

Status Report

Total Records: 153

Top 3 County Records		Top 3 Log Type Records		Top 3 Coal Records		Top 3 Member Records	
Moultrie	153	Electric Log	100	DANVILLE	123	DANVILLE COAL	123
		Drillers Log	26	HERRIN	110	WEST FRANKLIN LIMESTONE	115
		Multiple log types	17	SPRINGFIELD	85	HERRIN COAL	110

Data Summary

Cross-tabulation of all selected logs, individual logs will vary.

Tabulation of logged intervals only, individual logs will vary.

Depth and Thickness measurements in feet

Member	Lithology	Avg. Depth	Min. Depth	Max. Depth	Avg. Thk	Min. Thk	Max. Thk
SHUMWAY	LIMESTONE	133.0	133.0	133.0	9.0	9.0	9.0
MILLERSVILLE	LIMESTONE	372.2	209.0	444.0	33.4	3.0	63.0
CARTHAGE	LIMESTONE	582.9	410.0	753.0	8.4	5.0	13.0
MACOUPIN	LIMESTONE	663.5	650.0	677.0	5.0	4.0	6.0
CHAPEL	COAL	746.2	735.0	755.5	1.3	1.0	2.0
WEST FRANKLIN	LIMESTONE	718.8	550.0	882.0	15.4	5.0	35.8
PIASA	LIMESTONE	786.0	786.0	786.0	6.0	6.0	6.0
DANVILLE	COAL	845.5	653.0	1012.0	2.9	2.0	5.2
DANVILLE SUMP	COAL	916.1	829.0	976.5	1.3	0.8	2.5
BANKSTON FORK	LIMESTONE	878.6	878.6	878.6	4.4	4.4	4.4
JAMESTOWN	COAL	942.5	912.0	963.5	1.5	0.6	2.6
BRERETON	LIMESTONE	885.9	835.0	956.1	5.5	0.9	9.5
ANNA	SHALE	916.7	868.2	957.0	3.2	0.8	6.0
HERRIN	COAL	906.0	750.0	1092.0	4.4	2.0	17.5
ST. DAVID	LIMESTONE	938.0	844.0	987.5	1.1	0.5	2.0
TURNER MINE	SHALE	951.0	844.5	994.0	2.9	1.0	5.0
SPRINGFIELD	COAL	922.9	776.0	1098.0	3.5	1.0	5.0
EXCELLO	SHALE	1078.0	1078.0	1078.0	3.0	3.0	3.0
HOUCHIN CREEK	COAL	975.1	801.0	1206.0	-	-	-
SURVANT	COAL	1138.0	1138.0	1138.0	3.0	3.0	3.0
MECCA QUARRY	SHALE	1177.0	1177.0	1177.0	1.0	1.0	1.0
COLCHESTER	COAL	1070.3	946.0	1178.0	1.0	1.0	1.0
SEELYVILLE	COAL	1194.0	1194.0	1194.0	7.0	7.0	7.0
				Net Coal	25.9		

Coal Logs

This report contains non-confidential coal log descriptions from the Coal Section's stratigraphic database in the county listed. Coal logs are sorted by township/range and section. For each log, North American Datum 1983 (NAD83) Longitude/Latitude coordinates in decimal degrees are provided as well as a legal description which uses the Public Land Survey System (PLSS). The following are two examples of coal log locations:

**Example location 1: COUNTY: SALINE TWP/RNG: 7S 5E SECTION: 19 QUARTERS/FOOTAGES: 330'S line, 330'W line of SE NE
LONGITUDE: -88.691911 LATITUDE: 37.900435**

This log is from a borehole located in Saline County, Township 7 South, Range 5 East, 330 feet from the south line and 330 feet from the west line of the southeast quarter of the northeast quarter of section 19.

**Example location 2: COUNTY: SALINE TWP/RNG: 9S 5E SECTION: 36 QUARTERS/FOOTAGES: 530'N, 530'W, SE/c NE NW
LONGITUDE: -88.60834 LATITUDE: 37.700006**

This log is from a borehole located in Saline County, Township 9 South, Range 5 East, 530 feet north and 530 feet west of the southeast corner of the northeast quarter of the northwest quarter of section 36.

Beneath the header is geology information for that data point. The Coal Section stratigraphic database from which this .PDF file is derived is a multi-project database which contains drill hole and outcrop descriptions of Pennsylvanian stratigraphy in Illinois. Consequently, the level of detail and accuracy in the data and their interpretation vary (sometimes widely) with the geologist, project type, or original data source. Multiple descriptions of a particular location may be present. Note that both the coal stratigraphic database and this .PDF listing are only a subset of the total amount of data available from the ISGS Geologic Records Library archives, and reflect only coal-specific data and interpretations of past and present Coal Section geologists. They are not a comprehensive listing of all data that may be available from the ISGS.

MAPID: 13900281000C **VERSION:** 1 **PROJECT:** BLM
COUNTY: MOULTRIE **TWP/RNG:** 12N 5E **SECTION:** 1 **QUARTERS/FOOTAGES:** 50' S line, 50' E line
QUADRANGLE: SULLIVAN **LONGITUDE:** -88.584782 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.506062 **DATE COLLECTED:** 6 / 22 / 1951
SURFACE ELEVATION (FT.): 654.0 **LOGGED (FT.):** 407.0 **LOG TYPE:** Drillers Log
SOURCE: SUN OIL CO. **WELL TYPE:** Engineering Test Holes
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
654.0			UNCONSOLIDATED	116.0	0.0
538.0			ROCK	163.0	116.0
375.0			COAL	2.0	279.0
373.0			ROCK	96.0	281.0
277.0			SHALE/COAL	1.0	377.0
276.0			ROCK	29.0	378.0

MAPID: 13900282000C VERSION: 1

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 12N 5E SECTION: 2 QUARTERS/FOOTAGES: 50' S line, 50' W line

QUADRANGLE: SULLIVAN LONGITUDE: -88.62241 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.506642 DATE COLLECTED: 6 / 18 / 1951

SURFACE ELEVATION (FT.): 652.0 LOGGED (FT.): 366.0 LOG TYPE: Drillers Log

SOURCE: SUN OIL CO. WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
652.0			UNCONSOLIDATED	118.0	0.0
534.0			ROCK	104.0	118.0
430.0			COAL WITH SHALE	3.0	222.0
427.0			ROCK	108.0	225.0
319.0			COAL	1.0	333.0
318.0			ROCK	32.0	334.0

MAPID: 13900283000C VERSION: 1

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 12N 5E SECTION: 2 QUARTERS/FOOTAGES: 50' S line, 50' E line

QUADRANGLE: SULLIVAN LONGITUDE: -88.603877 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.506267 DATE COLLECTED: 6 / 20 / 1951

SURFACE ELEVATION (FT.): 657.0 LOGGED (FT.): 388.0 LOG TYPE: Drillers Log

SOURCE: SUN OIL CO. WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
657.0			UNCONSOLIDATED	155.0	0.0
502.0			ROCK	105.0	155.0
397.0			COAL WITH SHALE	4.0	260.0
393.0			ROCK	95.0	264.0
298.0			COAL	2.0	359.0
296.0			ROCK	0.0	361.0

MAPID: 13900191000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 12N 5E SECTION: 11 QUARTERS/FOOTAGES: NE SW NE
 QUADRANGLE: SULLIVAN LONGITUDE: -88.609486 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.501697 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 1126.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
56.0	BOND	CARTHAGE	LIMESTONE	10.0	604.0
-92.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	752.0
-221.0	CARBONDALE	DANVILLE	COAL	2.0	881.0
-267.0	CARBONDALE	HERRIN	COAL	2.5	927.0
-286.0	CARBONDALE	SPRINGFIELD	COAL	-	946.0
-355.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1015.0

MAPID: 13900186000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 12N 6E SECTION: 5 QUARTERS/FOOTAGES: NW NW NE
 QUADRANGLE: SULLIVAN LONGITUDE: -88.554911 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.519903 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 653.0 LOGGED (FT.): 1040.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
32.0	BOND	CARTHAGE	LIMESTONE	8.0	621.0
-232.0	CARBONDALE	DANVILLE	COAL	-	885.0
-291.0	CARBONDALE	HERRIN	COAL	3.0	944.0
-309.0	CARBONDALE	SPRINGFIELD	COAL	-	962.0
-387.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1040.0

MAPID: 13900186000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 12N 6E SECTION: 5 QUARTERS/FOOTAGES: NW NW NE

QUADRANGLE: SULLIVAN LONGITUDE: -88.554911 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.519903 DATE COLLECTED: 8 / 20 / 1963

SURFACE ELEVATION (FT.): 653.0 LOGGED (FT.): 1040.0 LOG TYPE: Electric Log

SOURCE: T. L. METCALF WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORGY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.0			UNKNOWN	885.0	0.0	
-232.0	CARBONDALE	DANVILLE	COAL	-	885.0	
-232.0	CARBONDALE		ROCK	59.0	885.0	
-291.0	CARBONDALE	HERRIN	COAL	3.0	944.0	
-294.0	CARBONDALE		ROCK	15.0	947.0	
-309.0	CARBONDALE	SPRINGFIELD	COAL	-	962.0	
-309.0	CARBONDALE		ROCK	78.0	962.0	
-387.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1040.0	

MAPID: 13900193000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 12N 6E SECTION: 8 QUARTERS/FOOTAGES: NW NW SW

QUADRANGLE: WINDSOR LONGITUDE: -88.563981 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.497991 DATE COLLECTED:

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 1124.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
53.0	BOND	CARTHAGE	LIMESTONE	10.0	612.0	
-95.0	MODESTO	WEST FRANKLIN	LIMESTONE	21.0	760.0	
-200.0	CARBONDALE	DANVILLE	COAL	-	865.0	
-261.0	CARBONDALE	HERRIN	COAL	3.0	926.0	
-353.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1018.0	

MAPID: 13900194000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: MOULTRIE **TWP/RNG:** 12N 6E **SECTION:** 10 **QUARTERS/FOOTAGES:** SW NW SW
QUADRANGLE: WINDSOR **LONGITUDE:** -88.526169 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.496068 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 664.0 **LOGGED (FT.):** 1150.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
4.0	BOND	CARTHAGE	LIMESTONE	10.0	660.0	
-130.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	794.0	
-258.0	CARBONDALE	DANVILLE	COAL	3.0	922.0	
-310.0	CARBONDALE	HERRIN	COAL	3.0	974.0	
-397.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1061.0	

MAPID: 13900195000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: MOULTRIE **TWP/RNG:** 12N 6E **SECTION:** 11 **QUARTERS/FOOTAGES:** NW NE NE
QUADRANGLE: COOKS MILLS **LONGITUDE:** -88.49369 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.505154 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 665.0 **LOGGED (FT.):** 1115.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-25.0	BOND	CARTHAGE	LIMESTONE	9.0	690.0	
-153.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	818.0	
-267.0	CARBONDALE	DANVILLE	COAL	-	932.0	
-345.0	CARBONDALE	HERRIN	COAL	2.0	1010.0	
-450.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1115.0	

MAPID: 13900196000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: MOULTRIE **TWP/RNG:** 12N 6E **SECTION:** 12 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: MATTOON WEST **LONGITUDE:** -88.472687 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.492114 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 698.0 **LOGGED (FT.):** 1277.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-55.0	BOND	CARTHAGE	LIMESTONE	9.0	753.0	
-184.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	882.0	
-304.0	CARBONDALE	DANVILLE	COAL	-	1002.0	
-394.0	CARBONDALE	HERRIN	COAL	3.0	1092.0	
-504.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1202.0	

MAPID: 13900197000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 12N 6E SECTION: 15 QUARTERS/FOOTAGES: NW SW SE

QUADRANGLE: WINDSOR LONGITUDE: -88.516583 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.479532 DATE COLLECTED:

SURFACE ELEVATION (FT.): 698.0 LOGGED (FT.): 1221.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-16.0	BOND	CARTHAGE	LIMESTONE	10.0	714.0
-153.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	851.0
-272.0	CARBONDALE	DANVILLE	COAL	-	970.0
-334.0	CARBONDALE	HERRIN	COAL	3.5	1032.0
-349.0	CARBONDALE	SPRINGFIELD	COAL	-	1047.0
-414.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1112.0

MAPID: 13900198000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 12N 6E SECTION: 16 QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: WINDSOR LONGITUDE: -88.544716 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.477858 DATE COLLECTED:

SURFACE ELEVATION (FT.): 666.0 LOGGED (FT.): 1034.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
30.0	BOND	CARTHAGE	LIMESTONE	13.0	636.0
-106.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	772.0
-228.0	CARBONDALE	DANVILLE	COAL	-	894.0
-264.0	CARBONDALE	HERRIN	COAL	-	930.0
-284.0	CARBONDALE	SPRINGFIELD	COAL	3.0	950.0

MAPID: 13900149000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 12N 6E SECTION: 18 QUARTERS/FOOTAGES: NE NE SW
 QUADRANGLE: WINDSOR LONGITUDE: -88.57599 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.48326 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 679.0 LOGGED (FT.): 1157.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
39.0	BOND	CARTHAGE	LIMESTONE	9.0	640.0	
-112.0	MODESTO	WEST FRANKLIN	LIMESTONE	19.0	791.0	
-221.0	CARBONDALE	DANVILLE	COAL	-	900.0	
-281.0	CARBONDALE	HERRIN	COAL	-	960.0	
-293.0	CARBONDALE	SPRINGFIELD	COAL	-	972.0	

MAPID: 13900060000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 12N 6E SECTION: 21 QUARTERS/FOOTAGES: NE NE SW
 QUADRANGLE: WINDSOR LONGITUDE: -88.537596 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.468673 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 702.0 LOGGED (FT.): 1087.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
10.0	BOND	CARTHAGE	LIMESTONE	10.0	692.0	
-114.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	816.0	
-238.0	CARBONDALE	DANVILLE	COAL	2.0	940.0	
-316.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1018.0	
-385.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1087.0	

MAPID: 13900201000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 12N 6E SECTION: 21 QUARTERS/FOOTAGES: NE NE SW
 QUADRANGLE: WINDSOR LONGITUDE: -88.537596 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.468673 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 693.0 LOGGED (FT.): 1070.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
25.0	BOND	CARTHAGE	LIMESTONE	9.0	668.0
-114.0	MODESTO	WEST FRANKLIN	LIMESTONE	19.0	807.0
-237.0	CARBONDALE	DANVILLE	COAL	2.0	930.0
-297.0	CARBONDALE	HERRIN	COAL	2.0	990.0
-310.0	CARBONDALE	SPRINGFIELD	COAL	-	1003.0
-377.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1070.0

MAPID: 13900082000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 12N 6E SECTION: 22 QUARTERS/FOOTAGES: NE SW NE
 QUADRANGLE: WINDSOR LONGITUDE: -88.514128 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.472193 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 721.0 LOGGED (FT.): 1220.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
9.0	BOND	CARTHAGE	LIMESTONE	9.0	712.0
-125.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	846.0
-246.0	CARBONDALE	DANVILLE	COAL	2.0	967.0
-316.0	CARBONDALE	HERRIN	COAL	4.0	1037.0
-332.0	CARBONDALE	SPRINGFIELD	COAL	-	1053.0
-409.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1130.0

MAPID: 13900205000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 12N 6E SECTION: 22 QUARTERS/FOOTAGES: SE NW SW
 QUADRANGLE: WINDSOR LONGITUDE: -88.523461 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.466731 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 718.0 LOGGED (FT.): 1201.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
13.0	BOND	CARTHAGE	LIMESTONE	12.0	705.0
-121.0	MODESTO	WEST FRANKLIN	LIMESTONE	19.0	839.0
-241.0	CARBONDALE	DANVILLE	COAL	2.0	959.0
-305.0	CARBONDALE	HERRIN	COAL	2.5	1023.0
-322.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1040.0
-396.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1114.0

MAPID: 13900206000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 12N 6E SECTION: 23 QUARTERS/FOOTAGES: NW NW SW
 QUADRANGLE: WINDSOR LONGITUDE: -88.507007 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.468476 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 735.0 LOGGED (FT.): 1249.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
1.0	BOND	CARTHAGE	LIMESTONE	10.0	734.0
-131.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	866.0
-251.0	CARBONDALE	DANVILLE	COAL	-	986.0
-326.0	CARBONDALE	HERRIN	COAL	4.0	1061.0
-348.0	CARBONDALE	SPRINGFIELD	COAL	-	1083.0
-425.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1160.0

MAPID: 13900214000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 12N 6E SECTION: 28 QUARTERS/FOOTAGES: NW SE NW
 QUADRANGLE: WINDSOR LONGITUDE: -88.539871 GEOLOGIST: C TREWORYG
 CONFIDENTIAL: N LATITUDE: 39.457727 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 728.0 LOGGED (FT.): 1243.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-20.0	BOND	CARTHAGE	LIMESTONE	12.0	748.0
-147.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	875.0
-336.0	CARBONDALE	HERRIN	COAL	3.5	1064.0
-357.0	CARBONDALE	SPRINGFIELD	COAL	-	1085.0
-422.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1150.0

MAPID: 13900005000C VERSION: 1

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 13N 4E SECTION: 2 QUARTERS/FOOTAGES: NE NE NE NW
 QUADRANGLE: KIRKSVILLE LONGITUDE: -88.727568 GEOLOGIST: TREWORYG,J
 CONFIDENTIAL: N LATITUDE: 39.607799 DATE COLLECTED: 2 / 0 / 1923
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 2150.0 LOG TYPE: Drillers Log
 SOURCE: LINCOLN O'KAW WELL TYPE: Water Well
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
600.0			UNCONSOLIDATED	65.0	0.0
535.0			ROCK	35.0	65.0
500.0			COAL	2.0	100.0
498.0			ROCK	68.0	102.0
430.0			COAL	-	170.0
430.0			ROCK	10.0	170.0
420.0			COAL	6.0	180.0
414.0			ROCK	39.0	186.0
375.0			COAL	-	225.0
375.0			ROCK	160.0	225.0
215.0			COAL	-	385.0
215.0			ROCK	85.0	385.0
130.0			COAL	-	470.0
130.0			ROCK	65.0	470.0
65.0			COAL	-	535.0
65.0			ROCK	1615.0	535.0

MAPID: 13900134000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 13N 5E SECTION: 11 QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: SULLIVAN LONGITUDE: -88.610341 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.580162 DATE COLLECTED:

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 1140.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG, GYSH ON5

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
72.0	BOND	CARTHAGE	LIMESTONE	9.0	598.0
-68.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	738.0
-223.0	CARBONDALE	DANVILLE	COAL	3.0	893.0
-247.0	CARBONDALE	HERRIN	COAL	3.0	917.0
-276.0	CARBONDALE	SPRINGFIELD	COAL	4.5	946.0
-348.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1018.0

MAPID: 13900134000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 13N 5E SECTION: 11 QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: SULLIVAN LONGITUDE: -88.610341 GEOLOGIST: TREWORY,J

CONFIDENTIAL: N LATITUDE: 39.580162 DATE COLLECTED: 5 / 0 / 1958

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 1140.0 LOG TYPE: Electric Log

SOURCE: NATION OIL CO. WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
670.0			UNKNOWN	893.0	0.0
-223.0	CARBONDALE	DANVILLE	COAL	3.0	893.0
-226.0	CARBONDALE		ROCK	21.0	896.0
-247.0	CARBONDALE	HERRIN	COAL	3.0	917.0
-250.0	CARBONDALE		ROCK	26.0	920.0
-276.0	CARBONDALE	SPRINGFIELD	COAL	4.5	946.0
-280.5	CARBONDALE		ROCK	67.5	950.5
-348.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1018.0
-348.0	CARBONDALE		ROCK	122.0	1018.0
-470.0	CARBONDALE	COLCHESTER	COAL	-	1140.0

MAPID: 13920607000C VERSION: 1

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 13N 5E SECTION: 13 QUARTERS/FOOTAGES: SW NE

QUADRANGLE: SULLIVAN LONGITUDE: -88.592503 GEOLOGIST: TREWORY,J

CONFIDENTIAL: N LATITUDE: 39.573665 DATE COLLECTED: 0 / 0 / 1949

SURFACE ELEVATION (FT.): 630.0 LOGGED (FT.): 270.0 LOG TYPE: Drillers Log

SOURCE: E. C. BAKER & SONS WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.0			UNCONSOLIDATED	117.0	0.0	
513.0			ROCK	121.0	117.0	
392.0			COAL	3.0	238.0	
389.0			ROCK	29.0	241.0	

MAPID: 13900219000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 13N 5E SECTION: 26 QUARTERS/FOOTAGES: NW SW SE

QUADRANGLE: SULLIVAN LONGITUDE: -88.612398 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.538155 DATE COLLECTED:

SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 1097.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
66.0	BOND	CARTHAGE	LIMESTONE	8.0	574.0	
-78.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	718.0	
-199.0	CARBONDALE	DANVILLE	COAL	-	839.0	
-246.0	CARBONDALE	HERRIN	COAL	-	886.0	
-271.0	CARBONDALE	SPRINGFIELD	COAL	3.0	911.0	
-340.0	CARBONDALE	HOUCHIN CREEK	COAL	-	980.0	

MAPID: 13900219000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 13N 5E SECTION: 26 QUARTERS/FOOTAGES: NW SW SE

QUADRANGLE: SULLIVAN LONGITUDE: -88.612398 GEOLOGIST: TREWORY,J

CONFIDENTIAL: N LATITUDE: 39.538155 DATE COLLECTED: 4 / 0 / 1946

SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 1097.0 LOG TYPE: Electric Log

SOURCE: COLLINS BROTHERS OIL CO. WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.0			UNKNOWN	839.0	0.0	
-199.0	CARBONDALE	DANVILLE	COAL	-	839.0	
-199.0	CARBONDALE		ROCK	47.0	839.0	
-246.0	CARBONDALE	HERRIN	COAL	-	886.0	
-246.0	CARBONDALE		ROCK	25.0	886.0	
-271.0	CARBONDALE	SPRINGFIELD	COAL	3.0	911.0	
-274.0	CARBONDALE		ROCK	66.0	914.0	
-340.0	CARBONDALE	HOUCHIN CREEK	COAL	-	980.0	
-340.0	CARBONDALE		ROCK	117.0	980.0	
-457.0	CARBONDALE	COLCHESTER	COAL	-	1097.0	

MAPID: 13900008000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 13N 5E SECTION: 29 QUARTERS/FOOTAGES: SW SE NE

QUADRANGLE: KIRKSVILLE LONGITUDE: -88.663974 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.543804 DATE COLLECTED:

SURFACE ELEVATION (FT.): 647.0 LOGGED (FT.): 1075.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
97.0	BOND	CARTHAGE	LIMESTONE	9.0	550.0	
-49.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	696.0	
-184.0	CARBONDALE	DANVILLE	COAL	4.0	831.0	
-237.0	CARBONDALE	HERRIN	COAL	4.0	884.0	
-318.0	CARBONDALE	HOUCHIN CREEK	COAL	-	965.0	

MAPID: 13900008000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 13N 5E SECTION: 29 QUARTERS/FOOTAGES: SW SE NE

QUADRANGLE: KIRKSVILLE LONGITUDE: -88.663974 GEOLOGIST: TREWORY,J

CONFIDENTIAL: N LATITUDE: 39.543804 DATE COLLECTED: 0 / 0 / 1939

SURFACE ELEVATION (FT.): 647.0 LOGGED (FT.): 1075.0 LOG TYPE: Electric Log

SOURCE: SEABOARD OIL CO. WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
647.0			UNKNOWN	831.0	0.0	
-184.0	CARBONDALE	DANVILLE	COAL	4.0	831.0	
-188.0	CARBONDALE		ROCK	49.0	835.0	
-237.0	CARBONDALE	HERRIN	COAL	4.0	884.0	
-241.0	CARBONDALE		ROCK	77.0	888.0	
-318.0	CARBONDALE	HOUCHIN CREEK	COAL	-	965.0	
-318.0	CARBONDALE		ROCK	110.0	965.0	
-428.0	CARBONDALE	COLCHESTER	COAL	-	1075.0	

MAPID: 13920608000C VERSION: 1

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 13N 5E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: SULLIVAN LONGITUDE: -88.613404 GEOLOGIST: TREWORY,J

CONFIDENTIAL: N LATITUDE: 39.528228 DATE COLLECTED: 0 / 0 / 1947

SURFACE ELEVATION (FT.): LOGGED (FT.): 241.0 LOG TYPE: Drillers Log

SOURCE: E. C. BAKER & SONS WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	112.0	0.0	
-			ROCK	125.0	112.0	
-			COAL	1.0	237.0	
-			ROCK	3.0	238.0	

MAPID: 13900127000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 13N 5E SECTION: 36 QUARTERS/FOOTAGES: SE NE SW
 QUADRANGLE: SULLIVAN LONGITUDE: -88.595626 GEOLOGIST: C TREWORYG
 CONFIDENTIAL: N LATITUDE: 39.525458 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 610.0 LOGGED (FT.): 1088.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
50.0	BOND	CARTHAGE	LIMESTONE	8.0	560.0
-92.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	702.0
-218.0	CARBONDALE	DANVILLE	COAL	2.5	828.0
-276.0	CARBONDALE	HERRIN	COAL	3.0	886.0
-295.0	CARBONDALE	SPRINGFIELD	COAL	-	905.0
-370.0	CARBONDALE	HOUCHIN CREEK	COAL	-	980.0

MAPID: 13900127000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 13N 5E SECTION: 36 QUARTERS/FOOTAGES: SE NE SW
 QUADRANGLE: SULLIVAN LONGITUDE: -88.595626 GEOLOGIST: TREWORYG,J
 CONFIDENTIAL: N LATITUDE: 39.525458 DATE COLLECTED: 11 / 0 / 1951
 SURFACE ELEVATION (FT.): 610.0 LOGGED (FT.): 1088.0 LOG TYPE: Electric Log
 SOURCE: TEXAS COMPANY, THE WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
610.0			UNKNOWN	828.0	0.0
-218.0	CARBONDALE	DANVILLE	COAL	2.5	828.0
-220.5	CARBONDALE		ROCK	55.5	830.5
-276.0	CARBONDALE	HERRIN	COAL	3.0	886.0
-279.0	CARBONDALE		ROCK	16.0	889.0
-295.0	CARBONDALE	SPRINGFIELD	COAL	-	905.0
-295.0	CARBONDALE		ROCK	75.0	905.0
-370.0	CARBONDALE	HOUCHIN CREEK	COAL	-	980.0
-370.0	CARBONDALE		ROCK	108.0	980.0
-478.0	CARBONDALE	COLCHESTER	COAL	-	1088.0

MAPID: 13900127000C VERSION: 3

PROJECT: IBC XSECT

COUNTY: MOULTRIE TWP/RNG: 13N 5E SECTION: 36 QUARTERS/FOOTAGES: SE NE SW

QUADRANGLE: SULLIVAN LONGITUDE: -88.595626 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.525458 DATE COLLECTED: 11 / 0 / 1951

SURFACE ELEVATION (FT.): 610.0 LOGGED (FT.): 1089.0 LOG TYPE: Survey Sample Study

SOURCE: WELL TYPE: Producer-Oil

COMMENT: TOPS PICKED FOR ISGS 11:30 X-SECTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-276.0	CARBONDALE	HERRIN	COAL	-	886.0
-479.0	CARBONDALE	COLCHESTER	COAL	-	1089.0

MAPID: 13900067000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 13N 6E SECTION: 3 QUARTERS/FOOTAGES: NW SW NE

QUADRANGLE: SULLIVAN LONGITUDE: -88.517625 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.603421 DATE COLLECTED:

SURFACE ELEVATION (FT.): 643.0 LOGGED (FT.): 1158.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG, LS ON 5?

