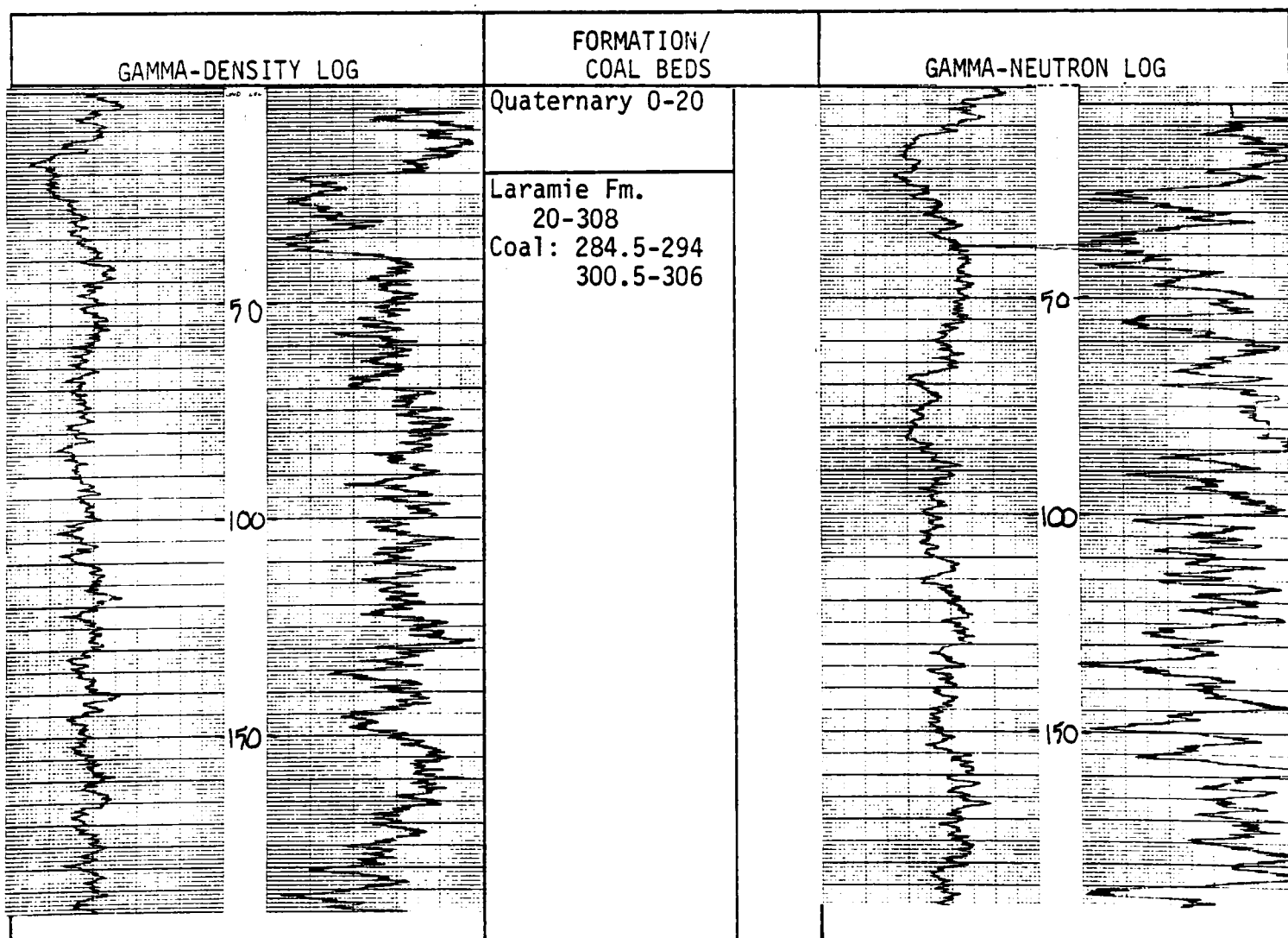
Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: 0-335 4 1/2" steel

Remarks:

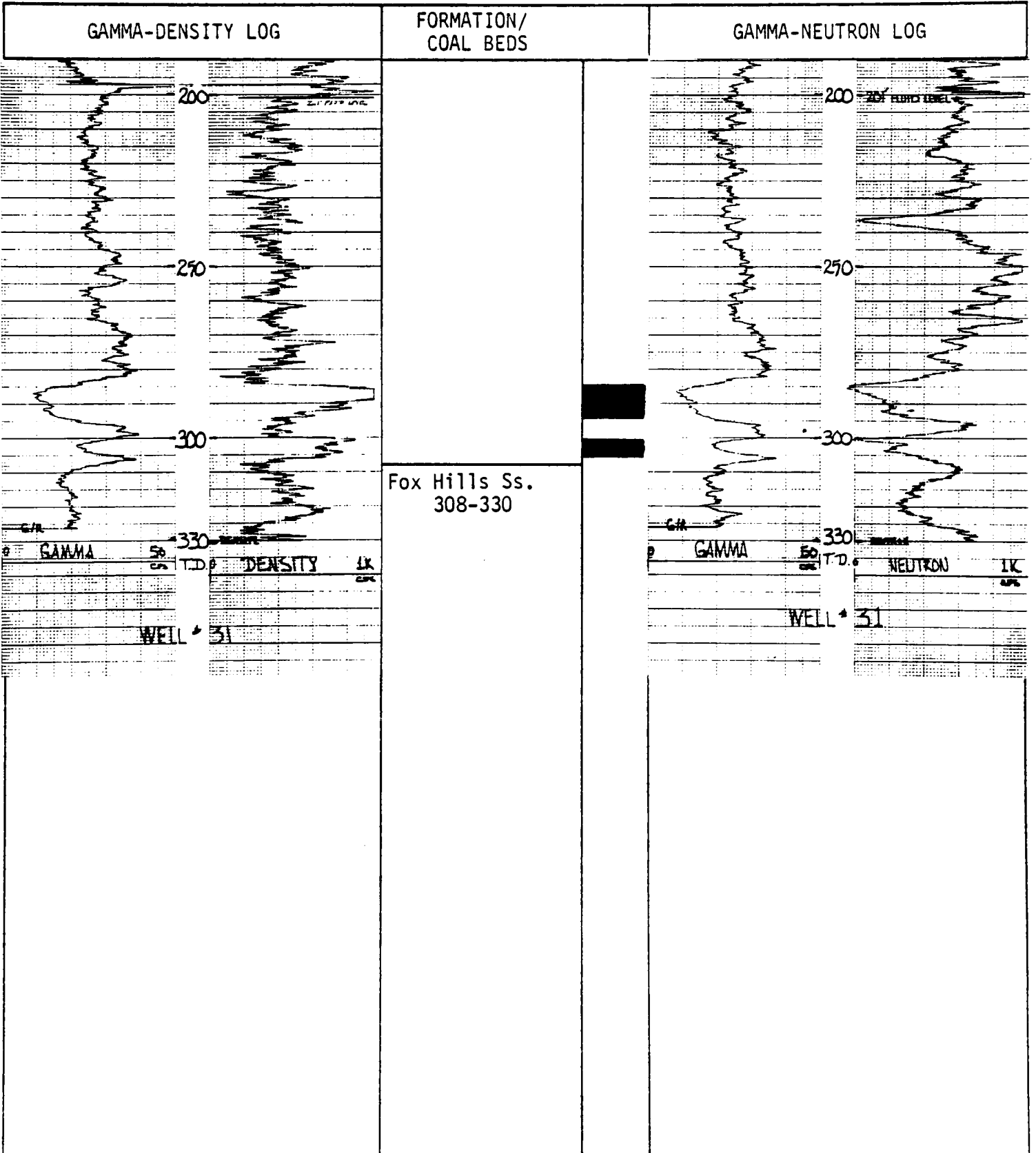
Matheson Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 31

-Continued



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

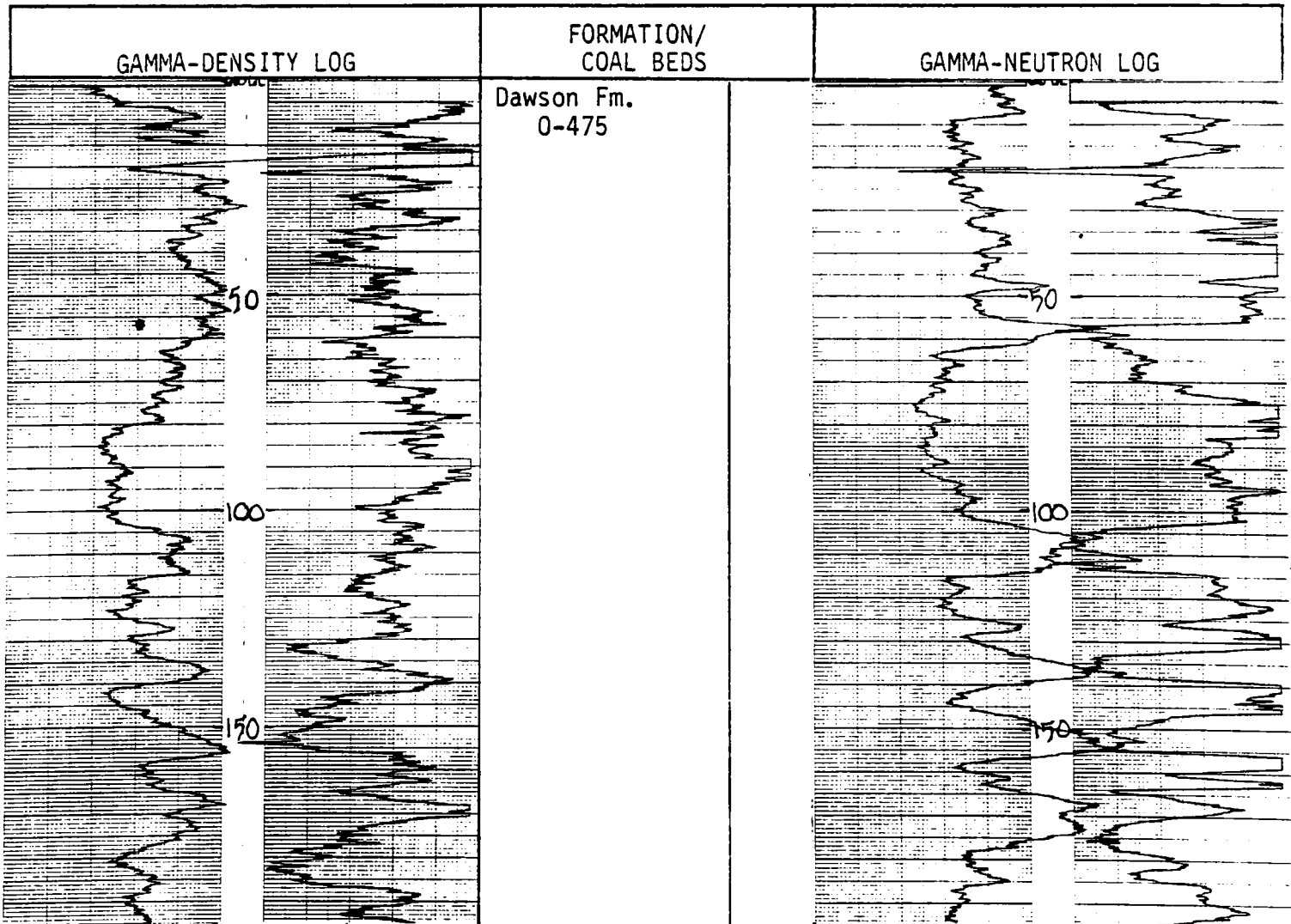
Well No. 32 State-Colorado County- Douglas Date Logged- 11/17/81
 Location: T. 9 S., R. 67 W., sec. NESW 30 Elevation (ft) 6740
 Total depth 802 Logged depth 775 Fluid level 590

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: 0-24 6" steel; 24-802 4½" steel (perforated 480-802).

