

Status Report

Total Records: 228

Top 3 County Records		Top 3 Log Type Records		Top 3 Coal Records		Top 3 Member Records	
Coles	228	Electric Log	149	HERRIN	218	HERRIN COAL	218
		Multiple log types	18	DANVILLE	143	DANVILLE COAL	143
		Drillers Log	15	HOUCHIN CREEK	141	HOUCHIN CREEK COAL	141

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
GREENUP	LIMESTONE	92.0	92.0	92.0	7.0	7.0	7.0
SHUMWAY	LIMESTONE	229.3	140.0	295.0	4.8	2.0	10.0
LOUDON	COAL	503.3	503.3	503.3	1.9	1.9	1.9
MILLERSVILLE	LIMESTONE	500.9	391.0	598.0	28.7	20.0	38.0
LIVINGSTON	LIMESTONE	608.0	608.0	608.0	30.0	30.0	30.0
CARTHAGE	LIMESTONE	641.5	158.0	850.5	6.8	2.0	15.0
CHAPEL	COAL	847.1	847.1	847.1	0.9	0.9	0.9
WEST FRANKLIN	LIMESTONE	768.3	133.0	990.0	8.5	3.0	26.0
DANVILLE	COAL	792.9	90.0	1110.0	2.7	2.0	5.0
BANKSTON FORK	LIMESTONE	446.7	76.0	1056.4	4.1	1.5	6.0
JAMESTOWN	COAL	982.0	929.0	1079.0	2.0	2.0	2.0
ENERGY	SHALE	402.3	56.0	1081.0	82.0	3.0	119.5
HERRIN	COAL	658.7	123.1	1198.0	3.3	1.0	6.0
BRIAR HILL	COAL	1153.0	1153.0	1153.0	3.0	3.0	3.0
ST. DAVID	LIMESTONE	276.5	227.0	326.0	3.5	3.0	4.0
TURNER MINE	SHALE	726.8	230.0	1175.7	3.7	0.8	8.0
SPRINGFIELD	COAL	803.1	166.0	1223.0	2.9	0.3	5.0
EXCELLO	SHALE	961.6	306.8	1204.0	6.9	3.5	9.0
HOUCHIN CREEK	COAL	886.7	224.0	1326.0	2.9	1.5	9.0
OAK GROVE	LIMESTONE	1321.0	1321.0	1321.0	3.0	3.0	3.0
MECCA QUARRY	SHALE	864.8	281.5	1324.0	4.0	3.0	6.0
COLCHESTER	COAL	959.2	246.0	1406.0	1.8	0.5	3.0
SEELYVILLE	COAL	1026.2	316.0	1429.0	3.6	1.5	8.0
				Net Coal	25.1		

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: 02900292000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: COLES TWP/RNG: 11N 7E SECTION: 1 QUARTERS/FOOTAGES: SW NE NE
QUADRANGLE: MATTOON EAST LONGITUDE: -88.36374 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.429667 DATE COLLECTED:
SURFACE ELEVATION (FT.): 769.0 LOGGED (FT.): 1318.5 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
19.0	BOND	CARTHAGE	LIMESTONE	8.0	750.0
-106.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	875.0
-236.0	CARBONDALE	DANVILLE	COAL	-	1005.0
-330.0	CARBONDALE	HERRIN	COAL	4.0	1099.0
-441.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1210.0
-503.0	CARBONDALE	COLCHESTER	COAL	-	1272.0
-546.0	SPOON	SEELYVILLE	COAL	3.5	1315.0

MAPID: 02900779000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 11N 7E SECTION: 2 QUARTERS/FOOTAGES: 330' S line, 1011' W line of NE

QUADRANGLE: MATTOON WEST LONGITUDE: -88.383857 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.426015 DATE COLLECTED:

SURFACE ELEVATION (FT.): 765.0 LOGGED (FT.): 1024.0 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	
73.0	BOND	CARTHAGE	LIMESTONE	9.0	692.0	
-53.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	818.0	
-173.0	CARBONDALE	DANVILLE	COAL	2.5	938.0	
-255.0	CARBONDALE	HERRIN	COAL	4.0	1020.0	

MAPID: 02900803000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 11N 7E SECTION: 3 QUARTERS/FOOTAGES: NE NE SW

QUADRANGLE: MATTOON WEST LONGITUDE: -88.407552 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.424234 DATE COLLECTED:

SURFACE ELEVATION (FT.): 743.0 LOGGED (FT.): 1210.0 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	
71.0	BOND	CARTHAGE	LIMESTONE	9.0	672.0	
-57.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	800.0	
-177.0	CARBONDALE	DANVILLE	COAL	-	920.0	
-265.0	CARBONDALE	HERRIN	COAL	4.0	1008.0	
-365.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1108.0	
-449.0	CARBONDALE	COLCHESTER	COAL	-	1192.0	
-463.0	SPOON	SEELYVILLE	COAL	4.0	1206.0	

MAPID: 02900265000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 11N 7E SECTION: 4 QUARTERS/FOOTAGES: NE NE NE
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.417341 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.431624 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 734.0 LOGGED (FT.): 1291.0 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	
-3.0	BOND	CARTHAGE	LIMESTONE	8.0	737.0	
-134.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	868.0	
-353.0	CARBONDALE	HERRIN	COAL	3.0	1087.0	
-364.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1098.0	
-462.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1196.0	
-543.0	CARBONDALE	COLCHESTER	COAL	-	1277.0	
-554.0	SPOON	SEELYVILLE	COAL	3.0	1288.0	

MAPID: 02900296000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 11N 7E SECTION: 7 QUARTERS/FOOTAGES: SE NE SW
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.463923 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.407782 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 667.0 LOGGED (FT.): 1343.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: E SH, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-110.0	BOND	CARTHAGE	LIMESTONE	10.0	777.0	
-243.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	910.0	
-383.0	CARBONDALE	DANVILLE	COAL	-	1050.0	
-463.0	CARBONDALE	HERRIN	COAL	5.0	1130.0	
-538.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1205.0	
-661.0	CARBONDALE	COLCHESTER	COAL	-	1328.0	
-671.0	SPOON	SEELYVILLE	COAL	5.0	1338.0	

MAPID: 02900051000C VERSION: 1

PROJECT: CONTROL

COUNTY: COLES TWP/RNG: 11N 7E SECTION: 10 QUARTERS/FOOTAGES: 1656' N line, 330' W line of SE
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.405434 GEOLOGIST: HINES
 CONFIDENTIAL: N LATITUDE: 39.4059 DATE COLLECTED:
 SURFACE ELEVATION (FT.): LOGGED (FT.): 1977.0 LOG TYPE: Survey Sample Study
 SOURCE: NATIONAL CONSUMERS OIL WELL TYPE: Oil and Gas Test
 COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 02900859000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES

TWP/RNG: 11N 7E

SECTION: 10

QUARTERS/FOOTAGES: NE NE SW

QUADRANGLE: MATTOON WEST

LONGITUDE: -88.407683

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.409576

DATE COLLECTED:

SURFACE ELEVATION (FT.): 721.0

LOGGED (FT.): 1182.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: E SH, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
65.0	BOND	CARTHAGE	LIMESTONE	9.0	656.0
-63.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	784.0
-189.0	CARBONDALE	DANVILLE	COAL	-	910.0
-276.0	CARBONDALE	HERRIN	COAL	4.0	997.0
-369.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1090.0
-461.0	CARBONDALE	COLCHESTER	COAL	-	1182.0

MAPID: 02900299000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES

TWP/RNG: 11N 7E

SECTION: 11

QUARTERS/FOOTAGES: 330' N line, 561' W line of NW SW

QUADRANGLE: MATTOON WEST

LONGITUDE: -88.395032

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.40954

DATE COLLECTED:

SURFACE ELEVATION (FT.): 718.0

LOGGED (FT.): 1196.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: E SH, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
66.0	BOND	CARTHAGE	LIMESTONE	8.0	652.0
-74.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	792.0
-184.0	CARBONDALE	DANVILLE	COAL	-	902.0
-358.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1076.0
-462.0	CARBONDALE	COLCHESTER	COAL	-	1180.0
-475.0	SPOON	SEELYVILLE	COAL	3.0	1193.0

MAPID: 0290088000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 11N 7E SECTION: 14 QUARTERS/FOOTAGES: NW NW NW
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.396081 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.402312 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 690.0 LOGGED (FT.): 1182.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: E SH, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
31.0	BOND	CARTHAGE	LIMESTONE	6.0	659.0	
-56.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	746.0	
-177.0	CARBONDALE	DANVILLE	COAL	-	867.0	
-266.0	CARBONDALE	HERRIN	COAL	4.0	956.0	
-350.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1040.0	
-460.0	CARBONDALE	COLCHESTER	COAL	-	1150.0	
-490.0	SPOON	SEELYVILLE	COAL	2.0	1180.0	

MAPID: 02900881000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 11N 7E SECTION: 15 QUARTERS/FOOTAGES: NE NE SE
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.398248 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.394793 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 666.0 LOGGED (FT.): 1010.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: E SH, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
71.0	BOND	CARTHAGE	LIMESTONE	7.0	595.0	
-59.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	725.0	
-175.0	CARBONDALE	DANVILLE	COAL	3.0	841.0	
-257.0	CARBONDALE	HERRIN	COAL	4.0	923.0	
-344.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1010.0	

MAPID: 02900006000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 11N 7E SECTION: 16 QUARTERS/FOOTAGES: SW NE NE
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.419441 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.40052 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 669.0 LOGGED (FT.): 1318.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: E SH, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-84.0	BOND	CARTHAGE	LIMESTONE	7.0	753.0	
-218.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	887.0	
-348.0	CARBONDALE	DANVILLE	COAL	-	1017.0	
-437.0	CARBONDALE	HERRIN	COAL	5.0	1106.0	
-456.0	CARBONDALE	SPRINGFIELD	COAL	-	1125.0	
-531.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1200.0	
-631.0	CARBONDALE	COLCHESTER	COAL	-	1300.0	
-646.0	SPOON	SEELYVILLE	COAL	3.0	1315.0	

MAPID: 02900303000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 11N 7E SECTION: 17 QUARTERS/FOOTAGES: SE SE SE
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.435235 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.389504 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 666.0 LOGGED (FT.): 1359.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: E SH, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-126.0	BOND	CARTHAGE	LIMESTONE	7.0	792.0	
-263.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	929.0	
-401.0	CARBONDALE	DANVILLE	COAL	3.0	1067.0	
-474.0	CARBONDALE	HERRIN	COAL	4.0	1140.0	
-570.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1236.0	
-670.0	CARBONDALE	COLCHESTER	COAL	-	1336.0	
-689.0	SPOON	SEELYVILLE	COAL	4.0	1355.0	

MAPID: 02900305000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 11N 7E **SECTION:** 22 **QUARTERS/FOOTAGES:** NE SE NW
QUADRANGLE: MATTOON WEST **LONGITUDE:** -88.407476 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.383876 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 676.0 **LOGGED (FT.):** 1034.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: E SH, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
45.0	BOND	CARTHAGE	LIMESTONE	5.0	631.0	
-82.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	758.0	
-199.0	CARBONDALE	DANVILLE	COAL	2.0	875.0	
-274.0	CARBONDALE	HERRIN	COAL	4.0	950.0	
-358.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1034.0	

MAPID: 02900307000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 11N 7E **SECTION:** 24 **QUARTERS/FOOTAGES:** NW SW SW
QUADRANGLE: MATTOON WEST **LONGITUDE:** -88.377745 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.376585 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 671.0 **LOGGED (FT.):** 1060.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: E SH, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
21.0	BOND	CARTHAGE	LIMESTONE	8.0	650.0	
-99.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	770.0	
-206.0	CARBONDALE	DANVILLE	COAL	2.0	877.0	
-295.0	CARBONDALE	HERRIN	COAL	4.5	966.0	
-389.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1060.0	

MAPID: 02900049000C **VERSION:** 1 **PROJECT:** CONTROL
COUNTY: COLES **TWP/RNG:** 11N 8E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW SE
QUADRANGLE: MATTOON EAST **LONGITUDE:** -88.272723 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 39.422957 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 2400.0 **LOG TYPE:** Survey Sample Study
SOURCE: CARTMILL WILLIAM **WELL TYPE:** Oil and Gas Test
COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 02900434000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 11N 8E SECTION: 6 QUARTERS/FOOTAGES: SE SE NW