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
9.0	BOND	CARTHAGE	LIMESTONE	9.0	634.0
-120.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	763.0
-279.0	CARBONDALE	DANVILLE	COAL	3.0	922.0
-322.0	CARBONDALE	HERRIN	COAL	2.5	965.0
-347.0	CARBONDALE	SPRINGFIELD	COAL	3.0	990.0
-432.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1075.0

MAPID: 13900067000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 13N 6E SECTION: 3 QUARTERS/FOOTAGES: NW SW NE

QUADRANGLE: SULLIVAN LONGITUDE: -88.517625 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.603421 DATE COLLECTED: 7 / 0 / 1956

SURFACE ELEVATION (FT.): 643.0 LOGGED (FT.): 1158.0 LOG TYPE: Electric Log

SOURCE: REE, INC. WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORGY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
643.0			UNKNOWN	922.0	0.0	
-279.0	CARBONDALE	DANVILLE	COAL	3.0	922.0	
-282.0	CARBONDALE		ROCK	40.0	925.0	
-322.0	CARBONDALE	HERRIN	COAL	2.5	965.0	
-324.5	CARBONDALE		ROCK	22.5	967.5	
-347.0	CARBONDALE	SPRINGFIELD	COAL	3.0	990.0	
-350.0	CARBONDALE		ROCK	82.0	993.0	
-432.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1075.0	
-432.0	CARBONDALE		ROCK	83.0	1075.0	
-515.0	CARBONDALE	COLCHESTER	COAL	-	1158.0	

MAPID: 13900006000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 13N 6E SECTION: 9 QUARTERS/FOOTAGES: 865' S line, 1650' E line

QUADRANGLE: SULLIVAN LONGITUDE: -88.53413 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.58129 DATE COLLECTED:

SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 1002.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
40.0	BOND	CARTHAGE	LIMESTONE	8.0	580.0	
-85.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	705.0	
-232.0	CARBONDALE	DANVILLE	COAL	-	852.0	
-280.0	CARBONDALE	HERRIN	COAL	-	900.0	
-300.0	CARBONDALE	SPRINGFIELD	COAL	5.0	920.0	
-382.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1002.0	

MAPID: 13900006000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 13N 6E SECTION: 9 QUARTERS/FOOTAGES: 865' S line, 1650' E line
 QUADRANGLE: SULLIVAN LONGITUDE: -88.53413 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 39.58129 DATE COLLECTED: 0 / 0 / 1939
 SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 1002.0 LOG TYPE: Electric Log
 SOURCE: SEABOARD OIL CO. WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATIONS BY C. TREWORGY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
620.0			UNKNOWN	852.0	0.0
-232.0	CARBONDALE	DANVILLE	COAL	-	852.0
-232.0	CARBONDALE		ROCK	48.0	852.0
-280.0	CARBONDALE	HERRIN	COAL	-	900.0
-280.0	CARBONDALE		ROCK	20.0	900.0
-300.0	CARBONDALE	SPRINGFIELD	COAL	5.0	920.0
-305.0	CARBONDALE		ROCK	77.0	925.0
-382.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1002.0

MAPID: 13920516000C VERSION: 1

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 13N 6E SECTION: 14 QUARTERS/FOOTAGES: NW NW SW
 QUADRANGLE: SULLIVAN LONGITUDE: -88.508033 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 39.570703 DATE COLLECTED: 0 / 0 / 1960
 SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 315.0 LOG TYPE: Drillers Log
 SOURCE: E. C. BAKER & SONS WELL TYPE: Water Well
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
650.0			UNCONSOLIDATED	93.0	0.0
557.0			ROCK	221.0	93.0
336.0			COAL	1.0	314.0

MAPID: 13900007000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 13N 6E SECTION: 18 QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: SULLIVAN LONGITUDE: -88.574514 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.576417 DATE COLLECTED:

SURFACE ELEVATION (FT.): 645.0 LOGGED (FT.): 960.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
56.0	BOND	CARTHAGE	LIMESTONE	8.0	589.0
-84.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	729.0
-215.0	CARBONDALE	DANVILLE	COAL	-	860.0
-295.0	CARBONDALE	HERRIN	COAL	5.0	940.0
-311.0	CARBONDALE	SPRINGFIELD	COAL	4.0	956.0

MAPID: 13900007000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 13N 6E SECTION: 18 QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: SULLIVAN LONGITUDE: -88.574514 GEOLOGIST: TREWORYG,J

CONFIDENTIAL: N LATITUDE: 39.576417 DATE COLLECTED: 0 / 0 / 1938

SURFACE ELEVATION (FT.): 645.0 LOGGED (FT.): 960.0 LOG TYPE: Electric Log

SOURCE: RALPH H. NEELY ET AL. WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
645.0			UNKNOWN	860.0	0.0
-215.0	CARBONDALE	DANVILLE	COAL	-	860.0
-215.0	CARBONDALE		ROCK	80.0	860.0
-295.0	CARBONDALE	HERRIN	COAL	5.0	940.0
-300.0	CARBONDALE		ROCK	11.0	945.0
-311.0	CARBONDALE	SPRINGFIELD	COAL	4.0	956.0

MAPID: 13900223000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 13N 6E SECTION: 25 QUARTERS/FOOTAGES: NW SE NE

QUADRANGLE: COOKS MILLS LONGITUDE: -88.475173 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.545121 DATE COLLECTED:

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 1206.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-70.0	BOND	CARTHAGE	LIMESTONE	9.0	735.0	
-196.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	861.0	
-347.0	CARBONDALE	DANVILLE	COAL	4.0	1012.0	
-411.0	CARBONDALE	HERRIN	COAL	3.5	1076.0	
-433.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1098.0	
-541.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1206.0	

MAPID: 13900118000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 13N 6E SECTION: 28 QUARTERS/FOOTAGES: NE NW NW

QUADRANGLE: SULLIVAN LONGITUDE: -88.543334 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.54931 DATE COLLECTED:

SURFACE ELEVATION (FT.): 631.0 LOGGED (FT.): 1116.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
44.0	BOND	CARTHAGE	LIMESTONE	8.0	587.0	
-91.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	722.0	
-222.0	CARBONDALE	DANVILLE	COAL	2.0	853.0	
-282.0	CARBONDALE	HERRIN	COAL	3.5	913.0	
-299.0	CARBONDALE	SPRINGFIELD	COAL	2.5	930.0	
-381.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1012.0	

MAPID: 13900118000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 13N 6E SECTION: 28
QUADRANGLE: SULLIVAN LONGITUDE: -88.543334
CONFIDENTIAL: N LATITUDE: 39.54931
SURFACE ELEVATION (FT.): 631.0 LOGGED (FT.): 1116.0
SOURCE: NAT'L ASSOC. PETROL. CO.
COMMENT: CORRELATIONS BY C. TREWORY

QUARTERS/FOOTAGES: NE NW NW
GEOLOGIST: TREWORY,J
DATE COLLECTED: 6 / 0 / 1957
LOG TYPE: Electric Log
WELL TYPE: Oil and Gas Test

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
631.0			UNKNOWN	853.0	0.0
-222.0	CARBONDALE	DANVILLE	COAL	2.0	853.0
-224.0	CARBONDALE		ROCK	58.0	855.0
-282.0	CARBONDALE	HERRIN	COAL	3.5	913.0
-285.5	CARBONDALE		ROCK	13.5	916.5
-299.0	CARBONDALE	SPRINGFIELD	COAL	2.5	930.0
-301.5	CARBONDALE		ROCK	79.5	932.5
-381.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1012.0
-381.0	CARBONDALE		ROCK	104.0	1012.0
-485.0	CARBONDALE	COLCHESTER	COAL	-	1116.0

MAPID: 13900110000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 13N 6E SECTION: 31
QUADRANGLE: SULLIVAN LONGITUDE: -88.574151
CONFIDENTIAL: N LATITUDE: 39.527261
SURFACE ELEVATION (FT.): 637.0 LOGGED (FT.): 1021.0
SOURCE:
COMMENT: FAIR LOG

QUARTERS/FOOTAGES: NW NW SE
GEOLOGIST: C TREWORY
DATE COLLECTED:
LOG TYPE: Electric Log
WELL TYPE: Oil and Gas Test

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
32.0	BOND	CARTHAGE	LIMESTONE	8.0	605.0
-108.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	745.0
-229.0	CARBONDALE	DANVILLE	COAL	3.5	866.0
-288.0	CARBONDALE	HERRIN	COAL	3.0	925.0
-310.0	CARBONDALE	SPRINGFIELD	COAL	3.0	947.0
-384.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1021.0

MAPID: 13900110000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 13N 6E SECTION: 31 QUARTERS/FOOTAGES: NW NW SE

QUADRANGLE: SULLIVAN LONGITUDE: -88.574151 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.527261 DATE COLLECTED: 12 / 0 / 1956

SURFACE ELEVATION (FT.): 637.0 LOGGED (FT.): 1021.0 LOG TYPE: Electric Log

SOURCE: ELLIS M. HOWARD WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORGY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
637.0			UNKNOWN	866.0	0.0	
-229.0	CARBONDALE	DANVILLE	COAL	3.5	866.0	
-232.5	CARBONDALE		ROCK	55.5	869.5	
-288.0	CARBONDALE	HERRIN	COAL	3.0	925.0	
-291.0	CARBONDALE		ROCK	19.0	928.0	
-310.0	CARBONDALE	SPRINGFIELD	COAL	3.0	947.0	
-313.0	CARBONDALE		ROCK	71.0	950.0	
-384.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1021.0	

MAPID: 13920490000C VERSION: 1

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 13N 6E SECTION: 31 QUARTERS/FOOTAGES: NE NE SE SE

QUADRANGLE: SULLIVAN LONGITUDE: -88.566247 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.524088 DATE COLLECTED: 0 / 0 / 1953

SURFACE ELEVATION (FT.): 642.0 LOGGED (FT.): 280.0 LOG TYPE: Drillers Log

SOURCE: E. C. BAKER & SONS WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
642.0			UNCONSOLIDATED	140.0	0.0	
502.0			ROCK	137.0	140.0	
365.0			COAL	1.0	277.0	
364.0			ROCK	2.0	278.0	

MAPID: 13900224000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: MOULTRIE **TWP/RNG:** 13N 6E **SECTION:** 33 **QUARTERS/FOOTAGES:** NW NE SE
QUADRANGLE: SULLIVAN **LONGITUDE:** -88.531324 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.52723 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 663.0 **LOGGED (FT.):** 999.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
21.0	BOND	CARTHAGE	LIMESTONE	9.0	642.0	
-115.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	778.0	
-247.0	CARBONDALE	DANVILLE	COAL	3.5	910.0	
-309.0	CARBONDALE	HERRIN	COAL	3.0	972.0	
-333.0	CARBONDALE	SPRINGFIELD	COAL	3.0	996.0	

MAPID: 13900224000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: MOULTRIE **TWP/RNG:** 13N 6E **SECTION:** 33 **QUARTERS/FOOTAGES:** NW NE SE
QUADRANGLE: SULLIVAN **LONGITUDE:** -88.531324 **GEOLOGIST:** TREWORYG,J
CONFIDENTIAL: N **LATITUDE:** 39.52723 **DATE COLLECTED:** 0 / 0 / 1950
SURFACE ELEVATION (FT.): 663.0 **LOGGED (FT.):** 1050.0 **LOG TYPE:** Electric Log
SOURCE: PAUL DORAN **WELL TYPE:** Oil and Gas Test
COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.0			UNKNOWN	910.0	0.0	
-247.0	CARBONDALE	DANVILLE	COAL	3.5	910.0	
-250.5	CARBONDALE		ROCK	58.5	913.5	
-309.0	CARBONDALE	HERRIN	COAL	3.0	972.0	
-312.0	CARBONDALE		ROCK	21.0	975.0	
-333.0	CARBONDALE	SPRINGFIELD	COAL	3.0	996.0	
-336.0	CARBONDALE		ROCK	51.0	999.0	
-387.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1050.0	

MAPID: 13900084000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 13N 6E SECTION: 36 QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: COOKS MILLS LONGITUDE: -88.477232 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.521412 DATE COLLECTED:

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 1234.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-43.0	BOND	CARTHAGE	LIMESTONE	9.0	703.0	
-173.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	833.0	
-301.0	CARBONDALE	DANVILLE	COAL	2.5	961.0	
-379.0	CARBONDALE	HERRIN	COAL	3.5	1039.0	

MAPID: 13920686000C VERSION: 1

PROJECT: ISGS88

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 1 QUARTERS/FOOTAGES: 1' S line, 1' W line

QUADRANGLE: LOVINGTON LONGITUDE: -88.718479 GEOLOGIST: SROKA

CONFIDENTIAL: N LATITUDE: 39.681208 DATE COLLECTED: 0 / 0 / 1954

SURFACE ELEVATION (FT.): 690.0 LOGGED (FT.): 298.0 LOG TYPE: Drillers Log

SOURCE: LLOYD YOUNGER WELL TYPE: Structure Test

COMMENT: DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.0			UNCONSOLIDATED	107.0	0.0	
583.0			SHALE	43.0	107.0	
540.0			HARD PAN	63.0	150.0	HARD PAN ON DRILLERS LOG
477.0			LIMESTONE	7.0	213.0	BLUE
470.0			SHALE	7.0	220.0	
463.0			LIMESTONE	3.0	227.0	WHITE
460.0			SHALE	5.0	230.0	
455.0			CALCAREOUS SHALE	43.0	235.0	BLUE SHALE
412.0			LIMESTONE	9.0	278.0	INCLUDES DRILLERS LIME
403.0			CALCAREOUS SHALE	3.0	287.0	BLUE SHALE
400.0			CLAYSTONE & SILTSTONE	5.0	290.0	
395.0			CALCAREOUS SHALE	3.0	295.0	BLUE SHALE
392.0			LIMESTONE	0.0	298.0	LIME ON DRILLERS LOG

MAPID: 13900111000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 4 QUARTERS/FOOTAGES: SE SE NE

QUADRANGLE: DALTON CITY LONGITUDE: -88.757084 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.689867 DATE COLLECTED:

SURFACE ELEVATION (FT.): 681.0 LOGGED (FT.): 967.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
215.0	BOND	CARTHAGE	LIMESTONE	9.0	466.0	
71.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	610.0	
-46.0	CARBONDALE	DANVILLE	COAL	3.0	727.0	
-119.0	CARBONDALE	SPRINGFIELD	COAL	4.5	800.0	
-195.0	CARBONDALE	HOUCHIN CREEK	COAL	-	876.0	

MAPID: 13920687000C VERSION: 1

PROJECT: ISGS88

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 9 QUARTERS/FOOTAGES: SE SE NW

QUADRANGLE: DALTON CITY LONGITUDE: -88.766455 GEOLOGIST: SROKA

CONFIDENTIAL: N LATITUDE: 39.675183 DATE COLLECTED: 0 / 0 / 1954

SURFACE ELEVATION (FT.): 667.8 LOGGED (FT.): 232.0 LOG TYPE: Drillers Log

SOURCE: LLOYD YOUNGER WELL TYPE: Structure Test

COMMENT: DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.8			UNCONSOLIDATED	118.0	0.0	
549.8	MATTOON		SHALE	9.0	118.0	
540.8	MATTOON		SANDSTONE	4.0	127.0	
536.8	MATTOON		COAL	0.3	131.0	
536.5	MATTOON		SHALE	13.8	131.3	
522.8	MATTOON		SANDSTONE	3.0	145.0	
519.8	MATTOON		SHALE	58.0	148.0	WITH SS STREAKS
461.8	MATTOON		SHALE	3.0	206.0	WITH LS STREAKS
458.8	BOND	MILLERSVILLE	LIMESTONE	3.0	209.0	
455.8	BOND	MILLERSVILLE	CALCAREOUS SHALE	3.0	212.0	
452.8	BOND	MILLERSVILLE	LIMESTONE	2.0	215.0	
450.8	BOND	MILLERSVILLE	CALCAREOUS SHALE	15.0	217.0	
435.8	BOND	MILLERSVILLE	LIMESTONE	0.0	232.0	T.D.

MAPID: 13900069000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 10 QUARTERS/FOOTAGES: NE SE SW

QUADRANGLE: LOVINGTON LONGITUDE: -88.747477 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.669492 DATE COLLECTED:

SURFACE ELEVATION (FT.): 663.0 LOGGED (FT.): 950.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
215.0	BOND	CARTHAGE	LIMESTONE	7.0	448.0
87.0	MODESTO	WEST FRANKLIN	LIMESTONE	19.0	576.0
-32.0	CARBONDALE	DANVILLE	COAL	2.0	695.0
-126.0	CARBONDALE	HERRIN	COAL	-	789.0
-146.0	CARBONDALE	SPRINGFIELD	COAL	-	809.0
-187.0	CARBONDALE	HOUCHIN CREEK	COAL	-	850.0

MAPID: 13900069000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 10 QUARTERS/FOOTAGES: NE SE SW

QUADRANGLE: LOVINGTON LONGITUDE: -88.747477 GEOLOGIST: TREWORY,J

CONFIDENTIAL: N LATITUDE: 39.669492 DATE COLLECTED: 7 / 0 / 1956

SURFACE ELEVATION (FT.): 663.0 LOGGED (FT.): 950.0 LOG TYPE: Electric Log

SOURCE: NAT'L ASSOC. PETROL. CO. WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
663.0			UNKNOWN	695.0	0.0
-32.0	CARBONDALE	DANVILLE	COAL	2.0	695.0
-34.0	CARBONDALE		ROCK	92.0	697.0
-126.0	CARBONDALE	HERRIN	COAL	-	789.0
-126.0	CARBONDALE		ROCK	20.0	789.0
-146.0	CARBONDALE	SPRINGFIELD	COAL	-	809.0
-146.0	CARBONDALE		ROCK	41.0	809.0
-187.0	CARBONDALE	HOUCHIN CREEK	COAL	-	850.0
-187.0	CARBONDALE		ROCK	100.0	850.0
-287.0	CARBONDALE	COLCHESTER	COAL	-	950.0

MAPID: 13900227000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 10 QUARTERS/FOOTAGES: SW SW NW
 QUADRANGLE: DALTON CITY LONGITUDE: -88.75458 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.675042 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 671.0 LOGGED (FT.): 948.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
216.0	BOND	CARTHAGE	LIMESTONE	10.0	455.0
84.0	MODESTO	WEST FRANKLIN	LIMESTONE	21.0	587.0
-33.0	CARBONDALE	DANVILLE	COAL	3.5	704.0
-114.0	CARBONDALE	HERRIN	COAL	5.0	785.0
-134.0	CARBONDALE	SPRINGFIELD	COAL	5.0	805.0
-182.0	CARBONDALE	HOUCHIN CREEK	COAL	-	853.0

MAPID: 13920688000C VERSION: 1

PROJECT: ISGS88

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 10 QUARTERS/FOOTAGES: SW SW
 QUADRANGLE: DALTON CITY LONGITUDE: -88.753341 GEOLOGIST: SROKA
 CONFIDENTIAL: N LATITUDE: 39.668555 DATE COLLECTED: 0 / 0 / 1954
 SURFACE ELEVATION (FT.): 666.5 LOGGED (FT.): 260.0 LOG TYPE: Drillers Log
 SOURCE: LLOYD YOUNGER WELL TYPE: Structure Test
 COMMENT: DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN COMMENT	
666.5			UNCONSOLIDATED	125.0	0.0	
541.5	MATTOON		SANDSTONE	3.0	125.0	
538.5	MATTOON		BLACK SHALE	17.0	128.0	
521.5	MATTOON		SANDSTONE	2.0	145.0	
519.5	MATTOON		SHALE	10.0	147.0	
509.5	MATTOON		SANDSTONE	2.0	157.0	
507.5	MATTOON		SHALE	11.0	159.0	
496.5	MATTOON		SANDSTONE/LIMESTONE	5.0	170.0	
491.5	MATTOON		CALCAREOUS SHALE	15.0	175.0	GRAY SHALE
476.5	MATTOON		SANDSTONE	10.0	190.0	
466.5	MATTOON		SHALE & SANDSTONE	27.0	200.0	BLUE SHALE
439.5	BOND	MILLERSVILLE	LIMESTONE	9.0	227.0	
430.5	BOND	MILLERSVILLE	SHALE	2.0	236.0	
428.5	BOND	MILLERSVILLE	DARK SHALE & LIMESTONE	7.0	238.0	
421.5	BOND	MILLERSVILLE	LIMESTONE	15.0	245.0	

MAPID: 13900062000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 11 QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: LOVINGTON LONGITUDE: -88.735721 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.667694 DATE COLLECTED:

SURFACE ELEVATION (FT.): 664.0 LOGGED (FT.): 946.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
211.0	BOND	CARTHAGE	LIMESTONE	8.0	453.0
80.0	MODESTO	WEST FRANKLIN	LIMESTONE	20.0	584.0
-47.0	CARBONDALE	DANVILLE	COAL	3.0	711.0
-88.0	CARBONDALE	HERRIN	COAL	-	752.0
-121.0	CARBONDALE	SPRINGFIELD	COAL	4.5	785.0
-137.0	CARBONDALE	HOUCHIN CREEK	COAL	-	801.0

MAPID: 13900062000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 11 QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: LOVINGTON LONGITUDE: -88.735721 GEOLOGIST: TREWORY,J

CONFIDENTIAL: N LATITUDE: 39.667694 DATE COLLECTED: 4 / 0 / 1956

SURFACE ELEVATION (FT.): 664.0 LOGGED (FT.): 946.0 LOG TYPE: Electric Log

SOURCE: PERRY FULK WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
664.0			UNKNOWN	711.0	0.0
-47.0	CARBONDALE	DANVILLE	COAL	3.0	711.0
-50.0	CARBONDALE		ROCK	38.0	714.0
-88.0	CARBONDALE	HERRIN	COAL	-	752.0
-88.0	CARBONDALE		ROCK	33.0	752.0
-121.0	CARBONDALE	SPRINGFIELD	COAL	4.5	785.0
-125.5	CARBONDALE		ROCK	11.5	789.5
-137.0	CARBONDALE	HOUCHIN CREEK	COAL	-	801.0
-137.0	CARBONDALE		ROCK	145.0	801.0
-282.0	CARBONDALE	COLCHESTER	COAL	-	946.0

MAPID: 13900173000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 11 QUARTERS/FOOTAGES: NE SW NE
 QUADRANGLE: LOVINGTON LONGITUDE: -88.724202 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.676686 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 691.0 LOGGED (FT.): 899.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
204.0	BOND	CARTHAGE	LIMESTONE	10.0	487.0
64.0	MODESTO	WEST FRANKLIN	LIMESTONE	20.0	627.0
-69.0	CARBONDALE	DANVILLE	COAL	3.5	760.0
-110.0	CARBONDALE	HERRIN	COAL	-	801.0
-139.0	CARBONDALE	SPRINGFIELD	COAL	5.0	830.0
-208.0	CARBONDALE	HOUCHIN CREEK	COAL	-	899.0

MAPID: 13900173000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 11 QUARTERS/FOOTAGES: NE SW NE
 QUADRANGLE: LOVINGTON LONGITUDE: -88.724202 GEOLOGIST: TREWORY,J
 CONFIDENTIAL: N LATITUDE: 39.676686 DATE COLLECTED: 3 / 31 / 1961
 SURFACE ELEVATION (FT.): 691.0 LOGGED (FT.): 1000.0 LOG TYPE: Electric Log
 SOURCE: DON DURR WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATIONS BY C. TREWORY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
691.0			UNKNOWN	760.0	0.0
-69.0	CARBONDALE	DANVILLE	COAL	3.5	760.0
-72.5	CARBONDALE		ROCK	37.5	763.5
-110.0	CARBONDALE	HERRIN	COAL	-	801.0
-110.0	CARBONDALE		ROCK	29.0	801.0
-139.0	CARBONDALE	SPRINGFIELD	COAL	5.0	830.0
-144.0	CARBONDALE		ROCK	64.0	835.0
-208.0	CARBONDALE	HOUCHIN CREEK	COAL	-	899.0
-208.0	CARBONDALE		ROCK	101.0	899.0
-309.0	CARBONDALE	COLCHESTER	COAL	-	1000.0

MAPID: 13920689000C VERSION: 1

PROJECT: ISGS88

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 14 QUARTERS/FOOTAGES: NW NW

QUADRANGLE: LOVINGTON LONGITUDE: -88.734515

GEOLOGIST: SROKA

CONFIDENTIAL: N LATITUDE: 39.664912

DATE COLLECTED: 0 / 0 / 1954

SURFACE ELEVATION (FT.): 662.0

LOGGED (FT.): 247.0

LOG TYPE: Drillers Log

SOURCE: LLOYD YOUNGER

WELL TYPE: Structure Test

COMMENT: DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0			UNCONSOLIDATED	105.0	0.0	
557.0	MATTOON		SHALE	16.0	105.0	
541.0	MATTOON		COAL	0.3	121.0	PEAT ON DRILLERS LOG
540.7	MATTOON		SANDSTONE	1.8	121.3	
539.0	MATTOON		SHALE	7.0	123.0	
532.0	MATTOON		SHALE & SANDSTONE	10.0	130.0	GRAY SHALE
522.0	MATTOON		SHALE	27.0	140.0	
495.0	MATTOON		LIMESTONE	1.0	167.0	
494.0	MATTOON		COAL	1.0	168.0	DRILL LOG ONLY GIVES TOP DEPTH
493.0	MATTOON		UNDERCLAY	6.0	169.0	
487.0	MATTOON		CALCAREOUS SHALE	5.0	175.0	BLUE SHALE
482.0	MATTOON		SHALE	25.0	180.0	
457.0	MATTOON		CALCAREOUS SHALE	32.0	205.0	BLUE SHALE
425.0	MATTOON		LIMESTONE	0.5	237.0	
424.5	MATTOON		CALCAREOUS SHALE	9.5	237.5	BLUE SHALE
415.0	BOND	MILLERSVILLE	LIMESTONE	0.0	247.0	T.D.