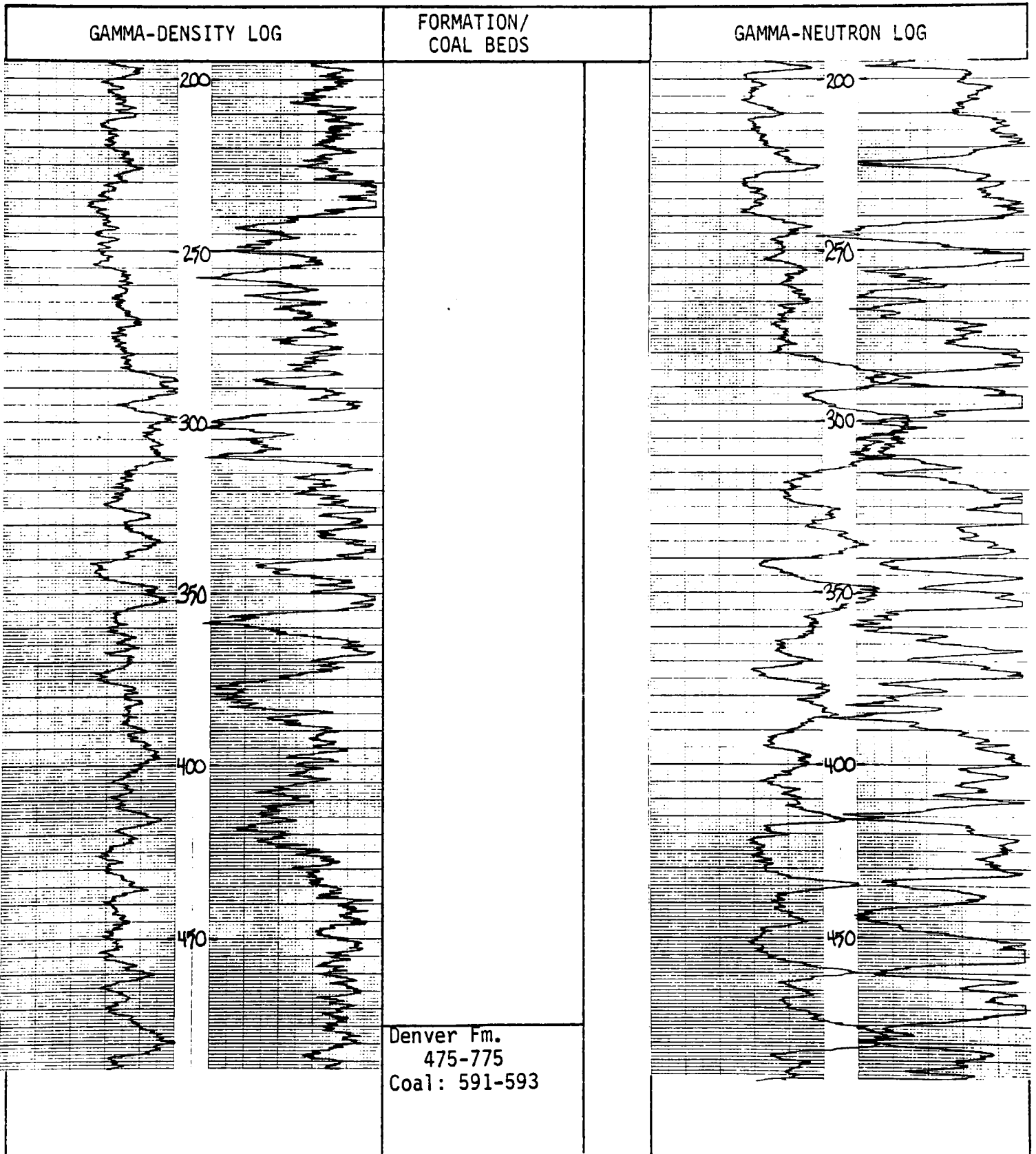
Remarks: Larkspur Quadrangle



COLORADO GEOLOGICAL SURVEY

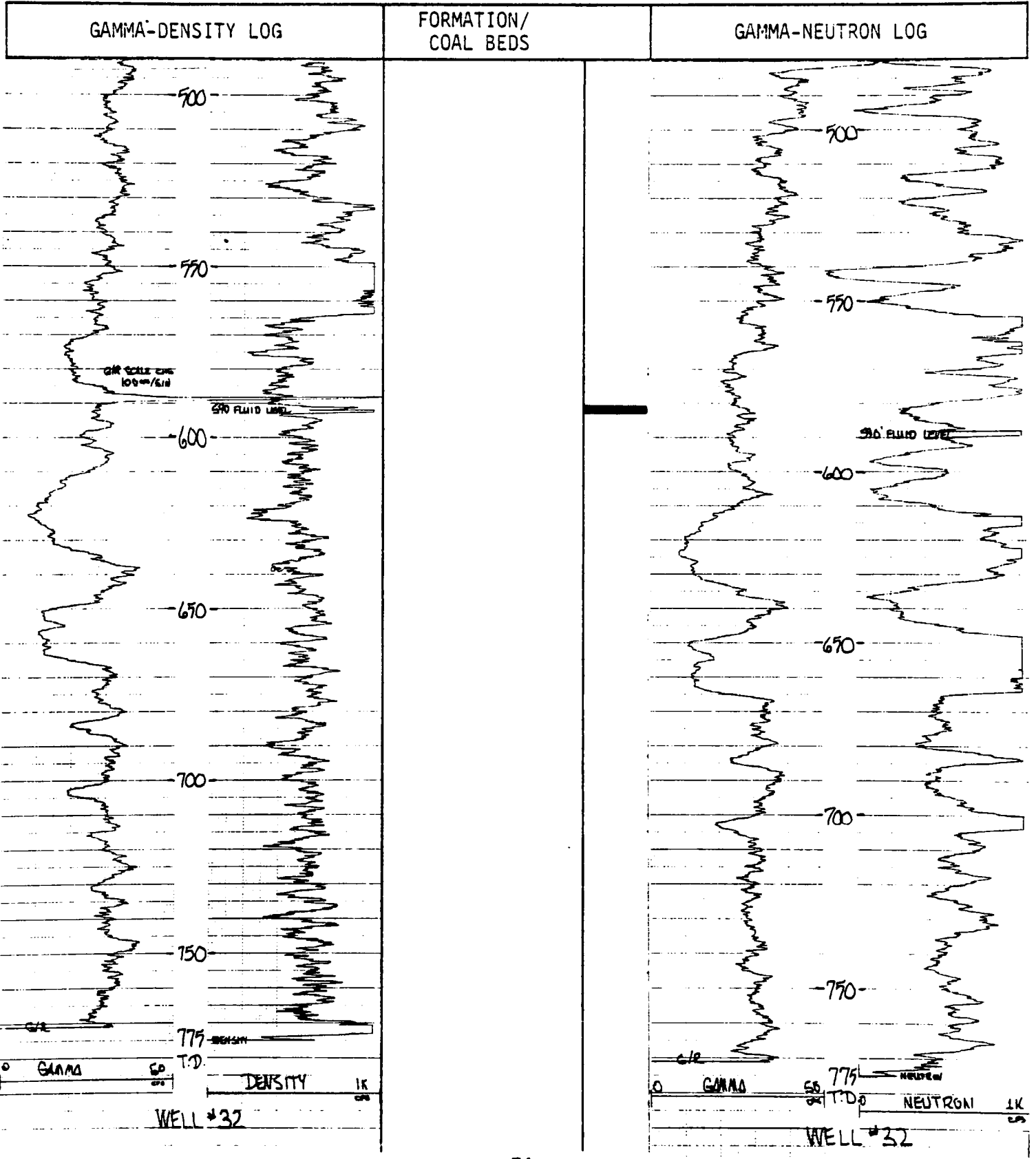
Well No. 32

-Continued



COLORADO GEOLOGICAL SURVEY

Well No. 32 -Continued



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

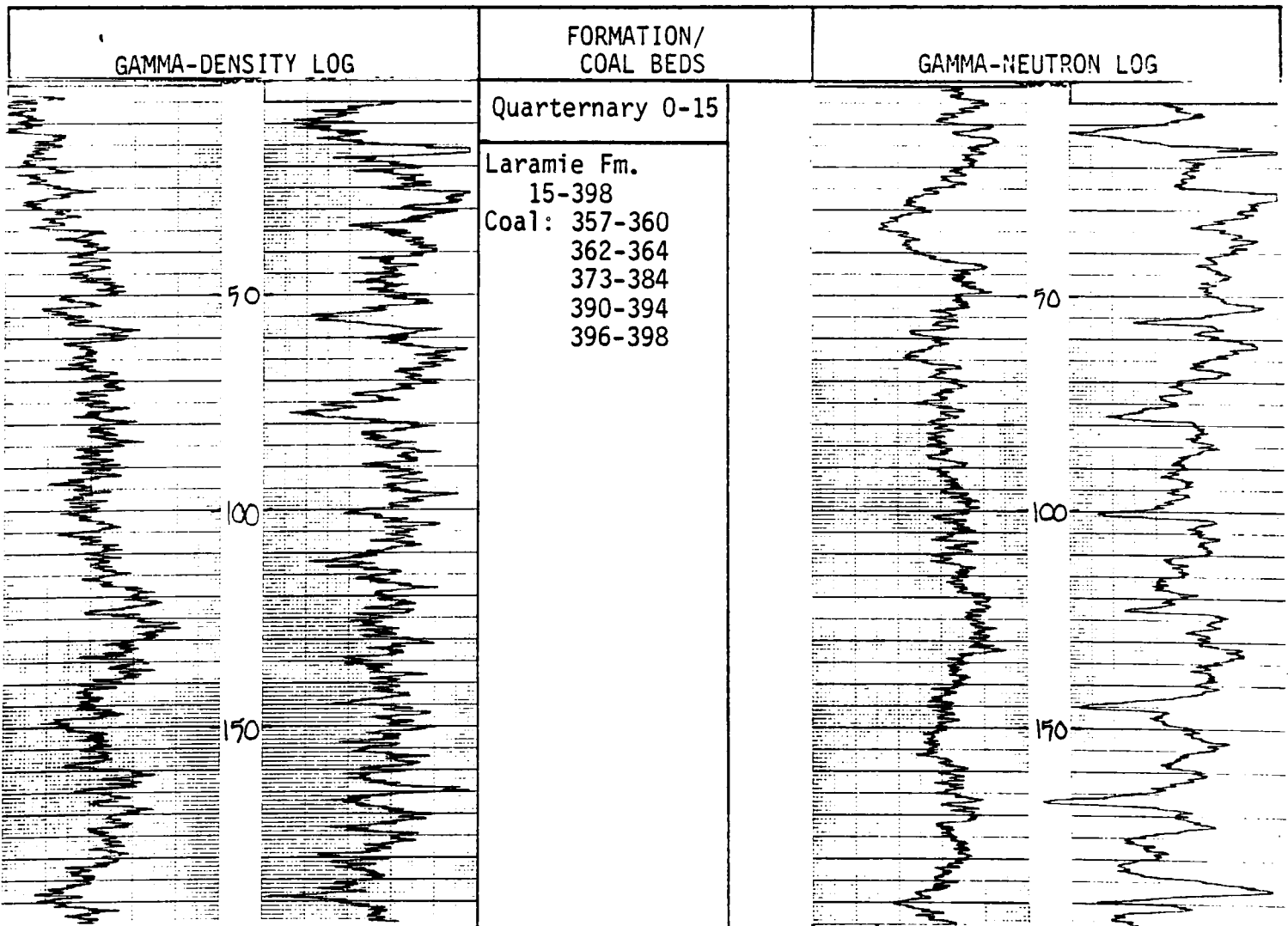
Well No. 33 State-Colorado County- Elbert Date Logged-11/3/81
 Location: T. 7 S., R. 59 W., sec. NENE 7 Elevation (ft) 5627
 Total depth 540 Logged depth 398 Fluid level 242

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: 0-397 6" steel; 397-540 6" steel (perforated).