QUADRANGLE: MATTOON EAST LONGITUDE: -88.352362 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.426044 DATE COLLECTED:

SURFACE ELEVATION (FT.): 769.0 LOGGED (FT.): 1256.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: E SH, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
31.0	BOND	CARTHAGE	LIMESTONE	9.0	738.0
-101.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	870.0
-317.0	CARBONDALE	HERRIN	COAL	4.0	1086.0
-329.0	CARBONDALE	SPRINGFIELD	COAL	-	1098.0
-423.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1192.0
-487.0	CARBONDALE	COLCHESTER	COAL	-	1256.0

MAPID: 02922468000C VERSION: 1

PROJECT: NCRDS87

COUNTY: COLES TWP/RNG: 11N 8E SECTION: 8 QUARTERS/FOOTAGES: SE SW NW

QUADRANGLE: MATTOON EAST LONGITUDE: -88.338481 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 39.411467 DATE COLLECTED: 11 / 26 / 1975

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 1742.0 LOG TYPE: Multiple log types

SOURCE: ENERGY RESOURCES OF INDIANA WELL TYPE: Dry Hole

COMMENT: 19, 22, 26 (LOG-TYPES)

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
583.0	MATTOON		BLACK SHALE	4.5	162.0	
578.5	MATTOON		UNCLASSIFIED	39.5	166.5	
539.0	MATTOON		BLACK SHALE	6.0	206.0	
533.0	MATTOON		UNCLASSIFIED	83.0	212.0	
450.0	MATTOON	SHUMWAY	LIMESTONE	2.5	295.0	
447.5	MATTOON		BLACK SHALE	5.5	297.5	
442.0	MATTOON		UNCLASSIFIED	176.0	303.0	
266.0	MATTOON		BLACK SHALE	4.5	479.0	
261.5	MATTOON		UNCLASSIFIED	43.5	483.5	
218.0	MATTOON		COAL	1.0	527.0	QUESTIONABLE COAL
217.0	BOND	MILLERSVILLE	LIMESTONE	29.0	528.0	
188.0	BOND		DARK SHALE	4.0	557.0	
184.0	BOND		UNCLASSIFIED	109.0	561.0	
75.0	BOND		BLACK SHALE	5.0	670.0	
70.0	BOND		UNCLASSIFIED	32.5	675.0	
37.5	BOND		COAL	2.0	707.5	
35.5	BOND		UNCLASSIFIED	31.5	709.5	
4.0	BOND	CARTHAGE	LIMESTONE	9.0	741.0	
-5.0	MODESTO		BLACK SHALE	8.0	750.0	
-13.0	MODESTO		UNCLASSIFIED	25.0	758.0	
-38.0	MODESTO		BLACK SHALE	5.0	783.0	
-43.0	MODESTO		UNCLASSIFIED	66.0	788.0	
-109.0	MODESTO	WEST FRANKLIN	LIMESTONE	26.0	854.0	
-135.0	MODESTO		UNCLASSIFIED	114.0	880.0	
-249.0	CARBONDALE	DANVILLE	COAL	3.0	994.0	
-252.0	CARBONDALE		UNCLASSIFIED	90.0	997.0	
-342.0	CARBONDALE	HERRIN	COAL	3.5	1087.0	
-345.5	CARBONDALE		UNCLASSIFIED	8.5	1090.5	
-354.0	CARBONDALE	TURNER MINE	BLACK SHALE	4.5	1099.0	
-358.5	CARBONDALE	SPRINGFIELD	COAL	2.5	1103.5	
-361.0	CARBONDALE		UNCLASSIFIED	98.0	1106.0	
-459.0	CARBONDALE	EXCELLO	BLACK SHALE	8.0	1204.0	
-467.0	CARBONDALE	HOUCHIN CREEK	COAL	0.0	1212.0	
-467.0	CARBONDALE		UNCLASSIFIED	87.0	1212.0	
-554.0	CARBONDALE		COAL	1.0	1299.0	
-555.0	CARBONDALE		UNCLASSIFIED	21.0	1300.0	
-576.0	CARBONDALE	OAK GROVE	LIMESTONE	3.0	1321.0	
-579.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	4.0	1324.0	
-583.0	CARBONDALE	COLCHESTER	COAL	2.0	1328.0	

-585.0		UNCLASSIFIED	8.0	1330.0	
-593.0		BLACK SHALE	8.0	1338.0	
-601.0		UNCLASSIFIED	2.0	1346.0	
-603.0		BLACK SHALE	9.0	1348.0	
-612.0		COAL	3.0	1357.0	
-615.0		UNCLASSIFIED	25.0	1360.0	
-640.0		BLACK SHALE	7.0	1385.0	
-647.0		COAL	5.0	1392.0	
-652.0		UNCLASSIFIED	345.0	1397.0	
-997.0	MISSISSIPPIAN	UNCLASSIFIED	0.0	1742.0	APPROXIMATE

MAPID: 02922468000C **VERSION:** 2 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 11N 8E **SECTION:** 8 **QUARTERS/FOOTAGES:** SE SW NW
QUADRANGLE: MATTOON EAST **LONGITUDE:** -88.338481 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.411467 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 745.0 **LOGGED (FT.):** 1397.0 **LOG TYPE:** Nuclear Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: E SH, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
4.0	BOND	CARTHAGE	LIMESTONE	11.0	741.0	
-126.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	871.0	
-250.0	CARBONDALE	DANVILLE	COAL	2.0	995.0	
-342.0	CARBONDALE	HERRIN	COAL	3.0	1087.0	
-358.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1103.0	
-471.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1216.0	
-583.0	CARBONDALE	COLCHESTER	COAL	2.0	1328.0	
-647.0	SPOON	SEELYVILLE	COAL	5.0	1392.0	

MAPID: 02900637000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES

TWP/RNG: 11N 8E

SECTION: 12

QUARTERS/FOOTAGES: NW NW NW

QUADRANGLE: MATTOON EAST

LONGITUDE: -88.265807

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.417468

DATE COLLECTED:

SURFACE ELEVATION (FT.): 738.0

LOGGED (FT.): 1433.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: E SH, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-74.0	BOND	CARTHAGE	LIMESTONE	4.0	812.0
-212.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	950.0
-304.0	CARBONDALE	DANVILLE	COAL	-	1042.0
-439.0	CARBONDALE	HERRIN	COAL	4.0	1177.0
-459.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1197.0
-561.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1299.0
-691.0	SPOON	SEELYVILLE	COAL	4.0	1429.0

MAPID: 02923586000C VERSION: 1

PROJECT: AVAIL

COUNTY: COLES TWP/RNG: 11N 8E SECTION: 12 QUARTERS/FOOTAGES: 160' S line, 410' W line of SW SW SW

QUADRANGLE: MATTOON EAST LONGITUDE: -88.265611 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.404248 DATE COLLECTED: 5 / 25 / 1976

SURFACE ELEVATION (FT.): 730.0 LOGGED (FT.): 1177.0 LOG TYPE: Drillers Log

SOURCE: ATLANTIC RICHFIELD GU-18 WELL TYPE: Coal Test

COMMENT: LOGS:GAM-RAY,DNSTY,RSSTVTY,CALIPER BROKE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.0			UNCONSOLIDATED	9.0	0.0	SOIL
721.0			UNCONSOLIDATED	140.0	9.0	ALLUVIUM & GLACIAL GRAVELS
581.0	MATTOON		SANDSTONE	21.0	149.0	UNDIFF
560.0	MATTOON		LIMESTONE	6.0	170.0	UNDIFF
554.0	MATTOON		SHALE	60.0	176.0	UNDIFF
494.0	MATTOON		CARBONACEOUS SHALE	2.0	236.0	HARD
492.0	MATTOON		SHALE	7.0	238.0	UNDIFF
485.0	MATTOON		SANDSTONE	16.0	245.0	W/SHALE
469.0	MATTOON		SHALE	23.0	261.0	UNDIFF
446.0	MATTOON		CARBONACEOUS SHALE	3.0	284.0	HARD
443.0	MATTOON		SHALE	7.0	287.0	UNDIFF
436.0	MATTOON		SHALE	47.0	294.0	W/SS UNDIFF
389.0	MATTOON		SANDSTONE	12.0	341.0	UNDIFF
377.0	MATTOON		SHALE	17.0	353.0	UNDIFF
360.0	MATTOON		SANDSTONE	6.0	370.0	W/SHALE
354.0	MATTOON		SHALE	3.0	376.0	UNDIFF
351.0	MATTOON		LIMESTONE	2.0	379.0	UNDIFF
349.0	MATTOON		CARBONACEOUS SHALE	4.0	381.0	HARD
345.0	MATTOON		SHALE	32.0	385.0	UNDIFF
313.0	MATTOON		SANDSTONE	6.0	417.0	UNDIFF
307.0	MATTOON		SHALE	26.0	423.0	UNDIFF
281.0	MATTOON		SANDSTONE	5.0	449.0	W/SHALE
276.0	MATTOON		SHALE	13.0	454.0	UNDIFF
263.0	MATTOON		SANDSTONE	2.0	467.0	W/SHALE
261.0	MATTOON		SHALE	111.0	469.0	UNDIFF
150.0	BOND	MILLERSVILLE	LIMESTONE	7.0	580.0	UNDIFF
143.0	BOND	MILLERSVILLE	SHALE	9.0	587.0	UNDIFF
134.0	BOND	MILLERSVILLE	LIMESTONE	13.0	596.0	UNDIFF
121.0	BOND		SHALE	104.0	609.0	UNDIFF, APPRT CONTAMINATION OF
17.0	BOND		CARBONACEOUS SHALE	2.0	713.0	HARD
15.0	BOND		SHALE	36.0	715.0	UNDIFF
-21.0	BOND		LIMESTONE	2.0	751.0	UNDIFF
-23.0	BOND		SHALE	36.0	753.0	UNDIFF
-59.0	BOND	CARTHAGE	LIMESTONE	8.0	789.0	UNDIFF
-67.0	MODESTO		CARBONACEOUS SHALE	5.0	797.0	HARD
-72.0	MODESTO		SHALE	22.0	802.0	UNDIFF
-94.0	MODESTO		CARBONACEOUS SHALE	2.0	824.0	HARD
-96.0	MODESTO		SHALE	6.0	826.0	UNDIFF
-102.0	MODESTO		SANDSTONE	2.0	832.0	UNDIFF