MAPID: 13900228000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 15 QUARTERS/FOOTAGES: NE NW SE

QUADRANGLE: LOVINGTON LONGITUDE: -88.742671

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.65844

DATE COLLECTED:

SURFACE ELEVATION (FT.): 662.0

LOGGED (FT.): 967.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
208.0	BOND	CARTHAGE	LIMESTONE	8.0	454.0	
62.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	600.0	
-50.0	CARBONDALE	DANVILLE	COAL	2.5	712.0	
-114.0	CARBONDALE	HERRIN	COAL	4.5	776.0	
-142.0	CARBONDALE	SPRINGFIELD	COAL	2.5	804.0	
-206.0	CARBONDALE	HOUCHIN CREEK	COAL	-	868.0	

MAPID: 13900228000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 15 QUARTERS/FOOTAGES: NE NW SE

QUADRANGLE: LOVINGTON LONGITUDE: -88.742671 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.65844 DATE COLLECTED: 9 / 0 / 1951

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 967.0 LOG TYPE: Electric Log

SOURCE: E. A. OBERING WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORGY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0			UNKNOWN	712.0	0.0	
-50.0	CARBONDALE	DANVILLE	COAL	2.5	712.0	
-52.5	CARBONDALE		ROCK	61.5	714.5	
-114.0	CARBONDALE	HERRIN	COAL	4.5	776.0	
-118.5	CARBONDALE		ROCK	23.5	780.5	
-142.0	CARBONDALE	SPRINGFIELD	COAL	2.5	804.0	
-144.5	CARBONDALE		ROCK	61.5	806.5	
-206.0	CARBONDALE	HOUCHIN CREEK	COAL	-	868.0	
-206.0	CARBONDALE		ROCK	99.0	868.0	
-305.0	CARBONDALE	COLCHESTER	COAL	-	967.0	

MAPID: 1392069000C VERSION: 1

PROJECT: ISGS88

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 16 QUARTERS/FOOTAGES: SW NE NE

QUADRANGLE: DALTON CITY LONGITUDE: -88.759247 GEOLOGIST: SROKA

CONFIDENTIAL: N LATITUDE: 39.664016 DATE COLLECTED: 0 / 0 / 1954

SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 237.0 LOG TYPE: Drillers Log

SOURCE: LLOYD YOUNGER WELL TYPE: Structure Test

COMMENT: DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.0			UNCONSOLIDATED	98.0	0.0	
557.0	MATTOON		SHALE	7.0	98.0	
550.0	MATTOON		SANDSTONE/LIMESTONE	5.0	105.0	
545.0	MATTOON		SHALE	33.0	110.0	
512.0	MATTOON		LIMESTONE	1.0	143.0	
511.0	MATTOON		SHALE	2.0	144.0	
509.0	MATTOON		COAL	0.3	146.0	
508.7	MATTOON		LIMESTONE	0.8	146.3	
508.0	MATTOON		SHALE	16.0	147.0	
492.0	MATTOON		SHALE	2.0	163.0	
490.0	MATTOON		COAL	1.0	165.0	PEAT ON DRILL LOG
489.0	MATTOON		SHALE	2.0	166.0	WITH SS STREAKS
487.0	MATTOON		SANDSTONE	5.0	168.0	
482.0	MATTOON		SHALE	13.0	173.0	
469.0	MATTOON		SANDSTONE	20.0	186.0	
449.0	MATTOON		SHALE	4.0	206.0	WITH LS STREAKS
445.0	BOND	MILLERSVILLE	LIMESTONE	3.0	210.0	
442.0	BOND		CALCAREOUS SHALE	8.0	213.0	BLUE SHALE
434.0	BOND		LIMESTONE	16.0	221.0	

MAPID: 13900175000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 17 QUARTERS/FOOTAGES: NW NW SE

QUADRANGLE: DALTON CITY LONGITUDE: -88.782795 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.658973 DATE COLLECTED:

SURFACE ELEVATION (FT.): 668.0 LOGGED (FT.): 925.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
250.0	BOND	CARTHAGE	LIMESTONE	10.0	418.0	
118.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	550.0	
15.0	CARBONDALE	DANVILLE	COAL	-	653.0	
-173.0	CARBONDALE	HOUCHIN CREEK	COAL	-	841.0	

MAPID: 13900229000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: MOULTRIE **TWP/RNG:** 14N 4E **SECTION:** 18 **QUARTERS/FOOTAGES:** NE NE SW
QUADRANGLE: DALTON CITY **LONGITUDE:** -88.804013 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.65917 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 680.0 **LOGGED (FT.):** 945.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
236.0	BOND	CARTHAGE	LIMESTONE	9.0	444.0
87.0	MODESTO	WEST FRANKLIN	LIMESTONE	31.0	593.0
-15.0	CARBONDALE	DANVILLE	COAL	2.0	695.0
-102.0	CARBONDALE	SPRINGFIELD	COAL	4.0	782.0
-168.0	CARBONDALE	HOUCHIN CREEK	COAL	-	848.0

MAPID: 13900230000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: MOULTRIE **TWP/RNG:** 14N 4E **SECTION:** 20 **QUARTERS/FOOTAGES:** SW SE SE
QUADRANGLE: DALTON CITY **LONGITUDE:** -88.777589 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.638799 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 653.0 **LOGGED (FT.):** 950.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
239.0	BOND	CARTHAGE	LIMESTONE	9.0	414.0
101.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	552.0
-19.0	CARBONDALE	DANVILLE	COAL	2.0	672.0

MAPID: 13900058000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: MOULTRIE **TWP/RNG:** 14N 4E **SECTION:** 21 **QUARTERS/FOOTAGES:** NE NW SE
QUADRANGLE: DALTON CITY **LONGITUDE:** -88.761325 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.644006 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 664.0 **LOGGED (FT.):** 971.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
226.0	BOND	CARTHAGE	LIMESTONE	9.0	438.0
83.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	581.0
-33.0	CARBONDALE	DANVILLE	COAL	2.0	697.0
-209.0	CARBONDALE	HOUCHIN CREEK	COAL	-	873.0

MAPID: 13900152000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 22 QUARTERS/FOOTAGES: NW NW NW

QUADRANGLE: DALTON CITY LONGITUDE: -88.754476 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.651184 DATE COLLECTED:

SURFACE ELEVATION (FT.): 658.0 LOGGED (FT.): 960.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
232.0	BOND	CARTHAGE	LIMESTONE	8.0	426.0
101.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	557.0
-12.0	CARBONDALE	DANVILLE	COAL	-	670.0
-206.0	CARBONDALE	HOUCHIN CREEK	COAL	-	864.0

MAPID: 13900133000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 23 QUARTERS/FOOTAGES: NW NW NW

QUADRANGLE: LOVINGTON LONGITUDE: -88.735502 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.65099 DATE COLLECTED:

SURFACE ELEVATION (FT.): 653.0 LOGGED (FT.): 989.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
200.0	BOND	CARTHAGE	LIMESTONE	7.0	453.0
47.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	606.0
-68.0	CARBONDALE	DANVILLE	COAL	-	721.0
-149.0	CARBONDALE	HERRIN	COAL	4.0	802.0
-175.0	CARBONDALE	SPRINGFIELD	COAL	2.5	828.0
-244.0	CARBONDALE	HOUCHIN CREEK	COAL	-	897.0

MAPID: 13900133000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 23
QUADRANGLE: LOVINGTON LONGITUDE: -88.735502
CONFIDENTIAL: N LATITUDE: 39.65099
SURFACE ELEVATION (FT.): 653.0 LOGGED (FT.): 989.0
SOURCE: E. A. OBERING
COMMENT: CORRELATIONS BY C. TREWORGY

QUARTERS/FOOTAGES: NW NW NW
GEOLOGIST: TREWORGY,J
DATE COLLECTED: 6 / 0 / 1958
LOG TYPE: Electric Log
WELL TYPE: Oil and Gas Test

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.0			UNKNOWN	721.0	0.0	
-68.0	CARBONDALE	DANVILLE	COAL	-	721.0	
-68.0	CARBONDALE		ROCK	81.0	721.0	
-149.0	CARBONDALE	HERRIN	COAL	4.0	802.0	
-153.0	CARBONDALE		ROCK	22.0	806.0	
-175.0	CARBONDALE	SPRINGFIELD	COAL	2.5	828.0	
-177.5	CARBONDALE		ROCK	66.5	830.5	
-244.0	CARBONDALE	HOUCHIN CREEK	COAL	-	897.0	
-244.0	CARBONDALE		ROCK	92.0	897.0	
-336.0	CARBONDALE	COLCHESTER	COAL	-	989.0	

MAPID: 13900297000C VERSION: 1

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 14N 4E SECTION: 27
QUADRANGLE: KIRKSVILLE LONGITUDE: -88.74216
CONFIDENTIAL: N LATITUDE: 39.624065
SURFACE ELEVATION (FT.): 653.0 LOGGED (FT.): 636.0
SOURCE: PHILLIPS PETROLEUM CO.
COMMENT: 4,1

QUARTERS/FOOTAGES: SE SW SE
GEOLOGIST: TREWORGY,J
DATE COLLECTED:
LOG TYPE: Multiple log types
WELL TYPE: Engineering Test Holes

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.0			UNCONSOLIDATED	90.0	0.0	
563.0			ROCK	152.0	90.0	
411.0			COAL	3.0	242.0	
408.0			ROCK	1.0	245.0	
407.0			ROCK	0.0	246.0	

MAPID: 13900264000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: MOULTRIE **TWP/RNG:** 14N 4E **SECTION:** 30 **QUARTERS/FOOTAGES:** NW NE NW
QUADRANGLE: DALTON CITY **LONGITUDE:** -88.806018 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.637309 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 669.0 **LOGGED (FT.):** 958.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
229.0	BOND	CARTHAGE	LIMESTONE	9.0	440.0
91.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	578.0
-1.0	CARBONDALE	DANVILLE	COAL	-	670.0
-187.0	CARBONDALE	HOUCHIN CREEK	COAL	-	856.0

MAPID: 13900004000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: MOULTRIE **TWP/RNG:** 14N 4E **SECTION:** 31 **QUARTERS/FOOTAGES:** 660' N line, 330' W line of NE
QUADRANGLE: FINDLAY **LONGITUDE:** -88.800264 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.621859 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 675.0 **LOGGED (FT.):** 948.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
260.0	BOND	CARTHAGE	LIMESTONE	9.0	415.0
125.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	550.0
14.0	CARBONDALE	DANVILLE	COAL	2.0	661.0
-165.0	CARBONDALE	HOUCHIN CREEK	COAL	-	840.0

MAPID: 13900265000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: MOULTRIE **TWP/RNG:** 14N 4E **SECTION:** 32 **QUARTERS/FOOTAGES:** SW SW NW
QUADRANGLE: FINDLAY **LONGITUDE:** -88.791796 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.617375 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 673.0 **LOGGED (FT.):** 942.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
263.0	BOND	CARTHAGE	LIMESTONE	7.0	410.0
123.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	550.0
-3.0	CARBONDALE	DANVILLE	COAL	2.0	676.0

MAPID: 13900177000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: MOULTRIE **TWP/RNG:** 14N 5E **SECTION:** 1 **QUARTERS/FOOTAGES:** 660' S line, 660' W line of NW SW
QUADRANGLE: CADWELL **LONGITUDE:** -88.603142 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.686308 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 677.0 **LOGGED (FT.):** 1097.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
126.0	BOND	CARTHAGE	LIMESTONE	7.0	551.0
-9.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	686.0
-123.0	CARBONDALE	DANVILLE	COAL	-	800.0

MAPID: 13900177000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: MOULTRIE **TWP/RNG:** 14N 5E **SECTION:** 1 **QUARTERS/FOOTAGES:** 660' S line, 660' W line of NW SW
QUADRANGLE: CADWELL **LONGITUDE:** -88.603142 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.686308 **DATE COLLECTED:** 9 / 0 / 1962
SURFACE ELEVATION (FT.): 677.0 **LOGGED (FT.):** 1097.0 **LOG TYPE:** Electric Log
SOURCE: M. H. RICHARDSON & DON DURR **WELL TYPE:** Oil and Gas Test
COMMENT: CORRELATIONS BY C. TREWORGY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
677.0			UNKNOWN	800.0	0.0
-123.0	CARBONDALE	DANVILLE	COAL	-	800.0
-123.0	CARBONDALE		ROCK	297.0	800.0
-420.0	CARBONDALE	COLCHESTER	COAL	-	1097.0

MAPID: 13900170000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: MOULTRIE **TWP/RNG:** 14N 5E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' N line, 990' W line of SW NW
QUADRANGLE: LOVINGTON **LONGITUDE:** -88.639916 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.690638 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 645.0 **LOGGED (FT.):** 1048.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
107.0	BOND	CARTHAGE	LIMESTONE	5.0	538.0
-9.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	654.0
-131.0	CARBONDALE	DANVILLE	COAL	2.5	776.0
-312.0	CARBONDALE	HOUCHIN CREEK	COAL	-	957.0

MAPID: 13900170000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 14N 5E SECTION: 3 QUARTERS/FOOTAGES: 330' N line, 990' W line of SW NW

QUADRANGLE: LOVINGTON LONGITUDE: -88.639916 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.690638 DATE COLLECTED: 6 / 0 / 1961

SURFACE ELEVATION (FT.): 645.0 LOGGED (FT.): 1048.0 LOG TYPE: Electric Log

SOURCE: HAROLD C. SANDERS WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORGY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
645.0			UNKNOWN	776.0	0.0
-131.0	CARBONDALE	DANVILLE	COAL	2.5	776.0
-133.5	CARBONDALE		ROCK	178.5	778.5
-312.0	CARBONDALE	HOUCHIN CREEK	COAL	-	957.0
-312.0	CARBONDALE		ROCK	91.0	957.0
-403.0	CARBONDALE	COLCHESTER	COAL	-	1048.0

MAPID: 13900120000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 14N 5E SECTION: 4 QUARTERS/FOOTAGES: NW SW NW

QUADRANGLE: LOVINGTON LONGITUDE: -88.661061 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.690683 DATE COLLECTED:

SURFACE ELEVATION (FT.): 648.0 LOGGED (FT.): 1025.0 LOG TYPE: Electric Log

SOURCE: FAIR LOG WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
133.0	BOND	CARTHAGE	LIMESTONE	8.0	515.0
-11.0	MODESTO	WEST FRANKLIN	LIMESTONE	19.0	659.0
-148.0	CARBONDALE	DANVILLE	COAL	2.5	796.0
-175.0	CARBONDALE	HERRIN	COAL	-	823.0
-207.0	CARBONDALE	SPRINGFIELD	COAL	3.0	855.0
-277.0	CARBONDALE	HOUCHIN CREEK	COAL	-	925.0

MAPID: 13900120000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 14N 5E SECTION: 4 QUARTERS/FOOTAGES: NW SW NW

QUADRANGLE: LOVINGTON LONGITUDE: -88.661061 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.690683 DATE COLLECTED: 9 / 0 / 1957

SURFACE ELEVATION (FT.): 648.0 LOGGED (FT.): 1025.0 LOG TYPE: Electric Log

SOURCE: HAROLD C. SANDERS WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORGY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.0			UNKNOWN	796.0	0.0	
-148.0	CARBONDALE	DANVILLE	COAL	2.5	796.0	
-150.5	CARBONDALE		ROCK	24.5	798.5	
-175.0	CARBONDALE	HERRIN	COAL	-	823.0	
-175.0	CARBONDALE		ROCK	32.0	823.0	
-207.0	CARBONDALE	SPRINGFIELD	COAL	3.0	855.0	
-210.0	CARBONDALE		ROCK	67.0	858.0	
-277.0	CARBONDALE	HOUCHIN CREEK	COAL	-	925.0	
-277.0	CARBONDALE		ROCK	100.0	925.0	
-377.0	CARBONDALE	COLCHESTER	COAL	-	1025.0	

MAPID: 13900120000C VERSION: 3

PROJECT: IBC XSECT

COUNTY: MOULTRIE TWP/RNG: 14N 5E SECTION: 4 QUARTERS/FOOTAGES: NW SW NW

QUADRANGLE: LOVINGTON LONGITUDE: -88.661061 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.690683 DATE COLLECTED: 9 / 0 / 1957

SURFACE ELEVATION (FT.): 648.0 LOGGED (FT.): 1027.0 LOG TYPE: Lithologic Log

SOURCE: WELL TYPE: Producer-Oil

COMMENT: TOPS PICKED FOR ISGS 11:30 X-SECTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-175.0	CARBONDALE	HERRIN	COAL	-	823.0	
-379.0	CARBONDALE	COLCHESTER	COAL	-	1027.0	

MAPID: 13920553000C VERSION: 1

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 14N 5E SECTION: 4 QUARTERS/FOOTAGES: 2112' N line, 105' W line

QUADRANGLE: LOVINGTON LONGITUDE: -88.661873 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.689342 DATE COLLECTED: 5 / 14 / 1979

SURFACE ELEVATION (FT.): 636.0 LOGGED (FT.): 870.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. MI-79-4-5 WELL TYPE: Coal Test

COMMENT: RESISTINTY AND DENSITY LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
636.0			UNCONSOLIDATED	88.0	0.0
548.0	MATTOON		SANDSTONE/SHALE	2.0	88.0
546.0	MATTOON		SANDSTONE	40.0	90.0
506.0	MATTOON		GRAY SHALE	10.0	130.0
496.0	MATTOON		SANDSTONE	8.0	140.0
488.0	MATTOON		GRAY SHALE	10.0	148.0
478.0	MATTOON		SANDSTONE	6.0	158.0
472.0	MATTOON		GREEN SHALE	15.0	164.0
457.0	MATTOON		COAL	2.0	179.0
455.0	MATTOON		GRAY SHALE	44.0	181.0
411.0	MATTOON		COAL	1.5	225.0
409.5	MATTOON		SANDSTONE	31.5	226.5
378.0	MATTOON		GRAY SHALE	27.0	258.0
351.0	BOND	MILLERSVILLE	LIMESTONE	5.0	285.0
346.0	BOND	MILLERSVILLE	GRAY SHALE	10.0	290.0
336.0	BOND	MILLERSVILLE	LIMESTONE	25.0	300.0
311.0	BOND		SHALE	107.0	325.0
204.0	BOND		BLACK SHALE	1.5	432.0
202.5	BOND		COAL	0.5	433.5
202.0	BOND		SHALE	16.0	434.0
186.0	BOND		SHALY SANDSTONE	34.0	450.0
152.0	BOND		GRAY SHALE	22.8	484.0
129.2	BOND	CARTHAGE	LIMESTONE	7.4	506.8
121.8	MODESTO		GRAY SHALE	18.8	514.2
103.0	MODESTO		LIMESTONE	2.0	533.0
101.0	MODESTO		GRAY SHALE	27.0	535.0
74.0	MODESTO		BLACK SHALE	2.0	562.0
72.0	MODESTO		COAL	2.0	564.0
70.0	MODESTO		GRAY SHALE	70.0	566.0
0.0	MODESTO		COAL	1.0	636.0
-1.0	MODESTO		GRAY SHALE	11.7	637.0
-12.7	MODESTO	WEST FRANKLIN	LIMESTONE	5.3	648.7
-18.0	MODESTO	WEST FRANKLIN	GRAY SHALE	3.5	654.0
-21.5	MODESTO	WEST FRANKLIN	LIMESTONE	9.3	657.5
-30.8	MODESTO		GRAY SHALE	117.2	666.8
-148.0	CARBONDALE	DANVILLE	COAL	3.2	784.0
-151.2	CARBONDALE		GRAY SHALE	25.8	787.2
-177.0	CARBONDALE	HERRIN	COAL	3.4	813.0
-180.4	CARBONDALE		GRAY SHALE	27.6	816.4

-208.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	844.0
-208.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	844.5
-210.5	CARBONDALE	SPRINGFIELD	COAL	2.3	846.5
-212.8	CARBONDALE		LIMESTONE	5.0	848.8
-217.8	CARBONDALE		GRAY SHALE	16.2	853.8

MAPID: 13900266000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: MOULTRIE **TWP/RNG:** 14N 5E **SECTION:** 5 **QUARTERS/FOOTAGES:** SE NW SE
QUADRANGLE: LOVINGTON **LONGITUDE:** -88.668095 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.685284 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 660.0 **LOGGED (FT.):** 1025.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
144.0	BOND	CARTHAGE	LIMESTONE	8.0	516.0
3.0	MODESTO	WEST FRANKLIN	LIMESTONE	20.0	657.0
-134.0	CARBONDALE	DANVILLE	COAL	3.5	794.0
-189.0	CARBONDALE	SPRINGFIELD	COAL	4.0	849.0
-260.0	CARBONDALE	HOUCHIN CREEK	COAL	-	920.0

MAPID: 13900266000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: MOULTRIE **TWP/RNG:** 14N 5E **SECTION:** 5 **QUARTERS/FOOTAGES:** SE NW SE
QUADRANGLE: LOVINGTON **LONGITUDE:** -88.668095 **GEOLOGIST:** TREWORYG,J
CONFIDENTIAL: N **LATITUDE:** 39.685284 **DATE COLLECTED:** 2 / 0 / 1950
SURFACE ELEVATION (FT.): 660.0 **LOGGED (FT.):** 1025.0 **LOG TYPE:** Electric Log
SOURCE: H. C. SANDERS **WELL TYPE:** Oil and Gas Test
COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
660.0			UNKNOWN	794.0	0.0
-134.0	CARBONDALE	DANVILLE	COAL	3.5	794.0
-137.5	CARBONDALE		ROCK	51.5	797.5
-189.0	CARBONDALE	SPRINGFIELD	COAL	4.0	849.0
-193.0	CARBONDALE		ROCK	67.0	853.0
-260.0	CARBONDALE	HOUCHIN CREEK	COAL	-	920.0
-260.0	CARBONDALE		ROCK	105.0	920.0
-365.0	CARBONDALE	COLCHESTER	COAL	-	1025.0

MAPID: 13900268000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 14N 5E SECTION: 27 QUARTERS/FOOTAGES: NW NW SW
 QUADRANGLE: LOVINGTON LONGITUDE: -88.641441 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.629032 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 692.0 LOGGED (FT.): 1092.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
119.0	BOND	CARTHAGE	LIMESTONE	7.0	573.0
-28.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	720.0
-175.0	CARBONDALE	DANVILLE	COAL	3.5	867.0
-195.0	CARBONDALE	HERRIN	COAL	2.5	887.0
-224.0	CARBONDALE	SPRINGFIELD	COAL	4.0	916.0
-298.0	CARBONDALE	HOUCHIN CREEK	COAL	-	990.0

MAPID: 13900268000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 14N 5E SECTION: 27 QUARTERS/FOOTAGES: NW NW SW
 QUADRANGLE: LOVINGTON LONGITUDE: -88.641441 GEOLOGIST: TREWORY,J
 CONFIDENTIAL: N LATITUDE: 39.629032 DATE COLLECTED: 6 / 0 / 1945
 SURFACE ELEVATION (FT.): 692.0 LOGGED (FT.): 1092.0 LOG TYPE: Electric Log
 SOURCE: H. M. WILLIAMS WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATIONS BY C. TREWORY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
692.0			UNKNOWN	867.0	0.0
-175.0	CARBONDALE	DANVILLE	COAL	3.5	867.0
-178.5	CARBONDALE		ROCK	16.5	870.5
-195.0	CARBONDALE	HERRIN	COAL	2.5	887.0
-197.5	CARBONDALE		ROCK	26.5	889.5
-224.0	CARBONDALE	SPRINGFIELD	COAL	4.0	916.0
-228.0	CARBONDALE		ROCK	70.0	920.0
-298.0	CARBONDALE	HOUCHIN CREEK	COAL	-	990.0
-298.0	CARBONDALE		ROCK	102.0	990.0
-400.0	CARBONDALE	COLCHESTER	COAL	-	1092.0

MAPID: 13900114000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 14N 5E SECTION: 35 QUARTERS/FOOTAGES: NE NE NW
 QUADRANGLE: SULLIVAN LONGITUDE: -88.615427 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.621756 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 672.0 LOGGED (FT.): 1100.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
97.0	BOND	CARTHAGE	LIMESTONE	9.0	575.0	
-48.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	720.0	
-198.0	CARBONDALE	DANVILLE	COAL	3.0	870.0	
-221.0	CARBONDALE	HERRIN	COAL	2.5	893.0	
-256.0	CARBONDALE	SPRINGFIELD	COAL	2.0	928.0	
-323.0	CARBONDALE	HOUCHIN CREEK	COAL	-	995.0	

MAPID: 13900114000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 14N 5E SECTION: 35 QUARTERS/FOOTAGES: NE NE NW
 QUADRANGLE: SULLIVAN LONGITUDE: -88.615427 GEOLOGIST: TREWORY,J
 CONFIDENTIAL: N LATITUDE: 39.621756 DATE COLLECTED: 6 / 0 / 1957
 SURFACE ELEVATION (FT.): 672.0 LOGGED (FT.): 1100.0 LOG TYPE: Electric Log
 SOURCE: RYAN OIL CO. WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATIONS BY C. TREWORY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.0			UNKNOWN	870.0	0.0	
-198.0	CARBONDALE	DANVILLE	COAL	3.0	870.0	
-201.0	CARBONDALE		ROCK	20.0	873.0	
-221.0	CARBONDALE	HERRIN	COAL	2.5	893.0	
-223.5	CARBONDALE		ROCK	32.5	895.5	
-256.0	CARBONDALE	SPRINGFIELD	COAL	2.0	928.0	
-258.0	CARBONDALE		ROCK	65.0	930.0	
-323.0	CARBONDALE	HOUCHIN CREEK	COAL	-	995.0	
-323.0	CARBONDALE		ROCK	105.0	995.0	
-428.0	CARBONDALE	COLCHESTER	COAL	-	1100.0	