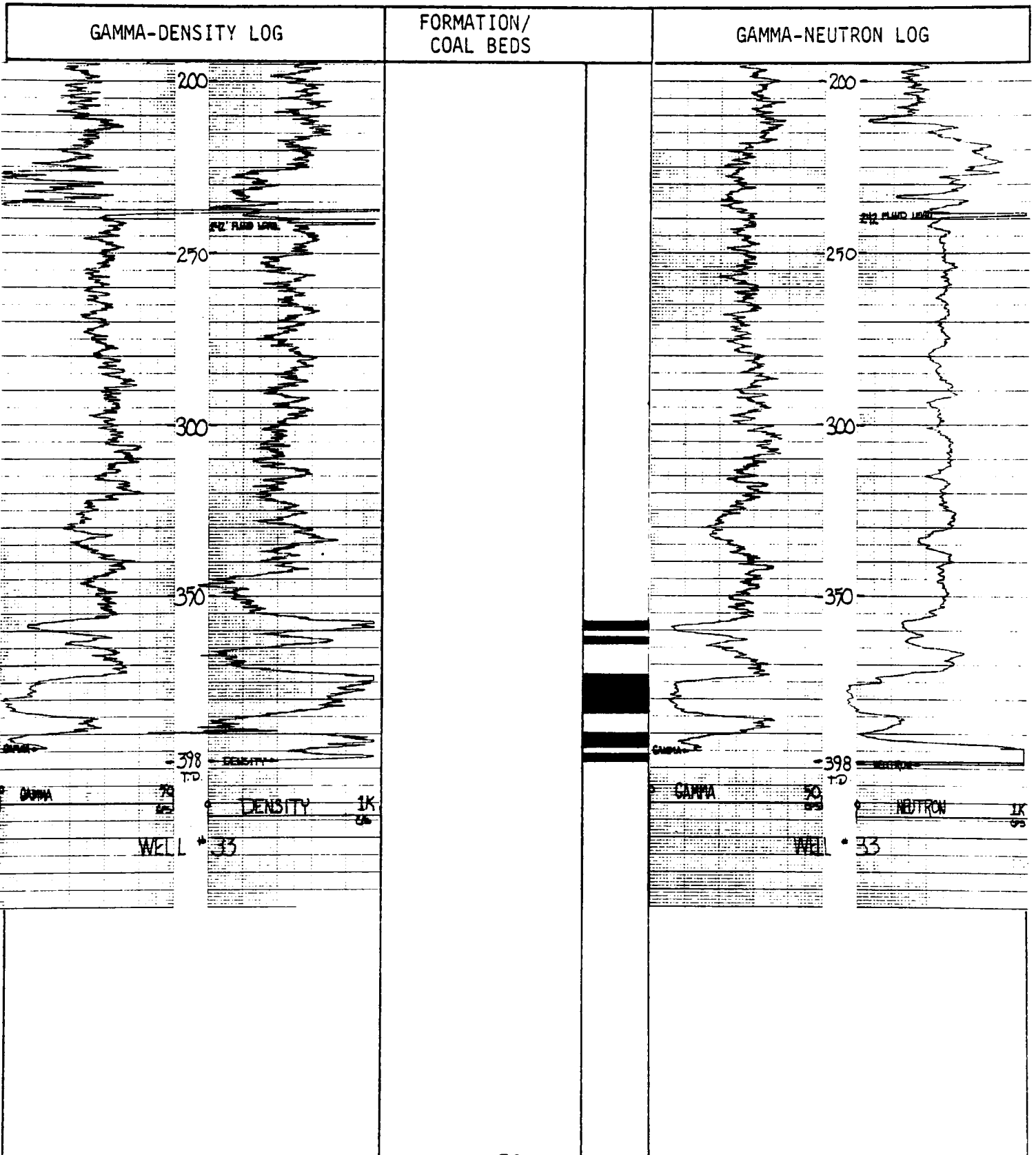
Remarks: Cattle Gulch Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 33

-Continued



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

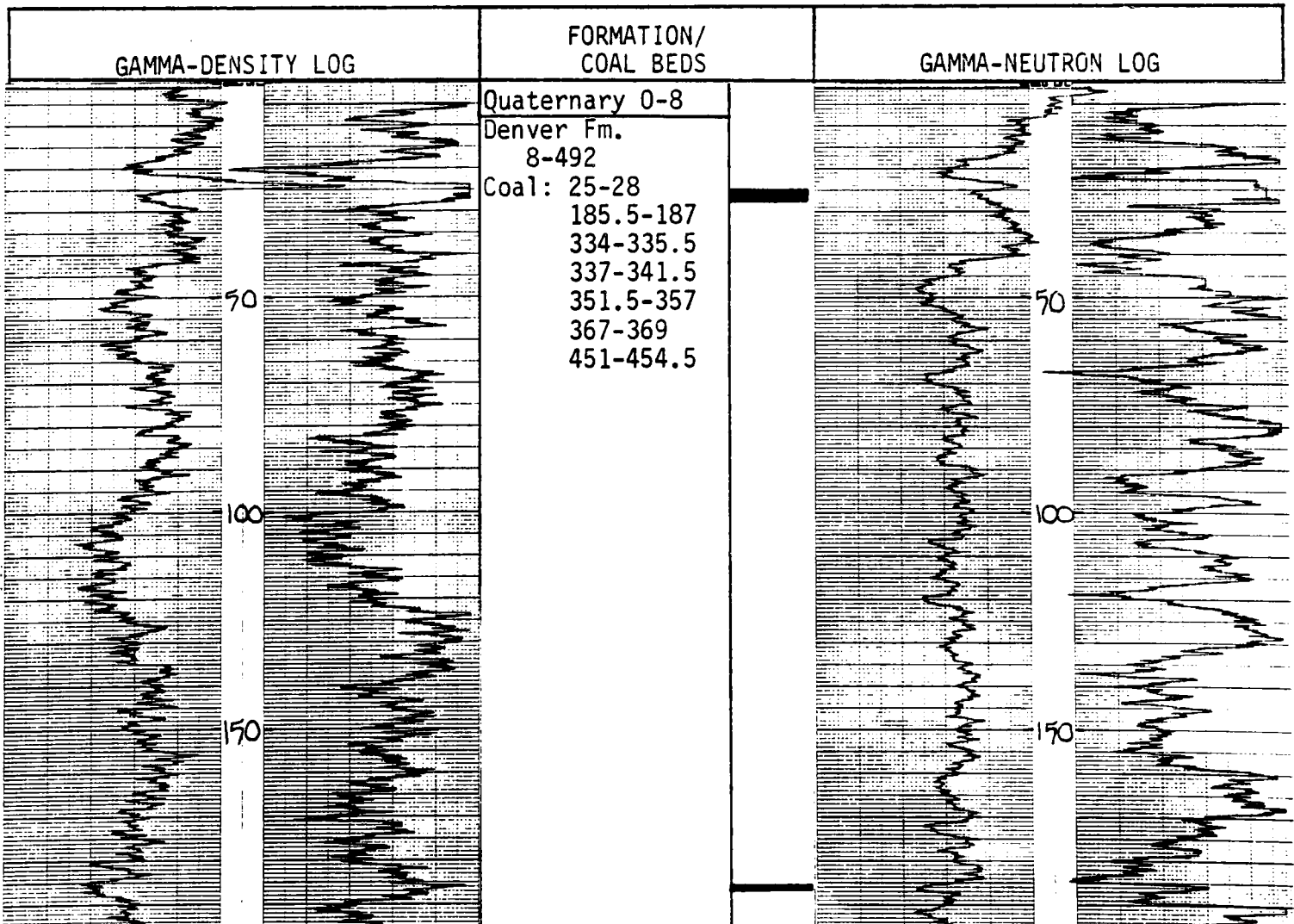
Well No. 34 State-Colorado County- Elbert Date Logged-11/10/81
 Location: T. 10 S., R. 62 W., sec. SWSW 9 Elevation (ft) 6270
 Total depth 570 Logged depth 557 Fluid level 254

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: 0-317 6 5/8" steel; 317-570 4 1/2" steel (perforated).

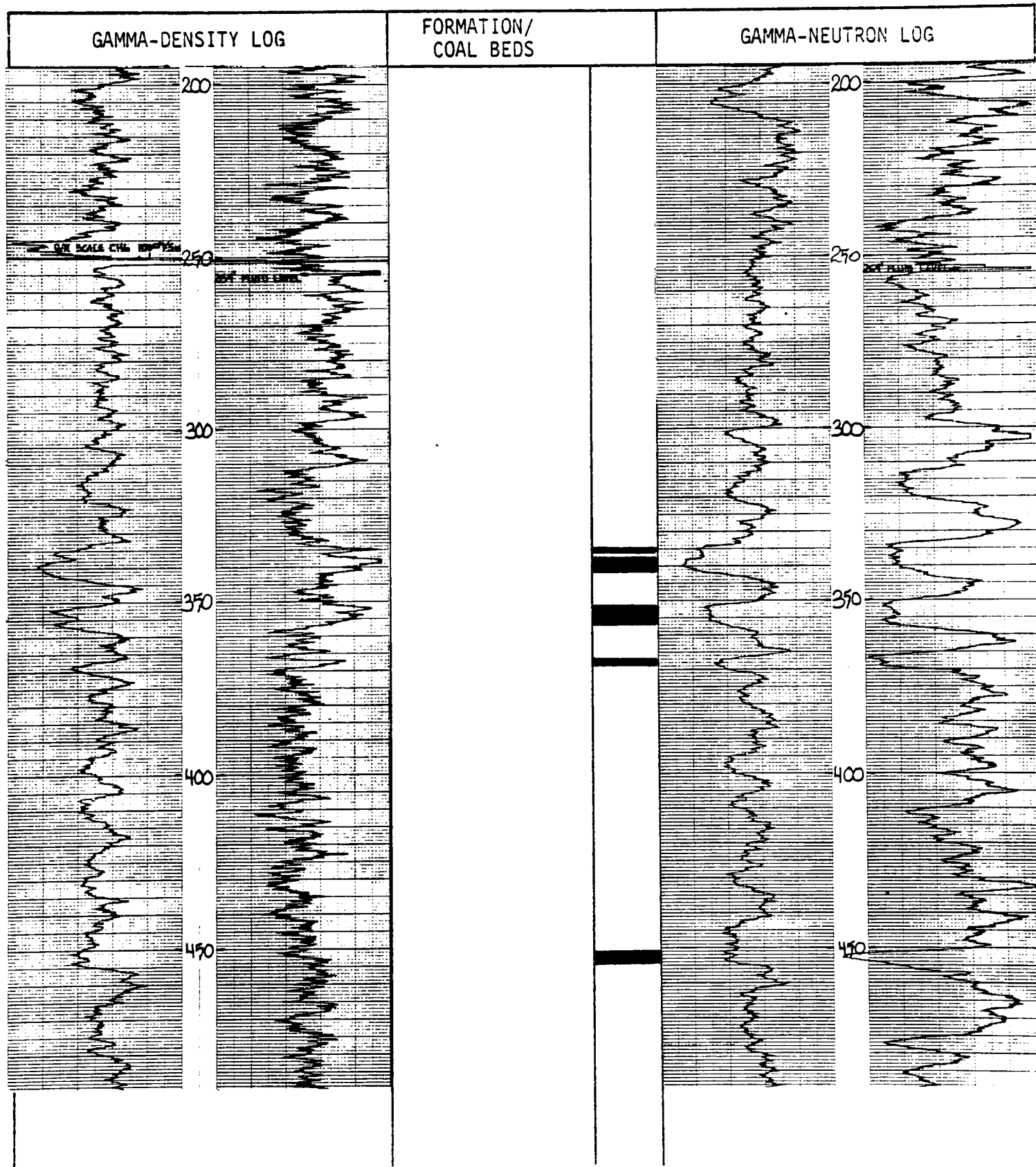
Remarks: Fondis Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 34