-104.0	MODESTO		SHALE	7.0	834.0	UNDIFF
-111.0	MODESTO		SANDSTONE	6.0	841.0	UNDIFF
-117.0	MODESTO		SHALE	70.0	847.0	UNDIFF
-187.0	MODESTO	WEST FRANKLIN	LIMESTONE	1.0	917.0	UNDIFF
-188.0	MODESTO	WEST FRANKLIN	SHALE	2.0	918.0	UNDIFF
-190.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	920.0	UNDIFF
-199.0	MODESTO		SHALE	44.0	929.0	W/SS, UNDIFF
-243.0	MODESTO		SANDSTONE	16.0	973.0	UNDIFF
-259.0	MODESTO		SHALE	23.0	989.0	UNDIFF
-282.0	CARBONDALE	DANVILLE	COAL	2.0	1012.0	UNDIFF, #7 COAL
-284.0	CARBONDALE	ENERGY	CLAYSTONE & SILTSTONE	5.0	1014.0	UNDIFF
-289.0	CARBONDALE	ENERGY	SANDSTONE	25.0	1019.0	W/SHALE,
-314.0	CARBONDALE	ENERGY	SHALE	71.0	1044.0	UNDIFF
-385.0	CARBONDALE	ENERGY	SHALE	1.8	1115.0	W/FEW THIN SS INTERBEDS(<25%SS); M-D GRAY
-386.8	CARBONDALE	ENERGY	SHALE	2.4	1116.8	HARD, PLATY, ABTD SILT, TR SS LAM; LIGHT
-389.2	CARBONDALE	ENERGY	SHALE	1.8	1119.2	HARD; LIGHT
-391.0	CARBONDALE	ENERGY	SIDERITE	0.2	1121.0	
-391.2	CARBONDALE	ENERGY	SHALE	1.9	1121.2	HARD, PLATY, MOD SID; LIGHT
-393.1	CARBONDALE	ENERGY	DARK SHALE	0.7	1123.1	HARD, PLATY, MOD SID
-393.8	CARBONDALE	ENERGY	SHALE	2.5	1123.8	HARD, PLATY, ABT DK SH VARVES, TR SID; LI
-396.3	CARBONDALE	ENERGY	SHALE	2.2	1126.3	HARD, MOD SID; LIGHT
-398.5	CARBONDALE	ENERGY	DARK SHALE	3.2	1128.5	HARD, ABT SID AND ABT LT SH INTERBEDS
-401.7	CARBONDALE	ENERGY	DARK SHALE	1.2	1131.7	HARD
-402.9	CARBONDALE	HERRIN	COAL	1.1	1132.9	BLOCKY, W/CAL CLT FIL; BRIGHT
-404.0	CARBONDALE	HERRIN	CORE LOSS	2.0	1134.0	PROBABLY #11 COAL
-406.0	CARBONDALE		CLAYSTONE & SILTSTONE	2.0	1136.0	SOFT, ABTD SLACKENSIDES, BROKEN; LIGHT
-408.0	CARBONDALE		CLAYSTONE & SILTSTONE	0.5	1138.0	SOFT, ABTD SLICKENSIDES, BROKEN; DARK
-408.5	CARBONDALE		SANDY SHALE	0.9	1138.5	HARD, DIST
-409.4	CARBONDALE		SHALE	7.0	1139.4	PLATY, SOFT, MOD LS NODS; LIGHT
-416.4	CARBONDALE		SHALE	1.6	1146.4	HARD, MOD LS NODS; LIGHT
-418.0	CARBONDALE		SHALE	0.2	1148.0	HARD, LIMY; LIGHT
-418.2	CARBONDALE		CLAYSTONE	1.5	1148.2	VERY SOFT
-419.7	CARBONDALE		CARBONACEOUS SHALE	2.0	1149.7	HARD, PLATY
-421.7	CARBONDALE		FOSSILIFEROUS SHALE	0.1	1151.7	LIMY, HARD, ABT PYR
-421.8	CARBONDALE	SPRINGFIELD	COAL	0.2	1151.8	SHALY OR BONY
-422.0	CARBONDALE	SPRINGFIELD	COAL	0.9	1152.0	BLOCKY, W/CAL CLEAT FILL; BRIGHT
-422.9	CARBONDALE	SPRINGFIELD	COAL	3.3	1152.9	BLOCKY, W/CAL CLEAT FILL; BRIGHT
-426.2	CARBONDALE		CLAYSTONE & SILTSTONE	0.2	1156.2	MED HARD, FEW SLICKENSIDES; LIGHT
-426.4	CARBONDALE		CORE LOSS	2.6	1156.4	PROBABLY #25 CLYST
-429.0	CARBONDALE		SHALE	18.0	1159.0	UNDIFF; T.D.

MAPID: 02900417000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES

TWP/RNG: 11N 8E

SECTION: 13

QUARTERS/FOOTAGES: SE NE SW

QUADRANGLE: MATTOON EAST

LONGITUDE: -88.258983

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.39387

DATE COLLECTED:

SURFACE ELEVATION (FT.): 720.0

LOGGED (FT.): 1252.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: E SH, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-69.0	BOND	CARTHAGE	LIMESTONE	5.0	789.0
-210.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	930.0
-303.0	CARBONDALE	DANVILLE	COAL	-	1023.0
-419.0	CARBONDALE	HERRIN	COAL	3.5	1139.0
-441.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1161.0
-532.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1252.0

MAPID: 02900368000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES

TWP/RNG: 11N 8E

SECTION: 14

QUARTERS/FOOTAGES: NE SW NW

QUADRANGLE: MATTOON EAST

LONGITUDE: -88.282227

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.39903

DATE COLLECTED:

SURFACE ELEVATION (FT.): 722.0

LOGGED (FT.): 1226.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: E SH, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-65.0	BOND	CARTHAGE	LIMESTONE	8.0	787.0
-188.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	910.0
-273.0	CARBONDALE	DANVILLE	COAL	-	995.0
-400.0	CARBONDALE	HERRIN	COAL	4.0	1122.0
-417.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1139.0
-504.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1226.0

MAPID: 02900308000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES

TWP/RNG: 11N 8E

SECTION: 18

QUARTERS/FOOTAGES: NW NW NW

QUADRANGLE: MATTOON EAST

LONGITUDE: -88.359389

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.402634

DATE COLLECTED:

SURFACE ELEVATION (FT.): 690.0

LOGGED (FT.): 1118.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: E SH, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
13.0	BOND	CARTHAGE	LIMESTONE	7.0	677.0
-120.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	810.0
-246.0	CARBONDALE	DANVILLE	COAL	2.0	936.0
-329.0	CARBONDALE	HERRIN	COAL	3.5	1019.0
-339.0	CARBONDALE	SPRINGFIELD	COAL	-	1029.0
-428.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1118.0

MAPID: 02923587000C VERSION: 1

PROJECT: AVAIL

COUNTY: COLES TWP/RNG: 11N 8E SECTION: 19 QUARTERS/FOOTAGES: 70' N line, 60' E line of NE NE NE

QUADRANGLE: MATTOON EAST LONGITUDE: -88.342269 GEOLOGIST: C TREWOROY

CONFIDENTIAL: N LATITUDE: 39.388384 DATE COLLECTED: 5 / 23 / 1976

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 1014.0 LOG TYPE: Drillers Log

SOURCE: ATLANTIC RICHFIELD GU-19 WELL TYPE: Coal Test

COMMENT: LOGS:GAMMA-RAY,DENSITY,CALIPER,RESISTIVY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0			UNCONSOLIDATED	36.0	0.0	SOIL
626.0	MATTOON		SANDSTONE	19.0	36.0	MED-GRAINED, MASSIVE; LT GRY
607.0	MATTOON		SILTY SHALE	42.0	55.0	SOFT
565.0	MATTOON		CARBONACEOUS SHALE	3.0	97.0	HARD
562.0	MATTOON		LIMESTONE	17.0	100.0	UNDIFF, ARG
545.0	MATTOON		SHALE	21.0	117.0	HARD; LIGHT
524.0	MATTOON		CARBONACEOUS SHALE	5.0	138.0	HARD
519.0	MATTOON		SILTY SHALE	38.0	143.0	HARD
481.0	MATTOON		SHALE	15.0	181.0	W/ABT THIN SS INTRBDS(25-50%SS); M-D GRY
466.0	MATTOON		SANDSTONE	11.0	196.0	W/ABT DARK INTRBDS(25-50% SH); LT GRY
455.0	MATTOON		DARK SHALE	19.0	207.0	SOFT
436.0	MATTOON		SHALE	11.0	226.0	W/SS, UNDIFF
425.0	MATTOON		FOSSILIFEROUS SHALE	4.0	237.0	LIMY, HARD
421.0	MATTOON		SILTY SHALE	24.0	241.0	HARD
397.0	MATTOON		SHALE	26.0	265.0	W/FEW THIN SS INTRBDS(<25% SS); M-D GRY
371.0	MATTOON		DARK SHALE	22.0	291.0	SOFT
349.0	MATTOON		SHALE	14.0	313.0	HARD; LIGHT
335.0	MATTOON		SANDSTONE	71.0	327.0	MED-GRAINED, MASSIVE; LT GRY
264.0	MATTOON		DARK SHALE	9.0	398.0	SOFT
255.0	MATTOON		CARBONACEOUS SHALE	3.0	407.0	HARD
252.0	MATTOON		SHALE	7.0	410.0	W/SS, UNDIFF
245.0	MATTOON		SILTY SHALE	34.0	417.0	UNDIFF
211.0	BOND	MILLERSVILLE	LIMESTONE	24.0	451.0	UNDIFF, ARG
187.0	BOND		CLAYSTONE & SILTSTONE	137.0	475.0	UNDIFF
50.0	BOND		CLAYSTONE	21.0	612.0	VERY SOFT
29.0	BOND		CLAYSTONE & SILTSTONE	28.0	633.0	UNDIFF
1.0	BOND		CLAYSTONE & SILTSTONE	4.0	661.0	SOFT, ABT SLICKENSIDES, BROKEN; DARK
-3.0	BOND		CLAYSTONE & SILTSTONE	23.0	665.0	UNDIFF
-26.0	BOND	CARTHAGE	LIMESTONE	5.0	688.0	UNDIFF
-31.0	MODESTO		CARBONACEOUS SHALE	5.0	693.0	HARD
-36.0	MODESTO		CLAYSTONE & SILTSTONE	78.0	698.0	UNDIFF
-114.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	776.0	UNDIFF
-129.0	MODESTO		SILTY SHALE	104.5	791.0	HARD
-233.5	CARBONDALE	DANVILLE	COAL	2.5	895.5	UNDIFF
-236.0	CARBONDALE		DARK SHALE	6.0	898.0	SOFT
-242.0	CARBONDALE		LIMESTONE	5.0	904.0	UNDIFF,ARG
-247.0	CARBONDALE		SHALE	20.0	909.0	UNDIFF
-267.0	CARBONDALE	JAMESTOWN	COAL	2.0	929.0	UNDIFF
-269.0	CARBONDALE	ENERGY	SHALE	39.0	931.0	UNDIFF

-308.0	CARBONDALE	ENERGY	SHALE	10.0	970.0	HARD,W/40% #32 INTRBDS,SLI DIST, PLATY; L
-318.0	CARBONDALE	ENERGY	DARK SHALE	0.8	980.0	HARD,ABT SLKN
-318.8	CARBONDALE	HERRIN	COAL	2.1	980.8	BLOCKY, W/CAL CLT FILL; BRIGHT
-320.9	CARBONDALE	HERRIN	SHALE	0.1	982.9	W/COAL, MED HARD; DK TO BK
-321.0	CARBONDALE	HERRIN	COAL	1.5	983.0	BLOCKY, W/CAL CLT FILL; BRIGHT
-322.5	CARBONDALE		CLAYSTONE & SILTSTONE	2.7	984.5	SOFT, ABT SLICKENSIDES, BROKEN; DARK
-325.2	CARBONDALE		CLAYSTONE & SILTSTONE	0.8	987.2	W/LS INCLUSIONS
-326.0	CARBONDALE		CORE LOSS	1.0	988.0	PROBABLY #27
-327.0	CARBONDALE		CLAYSTONE & SILTSTONE	0.7	989.0	MED HARD, FEW SLICKENSIDES; LIGHT
-327.7	CARBONDALE		CLAYSTONE & SILTSTONE	2.2	989.7	W/LS INCLUSIONS
-329.9	CARBONDALE		SILTY SHALE	1.9	991.9	HARD, MOD SLKN
-331.8	CARBONDALE		CLAYSTONE & SILTSTONE	0.7	993.8	SOFT, FEW SLICKENSIDES; DARK
-332.5	CARBONDALE		DARK SHALE	0.2	994.5	HARD, TR SLKN
-332.7	CARBONDALE		CARBONACEOUS SHALE	0.2	994.7	HARD
-332.9	CARBONDALE		SHALE	0.1	994.9	W/COAL, MED HARD; DK TO BK
-333.0	CARBONDALE	SPRINGFIELD	COAL	2.3	995.0	BLOCKY, W/CAL CLT FILL; BRIGHT
-335.3	CARBONDALE		CLAYSTONE & SILTSTONE	0.6	997.3	SOFT, ABT SLICKENSIDES, BROKEN; DARK
-335.9	CARBONDALE		CLAYSTONE & SILTSTONE	1.1	997.9	SOFT, ABT SLICKENSIDES, BROKEN; LIGHT
-337.0	CARBONDALE		CLAYSTONE & SILTSTONE	1.0	999.0	MED HARD, FEW SLICKENSIDES; LIGHT
-338.0	CARBONDALE		LIMESTONE	1.0	1000.0	DENSE, VERY HARD; LIGHT
-339.0	CARBONDALE		CORE LOSS	1.0	1001.0	
-340.0	CARBONDALE		SILTY CLAYSTONE	1.2	1002.0	MED HARD, FEW SLICKENSIDES,FRACT,W/SS; L
-341.2	CARBONDALE		SILTY SHALE	0.7	1003.2	W/FEW THIN SS INTRBDS(<25%SS), DIST
-341.9	CARBONDALE		SANDSTONE	1.2	1003.9	W/FEW THIN DK SH INTRBDS(<25% SH), DIST;
-343.1	CARBONDALE		SILTY SHALE	0.4	1005.1	W/ FEW THIN SS INTRBDS(<25% SS),DIST,SKN
-343.5	CARBONDALE		SILTSTONE	0.3	1005.5	MASSIVE, HARD; MED GRY
-343.8	CARBONDALE		SILTY SHALE	0.7	1005.8	W/ FEW THIN SS ITRBDS(<25% SS),DIST
-344.5	CARBONDALE		SHALE	2.8	1006.5	W/ FEW THIN SS ITRBDS(<25% SS),DIST; M-D
-347.3	CARBONDALE		SHALE	2.5	1009.3	W/ ABT THIN SS INTRBDS(25- 50%SS),FAULTED
-349.8	CARBONDALE		SILTSTONE	0.4	1011.8	MASSIVE, HARD; MED GRY
-350.2	CARBONDALE		SHALE	0.4	1012.2	W/ FEW THIN SS INTRBDS(<25%SS); M-D GRY
-350.6	CARBONDALE		CORE LOSS	1.4	1012.6	T.D.