MAPID: 13900114000C **VERSION:** 3 **PROJECT:** IBC XSECT
COUNTY: MOULTRIE **TWP/RNG:** 14N 5E **SECTION:** 35 **QUARTERS/FOOTAGES:** NE NE NW
QUADRANGLE: SULLIVAN **LONGITUDE:** -88.615427 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.621756 **DATE COLLECTED:** 6 / 0 / 1957
SURFACE ELEVATION (FT.): 672.0 **LOGGED (FT.):** 1100.0 **LOG TYPE:** Induction Log
SOURCE: **WELL TYPE:** Producer-Oil
COMMENT: TOPS PICKED FOR ISGS 11:30 X-SECTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-222.0	CARBONDALE	HERRIN	COAL	-	894.0
-428.0	CARBONDALE	COLCHESTER	COAL	-	1100.0

MAPID: 13900129000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: MOULTRIE **TWP/RNG:** 14N 6E **SECTION:** 1 **QUARTERS/FOOTAGES:** SE SW SE
QUADRANGLE: ARTHUR **LONGITUDE:** -88.478639 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.681835 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 662.0 **LOGGED (FT.):** 1174.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
27.0	BOND	CARTHAGE	LIMESTONE	9.0	635.0
-94.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	756.0
-243.0	CARBONDALE	DANVILLE	COAL	2.0	905.0

MAPID: 13900269000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: MOULTRIE **TWP/RNG:** 14N 6E **SECTION:** 2 **QUARTERS/FOOTAGES:** 1346' N line, 332' E line of SE
QUADRANGLE: ARTHUR **LONGITUDE:** -88.492634 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.684526 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 667.0 **LOGGED (FT.):** 1167.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: COAL@100481022, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
47.0	BOND	CARTHAGE	LIMESTONE	9.0	620.0
-71.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	738.0
-211.0	CARBONDALE	DANVILLE	COAL	3.0	878.0

MAPID: 13920569000C VERSION: 1

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 14N 6E SECTION: 5 QUARTERS/FOOTAGES: 370' N line, 48' W line

QUADRANGLE: CADWELL LONGITUDE: -88.566593

GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.69437

DATE COLLECTED: 5 / 7 / 1980

SURFACE ELEVATION (FT.): 672.0 LOGGED (FT.): 970.0

LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. MI-80-5-7

WELL TYPE: Coal Test

COMMENT: GAMMA, DENSITY AND RESIST. LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
672.0			UNCONSOLIDATED	118.0	0.0
554.0	MATTOON		DARK SHALE	12.0	118.0
542.0	MATTOON		GRAY SHALE	11.0	130.0
531.0	MATTOON		LIMESTONE	1.0	141.0
530.0	MATTOON		GRAY SHALE	10.0	142.0
520.0	MATTOON		COAL	1.0	152.0
519.0	MATTOON		GRAY SHALE	39.0	153.0
480.0	MATTOON		SANDSTONE	3.5	192.0
476.5	MATTOON		LIMESTONE	1.0	195.5
475.5	MATTOON		LIMESTONE AND SANDSTONE	1.5	196.5
474.0	MATTOON		DARK SHALE	1.0	198.0
473.0	MATTOON		LIMESTONE	2.0	199.0
471.0	MATTOON		GRAY SHALE	1.0	201.0
470.0	MATTOON		LIMESTONE	1.0	202.0
469.0	MATTOON		BLACK SHALE	17.0	203.0
452.0	MATTOON		LIMESTONE	1.0	220.0
451.0	MATTOON		SHALE	10.0	221.0
441.0	MATTOON		LIMESTONE	1.5	231.0
439.5	MATTOON		GRAY SHALE	0.5	232.5
439.0	MATTOON		LIMESTONE	2.0	233.0
437.0	MATTOON		GRAY SHALE	3.2	235.0
433.8	MATTOON		LIMESTONE	4.8	238.2
429.0	MATTOON		SANDSTONE	51.0	243.0
378.0	MATTOON		GRAY SHALE	11.0	294.0
367.0	MATTOON		SANDSTONE	6.0	305.0
361.0	MATTOON		LIMESTONE	3.5	311.0
357.5	MATTOON		BLACK SHALE	2.5	314.5
355.0	MATTOON		COAL	1.0	317.0
354.0	MATTOON		SHALE	44.0	318.0
310.0	MATTOON		COAL	1.0	362.0
309.0	MATTOON		GRAY SHALE	16.0	363.0
293.0	MATTOON		LIMESTONE	0.5	379.0
292.5	MATTOON		SANDSTONE	4.5	379.5
288.0	MATTOON		LIMESTONE	2.0	384.0
286.0	MATTOON		SANDSTONE	4.0	386.0
282.0	MATTOON		GRAY SHALE	21.0	390.0
261.0	MATTOON		COAL	1.0	411.0
260.0	MATTOON		GRAY SHALE	6.0	412.0

254.0	BOND	MILLERSVILLE	LIMESTONE	4.0	418.0
250.0	BOND	MILLERSVILLE	GRAY SHALE	8.0	422.0
242.0	BOND	MILLERSVILLE	LIMESTONE	26.0	430.0
216.0	BOND		GRAY SHALE	27.0	456.0
189.0	BOND		BLACK SHALE & CLAY	1.0	483.0
188.0	BOND		GRAY SHALE	5.0	484.0
183.0	BOND		SANDSTONE	9.0	489.0
174.0	BOND		SHALE	10.0	498.0
164.0	BOND		SANDSTONE	6.0	508.0
158.0	BOND		GRAY SHALE	12.0	514.0
146.0	BOND		BLACK SHALE	2.0	526.0
144.0	BOND		LIMESTONE	5.0	528.0
139.0	BOND		SHALE	26.0	533.0
113.0	BOND		COAL	0.5	559.0
112.5	BOND		GRAY SHALE	42.5	559.5
70.0	BOND		BLACK SHALE	2.0	602.0
68.0	BOND		SHALE	20.5	604.0
47.5	BOND	CARTHAGE	LIMESTONE	8.0	624.5
39.5	MODESTO		GRAY SHALE	18.5	632.5
21.0	MODESTO		LIMESTONE	1.0	651.0
20.0	MODESTO		GRAY SHALE	10.0	652.0
10.0	MODESTO		LIMESTONE	2.5	662.0
7.5	MODESTO		GRAY SHALE	13.5	664.5
-6.0	MODESTO		COAL	1.0	678.0
-7.0	MODESTO		GRAY SHALE	18.0	679.0
-25.0	MODESTO		SANDSTONE	5.0	697.0
-30.0	MODESTO		GRAY SHALE	45.0	702.0
-75.0	MODESTO	CHAPEL	COAL	1.0	747.0
-76.0	MODESTO		GRAY SHALE	6.0	748.0
-82.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.9	754.0
-88.9	MODESTO	WEST FRANKLIN	GRAY SHALE	3.1	760.9
-92.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.7	764.0
-101.7	MODESTO		SHALE	132.3	773.7
-234.0	CARBONDALE	DANVILLE	COAL	3.0	906.0
-237.0	CARBONDALE		GRAY SHALE	1.7	909.0
-238.7	CARBONDALE	DANVILLE SUMP	COAL	0.8	910.7
-239.5	CARBONDALE		GRAY SHALE	2.5	911.5
-242.0	CARBONDALE		LIMESTONE	1.5	914.0
-243.5	CARBONDALE		GRAY SHALE	6.5	915.5
-250.0	CARBONDALE		CLAYSTONE & SHALE	3.7	922.0
-253.7	CARBONDALE	HERRIN	COAL	1.3	925.7
-255.0	CARBONDALE	HERRIN	SHALE	0.5	927.0
-255.5	CARBONDALE	HERRIN	COAL	0.8	927.5
-256.3	CARBONDALE		GRAY SHALE	41.7	928.3

MAPID: 13900081000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 14N 6E SECTION: 13 QUARTERS/FOOTAGES: NW NE NE
 QUADRANGLE: ARTHUR LONGITUDE: -88.476015 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.665266 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 678.0 LOGGED (FT.): 1139.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
62.0	BOND	CARTHAGE	LIMESTONE	6.0	616.0
-49.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	727.0
-189.0	CARBONDALE	DANVILLE	COAL	3.0	867.0

MAPID: 13900142000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 14N 6E SECTION: 13 QUARTERS/FOOTAGES: SW SE SW
 QUADRANGLE: ARTHUR LONGITUDE: -88.485322 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.65245 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 1140.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
42.0	BOND	CARTHAGE	LIMESTONE	9.0	623.0
-78.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	743.0
-222.0	CARBONDALE	DANVILLE	COAL	2.0	887.0

MAPID: 13900140000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 14N 6E SECTION: 14 QUARTERS/FOOTAGES: NE NE NE
 QUADRANGLE: ARTHUR LONGITUDE: -88.4925 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.665194 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 674.0 LOGGED (FT.): 1142.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: #5 OR #6? @ 94, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
65.0	BOND	CARTHAGE	LIMESTONE	8.0	609.0
-59.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	733.0
-193.0	CARBONDALE	DANVILLE	COAL	3.0	867.0
-266.0	CARBONDALE	HERRIN	COAL	3.5	940.0

MAPID: 13900064000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: MOULTRIE **TWP/RNG:** 14N 6E **SECTION:** 16 **QUARTERS/FOOTAGES:** SW SE SW
QUADRANGLE: CADWELL **LONGITUDE:** -88.541621 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.652335 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 697.0 **LOGGED (FT.):** 1100.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
117.0	BOND	CARTHAGE	LIMESTONE	7.0	580.0
2.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	695.0
-123.0	CARBONDALE	DANVILLE	COAL	-	820.0

MAPID: 13900064000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: MOULTRIE **TWP/RNG:** 14N 6E **SECTION:** 16 **QUARTERS/FOOTAGES:** SW SE SW
QUADRANGLE: CADWELL **LONGITUDE:** -88.541621 **GEOLOGIST:** TREWORYG,J
CONFIDENTIAL: N **LATITUDE:** 39.652335 **DATE COLLECTED:** 5 / 0 / 1956
SURFACE ELEVATION (FT.): 697.0 **LOGGED (FT.):** 1100.0 **LOG TYPE:** Electric Log
SOURCE: M. & E. DRLG. CO. **WELL TYPE:** Oil and Gas Test
COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
697.0			UNKNOWN	820.0	0.0
-123.0	CARBONDALE	DANVILLE	COAL	-	820.0
-123.0	CARBONDALE		ROCK	280.0	820.0
-403.0	CARBONDALE	COLCHESTER	COAL	-	1100.0

MAPID: 13920609000C **VERSION:** 1 **PROJECT:** BLM
COUNTY: MOULTRIE **TWP/RNG:** 14N 6E **SECTION:** 26 **QUARTERS/FOOTAGES:** SW SW
QUADRANGLE: SULLIVAN **LONGITUDE:** -88.50728 **GEOLOGIST:** TREWORYG,J
CONFIDENTIAL: N **LATITUDE:** 39.624173 **DATE COLLECTED:** 0 / 0 / 1949
SURFACE ELEVATION (FT.): 652.0 **LOGGED (FT.):** 101.0 **LOG TYPE:** Drillers Log
SOURCE: E. C. BAKER & SONS **WELL TYPE:** Water Well
COMMENT: OR SE SE SEC. 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
652.0			UNCONSOLIDATED	90.0	0.0
562.0			ROCK	3.0	90.0
559.0			COAL	2.0	93.0
557.0			ROCK	6.0	95.0

MAPID: 13900066000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 14N 6E SECTION: 27 QUARTERS/FOOTAGES: NW SW NW
 QUADRANGLE: CADWELL LONGITUDE: -88.527231 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.632359 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 657.0 LOGGED (FT.): 1121.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
24.0	BOND	CARTHAGE	LIMESTONE	7.0	633.0
-80.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	737.0
-209.0	CARBONDALE	DANVILLE	COAL	-	866.0
-275.0	CARBONDALE	HERRIN	COAL	-	932.0
-299.0	CARBONDALE	SPRINGFIELD	COAL	5.0	956.0
-378.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1035.0

MAPID: 13900066000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 14N 6E SECTION: 27 QUARTERS/FOOTAGES: NW SW NW
 QUADRANGLE: CADWELL LONGITUDE: -88.527231 GEOLOGIST: TREWORY,J
 CONFIDENTIAL: N LATITUDE: 39.632359 DATE COLLECTED: 7 / 0 / 1956
 SURFACE ELEVATION (FT.): 657.0 LOGGED (FT.): 1121.0 LOG TYPE: Electric Log
 SOURCE: REE, INC. WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATIONS BY C. TREWORY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
657.0			UNKNOWN	866.0	0.0
-209.0	CARBONDALE	DANVILLE	COAL	-	866.0
-209.0	CARBONDALE		ROCK	66.0	866.0
-275.0	CARBONDALE	HERRIN	COAL	-	932.0
-275.0	CARBONDALE		ROCK	24.0	932.0
-299.0	CARBONDALE	SPRINGFIELD	COAL	5.0	956.0
-304.0	CARBONDALE		ROCK	74.0	961.0
-378.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1035.0
-378.0	CARBONDALE		ROCK	86.0	1035.0
-464.0	CARBONDALE	COLCHESTER	COAL	-	1121.0

MAPID: 13900109000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 14N 6E SECTION: 27 QUARTERS/FOOTAGES: NW SE SE
 QUADRANGLE: CADWELL LONGITUDE: -88.513146 GEOLOGIST: C TREWORYG
 CONFIDENTIAL: N LATITUDE: 39.625105 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 657.0 LOGGED (FT.): 1134.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
37.0	BOND	CARTHAGE	LIMESTONE	8.0	620.0	
-89.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	746.0	
-219.0	CARBONDALE	DANVILLE	COAL	2.0	876.0	
-293.0	CARBONDALE	HERRIN	COAL	-	950.0	
-323.0	CARBONDALE	SPRINGFIELD	COAL	5.0	980.0	

MAPID: 13900109000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 14N 6E SECTION: 27 QUARTERS/FOOTAGES: NW SE SE
 QUADRANGLE: CADWELL LONGITUDE: -88.513146 GEOLOGIST: TREWORYG,J
 CONFIDENTIAL: N LATITUDE: 39.625105 DATE COLLECTED: 11 / 0 / 1956
 SURFACE ELEVATION (FT.): 657.0 LOGGED (FT.): 1134.0 LOG TYPE: Electric Log
 SOURCE: PAUL G. WAITE WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
657.0			UNKNOWN	876.0	0.0	
-219.0	CARBONDALE	DANVILLE	COAL	2.0	876.0	
-221.0	CARBONDALE		ROCK	72.0	878.0	
-293.0	CARBONDALE	HERRIN	COAL	-	950.0	
-293.0	CARBONDALE		ROCK	30.0	950.0	
-323.0	CARBONDALE	SPRINGFIELD	COAL	5.0	980.0	
-328.0	CARBONDALE		ROCK	149.0	985.0	
-477.0	CARBONDALE	COLCHESTER	COAL	-	1134.0	

MAPID: 13900144000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 14N 6E SECTION: 28 QUARTERS/FOOTAGES: SW NW SW
 QUADRANGLE: CADWELL LONGITUDE: -88.546162 GEOLOGIST: C TREWORYG
 CONFIDENTIAL: N LATITUDE: 39.626899 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 649.0 LOGGED (FT.): 935.5 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: #5 OR #6? @932, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
69.0	BOND	CARTHAGE	LIMESTONE	7.0	580.0
-63.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	712.0
-212.0	CARBONDALE	DANVILLE	COAL	2.5	861.0
-283.0	CARBONDALE	SPRINGFIELD	COAL	3.5	932.0

MAPID: 13900144000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 14N 6E SECTION: 28 QUARTERS/FOOTAGES: SW NW SW
 QUADRANGLE: CADWELL LONGITUDE: -88.546162 GEOLOGIST: TREWORYG,J
 CONFIDENTIAL: N LATITUDE: 39.626899 DATE COLLECTED: 1 / 0 / 1959
 SURFACE ELEVATION (FT.): 649.0 LOGGED (FT.): 935.5 LOG TYPE: Electric Log
 SOURCE: ROMAN MILLER WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
649.0			UNKNOWN	861.0	0.0
-212.0	CARBONDALE	DANVILLE	COAL	2.5	861.0
-214.5	CARBONDALE		ROCK	68.5	863.5
-283.0	CARBONDALE	SPRINGFIELD	COAL	3.5	932.0

MAPID: 13900065000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 14N 6E SECTION: 30 QUARTERS/FOOTAGES: NW SW NE
 QUADRANGLE: CADWELL LONGITUDE: -88.574895 GEOLOGIST: C TREWORYG
 CONFIDENTIAL: N LATITUDE: 39.632363 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 658.0 LOGGED (FT.): 1108.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
78.0	BOND	CARTHAGE	LIMESTONE	8.0	580.0
-61.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	719.0
-225.0	CARBONDALE	DANVILLE	COAL	3.5	883.0
-265.0	CARBONDALE	HERRIN	COAL	5.0	923.0
-284.0	CARBONDALE	SPRINGFIELD	COAL	3.0	942.0

MAPID: 13900065000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 14N 6E SECTION: 30 QUARTERS/FOOTAGES: NW SW NE

QUADRANGLE: CADWELL LONGITUDE: -88.574895 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.632363 DATE COLLECTED: 6 / 0 / 1956

SURFACE ELEVATION (FT.): 658.0 LOGGED (FT.): 1108.0 LOG TYPE: Electric Log

SOURCE: REE, INC. WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORGY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
658.0			UNKNOWN	883.0	0.0	
-225.0	CARBONDALE	DANVILLE	COAL	3.5	883.0	
-228.5	CARBONDALE		ROCK	36.5	886.5	
-265.0	CARBONDALE	HERRIN	COAL	5.0	923.0	
-270.0	CARBONDALE		ROCK	14.0	928.0	
-284.0	CARBONDALE	SPRINGFIELD	COAL	3.0	942.0	
-287.0	CARBONDALE		ROCK	55.0	945.0	
-342.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1000.0	
-342.0	CARBONDALE		ROCK	108.0	1000.0	
-450.0	CARBONDALE	COLCHESTER	COAL	-	1108.0	

MAPID: 13900143000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 15N 4E SECTION: 22 QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: DALTON CITY LONGITUDE: -88.755816 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.726219 DATE COLLECTED:

SURFACE ELEVATION (FT.): 711.0 LOGGED (FT.): 1031.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
171.0	BOND	CARTHAGE	LIMESTONE	8.0	540.0	
4.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	707.0	
-81.0	CARBONDALE	DANVILLE	COAL	3.0	792.0	
-142.0	CARBONDALE	SPRINGFIELD	COAL	4.0	853.0	
-216.0	CARBONDALE	HOUCHIN CREEK	COAL	-	927.0	

MAPID: 13900189000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 15N 4E SECTION: 31 QUARTERS/FOOTAGES: NW NW NW
 QUADRANGLE: DALTON CITY LONGITUDE: -88.810988 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.710745 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 691.0 LOGGED (FT.): 840.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
221.0	BOND	CARTHAGE	LIMESTONE	9.0	470.0
43.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	648.0
-23.0	CARBONDALE	DANVILLE	COAL	3.5	714.0
-59.0	CARBONDALE	HERRIN	COAL	-	750.0
-85.0	CARBONDALE	SPRINGFIELD	COAL	2.0	776.0
-149.0	CARBONDALE	HOUCHIN CREEK	COAL	-	840.0

MAPID: 13900141000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 15N 4E SECTION: 32 QUARTERS/FOOTAGES: NW NE SE
 QUADRANGLE: DALTON CITY LONGITUDE: -88.779482 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.703032 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 978.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
192.0	BOND	CARTHAGE	LIMESTONE	8.0	470.0
52.0	MODESTO	WEST FRANKLIN	LIMESTONE	24.0	610.0
-70.0	CARBONDALE	DANVILLE	COAL	2.0	732.0
-139.0	CARBONDALE	SPRINGFIELD	COAL	3.5	801.0
-208.0	CARBONDALE	HOUCHIN CREEK	COAL	-	870.0

MAPID: 13900272000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 15N 4E SECTION: 32 QUARTERS/FOOTAGES: 360' S line, 370' W line of SE SE

QUADRANGLE: DALTON CITY LONGITUDE: -88.779324 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.697554 DATE COLLECTED:

SURFACE ELEVATION (FT.): 656.0 LOGGED (FT.): 860.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
202.0	BOND	CARTHAGE	LIMESTONE	9.0	454.0
69.0	MODESTO	WEST FRANKLIN	LIMESTONE	21.0	587.0
-61.0	CARBONDALE	DANVILLE	COAL	2.0	717.0
-97.0	CARBONDALE	HERRIN	COAL	2.5	753.0
-129.0	CARBONDALE	SPRINGFIELD	COAL	4.5	785.0
-204.0	CARBONDALE	HOUCHIN CREEK	COAL	-	860.0

MAPID: 13900135000C VERSION: 1

PROJECT: IBC XSECT

COUNTY: MOULTRIE TWP/RNG: 15N 5E SECTION: 5 QUARTERS/FOOTAGES: SW NW SW

QUADRANGLE: LA PLACE LONGITUDE: -88.681195 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.776095 DATE COLLECTED: 6 / 0 / 1958

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 1012.0 LOG TYPE: Other Core Study

SOURCE: WELL TYPE: Producer-Oil

COMMENT: TOPS PICKED FOR ISGS 11:30 X-SECTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-121.0	CARBONDALE	HERRIN	COAL	-	786.0
-347.0	CARBONDALE	COLCHESTER	COAL	-	1012.0

MAPID: 13900135000C VERSION: 2

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 15N 5E SECTION: 5 QUARTERS/FOOTAGES: SW NW SW

QUADRANGLE: LA PLACE LONGITUDE: -88.681195 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.776095 DATE COLLECTED:

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 1010.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GY SH ON #5?, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
170.0	BOND	CARTHAGE	LIMESTONE	9.0	495.0
11.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	654.0
-106.0	CARBONDALE	DANVILLE	COAL	2.0	771.0
-120.0	CARBONDALE	HERRIN	COAL	4.0	785.0
-169.0	CARBONDALE	SPRINGFIELD	COAL	4.0	834.0
-235.0	CARBONDALE	HOUCHIN CREEK	COAL	-	900.0

MAPID: 13900131000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 15N 5E SECTION: 17 QUARTERS/FOOTAGES: NW NW SE

QUADRANGLE: LOVINGTON LONGITUDE: -88.671358 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.745741 DATE COLLECTED:

SURFACE ELEVATION (FT.): 661.0 LOGGED (FT.): 1042.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
133.0	BOND	CARTHAGE	LIMESTONE	6.0	528.0
-19.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	680.0
-141.0	CARBONDALE	DANVILLE	COAL	2.0	802.0
-163.0	CARBONDALE	HERRIN	COAL	3.0	824.0
-201.0	CARBONDALE	SPRINGFIELD	COAL	2.5	862.0
-282.0	CARBONDALE	HOUCHIN CREEK	COAL	-	943.0

MAPID: 13900131000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 15N 5E SECTION: 17 QUARTERS/FOOTAGES: NW NW SE

QUADRANGLE: LOVINGTON LONGITUDE: -88.671358 GEOLOGIST: TREWORY,J

CONFIDENTIAL: N LATITUDE: 39.745741 DATE COLLECTED: 12 / 0 / 1957

SURFACE ELEVATION (FT.): 661.0 LOGGED (FT.): 1042.0 LOG TYPE: Electric Log

SOURCE: M. & E. DRLG. CO. WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
661.0			UNKNOWN	802.0	0.0
-141.0	CARBONDALE	DANVILLE	COAL	2.0	802.0
-143.0	CARBONDALE		ROCK	20.0	804.0
-163.0	CARBONDALE	HERRIN	COAL	3.0	824.0
-166.0	CARBONDALE		ROCK	35.0	827.0
-201.0	CARBONDALE	SPRINGFIELD	COAL	2.5	862.0
-203.5	CARBONDALE		ROCK	78.5	864.5
-282.0	CARBONDALE	HOUCHIN CREEK	COAL	-	943.0
-282.0	CARBONDALE		ROCK	99.0	943.0
-381.0	CARBONDALE	COLCHESTER	COAL	-	1042.0

MAPID: 13900105000C VERSION: 1

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 15N 5E SECTION: 18 QUARTERS/FOOTAGES: 340' S line, 15' E line of NE

QUADRANGLE: LOVINGTON LONGITUDE: -88.68212 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.747699 DATE COLLECTED: 10 / 0 / 1956

SURFACE ELEVATION (FT.): 672.0 LOGGED (FT.): 352.0 LOG TYPE: Drillers Log

SOURCE: FELMONT OIL CORP. WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
672.0			UNCONSOLIDATED	120.0	0.0
552.0			ROCK	76.0	120.0
476.0			COAL	2.0	196.0
474.0			ROCK	74.0	198.0
400.0			COAL	1.0	272.0
399.0			ROCK	79.0	273.0

MAPID: 13900150000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 15N 5E SECTION: 22 QUARTERS/FOOTAGES: 990' N line, 400' W line of SE

QUADRANGLE: LOVINGTON LONGITUDE: -88.632722 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.729284 DATE COLLECTED:

SURFACE ELEVATION (FT.): 681.0 LOGGED (FT.): 1107.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: SH RF ON #5?, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
91.0	BOND	CARTHAGE	LIMESTONE	7.0	590.0
-55.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	736.0
-188.0	CARBONDALE	DANVILLE	COAL	2.5	869.0
-206.0	CARBONDALE	HERRIN	COAL	4.0	887.0
-241.0	CARBONDALE	SPRINGFIELD	COAL	3.5	922.0
-316.0	CARBONDALE	HOUCHIN CREEK	COAL	-	997.0

MAPID: 13900150000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 15N 5E SECTION: 22 QUARTERS/FOOTAGES: 990' N line, 400' W line of SE

QUADRANGLE: LOVINGTON LONGITUDE: -88.632722 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.729284 DATE COLLECTED: 7 / 0 / 1959