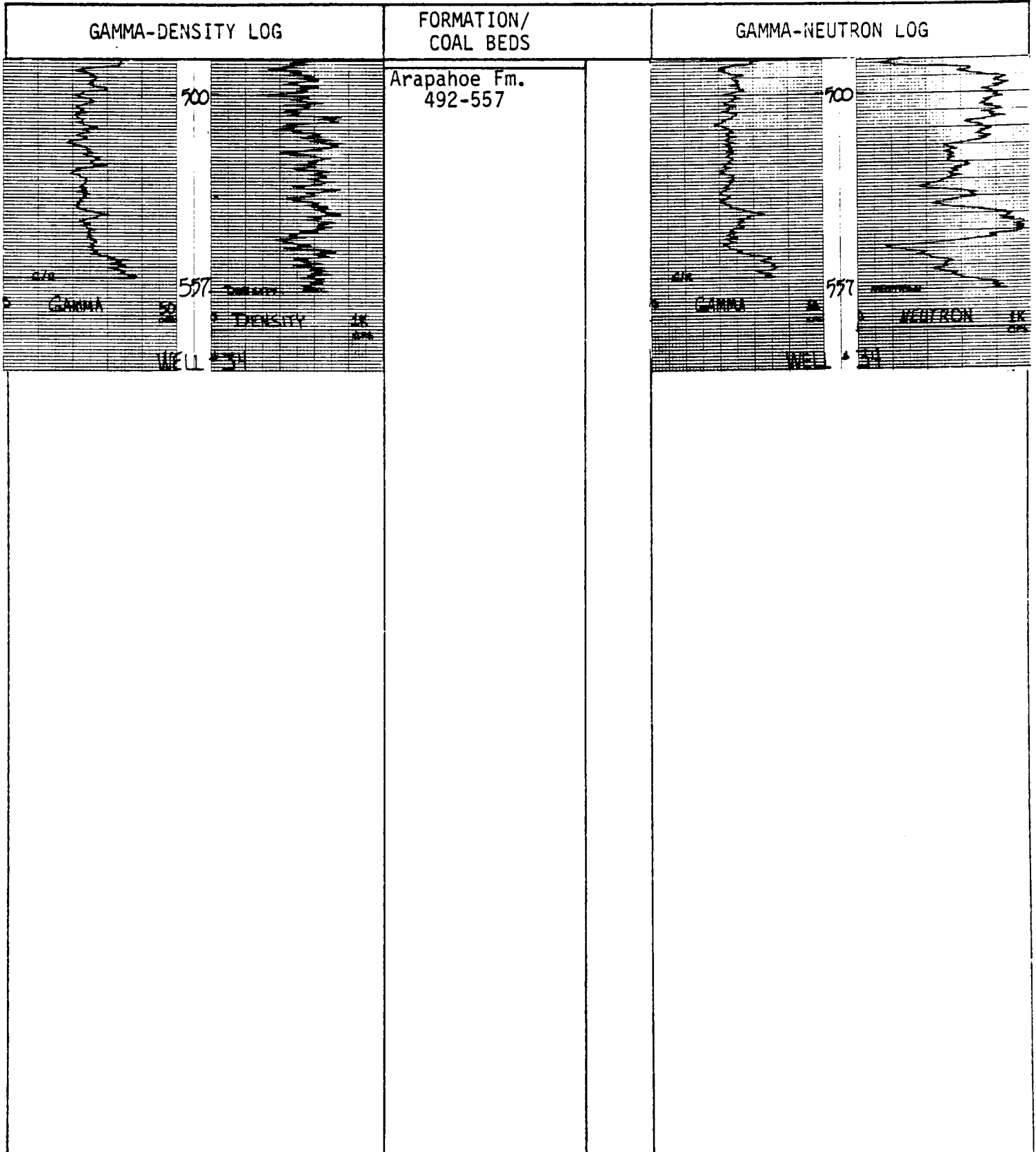
-Continued



COLORADO GEOLOGICAL SURVEY

Well No. 34

-Continued



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

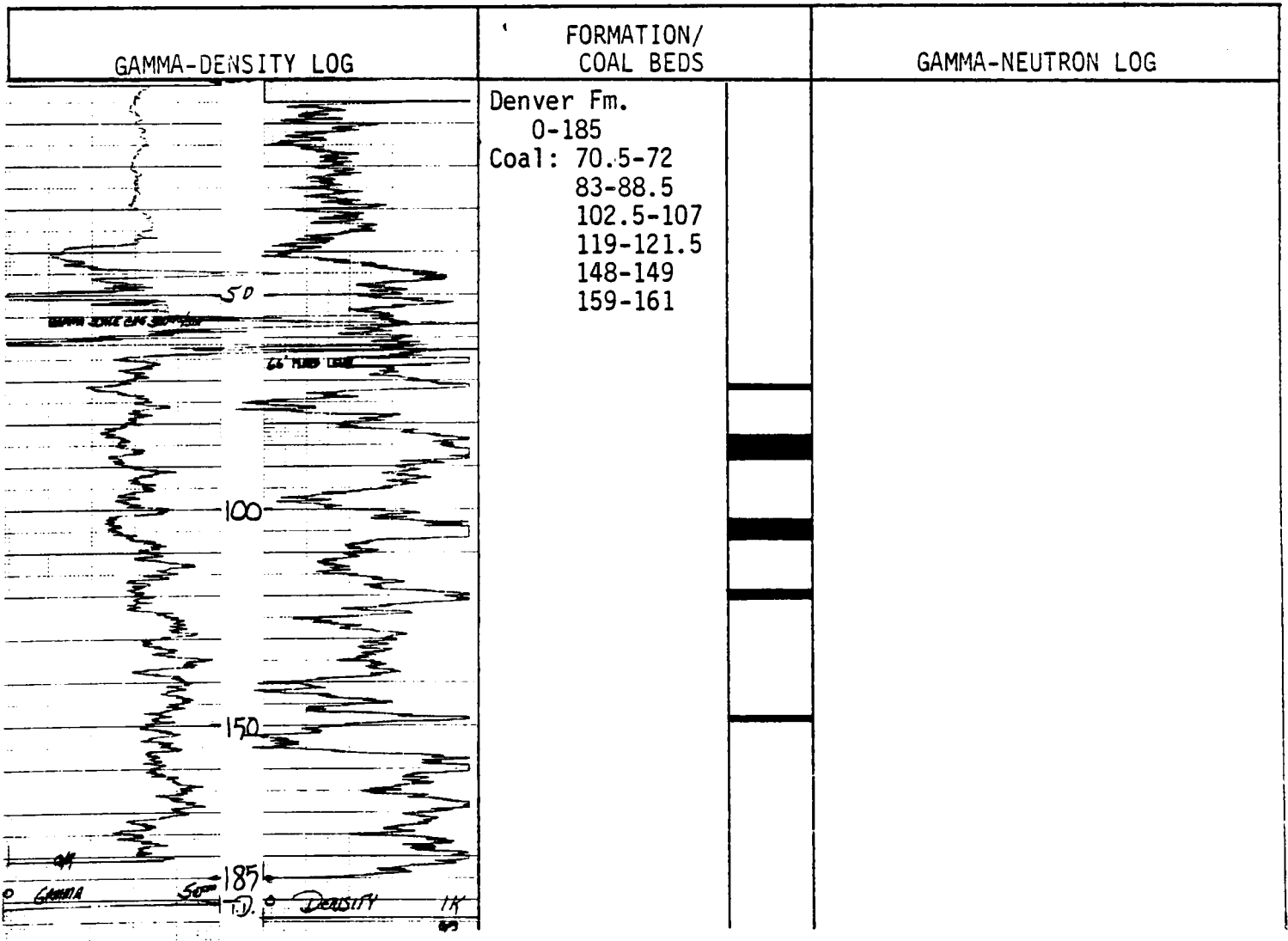
Well No. 34A State-Colorado County- Elbert Date Logged- 11/9/81
 Location: T. 10 S., R. 62 W., sec. NWSE 9 Elevation (ft) 6290
 Total depth 190 Logged depth 185 Fluid level 66

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC		Scale	cps/in	Logging speed		fpm
Neutron:	TC		Scale	cps/in	Logging speed		fpm

Casing Information: 0-190 5" PVC (perforated 130-150, 170-190).

Remarks: Fondis Quadrangle. No neutron log run due to plastic casing.



COLORADO GEOLOGICAL SURVEY
 WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

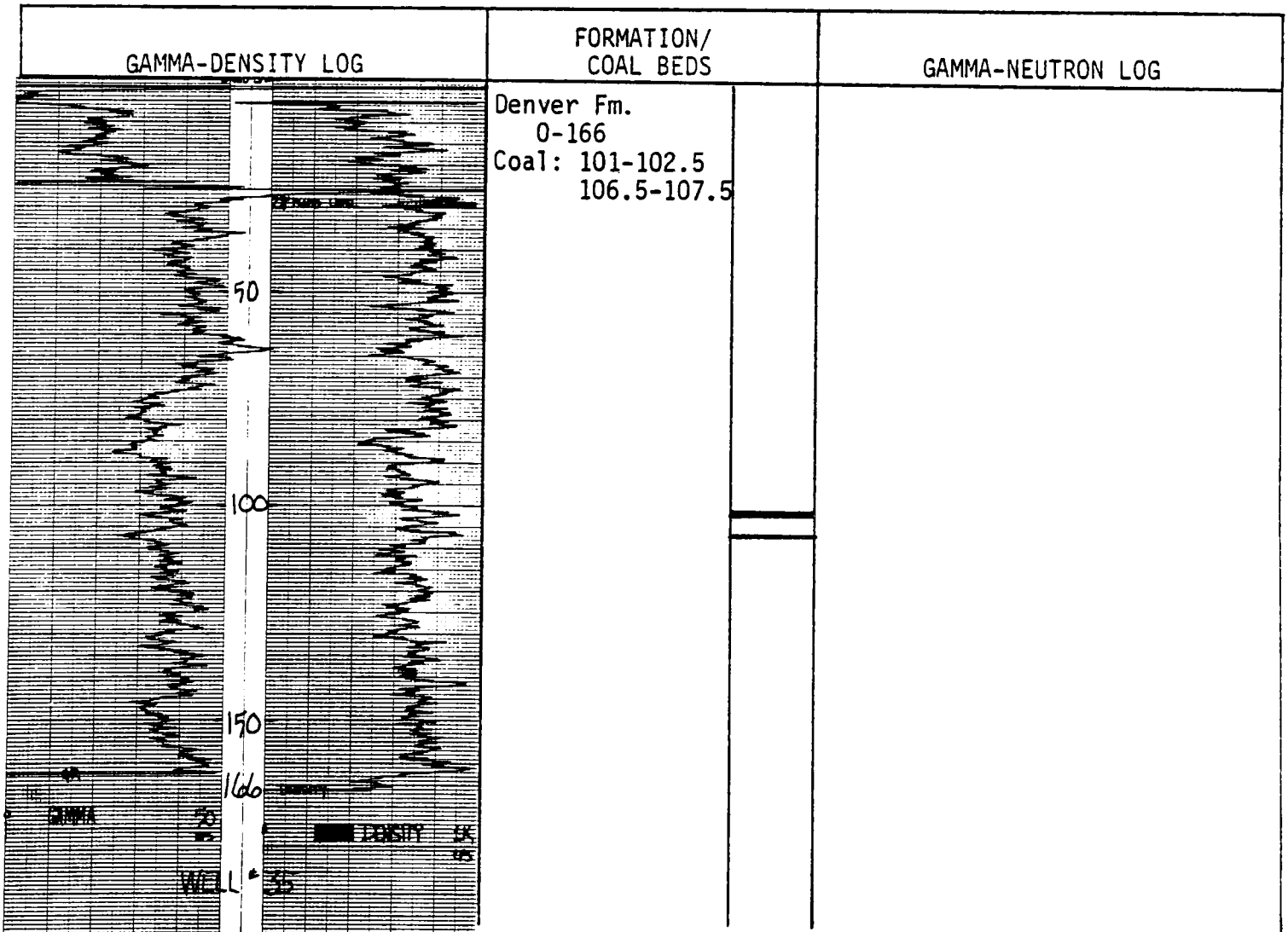
Well No. 35 State-Colorado County- Elbert Date Logged- 11/7/81
 Location: T. 10 S., R. 62 W., sec. NWSE 29 Elevation (ft) 6390
 Total depth 166 Logged depth 166 Fluid level 28

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC		Scale	cps/in	Logging speed		fpm
Neutron:	TC		Scale	cps/in	Logging speed		fpm

Casing Information: N/A (PVC).