MAPID: 02923588000C VERSION: 1

PROJECT: AVAIL

COUNTY: COLES TWP/RNG: 11N 8E SECTION: 19 QUARTERS/FOOTAGES: 132' S line, 36' E line of SE SE SE

QUADRANGLE: JOHNSTOWN LONGITUDE: -88.342591 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.374181 DATE COLLECTED: 7 / 14 / 1976

SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 1026.0 LOG TYPE: Drillers Log

SOURCE: ATLANTIC RICHFIELD GU-27 WELL TYPE: Coal Test

COMMENT: LOGS:GAMMA-RAY,DENSITY,RESISTIVITY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0			UNCONSOLIDATED	7.0	0.0	SOIL
643.0			UNCONSOLIDATED	17.0	7.0	MOSTLY WTHD SS
626.0	MATTOON		SANDY SHALE	20.0	24.0	UNDIFF
606.0	MATTOON		SHALE	39.0	44.0	HARD; LIGHT
567.0	MATTOON		DARK SHALE	4.0	83.0	HARD
563.0	MATTOON		LIMESTONE	13.0	87.0	UNDIFF, W/OCC SH PTGS
550.0	MATTOON		SANDY SHALE	14.0	100.0	UNDIFF
536.0	MATTOON		SANDSTONE	3.0	114.0	UNDIFF
533.0	MATTOON		SHALE	18.0	117.0	UNDIFF
515.0	MATTOON		CARBONACEOUS SHALE	5.0	135.0	HARD
510.0	MATTOON		SHALE	12.0	140.0	UNDIFF
498.0	MATTOON		SANDSTONE	24.0	152.0	FINE- GRAINED, MASSIVE, FINING
474.0	MATTOON		SILTY SHALE	32.0	176.0	HARD
442.0	MATTOON		SANDSTONE	11.0	208.0	FINE-GRAINED, MASSIVE, LIMY; LT GRY
431.0	MATTOON		SHALE	5.0	219.0	SOFT; LIGHT
426.0	MATTOON		CARBONACEOUS SHALE	4.0	224.0	HARD
422.0	MATTOON		SILTY LIMESTONE	17.0	228.0	UNDIFF, ARG
405.0	MATTOON		SILTY SHALE	89.0	245.0	UNDIFF, LIMY
316.0	MATTOON		SHALE	19.0	334.0	W/SS, UNDIFF, LIMY
297.0	MATTOON		SANDSTONE	44.0	353.0	UNDIFF, LIMY, ARG
253.0	MATTOON		SHALE	49.0	397.0	UNDIFF, LIMY
204.0	MATTOON		CLAYSTONE & SILTSTONE	4.0	446.0	UNDIFF, LIMY
200.0	BOND	MILLERSVILLE	LIMESTONE	13.0	450.0	UNDIFF, ARG
187.0	BOND	MILLERSVILLE	LIMESTONE	17.0	463.0	UNDIFF
170.0	BOND		SHALE	6.0	480.0	SOFT, LIMY; LIGHT
164.0	BOND		SHALE	85.0	486.0	UNDIFF, FINING DOWNWARDS
79.0	BOND		LIMESTONE	11.0	571.0	UNDIFF, ARG
68.0	BOND		CARBONACEOUS SHALE	4.0	582.0	HARD
64.0	BOND		CLAYSTONE & SILTSTONE	9.0	586.0	UNDIFF, LIMY
55.0	BOND		SHALE	25.0	595.0	UNDIFF
30.0	BOND		COAL	2.0	620.0	UNDIFF & ON GEOLOGRAPH
28.0	BOND		SHALE	39.0	622.0	W/SS, UNDIFF
-11.0	BOND	CARTHAGE	LIMESTONE	5.0	661.0	UNDIFF
-16.0	MODESTO		CARBONACEOUS SHALE	4.0	666.0	HARD
-20.0	MODESTO		SHALE	25.0	670.0	HARD; LIGHT
-45.0	MODESTO		LIMESTONE	3.0	695.0	UNDIFF
-48.0	MODESTO		CARBONACEOUS SHALE	4.0	698.0	HARD
-52.0	MODESTO		SHALE	69.0	702.0	W/FEW THIN SS INTBDS(<25%SS); M-D GRY

-121.0	MODESTO		SHALE	5.0	771.0	SOFT; LIGHT
-126.0	MODESTO		SHALE	7.0	776.0	UNDIFF
-133.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	783.0	UNDIFF, ARG
-142.0	MODESTO		CLAYSTONE & SILTSTONE	7.0	792.0	UNDIFF, ARG
-149.0	MODESTO		SHALE	15.0	799.0	W/ FEW THIN SS INTBDS(<25%SS), LIMY; M-D
-164.0	MODESTO		SHALE	69.0	814.0	HARD; LIGHT
-233.0	CARBONDALE	DANVILLE	COAL	2.5	883.0	UNDIFF
-235.5	CARBONDALE		CLAYSTONE & SILTSTONE	5.5	885.5	UNDIFF
-241.0	CARBONDALE		LIMESTONE	8.0	891.0	UNDIFF, POSS BANKSTON FORK LS
-249.0	CARBONDALE		SILTY SHALE	39.0	899.0	UNDIFF, LIMY
-288.0	CARBONDALE	JAMESTOWN	COAL	2.0	938.0	UNDIFF
-290.0	CARBONDALE	ENERGY	SILTY SHALE	29.0	940.0	HARD, LIMY
-319.0	CARBONDALE	ENERGY	SILTY SHALE	0.6	969.0	HARD, PLATY, MOD SID NODS
-319.6	CARBONDALE	ENERGY	CARBONACEOUS SHALE	0.3	969.6	HARD, PLATY, "CONCH" FOS W/ PYR
-319.9	CARBONDALE	ENERGY	DARK SHALE	0.2	969.9	HARD, PLATY, "CONCH" FOS
-320.1	CARBONDALE	ENERGY	SIDERITE	0.2	970.1	
-320.3	CARBONDALE	ENERGY	DARK SHALE	7.6	970.3	HARD, PLATY, MOD SID BANDS, "CONCH" FOS
-327.9	CARBONDALE	ENERGY	SILTY SHALE	8.5	977.9	W/FEW THIN SS INTBDS(<25%SS), MOD SID NOD
-336.4	CARBONDALE	ENERGY	SILTY SHALE	1.8	986.4	W/SIDRTE & FEW THIN SS INTBDS, MOD SID NO
-338.2	CARBONDALE	ENERGY	SILTY SHALE	0.8	988.2	HARD, MOD SID BANDS
-339.0	CARBONDALE	ENERGY	SILTY SHALE	1.6	989.0	HARD, MOD SID BANDS
-340.6	CARBONDALE	ENERGY	SILTY SHALE	3.7	990.6	HARD, W/50% STE INTBDS, PLATY, ABT SID NODS
-344.3	CARBONDALE	ENERGY	SILTY SHALE	1.7	994.3	HARD, PLATY, MOD SID NODS, TR PYR
-346.0	CARBONDALE	ENERGY	CLAYSTONE & SILTSTONE	0.7	996.0	MED HARD, FEW SLICKENSIDES, BLK, MOD SID
-346.7	CARBONDALE	ENERGY	SILTY SHALE	0.2	996.7	HARD, TR PYR, BLK
-346.9	CARBONDALE	HERRIN	COAL	0.1	996.9	SHALY OR BONY
-347.0	CARBONDALE	HERRIN	COAL	2.5	997.0	BLOCKY, W/CAL CLT FILL; BRIGHT
-349.5	CARBONDALE	HERRIN	COAL	1.0	999.5	BLOCKY, W/CAL CLT FILL; BRIGHT
-350.5	CARBONDALE	HERRIN	COAL	1.7	1000.5	BLOCKY, W/CAL CLT FILL; BRIGHT
-352.2	CARBONDALE		CLAYSTONE & SILTSTONE	0.1	1002.2	MED HARD, FEW SLICKENSIDES, COALY; DARK
-352.3	CARBONDALE		CLAYSTONE & SILTSTONE	1.1	1002.3	SOFT, FEW SLICKENSIDES, TR PYR; DARK
-353.4	CARBONDALE		CLAYSTONE & SILTSTONE	3.1	1003.4	SOFT, ABDT SLICKENSIDES, BROKEN, MOD
-356.5	CARBONDALE		CLAYSTONE & SILTSTONE	0.5	1006.5	MED HARD, FEW SLKNS, GRADES TO COALY
-357.0	CARBONDALE	SPRINGFIELD	BONE COAL	0.2	1007.0	COALY
-357.2	CARBONDALE	SPRINGFIELD	COAL	0.8	1007.2	BLOCKY, W/CAL CLT FILL, HEAVY, MOD PYR; B
-358.0	CARBONDALE		CLAYSTONE & SILTSTONE	2.1	1008.0	SOFT, ABDT SLICKENSIDES, BROKEN,
-360.1	CARBONDALE		CLAYSTONE & SILTSTONE	2.2	1010.1	SOFT, FEW SLICKENSIDES, LIMY; LIGHT
-362.3	CARBONDALE		SANDY CLAYSTONE	2.0	1012.3	MED HARD, FEW SLICKENSIDES; LIGHT
-364.3	CARBONDALE		SANDSTONE	4.7	1014.3	W/ FEW THIN DK SH INTBDS(<25%SH), LIMY; L
-369.0	CARBONDALE		SANDY SILTSTONE	1.5	1019.0	UNDIFF, ABDT DIS PYR
-370.5	CARBONDALE		SILTY SANDSTONE	4.5	1020.5	W/ ABDT DK INTRBDS(25- 50%SH), TR PYR; LT
-375.0	CARBONDALE		CORE LOSS	1.0	1025.0	T.D.