SURFACE ELEVATION (FT.): 681.0 LOGGED (FT.): 1107.0 LOG TYPE: Electric Log

SOURCE: HAROLD C. SANDERS WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORGY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.0			UNKNOWN	869.0	0.0	
-188.0	CARBONDALE	DANVILLE	COAL	2.5	869.0	
-190.5	CARBONDALE		ROCK	15.5	871.5	
-206.0	CARBONDALE	HERRIN	COAL	4.0	887.0	
-210.0	CARBONDALE		ROCK	31.0	891.0	
-241.0	CARBONDALE	SPRINGFIELD	COAL	3.5	922.0	
-244.5	CARBONDALE		ROCK	71.5	925.5	
-316.0	CARBONDALE	HOUCHIN CREEK	COAL	-	997.0	
-316.0	CARBONDALE		ROCK	110.0	997.0	
-426.0	CARBONDALE	COLCHESTER	COAL	-	1107.0	

MAPID: 13900150000C VERSION: 3

PROJECT: IBC XSECT

COUNTY: MOULTRIE TWP/RNG: 15N 5E SECTION: 22 QUARTERS/FOOTAGES: 990' N line, 400' W line of SE

QUADRANGLE: LOVINGTON LONGITUDE: -88.632722 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.729284 DATE COLLECTED: 7 / 0 / 1959

SURFACE ELEVATION (FT.): 681.0 LOGGED (FT.): 1108.0 LOG TYPE: Lithologic Log

SOURCE: WELL TYPE: Producer-Oil

COMMENT: TOPS PICKED FOR ISGS 11:30 X-SECTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-206.0	CARBONDALE	HERRIN	COAL	-	887.0	
-427.0	CARBONDALE	COLCHESTER	COAL	-	1108.0	

MAPID: 13900001000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 15N 5E SECTION: 27 QUARTERS/FOOTAGES: SE SW NE

QUADRANGLE: LOVINGTON LONGITUDE: -88.630468 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.718154 DATE COLLECTED:

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 911.0 LOG TYPE: Survey Core Study

SOURCE: WELL TYPE: Coal Test

COMMENT: T& S58, GOOD LOG, #7 SPLIT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
86.0	BOND	CARTHAGE	LIMESTONE	13.0	584.0
-71.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	741.0
-204.0	CARBONDALE	DANVILLE	COAL	4.5	874.0
-232.0	CARBONDALE	HERRIN	COAL	9.0	902.0

MAPID: 13900001000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 15N 5E SECTION: 27 QUARTERS/FOOTAGES: SE SW NE

QUADRANGLE: LOVINGTON LONGITUDE: -88.630468 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.718154 DATE COLLECTED: 11 / 0 / 1900

SURFACE ELEVATION (FT.): 683.0 LOGGED (FT.): 920.0 LOG TYPE: Drillers Log

SOURCE: LOVINGTON C. C. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.0			UNCONSOLIDATED	145.0	0.0	
538.0			ROCK	57.6	145.0	
480.4			COAL	0.8	202.6	
479.6			ROCK	52.0	203.4	
427.6			COAL	2.0	255.4	
425.6			ROCK	45.1	257.4	
380.5			COAL	1.0	302.5	
379.5			ROCK	47.3	303.5	
332.2			COAL	0.3	350.8	
332.0			ROCK	60.8	351.0	
271.2			COAL	0.3	411.8	
270.9			ROCK	21.3	412.1	
249.7			COAL	0.1	433.3	
249.6			ROCK	6.4	433.4	
243.2			COAL	0.4	439.8	
242.7			ROCK	36.7	440.3	
206.1			COAL	0.7	476.9	
205.4			ROCK	26.3	477.6	
179.2			COAL	1.3	503.8	
177.9			ROCK	139.9	505.1	
38.0			COAL	0.5	645.0	
37.5			ROCK	69.5	645.5	
-32.0			COAL	1.0	715.0	
-33.0			ROCK	124.0	716.0	
-157.0			SHALE	33.5	840.0	
-190.5			COAL	3.2	873.5	
-193.7			SHALE	1.9	876.7	
-195.6			COAL	1.3	878.6	
-196.9			LIMESTONE	3.1	879.9	
-200.0			SHALE	5.0	883.0	
-205.0			BLACK SHALE	3.0	888.0	
-208.0			LIMESTONE	9.5	891.0	
-217.5			BLACK SHALE	2.3	900.5	
-219.8	CARBONDALE	HERRIN	COAL	8.8	902.8	
-227.7			ROCK	9.3	910.7	

MAPID: 13900001000C VERSION: 3

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 15N 5E SECTION: 27 QUARTERS/FOOTAGES: SE SW NE

QUADRANGLE: LOVINGTON LONGITUDE: -88.630468 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.718154 DATE COLLECTED: 11 / 0 / 1900

SURFACE ELEVATION (FT.): 669.7 LOGGED (FT.): 920.0 LOG TYPE: Drillers Log

SOURCE: LOVINGTON COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
669.7			UNCONSOLIDATED	149.0	0.0
520.7	MATTOON		SANDY SHALE	35.0	149.0
485.7	MATTOON		SANDSTONE	18.6	184.0
467.1	MATTOON		COAL	0.8	202.6
466.3	MATTOON		SANDSTONE	0.6	203.4
465.7	MATTOON		CLAYSTONE & SHALE	7.0	204.0
458.7	MATTOON		SANDSTONE	4.0	211.0
454.7	MATTOON		SHALE	14.5	215.0
440.2	MATTOON		DARK SHALE	13.5	229.5
426.7	MATTOON		BLUE SHALE	12.4	243.0
414.3	MATTOON		COAL	2.0	255.4
412.3	MATTOON		SANDY SHALE	15.6	257.4
396.7	MATTOON		SHALE	24.7	273.0
372.0	MATTOON		SHALE	1.3	297.7
370.7	MATTOON		BLACK SHALE	3.5	299.0
367.2	MATTOON		COAL	1.0	302.5
366.2	MATTOON		UNDERCLAY	4.5	303.5
361.7	MATTOON		SANDSTONE	23.0	308.0
338.7	MATTOON		SHALE	19.8	331.0
318.9	MATTOON		COAL	0.3	350.8
318.7	MATTOON		UNDERCLAY	2.0	351.0
316.7	MATTOON		CLAYSTONE & SHALE	5.0	353.0
311.7	MATTOON		LIMESTONE	5.0	358.0
306.7	MATTOON		CLAYSTONE & SHALE	6.0	363.0
300.7	MATTOON		CONGLOMERATE	3.0	369.0
297.7	BOND	MILLERSVILLE	LIMESTONE	25.7	372.0
272.0	BOND		SANDY SHALE	14.2	397.7
257.9	BOND		COAL	0.3	411.8
257.5	BOND		SHALE	21.2	412.2
236.4	BOND		COAL	0.1	433.3
236.3	BOND		SHALE	6.4	433.4
229.9	BOND		COAL	0.4	439.8
229.4	BOND		SHALE	7.8	440.3
221.6	BOND		SANDSTONE	5.0	448.1
216.6	BOND		BLUE SHALE	23.8	453.1
192.8	BOND		COAL	0.5	476.9
192.3	BOND		CLAYSTONE & SHALE	4.5	477.4
187.8	BOND		LIMESTONE	1.0	481.9
186.8	BOND		SHALE	18.5	482.9

168.3	BOND		BLACK SHALE	0.5	501.4
167.8	BOND		SHALE	1.9	501.9
165.9	BOND		COAL	1.3	503.8
164.6	BOND		UNDERCLAY	3.8	505.1
160.8	BOND		SANDSTONE	73.0	508.9
87.8	BOND		BLACK SHALE	2.5	581.9
85.3	BOND	CARTHAGE	LIMESTONE	9.1	584.4
76.2	MODESTO		BLACK SHALE	1.0	593.5
75.2	MODESTO		SHALE	16.5	594.5
58.7	MODESTO		SANDSTONE	16.0	611.0
42.7	MODESTO		SHALE	15.5	627.0
27.2	MODESTO		BLACK SHALE	2.5	642.5
24.7	MODESTO		COAL	1.5	645.0
23.2	MODESTO		CLAYSTONE & SHALE	5.5	646.5
17.7	MODESTO		SANDSTONE	4.0	652.0
13.7	MODESTO		BLUE SHALE	1.0	656.0
12.7	MODESTO		SANDSTONE	18.0	657.0
-5.3	MODESTO		SHALE	39.5	675.0
-44.8	MODESTO		BLACK SHALE	0.5	714.5
-45.3	MODESTO		COAL	1.0	715.0
-46.3	MODESTO		UNDERCLAY	2.5	716.0
-48.8	MODESTO	WEST FRANKLIN	LIMESTONE	13.5	718.5
-62.3	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	732.0
-70.3	MODESTO	WEST FRANKLIN	BLUE SHALE	1.5	740.0
-71.8	MODESTO	WEST FRANKLIN	LIMESTONE	12.8	741.5
-84.6	MODESTO		SHALE	8.7	754.3
-93.3	MODESTO		SANDSTONE	38.0	763.0
-131.3	MODESTO		BLUE SHALE	24.0	801.0
-155.3	MODESTO		BLACK SHALE	5.0	825.0
-160.3	MODESTO		BLUE SHALE	43.5	830.0
-203.8	CARBONDALE	DANVILLE	COAL	3.2	873.5
-207.0	CARBONDALE		SHALE	1.9	876.7
-208.9	CARBONDALE	BANKSTON FORK	LIMESTONE	4.4	878.6
-213.3	CARBONDALE		CLAYSTONE & SHALE	5.0	883.0
-218.3	CARBONDALE		BLACK SHALE	3.0	888.0
-221.3	CARBONDALE	BRERETON	LIMESTONE	9.5	891.0
-230.8	CARBONDALE	ANNA	BLACK SHALE	2.3	900.5
-233.1	CARBONDALE	HERRIN	COAL	8.8	902.8
-242.0	CARBONDALE		SANDSTONE	8.3	911.7

MAPID: 13900003000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 15N 5E SECTION: 27 QUARTERS/FOOTAGES: SE NW

QUADRANGLE: LOVINGTON LONGITUDE: -88.63634 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.719098 DATE COLLECTED:

SURFACE ELEVATION (FT.): 668.0 LOGGED (FT.): 873.6 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Coal Test

COMMENT: TD 901, GOOD LOG, #7 SPLIT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
98.0	BOND	CARTHAGE	LIMESTONE	6.0	570.0
-55.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	723.0
-181.0	CARBONDALE	DANVILLE	COAL	4.3	849.0
-201.0	CARBONDALE	HERRIN	COAL	4.6	869.0

MAPID: 13900003000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 15N 5E SECTION: 27 QUARTERS/FOOTAGES: SE NW

QUADRANGLE: LOVINGTON LONGITUDE: -88.63634 GEOLOGIST: TREWORY,J

CONFIDENTIAL: N LATITUDE: 39.719098 DATE COLLECTED: 0 / 0 / 1907

SURFACE ELEVATION (FT.): 672.0 LOGGED (FT.): 901.0 LOG TYPE: Drillers Log

SOURCE: LOVINGTON C. C. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.0			UNCONSOLIDATED	136.0	0.0	
536.0			ROCK	104.5	136.0	
431.5			COAL	1.1	240.5	
431.4			ROCK	45.6	240.6	
385.8			COAL	1.3	286.2	
384.5			ROCK	47.3	287.5	
337.2			COAL	0.2	334.8	
337.0			ROCK	53.8	335.0	
283.2			COAL	0.1	388.8	
283.1			ROCK	28.4	388.9	
254.7			COAL	0.1	417.3	
254.6			ROCK	5.6	417.4	
249.0			COAL	0.3	423.0	
248.7			ROCK	33.5	423.3	
215.2			COAL	0.3	456.8	
214.9			ROCK	33.6	457.1	
181.3			COAL	0.9	490.7	
180.4			ROCK	134.4	491.6	
46.0			COAL	0.5	626.0	
45.5			ROCK	74.2	626.5	
-28.7			COAL	1.2	700.7	
-29.8			ROCK	112.2	701.8	
-142.0			SHALE	35.0	814.0	
-177.0			COAL	3.0	849.0	
-180.0			SHALE	2.0	852.0	
-182.0			COAL	1.3	854.0	
-183.3			LIMESTONE	2.0	855.3	
-185.3			SHALE	4.3	857.3	
-189.6			LIMESTONE	6.6	861.6	
-196.2			BLACK SHALE	0.8	868.2	
-196.9	CARBONDALE	HERRIN	COAL	4.7	868.9	
-201.6			ROCK	27.4	873.6	

MAPID: 13900003000C VERSION: 3

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 15N 5E SECTION: 27 QUARTERS/FOOTAGES: SE NW

QUADRANGLE: LOVINGTON LONGITUDE: -88.63634 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.719098 DATE COLLECTED: 0 / 0 / 1907

SURFACE ELEVATION (FT.): 668.1 LOGGED (FT.): 901.0 LOG TYPE: Drillers Log

SOURCE: LOVINGTON COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.1			UNCONSOLIDATED	136.0	0.0	
532.1	MATTOON		SHALE	30.0	136.0	
502.1	MATTOON		SANDSTONE	34.0	166.0	
468.1	MATTOON		SHALE	1.0	200.0	
467.1	MATTOON		SANDSTONE	39.5	201.0	
427.6	MATTOON		COAL	1.1	240.5	
426.5	MATTOON		SHALE	16.4	241.6	
410.1	MATTOON		DARK SHALE	23.0	258.0	
387.1	MATTOON		SHALE	5.2	281.0	
381.9	MATTOON		COAL	1.3	286.2	
380.6	MATTOON		GRAY SHALE	21.5	287.5	
359.1	MATTOON		DARK SHALE	25.8	309.0	
333.3	MATTOON		COAL	0.2	334.8	
333.1	MATTOON		DARK SHALE	6.8	335.0	
326.3	BOND	MILLERSVILLE	LIMESTONE	5.8	341.8	
320.6	BOND	MILLERSVILLE	LIMESTONE	6.5	347.5	
314.1	BOND	MILLERSVILLE	LIMESTONE	28.0	354.0	
286.1	BOND		LIGHT SHALE	2.5	382.0	
283.6	BOND		DARK SHALE	4.3	384.5	
279.3	BOND		COAL	0.1	388.8	
279.2	BOND		DARK SHALE	28.4	388.9	
250.8	BOND		COAL	0.1	417.3	
250.7	BOND		DARK SHALE	5.6	417.4	
245.1	BOND		COAL	0.3	423.0	
244.8	BOND		DARK SHALE	9.8	423.3	
235.1	BOND		SANDY SHALE	7.0	433.0	
228.1	BOND		DARK SHALE	16.8	440.0	
211.3	BOND		COAL	0.3	456.8	
211.0	BOND		SHALE	23.9	457.1	
187.1	BOND		DARK SHALE	5.0	481.0	
182.1	BOND		BLACK SHALE	4.7	486.0	
177.4	BOND		COAL	0.9	490.7	
176.5	BOND		SHALE	18.4	491.6	
158.1	BOND		DARK SHALE	10.0	510.0	
148.1	BOND		SANDY SHALE	9.0	520.0	
139.1	BOND		SANDSTONE	8.0	529.0	
131.1	BOND		SANDY SHALE	1.0	537.0	
130.1	BOND		SANDSTONE	23.5	538.0	
106.6	BOND		SHALE	7.0	561.5	

99.6	BOND		CALCAREOUS SHALE	1.5	568.5
98.1	BOND	CARTHAGE	LIMESTONE	6.0	570.0
92.1	MODESTO		SHALE	1.0	576.0
91.1	MODESTO		BLACK SHALE	1.0	577.0
90.1	MODESTO		DARK SHALE	5.0	578.0
85.1	MODESTO		SHALE	12.0	583.0
73.1	MODESTO		LIMESTONE	2.5	595.0
70.6	MODESTO		GRAY SHALE	8.5	597.5
62.1	MODESTO		DARK SHALE	17.5	606.0
44.6	MODESTO		BLACK SHALE	2.5	623.5
42.1	MODESTO		COAL	0.3	626.0
41.8	MODESTO		UNDERCLAY	17.8	626.3
24.1	MODESTO		DARK SHALE	10.0	644.0
14.1	MODESTO		SANDY SHALE	16.0	654.0
-1.9	MODESTO		SANDSTONE	16.0	670.0
-17.9	MODESTO		DARK SHALE	12.5	686.0
-30.4	MODESTO		BLACK SHALE	2.2	698.5
-32.6	MODESTO		COAL	1.2	700.7
-33.7	MODESTO		UNDERCLAY	3.2	701.8
-36.9	MODESTO		DARK SHALE	3.0	705.0
-39.9	MODESTO		SHALE	14.0	708.0
-53.9	MODESTO		DARK SHALE	1.0	722.0
-54.9	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	723.0
-57.9	MODESTO	WEST FRANKLIN	SHALE	1.5	726.0
-59.4	MODESTO	WEST FRANKLIN	LIMESTONE	10.5	727.5
-69.9	MODESTO		BLACK SHALE	2.0	738.0
-71.9	MODESTO		SHALE	17.0	740.0
-88.9	MODESTO		CALCAREOUS SHALE	10.0	757.0
-98.9	MODESTO		SHALE	30.0	767.0
-128.9	MODESTO		BLACK SHALE	17.0	797.0
-145.9	MODESTO		BLUE SHALE	20.0	814.0
-165.9	MODESTO		DARK SHALE	15.0	834.0
-180.9	CARBONDALE	DANVILLE	COAL	3.0	849.0
-183.9	CARBONDALE	DANVILLE	UNDERCLAY	2.0	852.0
-185.9	CARBONDALE	DANVILLE SUMP	COAL	1.3	854.0
-187.2	CARBONDALE		LIMESTONE	2.0	855.3
-189.2	CARBONDALE		DARK SHALE	1.3	857.3
-190.5	CARBONDALE		GRAY SHALE	2.0	858.6
-192.5	CARBONDALE		DARK SHALE	1.0	860.6
-193.5	CARBONDALE	BRERETON	LIMESTONE	6.6	861.6
-200.1	CARBONDALE	ANNA	BLACK SHALE	0.8	868.2
-200.8	CARBONDALE	HERRIN	COAL	4.7	868.9
-205.5	CARBONDALE		UNDERCLAY	2.7	873.6
-208.2	CARBONDALE		SANDSTONE	0.8	876.3
-208.9	CARBONDALE		SHALE	24.0	877.0

MAPID: 13900033602M **VERSION:** 1 **PROJECT:** BLM
COUNTY: MOULTRIE **TWP/RNG:** 15N 5E **SECTION:** 27 **QUARTERS/FOOTAGES:** 2160' N line, 2370' W line
QUADRANGLE: LOVINGTON **LONGITUDE:** -88.634908 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.71869 **DATE COLLECTED:** 0 / 0 / 1924
SURFACE ELEVATION (FT.): 630.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Measured section
SOURCE: MINE NOTES-LOVINGTON C. C. # 1 **WELL TYPE:** Underground mine
COMMENT: AIRSHAFT ?"320' NW OF HOIST SHAFT"

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.0			UNKNOWN	0.0	0.0	

MAPID: 13900033601M **VERSION:** 1 **PROJECT:** BLM
COUNTY: MOULTRIE **TWP/RNG:** 15N 5E **SECTION:** 27 **QUARTERS/FOOTAGES:** NE SE
QUADRANGLE: LOVINGTON **LONGITUDE:** -88.626943 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.715371 **DATE COLLECTED:** 0 / 0 / 1925
SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 912.0 **LOG TYPE:** Measured section
SOURCE: MINE NOTES-LOVINGTON C. C. # 1 **WELL TYPE:** Underground mine
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0			UNKNOWN	904.0	0.0	
-304.0	CARBONDALE	HERRIN	COAL	8.0	904.0	

MAPID: 13900033603M **VERSION:** 1 **PROJECT:** BLM
COUNTY: MOULTRIE **TWP/RNG:** 15N 5E **SECTION:** 27 **QUARTERS/FOOTAGES:** 1650' S line, 660' E line
QUADRANGLE: LOVINGTON **LONGITUDE:** -88.626955 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.714372 **DATE COLLECTED:** 12 / 15 / 1909
SURFACE ELEVATION (FT.): 580.0 **LOGGED (FT.):** 930.0 **LOG TYPE:** Measured section
SOURCE: MINE NOTES-LOVINGTON C. C. # 1 **WELL TYPE:** Underground mine
COMMENT: 4 OTHER MEASURED SECTIONS IN THIS MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
580.0			UNKNOWN	891.2	0.0	
-311.2			LIMESTONE	9.0	891.2	
-320.2			SHALE	2.5	900.2	
-322.7	CARBONDALE	HERRIN	COAL	9.3	902.7	
-332.0			ROCK	18.0	912.0	

MAPID: 13920554000C VERSION: 1

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 15N 5E SECTION: 28 QUARTERS/FOOTAGES: 21' N line, 860' W line

QUADRANGLE: LOVINGTON LONGITUDE: -88.659498 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.724488 DATE COLLECTED: 5 / 25 / 1979

SURFACE ELEVATION (FT.): 667.0 LOGGED (FT.): 900.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. MI-79-28-7 WELL TYPE: Coal Test

COMMENT: GAMMA, DENSITY AND RESIST. LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
667.0			UNCONSOLIDATED	121.0	0.0
546.0	MATTOON		GRAY SHALE	106.0	121.0
440.0	MATTOON		SANDSTONE	6.0	227.0
434.0	MATTOON		GRAY SHALE	8.0	233.0
426.0	MATTOON		COAL	3.0	241.0
423.0	MATTOON		GRAY SHALE	41.5	244.0
381.5	MATTOON		LIMESTONE	1.0	285.5
380.5	MATTOON		COAL	1.0	286.5
379.5	MATTOON		BLACK SHALE & CLAY	5.0	287.5
374.5	MATTOON		GRAY SHALE	45.5	292.5
329.0	MATTOON		COAL	1.0	338.0
328.0	MATTOON		GRAY SHALE	10.0	339.0
318.0	BOND	MILLERSVILLE	LIMESTONE	3.0	349.0
315.0	BOND	MILLERSVILLE	GRAY SHALE	7.0	352.0
308.0	BOND	MILLERSVILLE	LIMESTONE	18.5	359.0
289.5	BOND		GRAY SHALE	48.5	377.5
241.0	BOND		SANDSTONE	4.0	426.0
237.0	BOND		GRAY SHALE	10.0	430.0
227.0	BOND		SANDSTONE	16.0	440.0
211.0	BOND		GRAY SHALE	6.5	456.0
204.5	BOND		COAL	1.0	462.5
203.5	BOND		GRAY SHALE	5.5	463.5
198.0	BOND		LIMESTONE	1.0	469.0
197.0	BOND		SHALE	22.0	470.0
175.0	BOND		SHALE & SANDSTONE	3.0	492.0
172.0	BOND		BLACK SHALE & CLAY	1.0	495.0
171.0	BOND		GRAY SHALE	40.0	496.0
131.0	BOND		COAL	1.0	536.0
130.0	BOND		GRAY SHALE	25.7	537.0
104.3	BOND	CARTHAGE	LIMESTONE	6.3	562.7
98.0	MODESTO		GRAY SHALE	3.0	569.0
95.0	MODESTO		BLACK SHALE	2.0	572.0
93.0	MODESTO		GRAY SHALE	42.0	574.0
51.0	MODESTO		BLACK SHALE & CLAY	2.0	616.0
49.0	MODESTO		GRAY SHALE	66.0	618.0
-17.0	MODESTO		BLACK SHALE	1.0	684.0
-18.0	MODESTO		COAL	1.0	685.0
-19.0	MODESTO		GRAY SHALE	24.0	686.0
-43.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	710.0

-48.0	MODESTO	WEST FRANKLIN	GRAY SHALE	8.0	715.0
-56.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	723.0
-66.0	MODESTO		GRAY SHALE	34.0	733.0
-100.0	MODESTO		LIMESTONE	1.0	767.0
-101.0	MODESTO		GRAY SHALE	11.0	768.0
-112.0	MODESTO		LIMESTONE	3.0	779.0
-115.0	MODESTO		SHALE	6.0	782.0
-121.0	MODESTO		BLACK SHALE	14.0	788.0
-135.0	MODESTO		GRAY SHALE	22.0	802.0
-157.0	CARBONDALE	DANVILLE	COAL	3.0	824.0
-160.0	CARBONDALE		GRAY SHALE	2.0	827.0
-162.0	CARBONDALE	DANVILLE SUMP	COAL	1.0	829.0
-163.0	CARBONDALE		LIMESTONE	2.0	830.0
-165.0	CARBONDALE		SHALE	3.0	832.0
-168.0	CARBONDALE	BRERETON	LIMESTONE	5.0	835.0
-173.0	CARBONDALE		BLACK SHALE	1.8	840.0
-174.8	CARBONDALE	HERRIN	COAL	3.7	841.8
-178.5	CARBONDALE		GRAY SHALE	32.0	845.5
-210.5	CARBONDALE		BLACK SHALE	2.0	877.5
-212.5	CARBONDALE	SPRINGFIELD	COAL	3.5	879.5
-216.0	CARBONDALE		UNDERCLAY	5.7	883.0
-221.7	CARBONDALE		GRAY SHALE	11.3	888.7

MAPID: 13920555000C VERSION: 1

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 15N 5E SECTION: 35 QUARTERS/FOOTAGES: 92' N line, 1275' E line

QUADRANGLE: CADWELL LONGITUDE: -88.610633 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.709767 DATE COLLECTED: 6 / 1 / 1979

SURFACE ELEVATION (FT.): 682.0 LOGGED (FT.): 1015.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. MI-79-35-4 WELL TYPE: Coal Test