Remarks: Fondis Quadrangle. No neutron log run due to plastic casing.



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

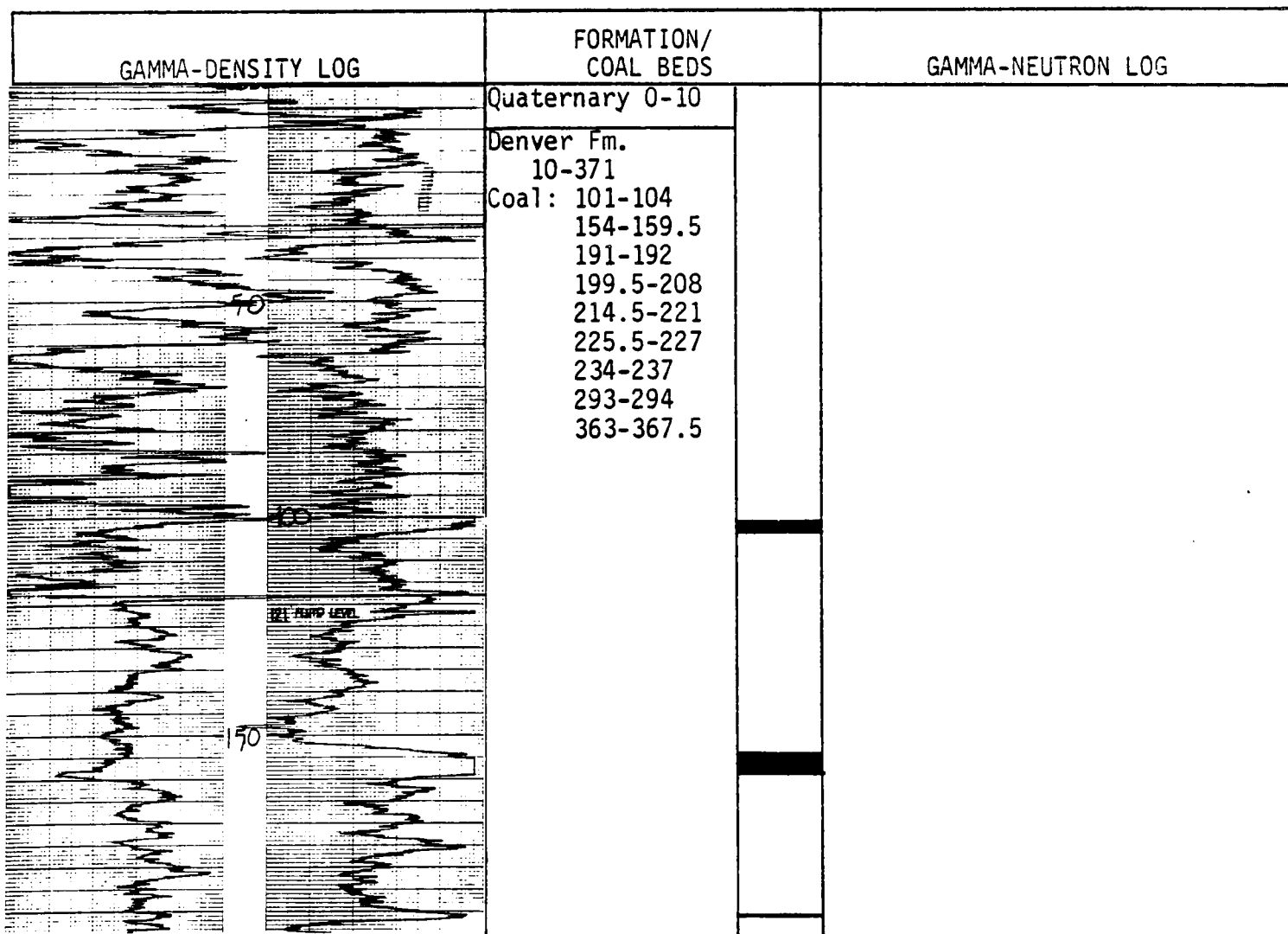
Well No. 36 State-Colorado County- Elbert Date Logged- 11/4/81
 Location: T. 7 S., R. 62 W., sec. SENE 1 Elevation (ft) 5720
 Total depth 371 Logged depth 371 Fluid level 121

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC		Scale	cps/in	Logging speed		fpm
Neutron:	TC		Scale	cps/in	Logging speed		fpm

Casing Information: 4½" PVC.

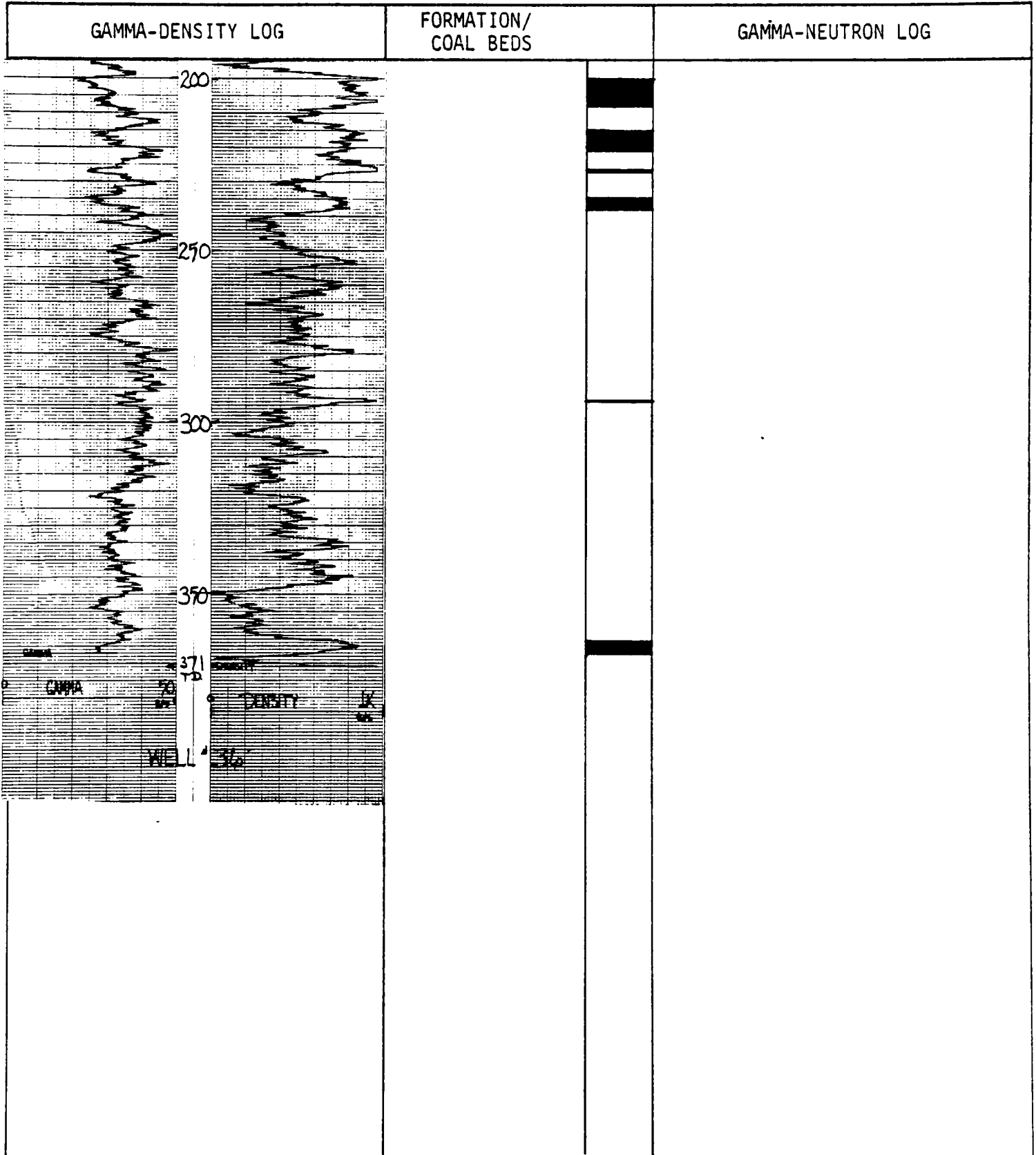
Remarks: Kiowa NE Quadrangle. No neutron log run due to plastic casing.



COLORADO GEOLOGICAL SURVEY

Well No. 36

-Continued



COLORADO GEOLOGICAL SURVEY
 WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

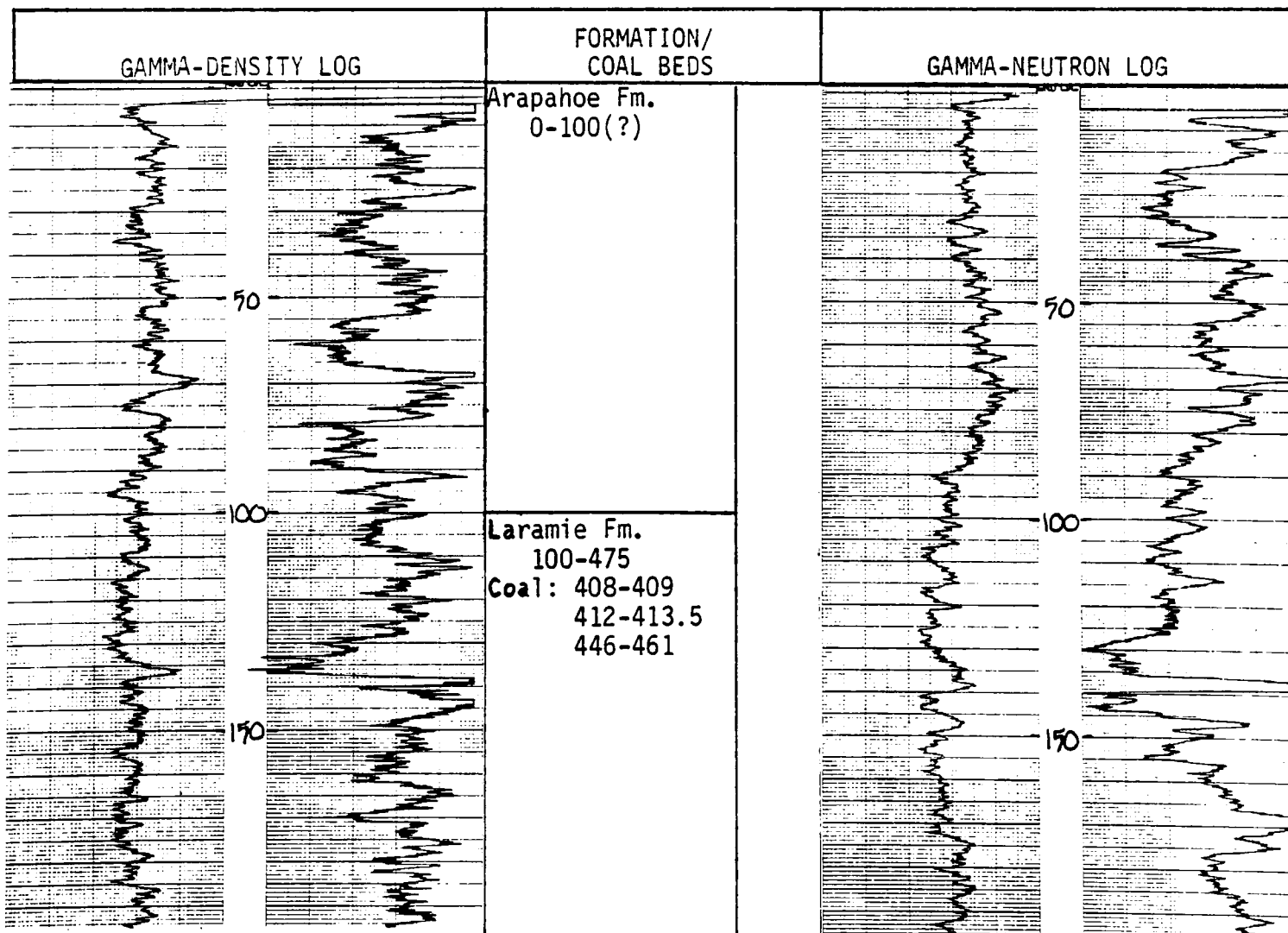
Well No. 39 State-Colorado County- Elbert Date Logged-11/13/81
 Location: T. 10 S., R. 59 W., sec. NENE 6 Elevation (ft) 5940
 Total depth 534 Logged depth 534 Fluid level 220