MAPID: 02923589000C VERSION: 1

PROJECT: AVAIL

COUNTY: COLES TWP/RNG: 11N 8E SECTION: 22 QUARTERS/FOOTAGES: 154' N line, 690' E line
 QUADRANGLE: MATTOON EAST LONGITUDE: -88.288169 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.388432 DATE COLLECTED: 6 / 6 / 1976
 SURFACE ELEVATION (FT.): 700.0 LOGGED (FT.): 1170.0 LOG TYPE: Drillers Log
 SOURCE: ATLANTIC RICHFIELD GU-20 WELL TYPE: Coal Test
 COMMENT: LOGS:GAMMA, NEUTRON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.0			UNCONSOLIDATED	15.0	0.0	SOIL
685.0			UNCONSOLIDATED	63.0	15.0	ALLUVIUM & GRAVELS
622.0	MATTOON		SHALE	31.0	78.0	UNDIFF
591.0	MATTOON		SANDSTONE	8.0	109.0	UNDIFF, SLI CALCAREOUS
583.0	MATTOON		SHALE	12.0	117.0	UNDIFF
571.0	MATTOON		LIMESTONE	9.0	129.0	UNDIFF
562.0	MATTOON		SHALE	69.0	138.0	UNDIFF
493.0	MATTOON		CARBONACEOUS SHALE	3.0	207.0	HARD
490.0	MATTOON		SANDSTONE	41.0	210.0	W/SH UNDIFF
449.0	MATTOON		CARBONACEOUS SHALE	4.0	251.0	HARD
445.0	MATTOON		SHALE	6.0	255.0	UNDIFF
439.0	MATTOON		SHALE	18.0	261.0	W/SS, UNDIFF
421.0	MATTOON		SANDSTONE	18.0	279.0	UNDIFF
403.0	MATTOON		COAL	2.0	297.0	UNDIFF, POSSIBLE COAL ON NEUTRON
401.0	MATTOON		SANDSTONE	24.0	299.0	UNDIFF, SLI CALCAREOUS
377.0	MATTOON		SANDSTONE	20.0	323.0	W/SH UNDIFF
357.0	MATTOON		LIMESTONE	1.0	343.0	UNDIFF
356.0	MATTOON		CARBONACEOUS SHALE	3.0	344.0	HARD
353.0	MATTOON		LIMESTONE	6.0	347.0	UNDIFF
347.0	MATTOON		SHALE	21.0	353.0	W/SS, UNDIFF
326.0	MATTOON		LIMESTONE	2.0	374.0	UNDIFF
324.0	MATTOON		SANDSTONE	101.0	376.0	W/SH UNDIFF, ABT WTHD- LOOKING PIECES
223.0	MATTOON		COAL	1.0	477.0	UNDIFF, BY GAMMA- NEUTRON & GEOLOGRAPH
222.0	MATTOON		SHALE	54.0	478.0	UNDIFF
168.0	MATTOON		CARBONACEOUS SHALE	2.0	532.0	HARD
166.0	MATTOON		SANDSTONE	9.0	534.0	UNDIFF
157.0	MATTOON		SHALE	7.0	543.0	UNDIFF
150.0	MATTOON		COAL	2.0	550.0	UNDIFF, BY GAMMA- NEUTRON & GEOLOGRAPH
148.0	MATTOON		SHALE	16.0	552.0	UNDIFF
132.0	MATTOON		COAL	2.0	568.0	UNDIFF, BY GAMMA- NEUTRON & GEOLOGRAPH
130.0	MATTOON		SHALE	7.0	570.0	UNDIFF
123.0	BOND	MILLERSVILLE	LIMESTONE	28.0	577.0	UNDIFF
95.0	BOND		SILTY SHALE	98.0	605.0	UNDIFF
-3.0	BOND		CARBONACEOUS SHALE	2.0	703.0	HARD
-5.0	BOND		SHALE	38.0	705.0	UNDIFF, W/SS
-43.0	BOND		COAL	2.5	743.0	UNDIFF, BY GAMMA- NEUTRON & GEOLOGRAPH
-45.5	BOND		SHALE	36.5	745.5	UNDIFF
-82.0	BOND	CARTHAGE	LIMESTONE	4.0	782.0	UNDIFF

-86.0	MODESTO		CARBONACEOUS SHALE	4.0	786.0	HARD
-90.0	MODESTO		SHALE	36.0	790.0	UNDIFF
-126.0	MODESTO		SILTY SHALE	80.0	826.0	UNDIFF
-206.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	906.0	UNDIFF
-209.0	MODESTO	WEST FRANKLIN	SHALE	3.0	909.0	UNDIFF
-212.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	912.0	UNDIFF
-215.0	MODESTO	WEST FRANKLIN	CARBONACEOUS SHALE	1.5	915.0	HARD
-216.5	MODESTO	WEST FRANKLIN	LIMESTONE	2.5	916.5	UNDIFF
-219.0	MODESTO		SHALE	10.0	919.0	UNDIFF
-229.0	MODESTO		LIMESTONE	2.5	929.0	UNDIFF
-231.5	MODESTO		SHALE	7.5	931.5	UNDIFF
-239.0	MODESTO		LIMESTONE	2.0	939.0	UNDIFF
-241.0	MODESTO		SILTY SHALE	39.0	941.0	UNDIFF
-280.0	MODESTO		SHALE	26.0	980.0	UNDIFF
-306.0	CARBONDALE	DANVILLE	COAL	2.0	1006.0	UNDIFF
-308.0	CARBONDALE		SHALE	6.0	1008.0	UNDIFF
-314.0	CARBONDALE		LIMESTONE	6.0	1014.0	UNDIFF, PROB. BANKSTON FORK LS
-320.0	CARBONDALE		SILTY SHALE	59.0	1020.0	UNDIFF
-379.0	CARBONDALE	JAMESTOWN	COAL	2.0	1079.0	UNDIFF, POSS JAMESTOWN COAL ON NEUT ONLY
-381.0	CARBONDALE	ENERGY	SHALE	31.0	1081.0	UNDIFF, CORE POINT AT 1112
-412.0	CARBONDALE	ENERGY	SHALE	8.2	1112.0	HARD, MOD SID, PLATY; LIGHT
-420.2	CARBONDALE	ENERGY	SHALE	1.0	1120.2	SOFT, MOD SID; LIGHT
-421.2	CARBONDALE	ENERGY	DARK SHALE	0.9	1121.2	HARD, MOD SID, MOD CARB TRASH, PLATY
-422.1	CARBONDALE	ENERGY	DARK SHALE	0.8	1122.1	HARD, MOD SID, PLATY, LT SH LAMS
-422.9	CARBONDALE	ENERGY	DARK SHALE	3.9	1122.9	SOFT, MOD SID, LT SH LAMS
-426.8	CARBONDALE	ENERGY	DARK SHALE	1.8	1126.8	HARD, MOD SID, PLATY, LT SH LAMS
-428.6	CARBONDALE	ENERGY	DARK SHALE	0.8	1128.6	HARD, PLATY
-429.4	CARBONDALE	ENERGY	SHALE	0.1	1129.4	W/ COAL, MED HARD, TR SLKN; DK TO BK
-429.5	CARBONDALE	HERRIN	COAL	0.5	1129.5	BLOCKY, W/ CALCITE CLEAT FILL; BRIGHT
-430.0	CARBONDALE	HERRIN	COAL	2.9	1130.0	BLOCKY, W/ CALCITE CLEAT FILL; BRIGHT
-432.9	CARBONDALE		CLAYSTONE & SILTSTONE	1.2	1132.9	SOFT, ABDT SLICKENSIDES, BROKEN; DARK
-434.1	CARBONDALE		CLAYSTONE & SILTSTONE	1.1	1134.1	SOFT, ABDT SLICKENSIDES, BROKEN; LIGHT
-435.2	CARBONDALE		CLAYSTONE & SILTSTONE	0.8	1135.2	W/ LS INCLUSIONS
-436.0	CARBONDALE		CLAYSTONE & SILTSTONE	1.1	1136.0	SOFT, ABDT SLICKENSIDES, BROKEN; LIGHT
-437.1	CARBONDALE		CLAYSTONE & SILTSTONE	3.5	1137.1	W/ LS INCLUSIONS
-440.6	CARBONDALE		SHALE	2.0	1140.6	HARD, PLATY; LIGHT
-442.6	CARBONDALE		SHALE	0.8	1142.6	SOFT, CLAY LAMS; LIGHT
-443.4	CARBONDALE		DARK SHALE	1.3	1143.4	SOFT, MOD SLKN, PLATY
-444.7	CARBONDALE		DARK SHALE	0.3	1144.7	SOFT, MOD SLKN, PLATY, MOD PYR VEINS
-445.0	CARBONDALE		DARK SHALE	1.0	1145.0	HARD, PLATY, TR SLKN
-446.0	CARBONDALE		FOSSILIFEROUS SHALE	0.1	1146.0	HARD, LIMY
-446.1	CARBONDALE	SPRINGFIELD	COAL	4.2	1146.1	BLOCKY, W/CALCITE CLEAT FILL, MOD SH; BR
-450.3	CARBONDALE		CLAYSTONE & SILTSTONE	2.4	1150.3	SOFT, ABDT SLICKENSIDES, BROKEN; LIGHT
-452.7	CARBONDALE		LIMESTONE	1.8	1152.7	DENSE, VERY HARD, V. ARG, NOT V CALCAREOUS
-454.5	CARBONDALE		NO RECORD	0.5	1154.5	W/CALCITE FRAC FILL, V. HARD, (LS OR CLYST)

-455.0 CARBONDALE

CORE LOSS

15.0

1155.0

NO SAMPLE
TAKEN:T.D.

MAPID: 02900602000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 11N 9E SECTION: 4 QUARTERS/FOOTAGES: NW SE SE

QUADRANGLE: CHARLESTON SOUTH LONGITUDE: -88.200452 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.421778 DATE COLLECTED:

SURFACE ELEVATION (FT.): 609.0 LOGGED (FT.): 1184.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GY SH #6, POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-111.0	BOND	CARTHAGE	LIMESTONE	-	720.0	
-249.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	858.0	
-361.0	CARBONDALE	DANVILLE	COAL	-	970.0	
-447.0	CARBONDALE	HERRIN	COAL	-	1056.0	
-473.0	CARBONDALE	SPRINGFIELD	COAL	-	1082.0	
-575.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1184.0	

MAPID: 02900260000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 11N 9E SECTION: 6 QUARTERS/FOOTAGES: SW SE SE

QUADRANGLE: CHARLESTON SOUTH LONGITUDE: -88.237519 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.419431 DATE COLLECTED:

SURFACE ELEVATION (FT.): 735.0 LOGGED (FT.): 1326.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: SPLIT #6?, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-109.0	BOND	CARTHAGE	LIMESTONE	7.0	844.0	
-255.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	990.0	
-361.0	CARBONDALE	DANVILLE	COAL	3.5	1096.0	
-463.0	CARBONDALE	HERRIN	COAL	4.0	1198.0	
-488.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1223.0	
-591.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1326.0	

MAPID: 02913845000C VERSION: 1

PROJECT: NCRDS99

COUNTY: COLES TWP/RNG: 11N 9E SECTION: 6 QUARTERS/FOOTAGES: 300' S line, 330' W line of NW SW NE

QUADRANGLE: CHARLESTON SOUTH LONGITUDE: -88.242054 GEOLOGIST: J MCBETH

CONFIDENTIAL: N LATITUDE: 39.428968 DATE COLLECTED: 10 / 12 / 1984

SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 1247.0 LOG TYPE: Multiple log types

SOURCE: EXXON EIBI-5 WELL TYPE: Coal Test

COMMENT: EXXON COAL QUALITY DATA-GEOPHYS. LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.0			UNCLASSIFIED	185.8	0.0	
539.2			LIMESTONE	5.3	185.8	
534.0			UNCLASSIFIED	50.0	191.0	
484.0			SHALE	1.5	241.0	LOG TRACE SUGGEST CARBONACEOUS
482.5			UNCLASSIFIED	134.8	242.5	
347.7			LIMESTONE	2.0	377.3	
345.7			SHALE	5.3	379.3	LOG TRACE SUGGEST CARBONACEOUS
340.5			UNCLASSIFIED	91.0	384.5	
249.5			SANDSTONE	58.0	475.5	
191.5			UNCLASSIFIED	74.5	533.5	
117.0	BOND	LIVINGSTON	LIMESTONE	7.0	608.0	
110.0	BOND	LIVINGSTON	ROCK	13.3	615.0	
96.7	BOND	LIVINGSTON	LIMESTONE	9.8	628.3	
87.0	BOND		ROCK	95.5	638.0	
-8.5	BOND		SHALE	3.3	733.5	LOG TRACE SUGGEST CARBONACEOUS
-11.8	BOND		ROCK	37.8	736.8	
-49.5	BOND		COAL	2.0	774.5	
-51.5	BOND		ROCK	43.5	776.5	
-95.0	BOND		SHALE	1.3	820.0	LOG TRACE SUGGEST CARBONACEOUS
-96.3	BOND		ROCK	29.3	821.3	
-125.5	BOND	CARTHAGE	LIMESTONE	3.0	850.5	
-128.5	MODESTO		SHALE	2.0	853.5	LOG TRACE SUGGEST CARBONACEOUS
-130.5	MODESTO		ROCK	187.5	855.5	
-318.0	CARBONDALE	DANVILLE	COAL	2.5	1043.0	
-320.5	CARBONDALE		ROCK	7.0	1045.5	
-327.5	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	1052.5	
-331.5	CARBONDALE		ROCK	41.0	1056.5	
-372.5	CARBONDALE	HERRIN	COAL	1.5	1097.5	
-374.0	CARBONDALE		ROCK	54.0	1099.0	
-428.0	CARBONDALE	BRIAR HILL	COAL	3.0	1153.0	
-431.0	CARBONDALE		ROCK	15.8	1156.0	
-446.8	CARBONDALE	TURNER MINE	SHALE	3.5	1171.8	LOG TRACE SUGGEST CARBONACEOUS
-450.3	CARBONDALE	SPRINGFIELD	COAL	4.0	1175.3	
-454.3	CARBONDALE		ROCK	67.8	1179.3	