COMMENT: GAMMA, DENSITY AND RESIST. LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
682.0			UNCONSOLIDATED	185.0	0.0
497.0	MATTOON		GRAY SHALE	91.5	185.0
405.5	MATTOON		SANDSTONE	2.0	276.5
403.5	MATTOON		COAL	1.0	278.5
402.5	MATTOON		GRAY SHALE	43.5	279.5
359.0	MATTOON		COAL	1.5	323.0
357.5	MATTOON		GRAY SHALE	6.0	324.5
351.5	MATTOON		SANDSTONE	6.5	330.5
345.0	MATTOON		SHALE & SANDSTONE	19.0	337.0
326.0	MATTOON		GRAY SHALE	16.5	356.0
309.5	MATTOON		COAL	0.5	372.5
309.0	MATTOON		GRAY SHALE	8.5	373.0
300.5	BOND	MILLERSVILLE	LIMESTONE	4.7	381.5
295.8	BOND	MILLERSVILLE	GRAY SHALE	4.8	386.2
291.0	BOND	MILLERSVILLE	LIMESTONE	28.0	391.0
263.0	BOND		GRAY SHALE	48.0	419.0
215.0	BOND		SANDSTONE	5.0	467.0
210.0	BOND		GRAY SHALE	30.0	472.0
180.0	BOND		COAL	1.0	502.0
179.0	BOND		SHALE	33.0	503.0
146.0	BOND		BLACK SHALE & CLAY	2.0	536.0
144.0	BOND		SHALE & SANDSTONE	7.0	538.0
137.0	BOND		GRAY SHALE	15.0	545.0
122.0	BOND		SANDSTONE	12.0	560.0
110.0	BOND		GRAY SHALE	8.0	572.0
102.0	BOND		LIMESTONE	1.5	580.0
100.5	BOND		COAL	2.0	581.5
98.5	BOND		GRAY SHALE	24.5	583.5
74.0	BOND	CARTHAGE	LIMESTONE	6.4	608.0
67.6	MODESTO		GRAY SHALE	2.6	614.4
65.0	MODESTO		BLACK SHALE	1.0	617.0
64.0	MODESTO		GRAY SHALE	15.0	618.0
49.0	MODESTO		LIMESTONE	2.5	633.0
46.5	MODESTO		SANDSTONE	3.5	635.5
43.0	MODESTO		LIMESTONE	1.3	639.0
41.7	MODESTO		GRAY SHALE	32.2	640.3
9.5	MODESTO		BLACK SHALE	2.5	672.5
7.0	MODESTO		GRAY SHALE	50.0	675.0
-43.0	MODESTO		SANDSTONE	3.5	725.0

-46.5	MODESTO		GRAY SHALE	28.5	728.5
-75.0	MODESTO		COAL	1.0	757.0
-76.0	MODESTO		GRAY SHALE	13.0	758.0
-89.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	771.0
-99.0	MODESTO	WEST FRANKLIN	GRAY SHALE	3.0	781.0
-102.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	784.0
-114.0	MODESTO		DARK SHALE	135.0	796.0
-249.0	CARBONDALE	DANVILLE	COAL	3.5	931.0
-252.5	CARBONDALE		UNDERCLAY	1.0	934.5
-253.5	CARBONDALE	DANVILLE SUMP	COAL	1.5	935.5
-255.0	CARBONDALE		GRAY SHALE	11.0	937.0
-266.0	CARBONDALE		DARK SHALE	5.0	948.0
-271.0	CARBONDALE	HERRIN	COAL	5.0	953.0
-276.0	CARBONDALE		GRAY SHALE	37.0	958.0
-313.0	CARBONDALE		BLACK SHALE	1.8	995.0
-314.8	CARBONDALE		LIMESTONE	0.6	996.8
-315.4	CARBONDALE	SPRINGFIELD	COAL	2.1	997.4
-317.5	CARBONDALE		UNDERCLAY	3.5	999.5
-321.0	CARBONDALE		LIMESTONE	3.0	1003.0
-324.0	CARBONDALE		SHALE	9.0	1006.0

MAPID: 13920555000C VERSION: 2

PROJECT: NCRDS87

COUNTY: MOULTRIE TWP/RNG: 15N 5E SECTION: 35 QUARTERS/FOOTAGES: 92' N line, 1275' E line

QUADRANGLE: CADWELL LONGITUDE: -88.610633 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 39.709767 DATE COLLECTED: 6 / 1 / 1979

SURFACE ELEVATION (FT.): 682.0 LOGGED (FT.): 1014.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. MI-79-35-4 WELL TYPE: Coal Test

COMMENT: LOG-TYPES: 11, 19, 23

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
682.0			UNCONSOLIDATED	181.0	0.0
501.0	MATTOON		UNCLASSIFIED	95.5	181.0
405.5	MATTOON		BLACK SHALE	0.0	276.5
405.5	MATTOON		COAL	1.5	276.5
404.0	MATTOON		UNCLASSIFIED	39.0	278.0
365.0	MATTOON		BLACK SHALE	1.5	317.0
363.5	MATTOON		UNCLASSIFIED	2.5	318.5
361.0	MATTOON		COAL	2.0	321.0
359.0	MATTOON		UNCLASSIFIED	47.5	323.0
311.5	MATTOON		COAL	1.0	370.5
310.5	MATTOON		UNCLASSIFIED	8.0	371.5
302.5	BOND	MILLERSVILLE	LIMESTONE	6.0	379.5
296.5	BOND		UNCLASSIFIED	4.5	385.5
292.0	BOND	MILLERSVILLE	LIMESTONE	29.0	390.0
263.0	BOND		UNCLASSIFIED	80.5	419.0
182.5	BOND		COAL	1.0	499.5
181.5	BOND		UNCLASSIFIED	39.5	500.5
142.0	BOND		BLACK SHALE	4.0	540.0
138.0	BOND		COAL	1.0	544.0
137.0	BOND		UNCLASSIFIED	35.0	545.0
102.0	BOND		COAL	2.0	580.0
100.0	BOND		UNCLASSIFIED	25.0	582.0
75.0	BOND	CARTHAGE	LIMESTONE	6.0	607.0
69.0	MODESTO		BLACK SHALE	3.0	613.0
66.0	MODESTO		UNCLASSIFIED	16.5	616.0
49.5	MODESTO		LIMESTONE	7.0	632.5
42.5	MODESTO		UNCLASSIFIED	28.5	639.5
14.0	MODESTO		BLACK SHALE	4.5	668.0
9.5	MODESTO		UNCLASSIFIED	79.0	672.5
-69.5	MODESTO		BLACK SHALE	1.5	751.5
-71.0	MODESTO		UNCLASSIFIED	2.5	753.0
-73.5	MODESTO	CHAPEL	COAL	1.5	755.5
-75.0	MODESTO		UNCLASSIFIED	14.0	757.0
-89.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.5	771.0
-98.5	MODESTO		UNCLASSIFIED	3.5	780.5
-102.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	784.0
-114.0	MODESTO		BLACK SHALE	2.0	796.0
-116.0	MODESTO		UNCLASSIFIED	132.5	798.0
-248.5	CARBONDALE	DANVILLE	COAL	3.5	930.5

-252.0	CARBONDALE		UNCLASSIFIED	14.0	934.0
-266.0	CARBONDALE	ANNA	BLACK SHALE	5.0	948.0
-271.0	CARBONDALE	HERRIN	COAL	4.0	953.0
-275.0	CARBONDALE		UNCLASSIFIED	6.5	957.0
-281.5	CARBONDALE		LIMESTONE	1.0	963.5
-282.5	CARBONDALE		UNCLASSIFIED	29.5	964.5
-312.0	CARBONDALE	TURNER MINE	BLACK SHALE	3.5	994.0
-315.5	CARBONDALE	SPRINGFIELD	COAL	2.5	997.5
-318.0	CARBONDALE		UNCLASSIFIED	2.5	1000.0
-320.5	CARBONDALE		LIMESTONE	3.5	1002.5
-324.0	CARBONDALE		UNCLASSIFIED	8.0	1006.0

MAPID: 13900108000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: MOULTRIE **TWP/RNG:** 15N 6E **SECTION:** 2 **QUARTERS/FOOTAGES:** SW NW SE
QUADRANGLE: ATWOOD **LONGITUDE:** -88.499988 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.77603 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 670.0 **LOGGED (FT.):** 1138.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: Y SH ON #5?, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
51.0	BOND	CARTHAGE	LIMESTONE	8.0	619.0
-81.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	751.0
-233.0	CARBONDALE	DANVILLE	COAL	3.0	903.0
-256.0	CARBONDALE	HERRIN	COAL	3.5	926.0
-294.0	CARBONDALE	SPRINGFIELD	COAL	5.0	964.0
-367.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1037.0

MAPID: 13900119000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: MOULTRIE **TWP/RNG:** 15N 6E **SECTION:** 7 **QUARTERS/FOOTAGES:** SW NW SE
QUADRANGLE: HAMMOND **LONGITUDE:** -88.576001 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.759061 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 692.0 **LOGGED (FT.):** 1025.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: Y SH ON #5?, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
92.0	BOND	CARTHAGE	LIMESTONE	8.0	600.0
-50.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	742.0
-94.0	MODESTO	PIASA	LIMESTONE	6.0	786.0
-201.0	CARBONDALE	DANVILLE	COAL	-	893.0
-224.0	CARBONDALE	HERRIN	COAL	4.0	916.0
-256.0	CARBONDALE	SPRINGFIELD	COAL	4.5	948.0
-333.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1025.0

MAPID: 13920559000C VERSION: 1

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 15N 6E SECTION: 9 QUARTERS/FOOTAGES: 42' S line, 61' E line

QUADRANGLE: HAMMOND LONGITUDE: -88.529522 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.754355 DATE COLLECTED: 7 / 9 / 1979

SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 680.0 LOG TYPE: Drillers Log

SOURCE: MOBIL OIL CORP. MI-79-9-10 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.0			UNCONSOLIDATED	140.0	0.0	
540.0	MATTOON		GRAY SHALE	4.0	140.0	
536.0	MATTOON		SANDSTONE	0.5	144.0	
535.5	MATTOON		GRAY SHALE	18.0	144.5	
517.5	MATTOON		LIMESTONE	1.0	162.5	
516.5	MATTOON		GRAY SHALE	6.5	163.5	
510.0	MATTOON		LIMESTONE	8.0	170.0	
502.0	MATTOON		SHALE	38.0	178.0	
464.0	MATTOON		SANDSTONE	4.0	216.0	
460.0	MATTOON		SANDSTONE/LIMESTONE	20.0	220.0	
440.0	MATTOON		SANDSTONE	10.0	240.0	
430.0	MATTOON		LIMESTONE	1.0	250.0	
429.0	MATTOON		SANDSTONE	60.0	251.0	
369.0	MATTOON		COAL	1.0	311.0	
368.0	MATTOON		SILTSTONE	28.0	312.0	
340.0	MATTOON		GRAY SHALE	6.0	340.0	
334.0	MATTOON		COAL	2.0	346.0	
332.0	MATTOON		GRAY SHALE	22.0	348.0	
310.0	MATTOON		SILTSTONE	12.0	370.0	
298.0	MATTOON		GRAY SHALE	15.0	382.0	
283.0	BOND	MILLERSVILLE	LIMESTONE	2.0	397.0	UNCERTAIN CORRELATION
281.0	BOND	MILLERSVILLE	GRAY SHALE	11.0	399.0	
270.0	BOND	MILLERSVILLE	LIMESTONE	50.0	410.0	
220.0	BOND		GRAY SHALE	6.0	460.0	
214.0	BOND		COAL	2.0	466.0	
212.0	BOND		GRAY SHALE	24.0	468.0	
188.0	BOND		SANDSTONE	11.0	492.0	
177.0	BOND		COAL	2.0	503.0	
175.0	BOND		SANDSTONE	5.0	505.0	
170.0	BOND		SHALE	73.0	510.0	
97.0	BOND		LIMESTONE	1.0	583.0	
96.0	BOND		SANDSTONE	30.0	584.0	
66.0	BOND		LIMESTONE	7.0	614.0	
59.0	BOND		BLACK SHALE	2.0	621.0	
57.0	BOND		SHALE & SANDSTONE	15.0	623.0	
42.0	BOND	CARTHAGE	LIMESTONE	10.0	638.0	
32.0	MODESTO		SANDSTONE	18.0	648.0	
14.0	MODESTO		BLACK SHALE	2.0	666.0	
12.0	MODESTO		SANDSTONE	12.0	668.0	



MAPID: 13920560000C VERSION: 1

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 15N 6E SECTION: 11 QUARTERS/FOOTAGES: 159' S line, 1293' E line

QUADRANGLE: ATWOOD LONGITUDE: -88.496165 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.754464 DATE COLLECTED: 6 / 14 / 1979

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 940.0 LOG TYPE: Drillers Log

SOURCE: MOBIL OIL CORP. MI-79-11-1 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
665.0			UNCONSOLIDATED	104.0	0.0
561.0	MATTOON		SANDSTONE	1.5	104.0
559.5	MATTOON		SHALE	18.5	105.5
541.0	MATTOON		LIMESTONE	3.8	124.0
537.2	MATTOON		SHALE	1.7	127.8
535.5	MATTOON		LIMESTONE	2.0	129.5
533.5	MATTOON		GRAY SHALE	10.5	131.5
523.0	MATTOON		SANDSTONE	11.0	142.0
512.0	MATTOON		LIMESTONE	1.0	153.0
511.0	MATTOON		SHALE	37.5	154.0
473.5	MATTOON		LIMESTONE	1.5	191.5
472.0	MATTOON		GRAY SHALE	31.0	193.0
441.0	MATTOON		SANDSTONE	80.0	224.0
361.0	MATTOON		BLACK SHALE & CLAY	3.0	304.0
358.0	MATTOON		GRAY SHALE	7.0	307.0
351.0	MATTOON		DARK SHALE	26.0	314.0
325.0	MATTOON		COAL	3.0	340.0
322.0	MATTOON		GRAY SHALE	43.0	343.0
279.0	BOND	MILLERSVILLE	LIMESTONE	6.0	386.0
273.0	BOND	MILLERSVILLE	GRAY SHALE	4.0	392.0
269.0	BOND	MILLERSVILLE	LIMESTONE	11.0	396.0
258.0	BOND	MILLERSVILLE	GRAY SHALE	0.5	407.0
257.5	BOND	MILLERSVILLE	LIMESTONE	26.5	407.5
231.0	BOND		GRAY SHALE	13.0	434.0
218.0	BOND		COAL	1.0	447.0
217.0	BOND		GRAY SHALE	8.0	448.0
209.0	BOND		SANDSTONE	18.0	456.0
191.0	BOND		SHALE	92.0	474.0
99.0	BOND		SANDSTONE/SHALE	4.0	566.0
95.0	BOND		SHALE/COAL	2.0	570.0
93.0	BOND		GRAY SHALE	14.0	572.0
79.0	BOND		SANDSTONE	14.0	586.0
65.0	BOND		SANDSTONE	4.0	600.0
61.0	BOND		BLACK SHALE	5.0	604.0
56.0	MODESTO		GRAY SHALE	8.0	609.0
48.0	MODESTO		LIMESTONE/SHALE/SANDS TONE	12.0	617.0
36.0	MODESTO		SANDSTONE/SHALE	3.0	629.0
33.0	MODESTO		GRAY SHALE	38.0	632.0

-5.0	MODESTO		SANDSTONE	10.0	670.0
-15.0	MODESTO		GRAY SHALE	2.0	680.0
-17.0	MODESTO		SANDSTONE	8.0	682.0
-25.0	MODESTO		GRAY SHALE	26.0	690.0
-51.0	MODESTO		COAL	2.0	716.0
-53.0	MODESTO		GRAY SHALE	6.0	718.0
-59.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.5	724.0
-63.5	MODESTO	WEST FRANKLIN	GRAY SHALE	1.5	728.5
-65.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	730.0
-72.0	MODESTO		SHALE	20.0	737.0
-92.0	MODESTO		LIMESTONE	2.0	757.0
-94.0	MODESTO		GRAY SHALE	112.5	759.0
-206.5	CARBONDALE	DANVILLE	COAL	3.5	871.5
-210.0	CARBONDALE		GRAY SHALE	10.7	875.0
-220.7	CARBONDALE		BLACK SHALE	0.3	885.7
-221.0	CARBONDALE		UNCLASSIFIED	3.5	886.0
-224.5	CARBONDALE	HERRIN	COAL	3.5	889.5
-228.0	CARBONDALE		UNCLASSIFIED	1.0	893.0
-229.0	CARBONDALE		GRAY SHALE	1.0	894.0
-230.0	CARBONDALE		LIMESTONE	5.0	895.0
-235.0	CARBONDALE		GRAY SHALE	19.8	900.0
-254.8	CARBONDALE		LIMESTONE	0.5	919.8
-255.3	CARBONDALE		BLACK SHALE	2.7	920.3
-258.0	CARBONDALE		GRAY SHALE	17.0	923.0

MAPID: 13900009000C VERSION: 2

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 15N 6E SECTION: 13 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW NW

QUADRANGLE: ATWOOD LONGITUDE: -88.487939 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.753011 DATE COLLECTED:

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 990.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN COMMENT
64.0	BOND	CARTHAGE	LIMESTONE	8.0	598.0
-60.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	722.0
-212.0	CARBONDALE	DANVILLE	COAL	2.5	874.0
-229.0	CARBONDALE	HERRIN	COAL	5.0	891.0
-263.0	CARBONDALE	SPRINGFIELD	COAL	5.0	925.0
-328.0	CARBONDALE	HOUCHIN CREEK	COAL	-	990.0

MAPID: 13900009000C **VERSION:** 3 **PROJECT:** CONTROL
COUNTY: MOULTRIE **TWP/RNG:** 15N 6E **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NW
QUADRANGLE: ATWOOD **LONGITUDE:** -88.487939 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 39.753011 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3673.0 **LOG TYPE:** Survey Sample Study
SOURCE: CONTINENTAL OIL CO. **WELL TYPE:** Oil and Gas Test
COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			NO RECORD	0.0	0.0

MAPID: 13900106000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: MOULTRIE **TWP/RNG:** 15N 6E **SECTION:** 14 **QUARTERS/FOOTAGES:** SE SW NE
QUADRANGLE: ARTHUR **LONGITUDE:** -88.497461 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.747586 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 667.0 **LOGGED (FT.):** 1118.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
43.0	BOND	CARTHAGE	LIMESTONE	10.0	624.0
-64.0	MODESTO	WEST FRANKLIN	LIMESTONE	18.0	731.0
-213.0	CARBONDALE	DANVILLE	COAL	2.5	880.0
-233.0	CARBONDALE	HERRIN	COAL	3.5	900.0
-268.0	CARBONDALE	SPRINGFIELD	COAL	5.0	935.0

MAPID: 13900017000C **VERSION:** 1 **PROJECT:** BLM
COUNTY: MOULTRIE **TWP/RNG:** 15N 6E **SECTION:** 15 **QUARTERS/FOOTAGES:** 20' S line, 20' E line
QUADRANGLE: CADWELL **LONGITUDE:** -88.510104 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.739343 **DATE COLLECTED:** 0 / 0 / 1948
SURFACE ELEVATION (FT.): 668.0 **LOGGED (FT.):** 439.0 **LOG TYPE:** Multiple log types
SOURCE: SOHIO OIL CO. **WELL TYPE:** Engineering Test Holes
COMMENT: 4,1

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
668.0			UNKNOWN	355.0	0.0
313.0			COAL	-	355.0
313.0			UNKNOWN	48.0	355.0
265.0			ROCK	36.0	403.0

MAPID: 13900275000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: MOULTRIE TWP/RNG: 15N 6E SECTION: 15 QUARTERS/FOOTAGES: SW SE NW

QUADRANGLE: CADWELL LONGITUDE: -88.523285 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.747665 DATE COLLECTED:

SURFACE ELEVATION (FT.): 672.0 LOGGED (FT.): 949.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GY SH ON #5?, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
70.0	BOND	CARTHAGE	LIMESTONE	10.0	602.0
-62.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	734.0
-211.0	CARBONDALE	DANVILLE	COAL	3.0	883.0
-230.0	CARBONDALE	HERRIN	COAL	4.0	902.0
-272.0	CARBONDALE	SPRINGFIELD	COAL	5.0	944.0

MAPID: 13900275000C VERSION: 2

PROJECT: BLM

COUNTY: MOULTRIE TWP/RNG: 15N 6E SECTION: 15 QUARTERS/FOOTAGES: SW SE NW

QUADRANGLE: CADWELL LONGITUDE: -88.523285 GEOLOGIST: TREWORYG,J

CONFIDENTIAL: N LATITUDE: 39.747665 DATE COLLECTED: 9 / 0 / 1949

SURFACE ELEVATION (FT.): 672.0 LOGGED (FT.): 949.0 LOG TYPE: Electric Log

SOURCE: SOHIO PETROL. CO. WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
672.0			UNKNOWN	883.0	0.0
-211.0	CARBONDALE	DANVILLE	COAL	3.0	883.0
-214.0	CARBONDALE		ROCK	16.0	886.0
-230.0	CARBONDALE	HERRIN	COAL	4.0	902.0
-234.0	CARBONDALE		ROCK	38.0	906.0
-272.0	CARBONDALE	SPRINGFIELD	COAL	5.0	944.0

MAPID: 13920556000C VERSION: 1

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 15N 6E SECTION: 19 QUARTERS/FOOTAGES: 1986' N line, 122' W line

QUADRANGLE: CADWELL LONGITUDE: -88.58642 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.733709 DATE COLLECTED: 6 / 4 / 1979

SURFACE ELEVATION (FT.): 695.0 LOGGED (FT.): 1065.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. MI-79-19-6 WELL TYPE: Coal Test

COMMENT: GAMMA, DENSITY AND RESIST. LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
695.0			UNCONSOLIDATED	144.5	0.0
550.5	MATTOON		LIMESTONE	1.5	144.5
549.0	MATTOON		SHALE	116.0	146.0
433.0	MATTOON		SANDSTONE	42.0	262.0
391.0	MATTOON		COAL	2.0	304.0
389.0	MATTOON		SHALE	42.0	306.0
347.0	MATTOON		COAL	2.0	348.0
345.0	MATTOON		GRAY SHALE	55.0	350.0
290.0	BOND	MILLERSVILLE	LIMESTONE	4.0	405.0
286.0	BOND	MILLERSVILLE	GRAY SHALE	7.0	409.0
279.0	BOND	MILLERSVILLE	LIMESTONE	22.0	416.0
257.0	BOND		GRAY SHALE	36.0	438.0
221.0	BOND		COAL	1.0	474.0
220.0	BOND		GRAY SHALE	15.0	475.0
205.0	BOND		SANDSTONE/SHALE	10.0	490.0
195.0	BOND		GRAY SHALE	21.0	500.0
174.0	BOND		COAL	1.0	521.0
173.0	BOND		SHALE	52.0	522.0
121.0	BOND		SANDSTONE	41.0	574.0
80.0	BOND		COAL	1.0	615.0
79.0	BOND		GRAY SHALE	21.5	616.0
57.5	BOND	CARTHAGE	LIMESTONE	7.0	637.5
50.5	MODESTO		SHALE	21.5	644.5
29.0	MODESTO		SANDSTONE	20.0	666.0
9.0	MODESTO		GRAY SHALE	13.5	686.0
-4.5	MODESTO		COAL	2.5	699.5
-7.0	MODESTO		GRAY SHALE	56.0	702.0
-63.0	MODESTO		SANDSTONE	6.0	758.0
-69.0	MODESTO		GRAY SHALE	6.0	764.0
-75.0	MODESTO		SHALE & SANDSTONE	6.0	770.0
-81.0	MODESTO		GRAY SHALE	2.0	776.0
-83.0	MODESTO		COAL	1.0	778.0
-84.0	MODESTO		GRAY SHALE	17.0	779.0
-101.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	796.0
-111.0	MODESTO	WEST FRANKLIN	GRAY SHALE	3.5	806.0
-114.5	MODESTO	WEST FRANKLIN	LIMESTONE	19.5	809.5
-134.0	MODESTO		GRAY SHALE	35.0	829.0
-169.0	MODESTO		SHALE/COAL	2.0	864.0
-171.0	MODESTO		GRAY SHALE	105.0	866.0

-276.0	CARBONDALE	DANVILLE	COAL	3.5	971.0
-279.5	CARBONDALE		GRAY SHALE	2.0	974.5
-281.5	CARBONDALE	DANVILLE SUMP	COAL	2.5	976.5
-284.0	CARBONDALE		GRAY SHALE	8.0	979.0
-292.0	CARBONDALE		LIMESTONE	7.0	987.0
-299.0	CARBONDALE	HERRIN	COAL	4.0	994.0
-303.0	CARBONDALE		GRAY SHALE	41.2	998.0
-344.2	CARBONDALE		LIMESTONE	0.8	1039.2
-345.0	CARBONDALE		BLACK SHALE	2.0	1040.0
-347.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1042.0
-351.0	CARBONDALE		UNDERCLAY	2.5	1046.0
-353.5	CARBONDALE		GRAY SHALE	16.5	1048.5

MAPID: 13920570000C VERSION: 1

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 15N 6E SECTION: 20 QUARTERS/FOOTAGES: 42' N line, 1284' E line

QUADRANGLE: CADWELL LONGITUDE: -88.552663 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.739279 DATE COLLECTED: 5 / 9 / 1980

SURFACE ELEVATION (FT.): 692.0 LOGGED (FT.): 954.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. MI-80-20-8 WELL TYPE: Coal Test

COMMENT: GAMMA, DENSITY AND RESIST. LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
692.0			UNCONSOLIDATED	138.0	0.0	
554.0	MATTOON		SHALE	11.0	138.0	
543.0	MATTOON		SANDSTONE	3.0	149.0	
540.0	MATTOON		GRAY SHALE	9.0	152.0	
531.0	MATTOON		BLACK SHALE	2.0	161.0	
529.0	MATTOON		GRAY SHALE	18.5	163.0	
510.5	MATTOON		LIMESTONE	9.0	181.5	
501.5	MATTOON		GRAY SHALE	2.0	190.5	
499.5	MATTOON		LIMESTONE	1.0	192.5	
498.5	MATTOON		GRAY SHALE	0.5	193.5	
498.0	MATTOON		BLACK SHALE	11.0	194.0	
487.0	MATTOON		LIMESTONE	3.0	205.0	
484.0	MATTOON		SHALE	12.0	208.0	
472.0	MATTOON		SANDSTONE	90.0	220.0	
382.0	MATTOON		COAL	1.0	310.0	
381.0	MATTOON		GRAY SHALE	43.0	311.0	
338.0	MATTOON		BLACK SHALE & CLAY	3.0	354.0	
335.0	MATTOON		GRAY SHALE	21.5	357.0	
313.5	MATTOON		LIMESTONE	1.5	378.5	
312.0	MATTOON		GRAY SHALE	23.0	380.0	
289.0	BOND	MILLERSVILLE	LIMESTONE	5.5	403.0	
283.5	BOND	MILLERSVILLE	GRAY SHALE	9.5	408.5	
274.0	BOND	MILLERSVILLE	LIMESTONE	18.0	418.0	
256.0	BOND		GRAY SHALE	146.0	436.0	
110.0	BOND		SANDSTONE	27.0	582.0	
83.0	BOND		GRAY SHALE	12.0	609.0	
71.0	BOND		LIMESTONE	2.0	621.0	
69.0	BOND		GRAY SHALE	1.0	623.0	
68.0	BOND	CARTHAGE	LIMESTONE	7.0	624.0	
61.0	MODESTO		BLACK SHALE & CLAY	4.0	631.0	
57.0	MODESTO		GRAY SHALE	14.0	635.0	
43.0	MODESTO		LIMESTONE	4.0	649.0	
39.0	MODESTO		GRAY SHALE	55.0	653.0	
-16.0	MODESTO		LIMESTONE	2.0	708.0	
-18.0	MODESTO		GRAY SHALE	32.0	710.0	
-50.0	MODESTO		BLACK SHALE	4.0	742.0	
-54.0	MODESTO	CHAPEL	COAL	1.0	746.0	
-55.0	MODESTO		GRAY SHALE	9.0	747.0	
-64.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.5	756.0	UNCERTAIN CORRELATION