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: 0-302 4½" steel (perforated 242-302).

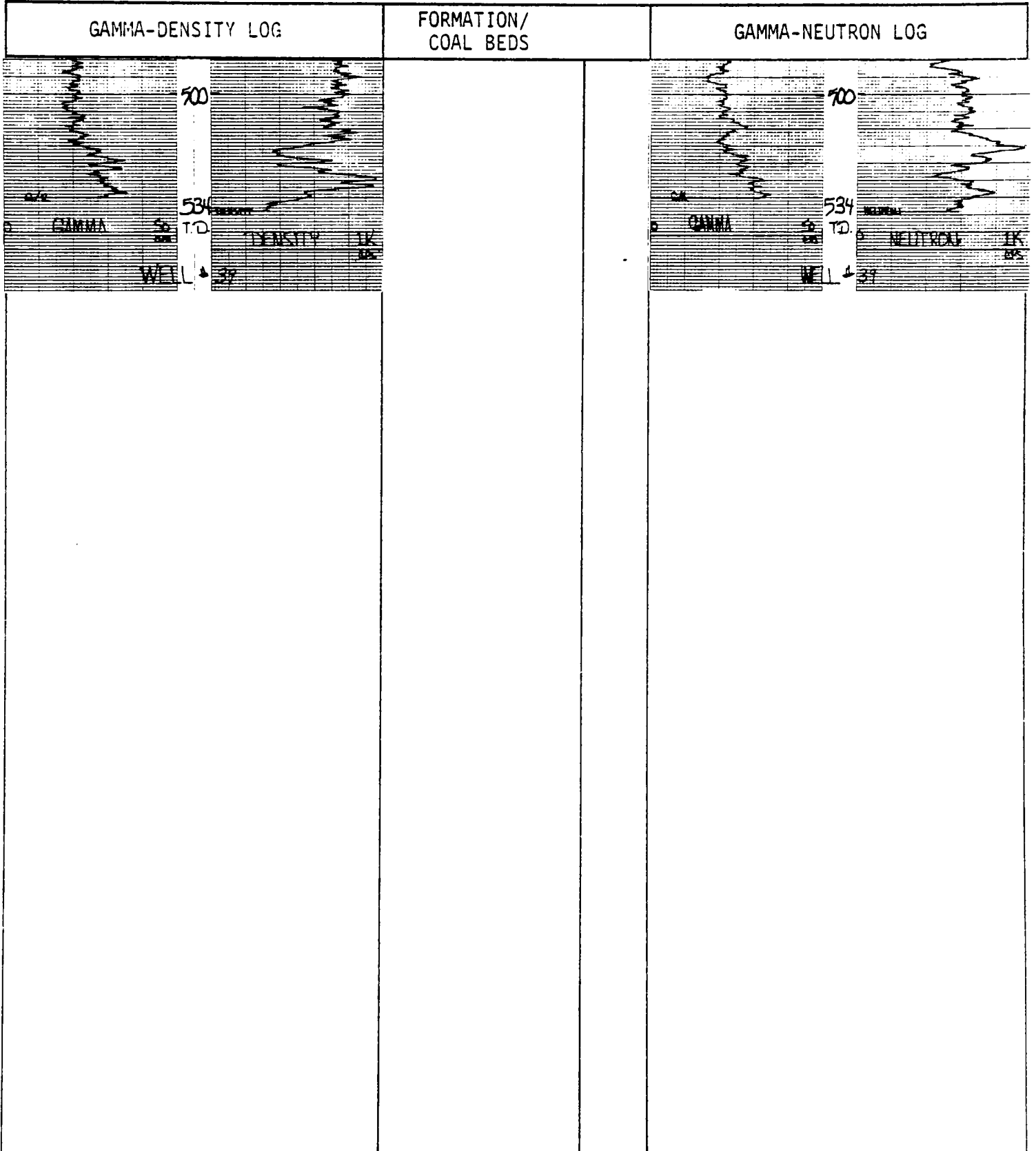
Remarks: Simla Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 39

-Continued



COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

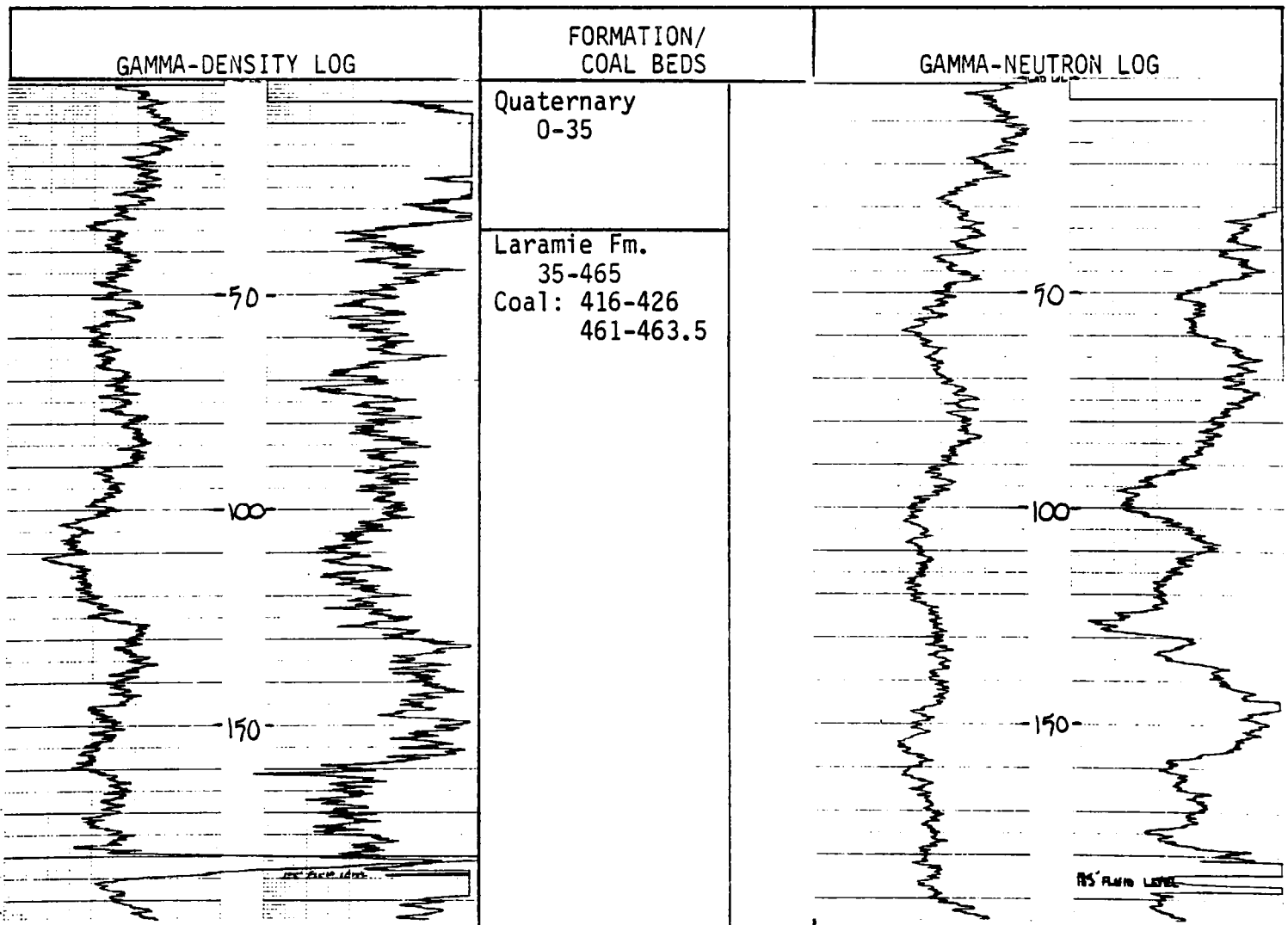
Well No. 40 State-Colorado County- Elbert Date Logged-11/17/81
 Location: T. 10 S., R. 60 W., sec. NENW 35 Elevation (ft) 6000
 Total depth 580 Logged depth 512 Fluid level 185

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: 0-184 6" steel; 184-512 4½" steel.

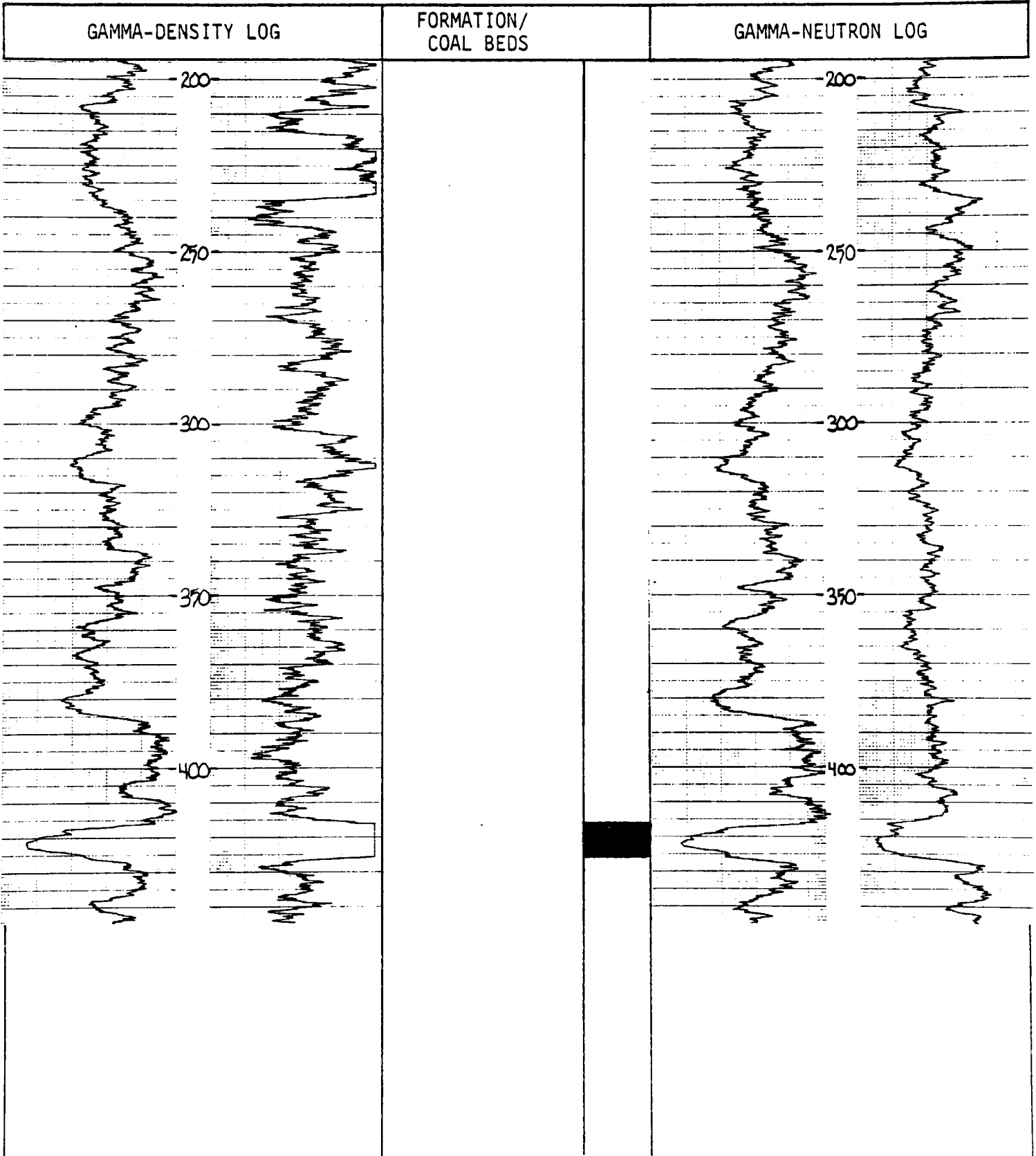
Remarks: Simla Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 40