MAPID: 02913845000C VERSION: 2

PROJECT: NCRDS94

COUNTY: COLES TWP/RNG: 11N 9E SECTION: 6 QUARTERS/FOOTAGES: 300' S line, 330' W line of NW SW NE

QUADRANGLE: CHARLESTON SOUTH LONGITUDE: -88.242054

GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 39.428968

DATE COLLECTED: 10 / 9 / 1984

SURFACE ELEVATION (FT.): 725.0

LOGGED (FT.): 1258.0

LOG TYPE: Drillers Log

SOURCE: EXXON EIBI-5

WELL TYPE: Coal Test

COMMENT: DEPTH-TDEPTH OK; E-LOGS AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
725.0			UNCONSOLIDATED	5.0	0.0
720.0			CLAY	5.0	5.0
715.0			CLAY	75.0	10.0
640.0			SANDSTONE	50.0	85.0
590.0			GRAY SHALE	10.0	135.0
580.0			SANDY SHALE	25.0	145.0
555.0			CALCAREOUS SHALE	5.0	170.0
550.0			SILTY SHALE	13.0	175.0
537.0			LIMESTONE	4.0	188.0
533.0			DARK GRAY SHALE	53.0	192.0
480.0			LIMESTONE	2.0	245.0
478.0			SHALE	28.0	247.0
450.0			DARK GRAY SHALE	5.0	275.0
445.0			SANDSTONE	10.0	280.0
435.0			SANDY SHALE	15.0	290.0
420.0			SILTY SHALE	20.0	305.0
400.0			GRAY SHALE	10.0	325.0
390.0			SANDSTONE	20.0	335.0
370.0			GRAY SHALE	10.0	355.0
360.0			DARK GRAY SHALE	15.0	365.0
345.0			LIMESTONE	2.0	380.0
343.0			DARK GRAY SHALE	3.0	382.0
340.0			SILTY SHALE	55.0	385.0
285.0			GRAY SHALE	40.0	440.0
245.0			SANDSTONE	70.0	480.0
175.0			GRAY SHALE	10.0	550.0
165.0			DARK GRAY SHALE	15.0	560.0
150.0			GRAY SHALE	15.0	575.0
135.0			DARK GRAY SHALE	15.0	590.0
120.0			UNDERCLAY	6.0	605.0
114.0			LIMESTONE	9.0	611.0
105.0			DARK GRAY SHALE	5.0	620.0
100.0			SHALE	10.0	625.0
90.0			LIMESTONE	5.0	635.0
85.0			DARK GRAY SHALE	5.0	640.0
80.0			SHALE	45.0	645.0
35.0			GRAY SHALE	45.0	690.0
-10.0			DARK GRAY SHALE	10.0	735.0
-20.0			UNDERCLAY	5.0	745.0

-25.0			SILTY SHALE	15.0	750.0	
-40.0			DARK GRAY SHALE	30.0	765.0	
-70.0			SILTY SHALE	5.0	795.0	
-75.0			UNDERCLAY	5.0	800.0	
-80.0			DARK GRAY SHALE	30.0	805.0	
-110.0			GRAY SHALE	10.0	835.0	
-120.0			GRAY SHALE	17.0	845.0	
-137.0			LIMESTONE	6.0	862.0	
-143.0			LIMESTONE	17.0	868.0	
-160.0			SANDY SHALE	15.0	885.0	
-175.0			GRAY SHALE	43.0	900.0	
-218.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	943.0	
-229.0	MODESTO		UNDERCLAY	11.0	954.0	
-240.0	MODESTO		GRAY SHALE	5.0	965.0	
-245.0	MODESTO		SANDSTONE	70.0	970.0	
-315.0	MODESTO		SANDSTONE	4.5	1040.0	INTERBEDDED SS AND SH
-319.5	MODESTO		GRAY SHALE	2.5	1044.5	
-321.9	CARBONDALE	DANVILLE	COAL	2.5	1046.9	
-324.4	CARBONDALE		UNDERCLAY	3.4	1049.4	
-327.8	CARBONDALE		UNDERCLAY	3.6	1052.8	
-331.4	CARBONDALE	BANKSTON FORK	LIMESTONE	3.9	1056.4	
-335.3	CARBONDALE		SANDSTONE	3.7	1060.3	
-339.0	CARBONDALE		SANDSTONE	16.2	1064.0	
-355.2	CARBONDALE		SANDSTONE	6.3	1080.2	
-361.5	CARBONDALE		SANDSTONE	13.3	1086.5	INTERBEDDED SS AND SH
-374.7	CARBONDALE		GRAY SHALE	1.8	1099.7	
-376.5	CARBONDALE	HERRIN	COAL	1.8	1101.5	UPPER SPLIT OF SEAM
-378.3	CARBONDALE		UNDERCLAY	0.7	1103.3	
-379.0	CARBONDALE		SANDSTONE	1.4	1104.0	
-380.4	CARBONDALE		SANDSTONE	7.4	1105.4	INTERBEDDED SS AN SH
-387.9	CARBONDALE		SANDSTONE	5.5	1112.9	
-393.3	CARBONDALE		SANDSTONE	5.4	1118.3	INTERBEDDED SS AND SH
-398.7	CARBONDALE		SANDSTONE	2.9	1123.7	
-401.6	CARBONDALE		UNCLASSIFIED	12.7	1126.6	NO ENTRY IN LOG
-414.2	CARBONDALE		GRAY SHALE	4.4	1139.2	
-418.6	CARBONDALE		DARK GRAY SHALE	2.4	1143.6	
-421.0	CARBONDALE		BLACK SHALE	1.8	1146.0	
-422.7	CARBONDALE		DARK GRAY SHALE	3.4	1147.7	
-426.1	CARBONDALE		BLACK SHALE	6.7	1151.1	
-432.8	CARBONDALE	HERRIN	COAL	3.0	1157.8	
-435.8	CARBONDALE		UNDERCLAY	0.7	1160.8	
-436.5	CARBONDALE		UNDERCLAY	1.1	1161.5	
-437.5	CARBONDALE		UNDERCLAY	2.5	1162.5	
-440.0	CARBONDALE		LIMESTONE	0.5	1165.0	
-440.5	CARBONDALE		GRAY SHALE	0.4	1165.5	
-440.8	CARBONDALE		LIMESTONE	0.4	1165.8	
-441.2	CARBONDALE		GRAY SHALE	2.8	1166.2	

-444.0	CARBONDALE		GRAY SHALE	6.4	1169.0	
-450.4	CARBONDALE		COAL	0.3	1175.4	
-450.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	1175.7	
-451.2	CARBONDALE	TURNER MINE	BLACK SHALE	2.6	1176.2	
-453.8	CARBONDALE		LIMESTONE	0.1	1178.8	
-453.9	CARBONDALE	SPRINGFIELD	COAL	4.7	1178.9	
-458.6			UNDERCLAY	0.6	1183.6	
-459.1			UNDERCLAY	1.9	1184.1	
-461.0			LIMESTONE	1.2	1186.0	
-462.2			UNDERCLAY	0.2	1187.2	
-462.4			UNCLASSIFIED	4.1	1187.4	CORE LOSS
-466.5			UNCLASSIFIED	69.5	1191.5	NOTHING IN LOG - DRILLING RAT HOLE

MAPID: 02923590000C VERSION: 1

PROJECT: AVAIL

COUNTY: COLES TWP/RNG: 11N 9E SECTION: 22 QUARTERS/FOOTAGES: 620' N line, 1300' W line of NW NW NW

QUADRANGLE: CHARLESTON SOUTH LONGITUDE: -88.192059 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.388194 DATE COLLECTED: 6 / 3 / 1976

SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 1205.0 LOG TYPE: Drillers Log

SOURCE: ATLANTIC RICHFIELD GU-17 WELL TYPE: Coal Test

COMMENT: LOGS: GAMMA-RAY, NEUTRON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.0			UNCONSOLIDATED	16.0	0.0	SOIL & ALLUVIUM
664.0	MATTOON		SANDSTONE	162.0	16.0	MED-GRAINED, MASSIVE W/GRAVELS, WTHD; LT
502.0	MATTOON		SHALE	14.0	178.0	HARD; LIGHT
488.0	MATTOON		CLAYSTONE & SILTSTONE	30.0	192.0	UNDIFF
458.0	MATTOON		DARK SHALE	2.0	222.0	SOFT
456.0	MATTOON		SANDSTONE	33.0	224.0	W/ABDT DARK INTERBEDS(25- 50% SHALE), LIMY
423.0	MATTOON		DARK SHALE	11.0	257.0	HARD
412.0	MATTOON		SHALE	29.0	268.0	W/SS, UNDIFF
383.0	MATTOON		SANDSTONE	33.0	297.0	UNDIFF, LIMY
350.0	MATTOON		SHALE	27.0	330.0	UNDIFF
323.0	MATTOON		DARK SHALE	20.0	357.0	SOFT
303.0	MATTOON		SHALE	10.0	377.0	UNDIFF
293.0	MATTOON		CARBONACEOUS SHALE	7.0	387.0	HARD
286.0	MATTOON		CLAYSTONE & SILTSTONE	54.0	394.0	UNDIFF
232.0	MATTOON		SANDSTONE	13.0	448.0	UNDIFF, LIMY
219.0	MATTOON		SANDSTONE	44.0	461.0	MED-GRAINED, MASSIVE, LIMY; LT GRY
175.0	MATTOON		LIMESTONE	6.0	505.0	UNDIFF, ARG
169.0	MATTOON		DARK SHALE	50.0	511.0	HARD
119.0	MATTOON		CARBONACEOUS SHALE	3.0	561.0	HARD
116.0	MATTOON		CLAYSTONE & SILTSTONE	6.0	564.0	UNDIFF
110.0	MATTOON		SHALE	21.0	570.0	UNDIFF
89.0	MATTOON		DARK SHALE	7.0	591.0	HARD
82.0	BOND	MILLERSVILLE	LIMESTONE	6.0	598.0	UNDIFF
76.0	BOND	MILLERSVILLE	SHALE	2.0	604.0	UNDIFF, SH BREAK IN MV
74.0	BOND	MILLERSVILLE	LIMESTONE	15.0	606.0	UNDIFF
59.0	BOND		DARK SHALE	18.0	621.0	HARD
41.0	BOND		LIMESTONE	4.0	639.0	UNDIFF
37.0	BOND		CLAYSTONE & SILTSTONE	12.0	643.0	UNDIFF
25.0	BOND		SHALE	21.0	655.0	UNDIFF
4.0	BOND		SHALE	39.0	676.0	W/SS, UNDIFF, LIMY
-35.0	BOND		DARK SHALE	8.0	715.0	SOFT
-43.0	BOND		SHALE	13.0	723.0	UNDIFF
-56.0	BOND		SHALE	18.0	736.0	HARD; LIGHT
-74.0	BOND		CLAYSTONE & SILTSTONE	9.0	754.0	UNDIFF
-83.0	BOND		SHALE	24.0	763.0	UNDIFF
-107.0	BOND	CARTHAGE	LIMESTONE	4.0	787.0	UNDIFF
-111.0	MODESTO		DARK SHALE	3.0	791.0	SOFT
-114.0	MODESTO		SHALE	37.0	794.0	UNDIFF
-151.0	MODESTO		DARK SHALE	4.0	831.0	SOFT