-69.5	MODESTO	WEST FRANKLIN	GRAY SHALE	6.5	761.5	UNCERTAIN CORRELATION
-76.0	MODESTO	WEST FRANKLIN	LIMESTONE	2.0	768.0	
-78.0	MODESTO	WEST FRANKLIN	GRAY SHALE	4.0	770.0	
-82.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	774.0	
-90.0	MODESTO		GRAY SHALE	20.0	782.0	
-110.0	MODESTO		LIMESTONE	2.0	802.0	
-112.0	MODESTO		GRAY SHALE	112.0	804.0	
-224.0	CARBONDALE	DANVILLE	COAL	3.5	916.0	
-227.5	CARBONDALE		GRAY SHALE	1.5	919.5	
-229.0	CARBONDALE	DANVILLE SUMP	COAL	1.0	921.0	
-230.0	CARBONDALE		GRAY SHALE	5.5	922.0	
-235.5	CARBONDALE		LIMESTONE	4.5	927.5	
-240.0	CARBONDALE		GRAY SHALE	1.0	932.0	
-241.0	CARBONDALE	HERRIN	COAL	5.0	933.0	
-246.0	CARBONDALE		GRAY SHALE	1.5	938.0	
-247.5	CARBONDALE		LIMESTONE	0.7	939.5	
-248.2	CARBONDALE		GRAY SHALE	13.8	940.2	

MAPID: 13920571000C VERSION: 1

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 15N 6E SECTION: 21 QUARTERS/FOOTAGES: 44' S line, 74' E line

QUADRANGLE: CADWELL LONGITUDE: -88.529565 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.724878 DATE COLLECTED: 5 / 6 / 1980

SURFACE ELEVATION (FT.): 674.0 LOGGED (FT.): 1424.4 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. MI80-21-1C WELL TYPE: Coal Test

COMMENT: GAMMA, DENSITY AND RESIST. LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
674.0			UNCONSOLIDATED	120.0	0.0
554.0	MATTOON		SHALE & SANDSTONE	14.0	120.0
540.0	MATTOON		GRAY SHALE	13.0	134.0
527.0	MATTOON		SANDSTONE	1.0	147.0
526.0	MATTOON		SANDSTONE/SHALE	22.0	148.0
504.0	MATTOON		GRAY SHALE	9.5	170.0
494.5	MATTOON		LIMESTONE	1.5	179.5
493.0	MATTOON		CLAYSTONE & SILTSTONE	3.0	181.0
490.0	MATTOON		LIMESTONE	2.0	184.0
488.0	MATTOON		BLACK SHALE	7.0	186.0
481.0	MATTOON		LIMESTONE	1.0	193.0
480.0	MATTOON		SHALE	73.0	194.0
407.0	MATTOON		LIMESTONE	6.0	267.0
401.0	MATTOON		SANDSTONE	62.0	273.0
339.0	MATTOON		COAL	3.0	335.0
336.0	MATTOON		SANDSTONE	12.0	338.0
324.0	MATTOON		GRAY SHALE	26.0	350.0
298.0	MATTOON		COAL	2.0	376.0
296.0	MATTOON		GRAY SHALE	22.0	378.0
274.0	MATTOON		SHALE & SANDSTONE	5.0	400.0
269.0	MATTOON		GRAY SHALE	16.0	405.0
253.0	MATTOON		COAL	1.0	421.0
252.0	MATTOON		GRAY SHALE	6.0	422.0
246.0	BOND	MILLERSVILLE	LIMESTONE	3.0	428.0
243.0	BOND	MILLERSVILLE	GRAY SHALE	5.0	431.0
238.0	BOND	MILLERSVILLE	LIMESTONE	22.0	436.0
216.0	BOND		GRAY SHALE	5.0	458.0
211.0	BOND		SANDSTONE	13.0	463.0
198.0	BOND		GRAY SHALE	23.0	476.0
175.0	BOND		COAL	1.0	499.0
174.0	BOND		SILTSTONE	52.0	500.0
122.0	BOND		SHALE	12.0	552.0
110.0	BOND		COAL WITH SHALE	4.0	564.0
106.0	BOND		GRAY SHALE	29.5	568.0
76.5	BOND		SANDSTONE	6.5	597.5
70.0	BOND		SHALE & SANDSTONE	22.0	604.0
48.0	BOND		COAL	2.0	626.0
46.0	BOND		GRAY SHALE	17.0	628.0
29.0	BOND	CARTHAGE	LIMESTONE	9.0	645.0

20.0	MODESTO		GRAY SHALE	3.0	654.0
17.0	MODESTO		BLACK SHALE	1.0	657.0
16.0	MODESTO		GRAY SHALE	15.0	658.0
1.0	MODESTO		LIMESTONE	6.0	673.0
-5.0	MODESTO		SHALE & SANDSTONE	17.0	679.0
-22.0	MODESTO		GRAY SHALE	6.0	696.0
-28.0	MODESTO		BLACK SHALE & CLAY	2.0	702.0
-30.0	MODESTO		GRAY SHALE	65.0	704.0
-95.0	MODESTO		COAL	2.0	769.0
-97.0	MODESTO		GRAY SHALE	6.5	771.0
-103.5	MODESTO	WEST FRANKLIN	LIMESTONE	8.5	777.5
-112.0	MODESTO	WEST FRANKLIN	GRAY SHALE	5.5	786.0
-117.5	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	791.5
-126.5	MODESTO		GRAY SHALE	11.5	800.5
-138.0	MODESTO		LIMESTONE	4.0	812.0
-142.0	MODESTO		GRAY SHALE	121.5	816.0
-263.5	CARBONDALE	DANVILLE	COAL	2.5	937.5
-266.0	CARBONDALE		BLACK SHALE & CLAY	2.0	940.0
-268.0	CARBONDALE		BLACK SHALE	0.4	942.0
-268.4	CARBONDALE		UNDERCLAY	1.2	942.4
-269.6	CARBONDALE		CALCAREOUS SHALE	7.6	943.6
-277.2	CARBONDALE		GREEN SHALE	0.7	951.2
-277.9	CARBONDALE	JAMESTOWN	SHALE/COAL	1.4	951.9
-279.3	CARBONDALE		DARK GRAY SHALE	2.8	953.3
-282.1	CARBONDALE	BRERETON	LIMESTONE	0.9	956.1
-283.0	CARBONDALE	ANNA	BLACK SHALE	1.8	957.0
-284.8	CARBONDALE	HERRIN	COAL	5.0	958.8
-289.8	CARBONDALE	HERRIN	SHALE	0.1	963.8
-289.9	CARBONDALE	HERRIN	COAL	0.7	963.9
-290.6	CARBONDALE		CARBONACEOUS SHALE	0.5	964.6
-291.1	CARBONDALE		CLAYSTONE	1.2	965.1
-292.3	CARBONDALE		SHALE	1.6	966.3
-293.9	CARBONDALE		CALCAREOUS SANDSTONE	3.1	967.9
-297.0	CARBONDALE		GRAY SHALE	16.5	971.0
-313.5	CARBONDALE	ST. DAVID	LIMESTONE	1.0	987.5
-314.5	CARBONDALE		GRAY SHALE	0.5	988.5
-315.0	CARBONDALE	TURNER MINE	BLACK SHALE	4.0	989.0
-319.0	CARBONDALE	SPRINGFIELD	COAL	1.5	993.0
-320.5	CARBONDALE		UNDERCLAY	3.5	994.5
-324.0	CARBONDALE		GRAY SHALE	24.0	998.0
-348.0	CARBONDALE		LIMESTONE	1.0	1022.0
-349.0	CARBONDALE		SHALE	52.0	1023.0
-401.0	CARBONDALE		SANDSTONE	3.0	1075.0
-404.0	CARBONDALE	EXCELLO	BLACK SHALE	3.0	1078.0
-407.0	CARBONDALE		SHALE	17.0	1081.0
-424.0	CARBONDALE		LIMESTONE	1.0	1098.0
-425.0	CARBONDALE		GRAY SHALE	39.0	1099.0

-464.0	CARBONDALE	SURVANT	COAL	3.0	1138.0
-467.0	CARBONDALE		GRAY SHALE	35.0	1141.0
-502.0	CARBONDALE		COAL	1.0	1176.0
-503.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.0	1177.0
-504.0	CARBONDALE	COLCHESTER	COAL	1.0	1178.0
-505.0	SPOON		GRAY SHALE	15.0	1179.0
-520.0	SPOON	SEELYVILLE	COAL	1.0	1194.0
-521.0	SPOON	SEELYVILLE	GRAY SHALE	4.5	1195.0
-525.5	SPOON	SEELYVILLE	COAL	1.5	1199.5
-527.0	SPOON		GRAY SHALE	19.0	1201.0
-546.0	SPOON		COAL	1.0	1220.0
-547.0	SPOON		GRAY SHALE	15.0	1221.0
-562.0	SPOON		LIMESTONE	1.0	1236.0
-563.0	SPOON		GRAY SHALE	11.0	1237.0
-574.0			COAL	1.5	1248.0
-575.5			GRAY SHALE	6.0	1249.5
-581.5			LIMESTONE	1.5	1255.5
-583.0			GRAY SHALE	7.0	1257.0
-590.0			LIMESTONE	1.0	1264.0
-591.0			SHALE	2.0	1265.0
-593.0			BLACK SHALE	7.0	1267.0
-600.0			LIMESTONE	1.0	1274.0
-601.0			COAL	4.0	1275.0
-605.0			GRAY SHALE	13.0	1279.0
-618.0			BLACK SHALE	2.0	1292.0
-620.0			SHALE	3.0	1294.0
-623.0			COAL	1.0	1297.0
-624.0			GRAY SHALE	1.0	1298.0
-625.0			BLACK SHALE	3.0	1299.0
-628.0			SHALE	9.5	1302.0
-637.5			LIMESTONE	0.5	1311.5
-638.0			COAL	2.3	1312.0
-640.3			GRAY SHALE	42.7	1314.3
-683.0			COAL	1.3	1357.0
-684.3			DARK SHALE	1.2	1358.3
-685.5			SANDSTONE	14.5	1359.5
-700.0			GRAY SHALE	15.5	1374.0
-715.5			COAL	1.0	1389.5
-716.5			SANDSTONE	5.5	1390.5
-722.0			GRAY SHALE	23.5	1396.0
-745.5			LIMESTONE	4.9	1419.5

MAPID: 13920561000C VERSION: 1

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 15N 6E SECTION: 23 QUARTERS/FOOTAGES: 760' N line, 408' W line

QUADRANGLE: CADWELL LONGITUDE: -88.508611 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.737191 DATE COLLECTED: 6 / 29 / 1979

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 1009.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. MI-79-23-2 WELL TYPE: Coal Test

COMMENT: GAMMA, DENSITY AND RESIST. LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	98.0	0.0	
572.0	MATTOON		UNCLASSIFIED	41.0	98.0	
531.0	MATTOON		BLACK SHALE	4.5	139.0	
526.5	MATTOON		UNCLASSIFIED	267.5	143.5	
259.0	BOND	MILLERSVILLE	LIMESTONE	2.5	411.0	
256.5	BOND	MILLERSVILLE	SHALE	10.5	413.5	
246.0	BOND	MILLERSVILLE	LIMESTONE	22.0	424.0	
224.0	BOND		UNCLASSIFIED	100.0	446.0	
124.0	BOND		BLACK SHALE	3.5	546.0	
120.5	BOND		UNCLASSIFIED	74.5	549.5	
46.0	BOND	CARTHAGE	LIMESTONE	7.0	624.0	
39.0	MODESTO		BLACK SHALE	3.5	631.0	
35.5	MODESTO		UNCLASSIFIED	15.5	634.5	
20.0	MODESTO	MACOUPIN	LIMESTONE	4.0	650.0	UNCERTAIN CORRELATION
16.0	MODESTO		UNCLASSIFIED	20.5	654.0	
-4.5	MODESTO		BLACK SHALE	5.5	674.5	
-10.0	MODESTO		UNCLASSIFIED	82.0	680.0	
-92.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	762.0	
-96.0	MODESTO	WEST FRANKLIN	SHALE	3.0	766.0	
-99.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	769.0	
-105.0	MODESTO		UNCLASSIFIED	131.0	775.0	
-236.0	CARBONDALE	DANVILLE	COAL	3.5	906.0	
-239.5	CARBONDALE		UNCLASSIFIED	22.5	909.5	
-262.0	CARBONDALE		BLACK SHALE	6.0	932.0	
-268.0	CARBONDALE	HERRIN	COAL	8.0	938.0	
-276.0	CARBONDALE		UNCLASSIFIED	63.0	946.0	

MAPID: 13920572000C VERSION: 1

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 15N 6E SECTION: 24 QUARTERS/FOOTAGES: 1624' S line, 670' E line

QUADRANGLE: ARTHUR LONGITUDE: -88.475263 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.729185 DATE COLLECTED: 4 / 22 / 1980

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 980.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. 80-24-3C WELL TYPE: Coal Test

COMMENT: GAMMA, DENS, RESIST, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
660.0			UNCONSOLIDATED	88.0	0.0
572.0	MATTOON		SANDSTONE	1.5	88.0
570.5	MATTOON		GRAY SHALE	45.5	89.5
525.0	MATTOON		LIMESTONE	3.0	135.0
522.0	MATTOON		GRAY SHALE	3.0	138.0
519.0	MATTOON		LIMESTONE	3.0	141.0
516.0	MATTOON		GRAY SHALE	2.5	144.0
513.5	MATTOON		LIMESTONE	1.0	146.5
512.5	MATTOON		SHALE	23.5	147.5
489.0	MATTOON		LIMESTONE	1.0	171.0
488.0	MATTOON		GRAY SHALE	77.0	172.0
411.0	MATTOON		SANDSTONE	73.0	249.0
338.0	MATTOON		GRAY SHALE	4.0	322.0
334.0	MATTOON		COAL	1.0	326.0
333.0	MATTOON		GRAY SHALE	13.0	327.0
320.0	MATTOON		DARK SHALE & BLACK SHALES	34.0	340.0
286.0	MATTOON		GRAY SHALE	12.0	374.0
274.0	MATTOON		LIMESTONE	2.0	386.0
272.0	MATTOON		SANDSTONE	8.0	388.0
264.0	MATTOON		GRAY SHALE	17.0	396.0
247.0	MATTOON		COAL	2.0	413.0
245.0	MATTOON		GRAY SHALE	5.0	415.0
240.0	BOND	MILLERSVILLE	LIMESTONE	3.0	420.0
237.0	BOND	MILLERSVILLE	GRAY SHALE	4.0	423.0
233.0	BOND	MILLERSVILLE	LIMESTONE	27.0	427.0
206.0	BOND		GRAY SHALE	34.0	454.0
172.0	BOND		COAL	2.0	488.0
170.0	BOND		SHALE	96.0	490.0
74.0	BOND		SANDSTONE	16.0	586.0
58.0	BOND		BLACK SHALE	1.0	602.0
57.0	BOND		GRAY SHALE	20.0	603.0
37.0	BOND	CARTHAGE	LIMESTONE	9.5	623.0
27.5	MODESTO		GRAY SHALE	3.5	632.5
24.0	MODESTO		BLACK SHALE	2.0	636.0
22.0	MODESTO		GRAY SHALE	9.0	638.0
13.0	MODESTO		LIMESTONE	5.0	647.0
8.0	MODESTO		GRAY SHALE	26.5	652.0
-18.5	MODESTO		BLACK SHALE & CLAY	2.5	678.5

-21.0	MODESTO		GRAY SHALE	68.0	681.0
-89.0	MODESTO	CHAPEL	BLACK SHALE & CLAY	2.0	749.0
-91.0	MODESTO		UNDERCLAY	2.0	751.0
-93.0	MODESTO		LIMESTONE/CHERT	5.5	753.0
-98.5	MODESTO	WEST FRANKLIN	LIMESTONE	4.5	758.5
-103.0	MODESTO	WEST FRANKLIN	GRAY SHALE	8.0	763.0
-111.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	771.0
-120.0	MODESTO		GRAY SHALE	13.5	780.0
-133.5	MODESTO		LIMESTONE	1.5	793.5
-135.0	MODESTO		GRAY SHALE	102.5	795.0
-237.5	MODESTO		BLACK SHALE	1.0	897.5
-238.5	CARBONDALE	DANVILLE	COAL	3.2	898.5
-241.7	CARBONDALE		CLAYSTONE	3.3	901.7
-245.0	CARBONDALE		CLAYSTONE	6.0	905.0
-251.0	CARBONDALE		DARK GRAY SHALE	1.0	911.0
-252.0	CARBONDALE	JAMESTOWN	COAL	0.6	912.0
-252.6	CARBONDALE		UNDERCLAY	2.1	912.6
-254.7	CARBONDALE	ANNA	BLACK SHALE	3.3	914.7
-258.0	CARBONDALE	HERRIN	COAL	5.5	918.0
-263.5	CARBONDALE		UNDERCLAY	2.8	923.5
-266.3	CARBONDALE		SHALY LIMESTONE	2.8	926.3
-269.1	CARBONDALE		SHALE	5.9	929.1
-275.0	CARBONDALE		SANDSTONE/SHALE	1.9	935.0
-276.9	CARBONDALE		SANDSTONE	1.6	936.9
-278.5	CARBONDALE		SHALE	14.0	938.5
-292.5	CARBONDALE		LIMESTONE	0.5	952.5
-293.0	CARBONDALE		GRAY SHALE	4.0	953.0
-297.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	957.0
-298.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	958.0
-300.0	CARBONDALE	SPRINGFIELD	COAL	1.5	960.0
-301.5	CARBONDALE		UNDERCLAY & LIMESTONE	2.5	961.5
-304.0	CARBONDALE		GRAY SHALE	16.0	964.0

MAPID: 13920572000C VERSION: 2

PROJECT: NCRDS87

COUNTY: MOULTRIE TWP/RNG: 15N 6E SECTION: 24 QUARTERS/FOOTAGES: 1624' S line, 670' E line

QUADRANGLE: ARTHUR LONGITUDE: -88.475263 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 39.729185 DATE COLLECTED: 4 / 25 / 1980

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 980.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. MI80-24-3C WELL TYPE: Coal Test

COMMENT: LOG-TYPES: 11, 19, 23

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
660.0			UNCONSOLIDATED	97.0	0.0
563.0	MATTOON		UNCLASSIFIED	36.0	97.0
527.0	MATTOON	SHUMWAY	LIMESTONE	9.0	133.0
518.0	MATTOON		BLACK SHALE	3.0	142.0
515.0	MATTOON		LIMESTONE	1.0	145.0
514.0	MATTOON		UNCLASSIFIED	179.0	146.0
335.0	MATTOON		COAL	1.5	325.0
333.5	MATTOON		UNCLASSIFIED	38.5	326.5
295.0	MATTOON		BLACK SHALE	3.0	365.0
292.0	MATTOON		UNCLASSIFIED	43.0	368.0
249.0	MATTOON		COAL	1.0	411.0
248.0	MATTOON		UNCLASSIFIED	8.0	412.0
240.0	BOND	MILLERSVILLE	LIMESTONE	3.0	420.0
237.0	BOND		UNCLASSIFIED	5.0	423.0
232.0	BOND	MILLERSVILLE	LIMESTONE	25.0	428.0
207.0	BOND		UNCLASSIFIED	35.0	453.0
172.0	BOND		COAL WITH SHALE PARTINGS	1.0	488.0
171.0	BOND		UNCLASSIFIED	60.5	489.0
110.5	BOND		BLACK SHALE	3.5	549.5
107.0	BOND		UNCLASSIFIED	71.0	553.0
36.0	BOND	CARTHAGE	LIMESTONE	8.0	624.0
28.0	MODESTO		BLACK SHALE	5.0	632.0
23.0	MODESTO		UNCLASSIFIED	10.0	637.0
13.0	MODESTO		LIMESTONE	6.0	647.0
7.0	MODESTO		UNCLASSIFIED	23.0	653.0
-16.0	MODESTO		BLACK SHALE	8.0	676.0
-24.0	MODESTO		UNCLASSIFIED	61.0	684.0
-85.0	MODESTO		BLACK SHALE	5.0	745.0
-90.0	MODESTO	CHAPEL	COAL	1.5	750.0
-91.5	MODESTO		UNCLASSIFIED	8.5	751.5
-100.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.5	760.0
-104.5	MODESTO		UNCLASSIFIED	7.5	764.5
-112.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.5	772.0
-120.5	MODESTO		BLACK SHALE	3.5	780.5
-124.0	MODESTO		UNCLASSIFIED	115.0	784.0
-239.0	CARBONDALE	DANVILLE	COAL	3.0	899.0
-242.0	CARBONDALE		UNCLASSIFIED	10.0	902.0
-252.0	CARBONDALE	ANNA	BLACK SHALE	6.0	912.0

-258.0	CARBONDALE	HERRIN	COAL	5.0	918.0
-263.0	CARBONDALE		UNCLASSIFIED	32.0	923.0
-295.0	CARBONDALE	TURNER MINE	BLACK SHALE	5.0	955.0
-300.0	CARBONDALE	SPRINGFIELD	COAL	1.0	960.0
-301.0	CARBONDALE		UNCLASSIFIED	19.0	961.0

MAPID: 13900019000C **VERSION:** 1 **PROJECT:** BLM
COUNTY: MOULTRIE **TWP/RNG:** 15N 6E **SECTION:** 26 **QUARTERS/FOOTAGES:** NW NW NW NW
QUADRANGLE: CADWELL **LONGITUDE:** -88.50971 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.724381 **DATE COLLECTED:** 0 / 0 / 1948
SURFACE ELEVATION (FT.): 671.0 **LOGGED (FT.):** 441.0 **LOG TYPE:** Drillers Log
SOURCE: SOHIO OIL CO. **WELL TYPE:** Engineering Test Holes
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
671.0			UNKNOWN	330.0	0.0
341.0			COAL	-	330.0
341.0			UNKNOWN	41.0	330.0
300.0			COAL	-	371.0
300.0			UNKNOWN	70.0	371.0

MAPID: 13920573000C VERSION: 1

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 15N 6E SECTION: 26 QUARTERS/FOOTAGES: 40' N line, 2612' W line

QUADRANGLE: CADWELL LONGITUDE: -88.500956 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.724652 DATE COLLECTED: 5 / 5 / 1980

SURFACE ELEVATION (FT.): 672.0 LOGGED (FT.): 942.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. MI-80-26-9 WELL TYPE: Coal Test

COMMENT: DENSITY AND RESISTIVITY LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
672.0			UNCONSOLIDATED	117.0	0.0
555.0	MATTOON		SHALE	7.5	117.0
547.5	MATTOON		LIMESTONE	5.5	124.5
542.0	MATTOON		GRAY SHALE	3.0	130.0
539.0	MATTOON		LIMESTONE	1.0	133.0
538.0	MATTOON		SHALE	23.0	134.0
515.0	MATTOON		LIMESTONE	0.5	157.0
514.5	MATTOON		SHALE	35.0	157.5
479.5	MATTOON		LIMESTONE	2.0	192.5
477.5	MATTOON		SHALE	31.5	194.5
446.0	MATTOON		LIMESTONE	2.0	226.0
444.0	MATTOON		SANDSTONE	87.5	228.0
356.5	MATTOON		COAL	1.0	315.5
355.5	MATTOON		GRAY SHALE	36.0	316.5
319.5	MATTOON		COAL	1.0	352.5
318.5	MATTOON		GRAY SHALE	57.0	353.5
261.5	BOND	MILLERSVILLE	LIMESTONE	1.5	410.5
260.0	BOND	MILLERSVILLE	GRAY SHALE	5.0	412.0
255.0	BOND	MILLERSVILLE	LIMESTONE	7.5	417.0
247.5	BOND	MILLERSVILLE	GRAY SHALE	0.5	424.5
247.0	BOND	MILLERSVILLE	LIMESTONE	16.0	425.0
231.0	BOND		SHALE	105.0	441.0
126.0	BOND		BLACK SHALE	5.0	546.0
121.0	BOND		GRAY SHALE	9.0	551.0
112.0	BOND		SANDSTONE	28.5	560.0
83.5	BOND		GRAY SHALE	2.0	588.5
81.5	BOND		LIMESTONE	1.0	590.5
80.5	BOND		COAL	2.0	591.5
78.5	BOND		GRAY SHALE	23.0	593.5
55.5	BOND	CARTHAGE	LIMESTONE	8.5	616.5
47.0	MODESTO		BLACK SHALE & CLAY	5.0	625.0
42.0	MODESTO		GRAY SHALE	9.0	630.0
33.0	MODESTO		LIMESTONE	2.0	639.0
31.0	MODESTO		GRAY SHALE	27.0	641.0
4.0	MODESTO		BLACK SHALE	4.0	668.0
0.0	MODESTO		GRAY SHALE	67.0	672.0
-67.0	MODESTO		BLACK SHALE	2.0	739.0
-69.0	MODESTO	CHAPEL	COAL	1.0	741.0
-70.0	MODESTO		GRAY SHALE	8.0	742.0