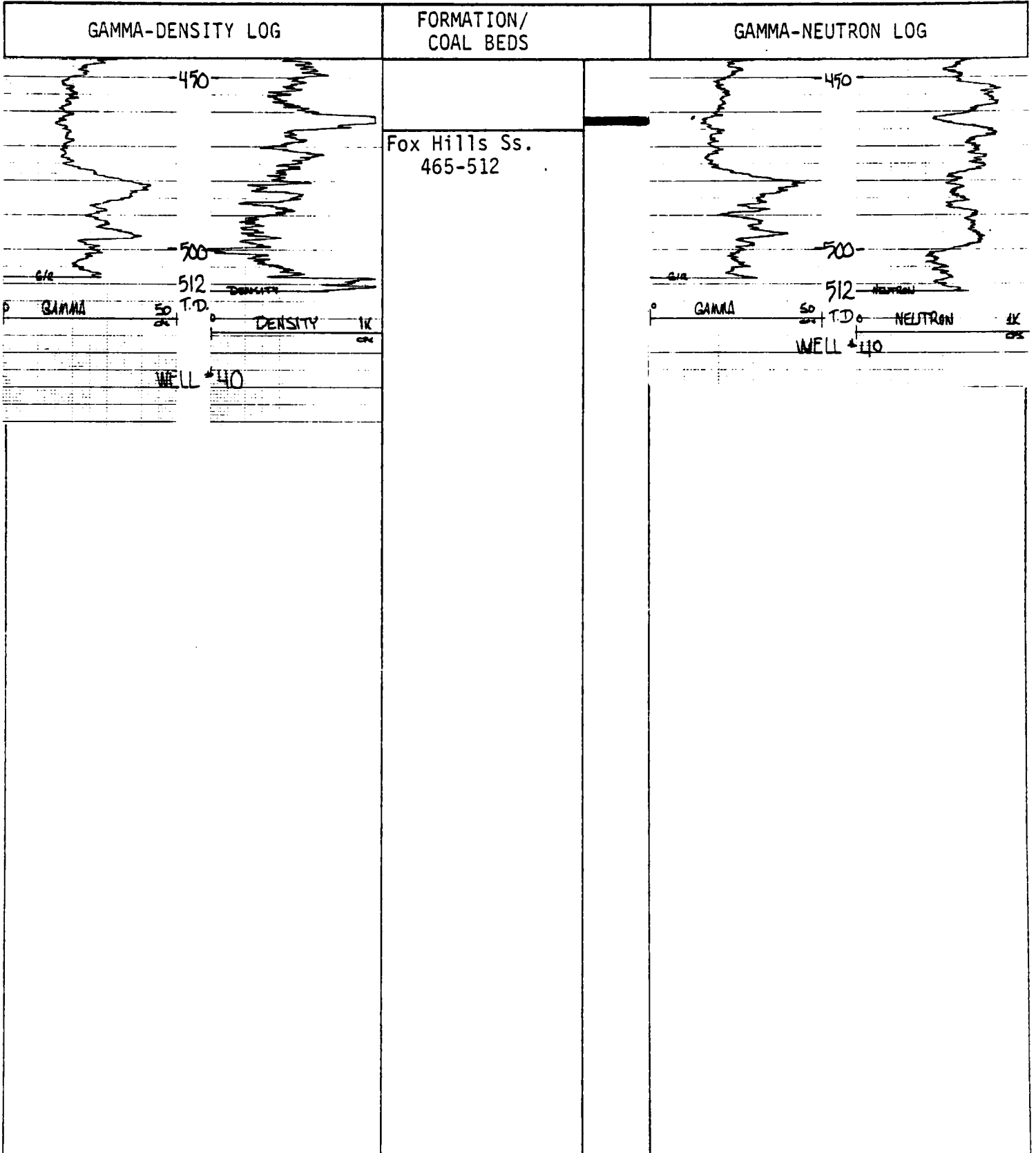
-Continued



COLORADO GEOLOGICAL SURVEY

Well No. 40

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COLORADO GEOLOGICAL SURVEY
 WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

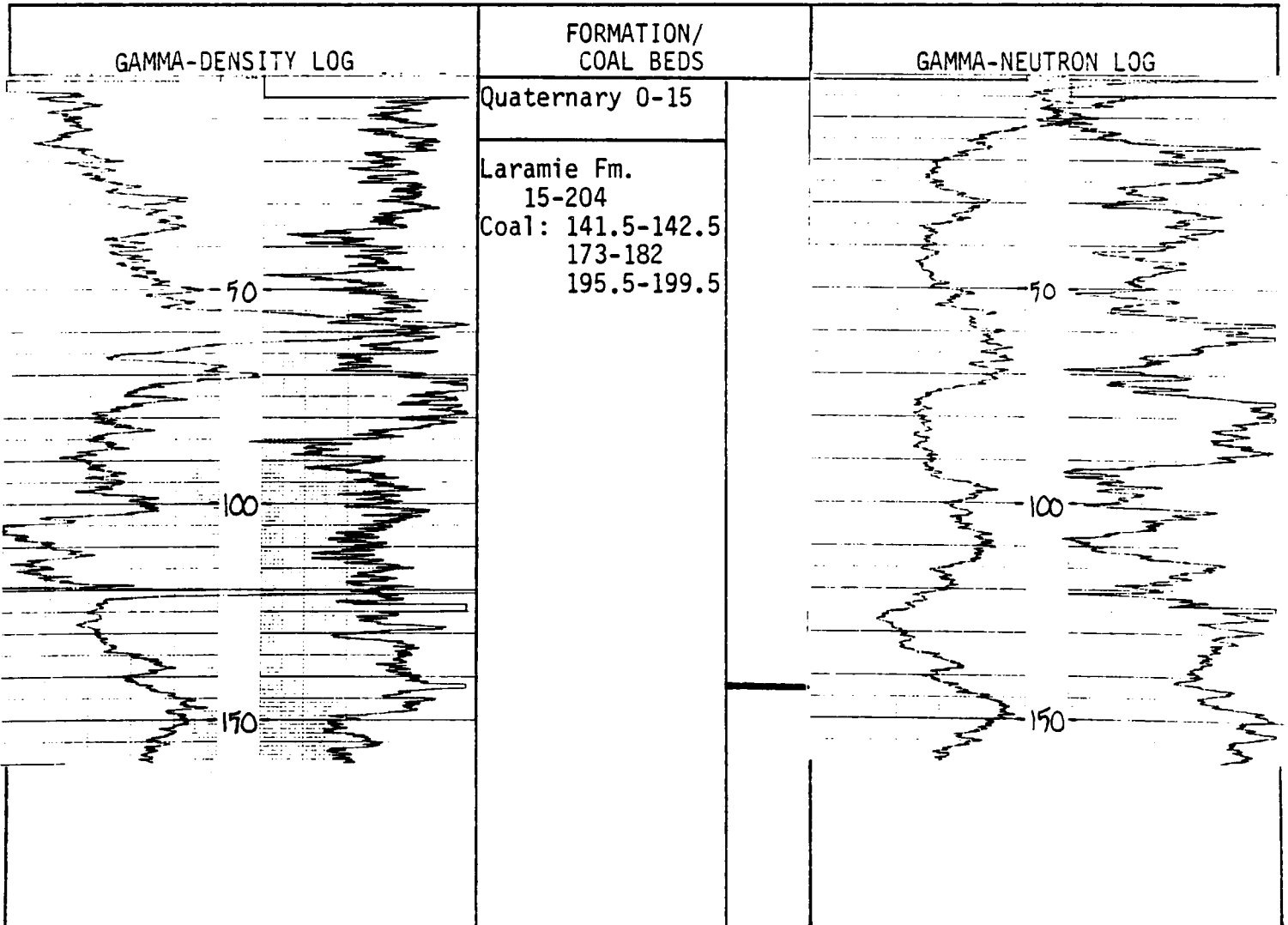
Well No. 42 State-Colorado County- Elbert Date Logged- 11/19/81
 Location: T. 8 S., R. 59 W., sec. SWSW 12 Elevation (ft) 5653
 Total depth 212 Logged depth 204 Fluid level 125

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: N/A

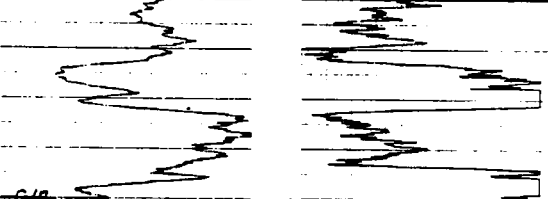
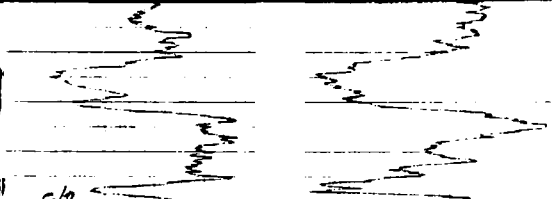
Remarks: Beuck Draw Quadrangle



COLORADO GEOLOGICAL SURVEY

Well No. 42

-Continued

GAMMA-DENSITY LOG	FORMATION/ COAL BEDS	GAMMA-NEUTRON LOG
 <p> 204 GAMMA DENSITY SO T.D. TK WELL # 42 42 </p>		 <p> 204 GAMMA NEUTRON SO T.D. TK WELL # 42 42 </p>