-155.0	MODESTO		SHALE	86.0	835.0	UNDIFF W/CLAYST(#20)
-241.0	MODESTO		DARK SHALE	5.0	921.0	SOFT
-246.0	MODESTO		SHALE	3.0	926.0	UNDIFF
-249.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	929.0	UNDIFF, ARG
-262.0	MODESTO		SHALE	94.0	942.0	UNDIFF
-356.0	CARBONDALE	DANVILLE	COAL	2.0	1036.0	UNDIFF
-358.0	CARBONDALE		SHALE	8.0	1038.0	UNDIFF
-366.0	CARBONDALE		LIMESTONE	8.0	1046.0	UNDIFF, PROB BANKSTON FKS LS%
-374.0	CARBONDALE	ENERGY	SHALE	61.0	1054.0	W/ABDT THIN SS INTERBEDS(25-50% SS); M-D
-435.0	CARBONDALE	ENERGY	SHALE	6.7	1115.0	W/ABDT THIN SS INTERBEDS(25-50% SS); M-D
-441.7	CARBONDALE	ENERGY	SHALE	2.3	1121.7	W/FEW THIN SS INTRBDS(<25%SS)BED 15 DEG
-444.0	CARBONDALE	ENERGY	SANDY SILTSTONE	0.7	1124.0	MASSIVE, HARD; MED GRY
-444.7	CARBONDALE	ENERGY	SHALE	9.8	1124.7	W/ABDT THIN SS INTERBEDS(25-50%SS); M-D
-454.5	CARBONDALE	ENERGY	CORE LOSS	0.5	1134.5	PROB #53
-455.0	CARBONDALE	ENERGY	SHALE	10.0	1135.0	W/ABDT THIN SS INTERBEDS(25-50%SS); M-D
-465.0	CARBONDALE	ENERGY	SANDSTONE	5.3	1145.0	W/ABDT DARK INTERBEDS(25- 50% SHALE); LT
-470.3	CARBONDALE	ENERGY	SANDSTONE	0.8	1150.3	W/ FEW THIN DARK SHALE INTERBEDS(<25%SH)
-471.1	CARBONDALE	ENERGY	SANDSTONE	0.4	1151.1	WITH ABDT DARK INTERBEDS(25-50% SHALE);
-471.5	CARBONDALE	ENERGY	SANDSTONE	0.7	1151.5	W/FEW THIN DARK SHALE INTERBEDS(<25%SH);
-472.2	CARBONDALE	ENERGY	SANDSTONE	0.3	1152.2	W/ABDT DARK INTERBEDS(25- 50% SHALE); LT
-472.5	CARBONDALE	ENERGY	SANDSTONE	0.6	1152.5	W/FEW THIN DARK SHALE INTERBEDS(<25%SH);
-473.1	CARBONDALE	HERRIN	COAL	0.7	1153.1	BLOCKY, W/ CALCITE CLEAT FILL, BRIGHT
-473.8	CARBONDALE	HERRIN	COAL	0.2	1153.8	BLOCKY, W/ CALCITE CLEAT FILL; MED BRGT
-474.0	CARBONDALE	HERRIN	COAL	1.2	1154.0	BLOCKY, W/ CALCITE CLEAT FILL; MED BRGT
-475.2	CARBONDALE	HERRIN	COAL	0.3	1155.2	SHALY OR BONY
-475.5	CARBONDALE	HERRIN	COAL	0.9	1155.5	BLOCKY, W/CAL CLT FILL; MED BRGT
-476.4	CARBONDALE		CLAYSTONE & SILTSTONE	4.1	1156.4	SOFT, W/ABDT SLICKENSIDES, BROKEN; LIGHT
-480.5	CARBONDALE		CLAYSTONE & SILTSTONE	0.5	1160.5	W/LS INCLUSIONS
-481.0	CARBONDALE		CLAYSTONE & SILTSTONE	0.9	1161.0	W/LS INCLUSIONS
-481.9	CARBONDALE		CLAYSTONE & SILTSTONE	0.8	1161.9	SOFT, ABDT SLICKENSIDES, BROKEN; LIGHT
-482.7	CARBONDALE		CLAYSTONE & SILTSTONE	2.3	1162.7	SOFT, ABDT SLICKENSIDES, BROKEN; DARK
-485.0	CARBONDALE		CLAYSTONE & SILTSTONE	1.5	1165.0	SOFT, ABDT SLICKENSIDES, BROKEN; LIGHT
-486.5	CARBONDALE		LIMESTONE	0.6	1166.5	W/ CALCITE FRACT FILL, VERY HARD, ARG
-487.1	CARBONDALE		CLAYSTONE & SILTSTONE	0.8	1167.1	SOFT, ABDT SLICKENSIDES, BROKEN, CLY
-487.9	CARBONDALE		SHALE	2.7	1167.9	SOFT, PLATY, MOD SID BANDS; LIGHT
-490.6	CARBONDALE		SILTY SHALE	5.4	1170.6	ABT DISS SILVERY MATL(OCC BANDS)MOD SID
-496.0	CARBONDALE		SANDY SHALE	2.9	1176.0	HARD, ABT DISS PYR, CARB TRASH, SLI DIST
-498.9	CARBONDALE		DARK SHALE	3.5	1178.9	HARD, PLATY, MOD DISS PYR, MOD CRB TRASH
-502.4	CARBONDALE		CARBONACEOUS SHALE	0.4	1182.4	HARD, OCC. FOS BANDS
-502.8	CARBONDALE		FOSSILIFEROUS SHALE	0.1	1182.8	LIMY, HARD
-502.9	CARBONDALE	SPRINGFIELD	COAL	0.8	1182.9	BLOCKY, W/CALCITE CLEAT FILL; BRIGHT
-503.7	CARBONDALE	SPRINGFIELD	LIMESTONE	0.3	1183.7	W/CAL FRAC FILL, V HARD, HEAVY, CONT W/COAL
-504.0	CARBONDALE	SPRINGFIELD	COAL	0.8	1184.0	BLOCKY, W/CALCITE CLEAT FILL; BRIGHT
-504.8	CARBONDALE	SPRINGFIELD	COAL	0.9	1184.8	BLOCKY, W/CALCITE CLEAT FILL; BRIGHT

-505.7	CARBONDALE	SPRINGFIELD	COAL	1.5	1185.7	BLOCKY, W/CALCITE CLEAT FILL; MED BRGT
-507.2	CARBONDALE		CLAYSTONE & SILTSTONE	3.0	1187.2	SOFT, ABDT SLACKENSIDES, BROKEN; LIGHT
-510.2	CARBONDALE		LIMESTONE	0.5	1190.2	W/CALCITE FRACT FILL, VERY HARD, ARG
-510.7	CARBONDALE		SANDSTONE	2.9	1190.7	W/ABDT DK SH INTRBDS(25-50%SH),DIST; LT
-513.6	CARBONDALE		SANDSTONE	1.0	1193.6	W/FEW THIN DK SH INTRBDS(<25%SH)LIMY,DST
-514.6	CARBONDALE		CORE LOSS	0.4	1194.6	
-515.0	CARBONDALE		CORE LOSS	10.0	1195.0	NO SAMPLE TAKEN:T.D.

MAPID: 02900623000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 11N 9E **SECTION:** 23 **QUARTERS/FOOTAGES:** SW NE SW
QUADRANGLE: CHARLESTON SOUTH **LONGITUDE:** -88.171735 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.379968 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 572.0 **LOGGED (FT.):** 1169.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: SPLIT #6?, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-73.0	BOND	CARTHAGE	LIMESTONE	3.0	645.0	
-222.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	794.0	
-312.0	CARBONDALE	DANVILLE	COAL	-	884.0	
-417.0	CARBONDALE	HERRIN	COAL	3.5	989.0	
-445.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1017.0	
-525.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1097.0	
-597.0	CARBONDALE	COLCHESTER	COAL	-	1169.0	

MAPID: 02922512000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: COLES **TWP/RNG:** 11N 10E **SECTION:** 11 **QUARTERS/FOOTAGES:** 791' S line, 42' W line of NE
QUADRANGLE: WESTFIELD WEST **LONGITUDE:** -88.054537 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.415776 **DATE COLLECTED:** 11 / 2 / 1976
SURFACE ELEVATION (FT.): 668.0 **LOGGED (FT.):** 235.0 **LOG TYPE:** Electric Log
SOURCE: HYDROCARBON SURVEY C0-76-1 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-				-		NO COAL PICKS

MAPID: 02900052000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 11N 10E SECTION: 18 QUARTERS/FOOTAGES: NW SW NW
 QUADRANGLE: CHARLESTON SOUTH LONGITUDE: -88.138924 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.401428 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 720.0 LOGGED (FT.): 1050.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
58.0	BOND	CARTHAGE	LIMESTONE	4.0	662.0
-76.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	796.0
-162.0	CARBONDALE	DANVILLE	COAL	2.0	882.0
-259.0	CARBONDALE	HERRIN	COAL	3.5	979.0
-282.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1002.0
-330.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1050.0

MAPID: 02900052000C VERSION: 2

PROJECT: CONTROL

COUNTY: COLES TWP/RNG: 11N 10E SECTION: 18 QUARTERS/FOOTAGES: NW SW NW
 QUADRANGLE: CHARLESTON SOUTH LONGITUDE: -88.138924 GEOLOGIST: HINES
 CONFIDENTIAL: N LATITUDE: 39.401428 DATE COLLECTED:
 SURFACE ELEVATION (FT.): LOGGED (FT.): 1946.0 LOG TYPE: Survey Sample Study
 SOURCE: ZINK, EARNEST 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: 02900639000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 11N 10E SECTION: 20 QUARTERS/FOOTAGES: SE NW SW
 QUADRANGLE: WESTFIELD WEST LONGITUDE: -88.117554 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.381013 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 626.0 LOGGED (FT.): 976.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
124.0	BOND	CARTHAGE	LIMESTONE	5.0	502.0
-8.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	634.0
-71.0	CARBONDALE	DANVILLE	COAL	-	697.0
-179.0	CARBONDALE	HERRIN	COAL	2.5	805.0
-201.0	CARBONDALE	SPRINGFIELD	COAL	2.5	827.0
-244.0	CARBONDALE	HOUCHIN CREEK	COAL	-	870.0
-324.0	CARBONDALE	COLCHESTER	COAL	-	950.0
-350.0	SPOON	SEELYVILLE	COAL	-	976.0

MAPID: 02900729000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 11N 11E SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 330' W line of SE SW
 QUADRANGLE: WESTFIELD WEST LONGITUDE: -88.022275 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.423454 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 664.0 LOGGED (FT.): 401.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: JAMESTWN, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
507.0	CARBONDALE	DANVILLE	COAL	2.5	157.0
392.0	CARBONDALE	HERRIN	COAL	3.0	272.0
370.0	CARBONDALE	SPRINGFIELD	COAL	-	294.0
341.0	CARBONDALE	HOUCHIN CREEK	COAL	-	323.0
307.0	CARBONDALE	COLCHESTER	COAL	-	357.0
263.0	SPOON	SEELYVILLE	COAL	-	401.0

MAPID: 02900521000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 11N 11E SECTION: 7 QUARTERS/FOOTAGES: 440' S line, 311' W line of SE NE
 QUADRANGLE: WESTFIELD WEST LONGITUDE: -88.016786 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.416375 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 652.0 LOGGED (FT.): 280.0 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
452.0	CARBONDALE	HERRIN	COAL	3.0	200.0
432.0	CARBONDALE	SPRINGFIELD	COAL	-	220.0
409.0	CARBONDALE	HOUCHIN CREEK	COAL	-	243.0
372.0	CARBONDALE	COLCHESTER	COAL	-	280.0

MAPID: 02900984000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 11N 11E SECTION: 18 QUARTERS/FOOTAGES: 440' N line, 330' W line of NE NE
 QUADRANGLE: WESTFIELD WEST LONGITUDE: -88.01649 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.406568 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 652.0 LOGGED (FT.): 260.0 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
473.0	CARBONDALE	HERRIN	COAL	3.0	179.0
454.0	CARBONDALE	SPRINGFIELD	COAL	-	198.0
428.0	CARBONDALE	HOUCHIN CREEK	COAL	-	224.0
392.0	CARBONDALE	COLCHESTER	COAL	-	260.0

MAPID: 02900675000C VERSION: 1

PROJECT: NCRDS87

COUNTY: COLES TWP/RNG: 11N 11E SECTION: 19 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SE
 QUADRANGLE: WESTFIELD WEST LONGITUDE: -88.013394 GEOLOGIST: WEIBEL
 CONFIDENTIAL: N LATITUDE: 39.381595 DATE COLLECTED: 12 / 17 / 1958
 SURFACE ELEVATION (FT.): 654.0 LOGGED (FT.): 360.0 LOG TYPE: Multiple log types
 SOURCE: CHARLES R. DEAN WELL TYPE: Dry Hole
 COMMENT: 19,22