-78.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.5	750.0
-83.5	MODESTO	WEST FRANKLIN	GRAY SHALE	6.0	755.5
-89.5	MODESTO	WEST FRANKLIN	LIMESTONE	6.5	761.5
-96.0	MODESTO		GRAY SHALE	131.0	768.0
-227.0	CARBONDALE	DANVILLE	COAL	3.5	899.0
-230.5	CARBONDALE		GRAY SHALE	14.5	902.5
-245.0	CARBONDALE	HERRIN	COAL	5.0	917.0
-250.0	CARBONDALE		GRAY SHALE	20.0	922.0

MAPID: 13920574000C VERSION: 1

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 15N 6E SECTION: 27 QUARTERS/FOOTAGES: 50' S line, 1038' E line

QUADRANGLE: CADWELL LONGITUDE: -88.513835 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.710429 DATE COLLECTED: 4 / 24 / 1980

SURFACE ELEVATION (FT.): 682.0 LOGGED (FT.): 1060.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. MI80-27-2C WELL TYPE: Coal Test

COMMENT: GAMMA, DENSITY AND RESIST. LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
682.0			UNCONSOLIDATED	108.0	0.0
574.0	MATTOON		SHALE	8.0	108.0
566.0	MATTOON		LIMESTONE	1.5	116.0
564.5	MATTOON		GRAY SHALE	4.0	117.5
560.5	MATTOON		BLACK SHALE	3.5	121.5
557.0	MATTOON		GRAY SHALE	4.0	125.0
553.0	MATTOON		LIMESTONE	1.5	129.0
551.5	MATTOON		SHALE	22.0	130.5
529.5	MATTOON		LIMESTONE	0.5	152.5
529.0	MATTOON		GRAY SHALE	29.0	153.0
500.0	MATTOON		LIMESTONE	5.0	182.0
495.0	MATTOON		GRAY SHALE	3.0	187.0
492.0	MATTOON		LIMESTONE	2.0	190.0
490.0	MATTOON		BLACK SHALE	2.0	192.0
488.0	MATTOON		LIMESTONE	0.5	194.0
487.5	MATTOON		GRAY SHALE	4.0	194.5
483.5	MATTOON		LIMESTONE	0.5	198.5
483.0	MATTOON		SHALE	79.0	199.0
404.0	MATTOON		SANDSTONE	70.0	278.0
334.0	MATTOON		COAL	1.5	348.0
332.5	MATTOON		SHALE	40.0	349.5
292.5	MATTOON		COAL	1.5	389.5
291.0	MATTOON		GRAY SHALE	24.0	391.0
267.0	MATTOON		SANDSTONE	5.0	415.0
262.0	MATTOON		GRAY SHALE	24.0	420.0
238.0	BOND	MILLERSVILLE	LIMESTONE	5.5	444.0
232.5	BOND	MILLERSVILLE	GRAY SHALE	8.5	449.5
224.0	BOND	MILLERSVILLE	LIMESTONE	22.5	458.0
201.5	BOND		GRAY SHALE	29.5	480.5
172.0	BOND		COAL	0.5	510.0
171.5	BOND		SHALE	69.5	510.5
102.0	BOND		SHALE	2.0	580.0
100.0	BOND		GRAY SHALE	10.0	582.0
90.0	BOND		SANDSTONE	35.0	592.0
55.0	BOND		COAL	1.0	627.0
54.0	BOND		SANDSTONE	12.0	628.0
42.0	BOND		GRAY SHALE	11.0	640.0
31.0	BOND	CARTHAGE	LIMESTONE	8.5	651.0
22.5	MODESTO		BLACK SHALE & CLAY	3.5	659.5

19.0	MODESTO		GRAY SHALE	13.0	663.0	
6.0	MODESTO		LIMESTONE	5.0	676.0	
1.0	MODESTO		GRAY SHALE	96.0	681.0	
-95.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	777.0	
-100.0	MODESTO	WEST FRANKLIN	GRAY SHALE	6.0	782.0	
-106.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.5	788.0	
-112.5	MODESTO		GRAY SHALE	150.5	794.5	
-263.0	CARBONDALE	DANVILLE	COAL	3.5	945.0	
-266.5	CARBONDALE		GRAY SHALE	11.5	948.5	
-278.0	CARBONDALE		UNKNOWN	3.5	960.0	
-281.5	CARBONDALE	JAMESTOWN	COAL	2.6	963.5	UNCERTAIN CORRELATION
-284.1	CARBONDALE		UNKNOWN	2.9	966.1	
-287.0	CARBONDALE		UNKNOWN	6.0	969.0	
-293.0	CARBONDALE		BLACK SHALE	2.5	975.0	
-295.5	CARBONDALE	HERRIN	COAL	10.0	977.5	
-305.5	CARBONDALE		LIMESTONE	19.5	987.5	
-325.0	CARBONDALE		GRAY SHALE	53.0	1007.0	

MAPID: 13920575000C VERSION: 1

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 15N 6E SECTION: 27 QUARTERS/FOOTAGES: 45' S line, 1043' E line

QUADRANGLE: CADWELL LONGITUDE: -88.513853 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.710416 DATE COLLECTED: 4 / 30 / 1980

SURFACE ELEVATION (FT.): 682.0 LOGGED (FT.): 1003.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. 80-27-2C-A WELL TYPE: Coal Test

COMMENT: GAMMA, DENSITY AND RESIST. LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
238.0	BOND	MILLERSVILLE	LIMESTONE	5.0	444.0	
233.0	BOND		SHALE	9.0	449.0	
224.0	BOND	MILLERSVILLE	LIMESTONE	23.0	458.0	
201.0	BOND		UNCLASSIFIED	171.0	481.0	
30.0	BOND	CARTHAGE	LIMESTONE	8.0	652.0	
22.0	MODESTO		BLACK SHALE	4.0	660.0	
18.0	MODESTO		UNCLASSIFIED	13.0	664.0	
5.0	MODESTO	MACOUPIN	LIMESTONE	6.0	677.0	UNCERTAIN CORRELATION
-1.0	MODESTO		UNCLASSIFIED	24.0	683.0	
-25.0	MODESTO		BLACK SHALE	5.0	707.0	
-30.0	MODESTO		UNCLASSIFIED	67.0	712.0	
-97.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.3	779.0	
-102.3	MODESTO	WEST FRANKLIN	SHALE	5.5	784.3	
-107.8	MODESTO	WEST FRANKLIN	LIMESTONE	6.4	789.8	
-114.2	MODESTO		UNCLASSIFIED	148.8	796.2	
-263.0	CARBONDALE	DANVILLE	COAL	3.8	945.0	
-266.8	CARBONDALE		UNCLASSIFIED	13.7	948.8	
-280.5	CARBONDALE		BLACK SHALE	15.5	962.5	
-296.0	CARBONDALE	HERRIN	COAL	10.0	978.0	
-306.0	CARBONDALE		UNCLASSIFIED	15.0	988.0	

MAPID: 13920562000C VERSION: 1

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 15N 6E SECTION: 29 QUARTERS/FOOTAGES: 39' N line, 2607' E line

QUADRANGLE: CADWELL LONGITUDE: -88.557346 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.724726 DATE COLLECTED: 7 / 18 / 1979

SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 1000.0 LOG TYPE: Drillers Log

SOURCE: MOBIL OIL CORP. MI-79-29-3 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.0			UNCONSOLIDATED	155.0	0.0
525.0	MATTOON		SHALE	55.0	155.0
470.0	MATTOON		LIMESTONE	4.0	210.0
466.0	MATTOON		GRAY SHALE	2.0	214.0
464.0	MATTOON		LIMESTONE	1.0	216.0
463.0	MATTOON		GRAY SHALE	2.5	217.0
460.5	MATTOON		LIMESTONE	3.5	219.5
457.0	MATTOON		BLACK SHALE	15.0	223.0
442.0	MATTOON		LIMESTONE	1.0	238.0
441.0	MATTOON		SANDSTONE	121.0	239.0
320.0	MATTOON		GRAY SHALE	10.0	360.0
310.0	MATTOON		GREEN SHALE	2.0	370.0
308.0	MATTOON		GRAY SHALE	22.0	372.0
286.0	MATTOON		LIMESTONE AND SANDSTONE	4.0	394.0
282.0	MATTOON		SANDSTONE	17.0	398.0
265.0	MATTOON		COAL	1.0	415.0
264.0	MATTOON		GRAY SHALE	8.0	416.0
256.0	BOND	MILLERSVILLE	LIMESTONE	3.5	424.0
252.5	BOND	MILLERSVILLE	GRAY SHALE	4.5	427.5
248.0	BOND	MILLERSVILLE	LIMESTONE	1.0	432.0
247.0	BOND	MILLERSVILLE	SANDSTONE/LIMESTONE	5.0	433.0
242.0	BOND	MILLERSVILLE	LIMESTONE	10.0	438.0
232.0	BOND		GRAY SHALE	86.0	448.0
146.0	BOND		COAL	2.0	534.0
144.0	BOND		GRAY SHALE	25.0	536.0
119.0	BOND		COAL	1.0	561.0
118.0	BOND		GRAY SHALE	38.0	562.0
80.0	BOND		SHALE & SANDSTONE	37.0	600.0
43.0	BOND	CARTHAGE	LIMESTONE	5.5	637.0
37.5	MODESTO		GRAY SHALE	2.5	642.5
35.0	MODESTO		COAL W/ BLACK SHALE	1.0	645.0
34.0	MODESTO		SHALE & SANDSTONE	16.0	646.0
18.0	MODESTO		LIMESTONE	3.0	662.0
15.0	MODESTO		SANDSTONE	34.0	665.0
-19.0	MODESTO		COAL	1.0	699.0
-20.0	MODESTO		GRAY SHALE	50.0	700.0
-70.0	MODESTO		LIMESTONE	2.0	750.0
-72.0	MODESTO		SHALE/COAL	5.0	752.0

-77.0	MODESTO		GRAY SHALE	15.0	757.0
-92.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.5	772.0
-96.5	MODESTO	WEST FRANKLIN	GRAY SHALE	3.5	776.5
-100.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	780.0
-111.0	MODESTO		GRAY SHALE	16.0	791.0
-127.0	MODESTO		LIMESTONE	2.0	807.0
-129.0	MODESTO		GRAY SHALE	116.0	809.0
-245.0	CARBONDALE	DANVILLE	COAL	3.5	925.0
-248.5	CARBONDALE		GRAY SHALE	2.5	928.5
-251.0	CARBONDALE	DANVILLE SUMP	COAL	1.0	931.0
-252.0	CARBONDALE		GRAY SHALE	5.0	932.0
-257.0	CARBONDALE		LIMESTONE W/ SHALE	3.0	937.0
-260.0	CARBONDALE		GRAY SHALE	3.0	940.0
-263.0	CARBONDALE	HERRIN	COAL	5.0	943.0
-268.0	CARBONDALE		GRAY SHALE	6.0	948.0
-274.0	CARBONDALE		LIMESTONE/SHALE/SANDS TONE	29.0	954.0
-303.0	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.0	983.0
-307.0	CARBONDALE		GRAY SHALE	4.0	987.0
-311.0	CARBONDALE		LIMESTONE	3.0	991.0
-314.0	CARBONDALE		GRAY SHALE	6.0	994.0

MAPID: 13920557000C VERSION: 1

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 15N 6E SECTION: 30 QUARTERS/FOOTAGES: 2579' N line, 2610' W line

QUADRANGLE: CADWELL LONGITUDE: -88.577306 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.717741 DATE COLLECTED: 6 / 8 / 1979

SURFACE ELEVATION (FT.): 691.0 LOGGED (FT.): 1060.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. MI-79-30-9 WELL TYPE: Coal Test

COMMENT: GAMMA, DENSITY AND RESIST. LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
691.0			UNCONSOLIDATED	140.0	0.0
551.0	MATTOON		CLAYSTONE & SHALE	30.0	140.0
521.0	MATTOON		SHALE	4.0	170.0
517.0	MATTOON		LIMESTONE	4.0	174.0
513.0	MATTOON		GRAY SILTSTONE	4.0	178.0
509.0	MATTOON		BLACK SHALE & CLAY	6.2	182.0
502.8	MATTOON		LIMESTONE	3.8	188.2
499.0	MATTOON		SHALE	12.0	192.0
487.0	MATTOON		SANDSTONE	12.0	204.0
475.0	MATTOON		GRAY SHALE	69.0	216.0
406.0	MATTOON		SANDSTONE	31.2	285.0
374.8	MATTOON		COAL	2.0	316.2
372.8	MATTOON		COAL WITH SHALE	1.8	318.2
371.0	MATTOON		GRAY SHALE	45.0	320.0
326.0	MATTOON		BLACK SHALE	1.0	365.0
325.0	MATTOON		GRAY SHALE	3.0	366.0
322.0	MATTOON		SANDSTONE	2.0	369.0
320.0	MATTOON		GRAY SHALE	22.0	371.0
298.0	MATTOON		SANDSTONE/LIMESTONE	1.0	393.0
297.0	MATTOON		GRAY SHALE	26.0	394.0
271.0	MATTOON		CALCAREOUS SHALE	4.0	420.0
267.0	BOND	MILLERSVILLE	LIMESTONE	4.0	424.0
263.0	BOND	MILLERSVILLE	GRAY SHALE	11.0	428.0
252.0	BOND	MILLERSVILLE	LIMESTONE	22.5	439.0
229.5	BOND		GRAY SHALE	118.0	461.5
111.5	BOND		BLACK SHALE & CLAY	3.5	579.5
108.0	BOND		GRAY SHALE	70.0	583.0
38.0	BOND	CARTHAGE	LIMESTONE	5.5	653.0
32.5	MODESTO		BLACK SHALE	2.0	658.5
30.5	MODESTO		GRAY SHALE	14.5	660.5
16.0	MODESTO		CALCAREOUS SHALE	3.0	675.0
13.0	MODESTO		LIMESTONE	2.0	678.0
11.0	MODESTO		GRAY SHALE	31.0	680.0
-20.0	MODESTO		BLACK SHALE & CLAY	2.0	711.0
-22.0	MODESTO		GRAY SHALE	25.0	713.0
-47.0	MODESTO		SANDSTONE	48.0	738.0
-95.0	MODESTO		SHALE & SILTSTONE	5.5	786.0
-100.5	MODESTO		COAL	1.5	791.5
-102.0	MODESTO		GRAY SHALE	10.5	793.0

-112.5	MODESTO	WEST FRANKLIN	LIMESTONE	8.5	803.5
-121.0	MODESTO	WEST FRANKLIN	GRAY SHALE	4.0	812.0
-125.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	816.0
-135.0	MODESTO		SHALE	14.0	826.0
-149.0	MODESTO		LIMESTONE	4.0	840.0
-153.0	MODESTO		GRAY SHALE	122.0	844.0
-275.0	CARBONDALE	DANVILLE	COAL	4.0	966.0
-279.0	CARBONDALE		SHALE	1.0	970.0
-280.0	CARBONDALE	DANVILLE SUMP	COAL	1.0	971.0
-281.0	CARBONDALE		GRAY SHALE	14.0	972.0
-295.0	CARBONDALE		BLACK SHALE	2.5	986.0
-297.5	CARBONDALE	HERRIN	COAL	4.7	988.5
-302.2	CARBONDALE		GRAY SHALE	35.8	993.2
-338.0	CARBONDALE		BLACK SHALE	4.0	1029.0
-342.0	CARBONDALE		LIMESTONE	0.7	1033.0
-342.7	CARBONDALE		BLACK SHALE	0.8	1033.7
-343.5	CARBONDALE	SPRINGFIELD	COAL	2.0	1034.5
-345.5	CARBONDALE		GRAY SHALE	2.5	1036.5
-348.0	CARBONDALE		LIMESTONE W/ SHALE	5.0	1039.0
-353.0	CARBONDALE		GRAY SHALE	16.0	1044.0

MAPID: 13920576000C VERSION: 1

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 15N 6E SECTION: 33 QUARTERS/FOOTAGES: 62' S line, 60' E line

QUADRANGLE: CADWELL LONGITUDE: -88.529292 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.695467 DATE COLLECTED: 5 / 13 / 1980

SURFACE ELEVATION (FT.): 669.0 LOGGED (FT.): 980.0 LOG TYPE: Drillers Log

SOURCE: MOBIL OIL CORP. MI-80-33-6 WELL TYPE: Coal Test

COMMENT: GAMMA, DENSITY AND RESIST. LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
669.0			UNCONSOLIDATED	98.0	0.0
571.0	MATTOON		BLACK SHALE	3.0	98.0
568.0	MATTOON		GRAY SHALE	39.0	101.0
529.0	MATTOON		COAL	1.0	140.0
528.0	MATTOON		GRAY SHALE	14.0	141.0
514.0	MATTOON		LIMESTONE	10.5	155.0
503.5	MATTOON		BLACK SHALE	7.0	165.5
496.5	MATTOON		LIMESTONE	1.5	172.5
495.0	MATTOON		GRAY SHALE	23.0	174.0
472.0	MATTOON		SANDSTONE	48.0	197.0
424.0	MATTOON		GRAY SHALE	10.0	245.0
414.0	MATTOON		SANDSTONE	56.0	255.0
358.0	MATTOON		LIMESTONE AND SANDSTONE	1.0	311.0
357.0	MATTOON		COAL	0.7	312.0
356.3	MATTOON		GRAY SHALE	3.3	312.7
353.0	MATTOON		COAL	1.0	316.0
352.0	MATTOON		SHALE & SANDSTONE	35.0	317.0
317.0	MATTOON		BLACK SHALE	1.0	352.0
316.0	MATTOON		BLACK SHALE & CLAY	3.0	353.0
313.0	MATTOON		SHALE & SANDSTONE	20.0	356.0
293.0	MATTOON		SANDSTONE	3.0	376.0
290.0	MATTOON		GRAY SHALE	17.5	379.0
272.5	MATTOON		SANDSTONE/SHALE	2.5	396.5
270.0	MATTOON		COAL	0.5	399.0
269.5	MATTOON		GRAY SHALE	6.5	399.5
263.0	BOND	MILLERSVILLE	LIMESTONE	6.5	406.0
256.5	BOND	MILLERSVILLE	GRAY SHALE	9.5	412.5
247.0	BOND	MILLERSVILLE	LIMESTONE	3.0	422.0
244.0	BOND	MILLERSVILLE	GRAY SHALE	0.5	425.0
243.5	BOND	MILLERSVILLE	LIMESTONE	17.5	425.5
226.0	BOND		GRAY SHALE	13.5	443.0
212.5	BOND		COAL	0.5	456.5
212.0	BOND		GRAY SHALE	27.0	457.0
185.0	BOND		COAL	1.0	484.0
184.0	BOND		GRAY SHALE	25.0	485.0
159.0	BOND		COAL W/ BLACK SHALE	1.0	510.0
158.0	BOND		GRAY SHALE	21.0	511.0
137.0	BOND		SANDSTONE	6.0	532.0

131.0	BOND		GRAY SHALE	7.0	538.0
124.0	BOND		COAL	1.0	545.0
123.0	BOND		GRAY SHALE	5.0	546.0
118.0	BOND		LIMESTONE AND SANDSTONE	1.0	551.0
117.0	BOND		GRAY SHALE	11.0	552.0
106.0	BOND		SANDSTONE	13.0	563.0
93.0	BOND		GRAY SHALE	13.0	576.0
80.0	BOND		COAL	1.0	589.0
79.0	BOND		GRAY SHALE	23.0	590.0
56.0	BOND	CARTHAGE	LIMESTONE	9.0	613.0
47.0	MODESTO		BLACK SHALE	1.5	622.0
45.5	MODESTO		GRAY SHALE	15.0	623.5
30.5	MODESTO		LIMESTONE	4.0	638.5
26.5	MODESTO		GRAY SHALE	25.0	642.5
1.5	MODESTO		COAL	1.5	667.5
0.0	MODESTO		SHALE	66.0	669.0
-66.0	MODESTO	CHAPEL	COAL	1.0	735.0
-67.0	MODESTO		UNCLASSIFIED	7.0	736.0
-74.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	743.0
-79.0	MODESTO	WEST FRANKLIN	GRAY SHALE	4.0	748.0
-83.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	752.0
-91.0	MODESTO		SHALE	153.0	760.0
-244.0	CARBONDALE	DANVILLE	COAL	3.5	913.0
-247.5	CARBONDALE	DANVILLE	GRAY SHALE	0.7	916.5
-248.2	CARBONDALE	DANVILLE	COAL	1.0	917.2
-249.2	CARBONDALE		GRAY SHALE	7.8	918.2
-257.0	CARBONDALE		LIMESTONE	2.0	926.0
-259.0	CARBONDALE		GRAY SHALE	12.0	928.0
-271.0	CARBONDALE	HERRIN	COAL	5.0	940.0
-276.0	CARBONDALE	HERRIN	GRAY SHALE	4.5	945.0
-280.5	CARBONDALE	HERRIN	COAL	1.5	949.5
-282.0	CARBONDALE	HERRIN	SHALE/COAL	3.0	951.0
-285.0	CARBONDALE	HERRIN	COAL	3.5	954.0
-288.5	CARBONDALE		GRAY SHALE	4.5	957.5
-293.0	CARBONDALE		LIMESTONE W/ SHALE	3.5	962.0
-296.5	CARBONDALE		GRAY SHALE	6.5	965.5
-303.0	CARBONDALE		CALCAREOUS SHALE	2.0	972.0
-305.0	CARBONDALE		GRAY SHALE	6.0	974.0

MAPID: 13920577000C VERSION: 1

PROJECT: NCRDS88

COUNTY: MOULTRIE TWP/RNG: 15N 6E SECTION: 35 QUARTERS/FOOTAGES: 2196' N line, 234' E line

QUADRANGLE: ARTHUR LONGITUDE: -88.492279 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.704052 DATE COLLECTED: 4 / 16 / 1980

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 988.0 LOG TYPE: Drillers Log

SOURCE: MOBIL OIL CORP. MI-80-35-5 WELL TYPE: Coal Test

COMMENT: GAMMA, DENSITY AND RESIST LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
665.0			UNCONSOLIDATED	96.0	0.0
569.0	MATTOON		RED SHALE	3.0	96.0
566.0	MATTOON		LIMESTONE	1.0	99.0
565.0	MATTOON		GRAY SHALE	4.0	100.0
561.0	MATTOON		BLACK SHALE	8.0	104.0
553.0	MATTOON		LIMESTONE	1.0	112.0
552.0	MATTOON		GRAY SHALE	9.0	113.0
543.0	MATTOON		GRAY SHALE	15.0	122.0
528.0	MATTOON		SHALE	23.0	137.0
505.0	MATTOON		LIMESTONE	4.0	160.0
501.0	MATTOON		GRAY SHALE	4.0	164.0
497.0	MATTOON		BLACK SHALE	2.5	168.0
494.5	MATTOON		LIMESTONE	1.5	170.5
493.0	MATTOON		SHALE	52.0	172.0
441.0	MATTOON		LIMESTONE	2.0	224.0
439.0	MATTOON		GRAY SHALE	60.0	226.0
379.0	MATTOON		LIMESTONE	4.0	286.0
375.0	MATTOON		SANDSTONE	48.0	290.0
327.0	MATTOON		COAL	2.0	338.0
325.0	MATTOON		GRAY SHALE	40.0	340.0
285.0	MATTOON		BLACK SHALE	1.5	380.0
283.5	MATTOON		COAL	1.0	381.5
282.5	MATTOON		GRAY SHALE	51.5	382.5
231.0	BOND	MILLERSVILLE	LIMESTONE	6.0	434.0
225.0	BOND	MILLERSVILLE	GRAY SHALE	7.0	440.0
218.0	BOND	MILLERSVILLE	LIMESTONE	3.5	447.0
214.5	BOND	MILLERSVILLE	GRAY SHALE	1.0	450.5
213.5	BOND	MILLERSVILLE	LIMESTONE	16.5	451.5
197.0	BOND		GRAY SHALE	34.0	468.0
163.0	BOND		SANDSTONE	14.0	502.0
149.0	BOND		SHALE	50.0	516.0
99.0	BOND		GREEN SHALE	2.0	566.0
97.0	BOND		GRAY SHALE	17.0	568.0
80.0	BOND		SANDSTONE	9.0	585.0
71.0	BOND		LIMESTONE	1.5	594.0
69.5	BOND		SANDSTONE	4.5	595.5
65.0	BOND		SHALE	31.0	600.0
34.0	BOND	CARTHAGE	LIMESTONE	7.0	631.0
27.0	MODESTO		BLACK SHALE & CLAY	4.0	638.0

23.0	MODESTO		GRAY SHALE	14.0	642.0
9.0	MODESTO		LIMESTONE	4.5	656.0
4.5	MODESTO		GRAY SHALE	22.5	660.5
-18.0	MODESTO		BLACK SHALE	3.0	683.0
-21.0	MODESTO		COAL	2.0	686.0
-23.0	MODESTO		GRAY SHALE	10.0	688.0
-33.0	MODESTO		SANDSTONE	6.0	698.0
-39.0	MODESTO		GRAY SHALE	42.0	704.0
-81.0	MODESTO		COAL	1.5	746.0
-82.5	MODESTO		GRAY SHALE	2.5	747.5
-85.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.5	750.0
-91.5	MODESTO	WEST FRANKLIN	GRAY SHALE	5.5	756.5
-97.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.5	762.0
-101.5	MODESTO		GRAY SHALE	25.5	766.5
-127.0	MODESTO		SANDSTONE	18.0	792.0
-145.0	MODESTO		GRAY SHALE	99.0	810.0
-244.0	CARBONDALE	DANVILLE	COAL	3.5	909.0
-247.5	CARBONDALE		GRAY SHALE	13.5	912.5
-261.0	CARBONDALE	HERRIN	COAL	6.0	926.0
-267.0	CARBONDALE		GRAY SHALE	5.0	932.0
-272.0	CARBONDALE		SANDSTONE	5.0	937.0
-277.0	CARBONDALE		GRAY SHALE	17.5	942.0
-294.5	CARBONDALE		LIMESTONE	0.5	959.5
-295.0	CARBONDALE		BLACK SHALE	3.5	960.0
-298.5	CARBONDALE	ST. DAVID	LIMESTONE	2.0	963.5
-300.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	965.5
-301.5	CARBONDALE	SPRINGFIELD	COAL	1.5	966.5
-303.0	CARBONDALE		GRAY SHALE	11.5	968.0
-314.5	CARBONDALE		LIMESTONE	1.0	979.5
-315.5	CARBONDALE		GRAY SHALE	7.5	980.5