COLORADO GEOLOGICAL SURVEY

WATER WELL LOG, CASTLE ROCK 1/2° X 1° QUADRANGLE

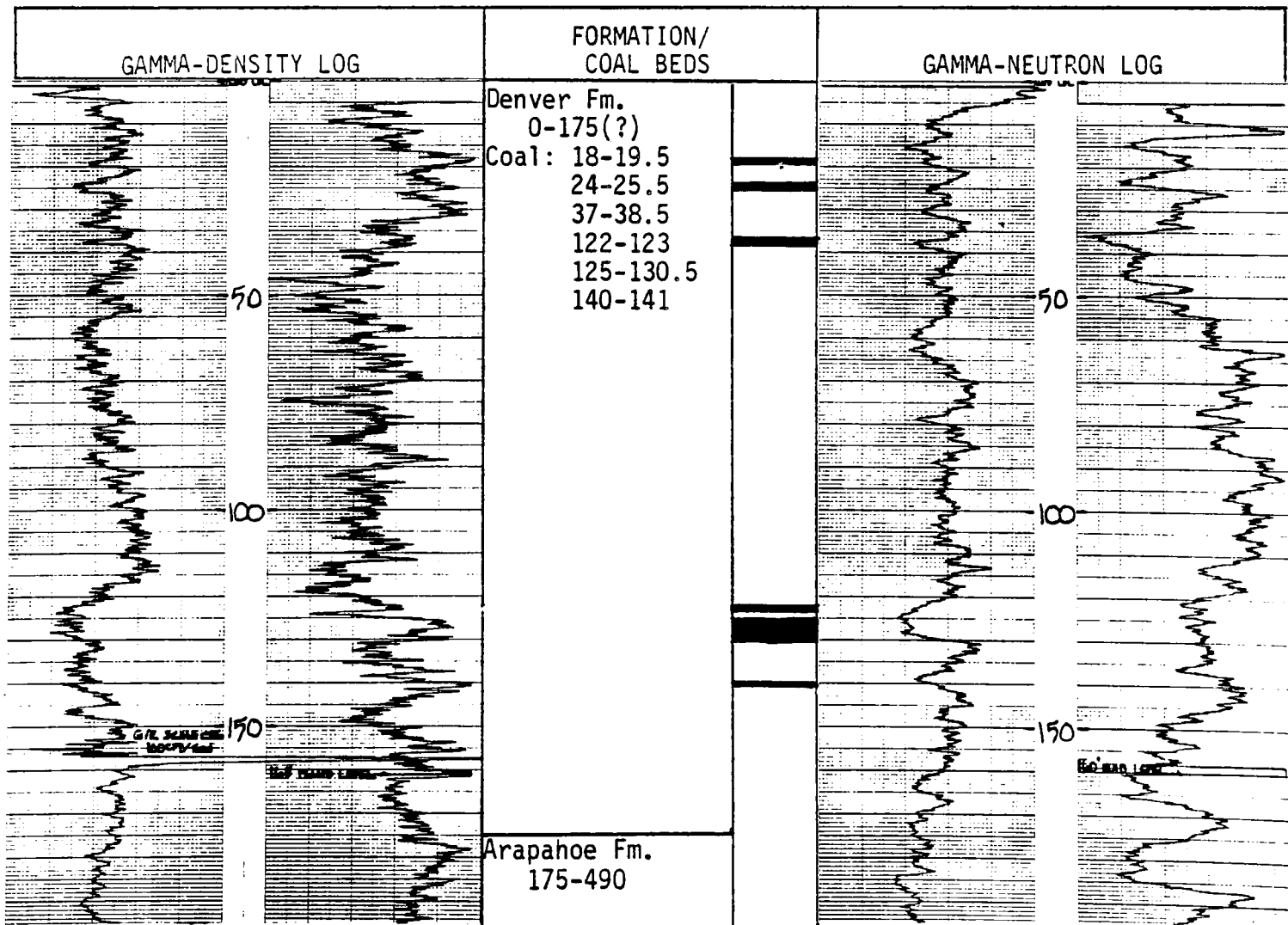
Well No. 50 State-Colorado County- Elbert Date Logged- 11/14/81
 Location: T. 8 S., R. 61 W., sec. SWSE 4 Elevation (ft) 5930
 Total depth 500 Logged depth 490 Fluid level 160

Geophysical logs:

Gamma (I):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Density:	TC	2	Scale	200 cps/in	Logging speed	20	fpm
Gamma (II):	TC	2	Scale	10 cps/in	Logging speed	20	fpm
Neutron:	TC	2	Scale	200 cps/in	Logging speed	20	fpm

Casing Information: N/A

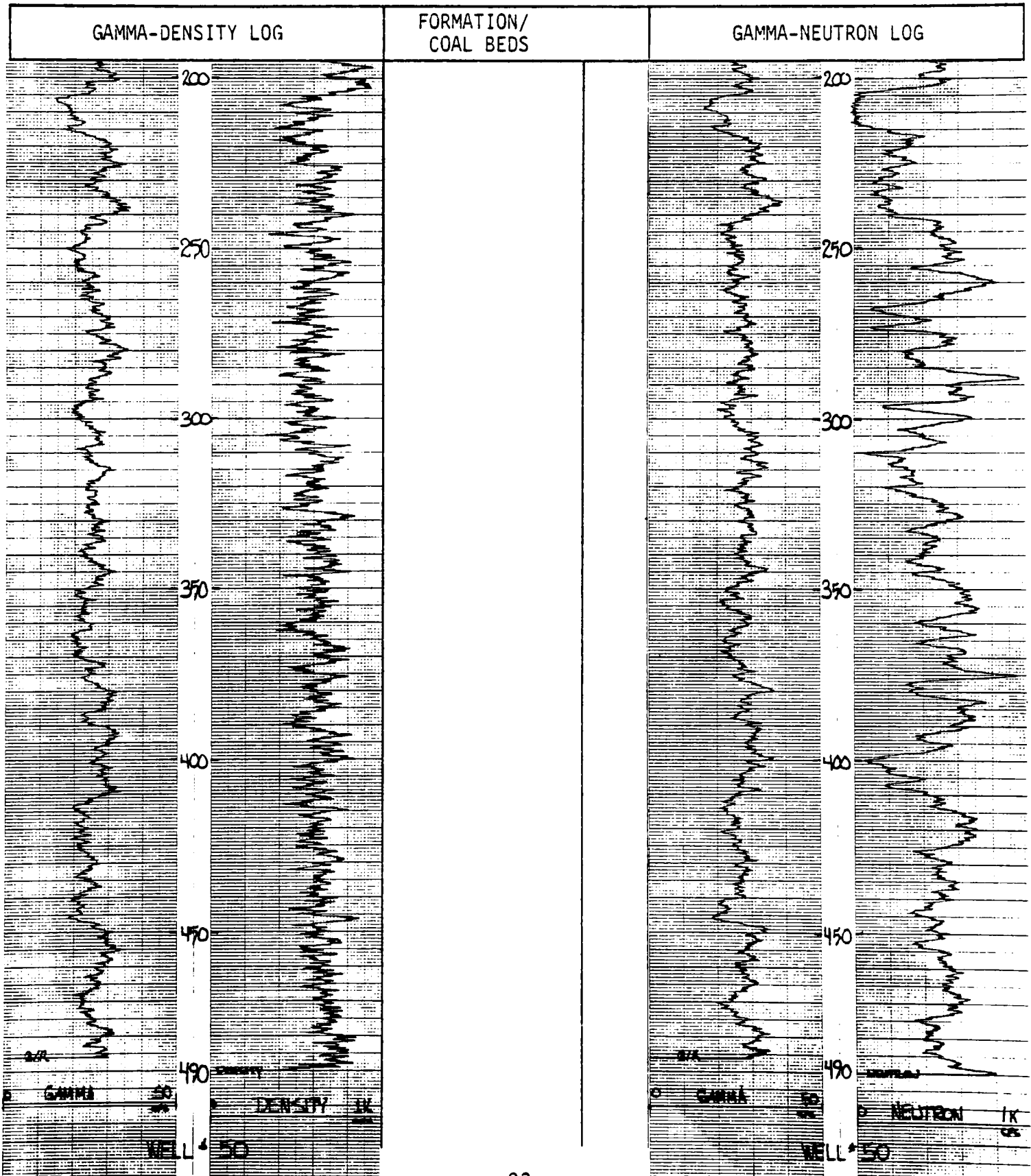
Remarks: Bijou Quadrangle

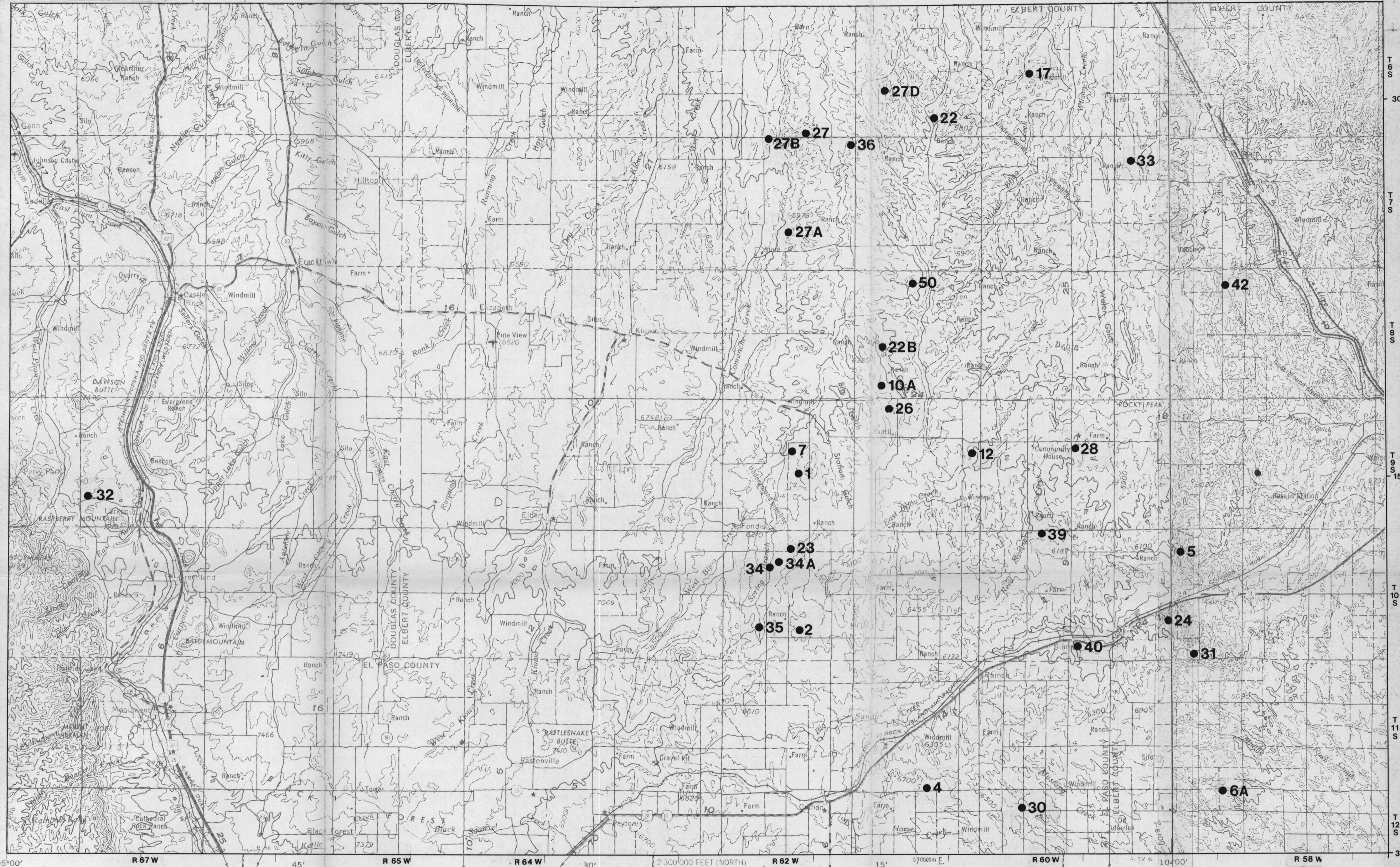


COLORADO GEOLOGICAL SURVEY

Well No. 50

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O.F. 81-8

SCALE
1:200,000

INDEX MAP OF WATER WELL LOCATIONS, CASTLE ROCK 1/2° X 1° QUADRANGLE

BY WYNN EAKINS



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