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
459.0	CARBONDALE	HERRIN	COAL	5.0	195.0	
454.0	CARBONDALE		UNCLASSIFIED	14.0	200.0	
440.0	CARBONDALE		BLACK SHALE	2.0	214.0	
438.0	CARBONDALE	SPRINGFIELD	COAL	3.0	216.0	
435.0	CARBONDALE		UNCLASSIFIED	24.0	219.0	
411.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	243.0	
409.0	CARBONDALE		UNCLASSIFIED	36.5	245.0	
372.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	3.0	281.5	
369.5	CARBONDALE	COLCHESTER	COAL	0.0	284.5	
369.5	SPOON		UNCLASSIFIED	44.5	284.5	
325.0	SPOON		BLACK SHALE	3.0	329.0	PERHAPS A DK GY SH
322.0	SPOON		COAL	3.0	332.0	POSSIBLE COAL
319.0	SPOON		UNCLASSIFIED	19.0	335.0	
300.0	SPOON		BLACK SHALE	6.0	354.0	PERHAPS A DK GY SH
294.0			UNCLASSIFIED	341.0	360.0	

MAPID: 02900675000C VERSION: 2

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 11N 11E SECTION: 19 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE SE
 QUADRANGLE: WESTFIELD WEST LONGITUDE: -88.013394 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.381595 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 325.0 LOG TYPE: Nuclear Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0	CARBONDALE	HERRIN	COAL	4.0	195.0	
439.0	CARBONDALE	SPRINGFIELD	COAL	2.5	216.0	
412.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	243.0	
371.0	CARBONDALE	COLCHESTER	COAL	-	284.0	
330.0	SPOON	SEELYVILLE	COAL	-	325.0	

MAPID: 0290058000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 1 QUARTERS/FOOTAGES: 1285' S line, 330' W line of NW

QUADRANGLE: COOKS MILLS LONGITUDE: -88.377747 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.516271 DATE COLLECTED:

SURFACE ELEVATION (FT.): 692.0 LOGGED (FT.): 1165.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
47.0	BOND	CARTHAGE	LIMESTONE	8.0	645.0
-90.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	782.0
-208.0	CARBONDALE	DANVILLE	COAL	-	900.0
-296.0	CARBONDALE	HERRIN	COAL	-	988.0
-415.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1107.0
-473.0	CARBONDALE	COLCHESTER	COAL	-	1165.0

MAPID: 02901676000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 2 QUARTERS/FOOTAGES: 330' S line, 2310' W line of NW

QUADRANGLE: COOKS MILLS LONGITUDE: -88.389017 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.513585 DATE COLLECTED:

SURFACE ELEVATION (FT.): 692.0 LOGGED (FT.): 1153.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GY SH #6, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
70.0	BOND	CARTHAGE	LIMESTONE	7.0	622.0
-66.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	758.0
-195.0	CARBONDALE	DANVILLE	COAL	-	887.0
-280.0	CARBONDALE	HERRIN	COAL	-	972.0
-294.0	CARBONDALE	SPRINGFIELD	COAL	-	986.0
-397.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1089.0
-461.0	CARBONDALE	COLCHESTER	COAL	-	1153.0

MAPID: 02900549000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 3 QUARTERS/FOOTAGES: SE SW NE
 QUADRANGLE: COOKS MILLS LONGITUDE: -88.403075 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.513692 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 686.0 LOGGED (FT.): 1172.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
37.0	BOND	CARTHAGE	LIMESTONE	9.0	649.0	
-94.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	780.0	
-215.0	CARBONDALE	DANVILLE	COAL	-	901.0	
-298.0	CARBONDALE	HERRIN	COAL	-	984.0	
-311.0	CARBONDALE	SPRINGFIELD	COAL	3.0	997.0	
-418.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1104.0	
-486.0	CARBONDALE	COLCHESTER	COAL	-	1172.0	

MAPID: 02922939000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 7 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.454344 GEOLOGIST: C.TREWORY
 CONFIDENTIAL: N LATITUDE: 39.497028 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 699.0 LOGGED (FT.): 1472.0 LOG TYPE: Induction Log
 SOURCE: TRI-STATE PRODUCING CO. WELL TYPE: Dry Hole
 COMMENT: MICRORESISTIVITY LOG 1400' & DOWN

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
199.0			LIMESTONE	35.0	500.0	
164.0	MATTOON		UNCLASSIFIED	215.0	535.0	
-51.0	BOND	CARTHAGE	LIMESTONE	8.0	750.0	
-59.0	MODESTO		UNCLASSIFIED	122.0	758.0	
-181.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	880.0	
-188.0	MODESTO	WEST FRANKLIN	SHALE	4.0	887.0	
-192.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	891.0	
-199.0	MODESTO		UNCLASSIFIED	106.0	898.0	
-305.0	CARBONDALE	DANVILLE	COAL	2.0	1004.0	
-307.0	CARBONDALE		UNCLASSIFIED	15.0	1006.0	
-322.0	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	1021.0	
-328.0	CARBONDALE		SHALE	65.0	1027.0	
-393.0	CARBONDALE	HERRIN	COAL	3.0	1092.0	
-501.0	CARBONDALE	HOUCHIN CREEK	UNCLASSIFIED	0.0	1200.0	HOUCHIN CREEK HORIZON
-570.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	3.0	1269.0	
-585.0	SPOON	SEELYVILLE	COAL	1.5	1284.0	
-751.0			COAL	4.0	1450.0	FROM MICROLOG, LITHOLOGY UNCERTAIN
-770.0			COAL	3.0	1469.0	FROM MICROLOG, LITHOLOGY UNCERTAIN

MAPID: 02900738000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 10 QUARTERS/FOOTAGES: 160' S line, 510' W line of NE

QUADRANGLE: MATTOON WEST LONGITUDE: -88.404813 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.498139 DATE COLLECTED:

SURFACE ELEVATION (FT.): 701.0 LOGGED (FT.): 1269.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
13.0	BOND	CARTHAGE	LIMESTONE	7.0	688.0	
-121.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	822.0	
-250.0	CARBONDALE	DANVILLE	COAL	-	951.0	
-336.0	CARBONDALE	HERRIN	COAL	-	1037.0	
-350.0	CARBONDALE	SPRINGFIELD	COAL	-	1051.0	
-459.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1160.0	
-568.0	CARBONDALE	COLCHESTER	COAL	-	1269.0	

MAPID: 02901060000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 11 QUARTERS/FOOTAGES: SE SE NW

QUADRANGLE: MATTOON WEST LONGITUDE: -88.389207 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.498326 DATE COLLECTED:

SURFACE ELEVATION (FT.): 701.0 LOGGED (FT.): 1197.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
66.0	BOND	CARTHAGE	LIMESTONE	8.0	635.0	
-69.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	770.0	
-194.0	CARBONDALE	DANVILLE	COAL	3.0	895.0	
-284.0	CARBONDALE	HERRIN	COAL	-	985.0	
-405.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1106.0	
-457.0	CARBONDALE	COLCHESTER	COAL	-	1158.0	
-492.0	SPOON	SEELYVILLE	COAL	4.0	1193.0	

MAPID: 02901076000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 12 QUARTERS/FOOTAGES: 530' S line, 260' W line of NE SW

QUADRANGLE: MATTOON EAST LONGITUDE: -88.373203

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.495109

DATE COLLECTED:

SURFACE ELEVATION (FT.): 700.0

LOGGED (FT.): 1224.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
48.0	BOND	CARTHAGE	LIMESTONE	7.0	652.0
-88.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	788.0
-213.0	CARBONDALE	DANVILLE	COAL	2.5	913.0
-320.0	CARBONDALE	HERRIN	COAL	3.5	1020.0
-434.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1134.0
-492.0	CARBONDALE	COLCHESTER	COAL	-	1192.0
-520.0	SPOON	SEELYVILLE	COAL	4.0	1220.0

MAPID: 02900014000C VERSION: 1

PROJECT: NCRDS88

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 14 QUARTERS/FOOTAGES: 2850' S line, 1' E line

QUADRANGLE: MATTOON WEST LONGITUDE: -88.378654 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.483484 DATE COLLECTED: 10 / 2 / 1876

SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 1327.3 LOG TYPE: Drillers Log

SOURCE: SWAN BROTHERS WELL TYPE: Coal Test

COMMENT: LOC. 19TH & PRAIRE ST, FOOTGS. FROM TOPO

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.0			UNCONSOLIDATED	100.0	0.0	
625.0	MATTOON		GRAY SHALE	15.0	100.0	
610.0	MATTOON		LIMESTONE	10.0	115.0	
600.0	MATTOON		SANDY SHALE	31.0	125.0	
569.0	MATTOON		LIMESTONE	4.0	156.0	
565.0	MATTOON		BLACK SHALE	20.0	160.0	
545.0	MATTOON		COAL	0.3	180.0	
544.7	MATTOON		UNDERCLAY	5.0	180.3	
539.7	MATTOON		SHALE	145.0	185.3	VARIOUS COLORS AND COMPOSITIONS
394.7	MATTOON		SANDSTONE	5.0	330.3	
389.7	MATTOON		SANDY SHALE	40.0	335.3	
349.7	MATTOON		LIMESTONE	4.0	375.3	
345.7	MATTOON		COAL	3.0	379.3	
342.7	MATTOON		UNDERCLAY	5.0	382.3	
337.7	MATTOON		GRAY SHALE	35.0	387.3	
302.7	MATTOON		LIMESTONE	10.0	422.3	
292.7	MATTOON		BLUE SHALE	8.0	432.3	
284.7	MATTOON		COAL	1.7	440.3	
283.0	MATTOON		UNDERCLAY	3.0	442.0	
280.0	MATTOON		SHALE	10.0	445.0	
270.0	MATTOON		LIMESTONE	7.0	455.0	
263.0	MATTOON		COAL	4.5	462.0	
258.5	MATTOON		SHALE	5.0	466.5	
253.5	MATTOON		COAL	4.0	471.5	
249.5	MATTOON		UNDERCLAY	5.0	475.5	
244.5	BOND		SHALE	110.0	480.5	MILLERSVILLE LS AT LEVEL IN ADJ. HOLE
134.5	BOND		LIMESTONE	7.0	590.5	
127.5	BOND		SHALE	12.0	597.5	
115.5	BOND		BLACK SHALE	5.0	609.5	
110.5	BOND		COAL	6.8	614.5	
103.7	BOND		UNDERCLAY	3.0	621.3	
100.7	BOND		SHALE	20.0	624.3	
80.7	BOND		BLACK SHALE	3.0	644.3	
77.7	BOND		SHALE	11.0	647.3	
66.7	BOND		LIMESTONE W/ SHALE	100.0	658.3	CARTHAGE LS IS PROB. W/IN THIS INTERVAL
-33.3	MODESTO		BLACK SHALE	2.0	758.3	
-35.3	MODESTO		CONGLOMERATE	60.0	760.3	
-95.3	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	820.3	
-100.3	MODESTO		SHALE	15.0	825.3	

-115.3	MODESTO		SHALE	104.0	840.3	
-219.3	CARBONDALE	DANVILLE	COAL	5.0	944.3	
-224.3	CARBONDALE		UNDERCLAY	2.0	949.3	
-226.3	CARBONDALE		LIMESTONE	5.0	951.3	
-231.3	CARBONDALE		SANDY SHALE	25.0	956.3	THIS UNIT TO HERRIN PROB. ENERGY SHALE
-256.3	CARBONDALE		LIMESTONE W/ SHALE	20.0	981.3	
-276.3	CARBONDALE		SANDY SHALE	10.0	1001.3	
-286.3	CARBONDALE		LIMESTONE W/ SHALE	20.0	1011.3	
-306.3	CARBONDALE		BLUE SHALE	12.0	1031.3	
-318.3	CARBONDALE	HERRIN	COAL	2.0	1043.3	
-320.3	CARBONDALE		UNDERCLAY	4.0	1045.3	
-324.3			SHALE	128.0	1049.3	UPPER PART OF INTV. IS CARBONDALE FM.
-452.3	MISSISSIPPIAN		LIMESTONE	150.0	1177.3	

MAPID: 02900015000C VERSION: 1

PROJECT: NCRDS88

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 14 QUARTERS/FOOTAGES: SE NW SE SE

QUADRANGLE: MATTOON WEST LONGITUDE: -88.381515 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.477864 DATE COLLECTED: 0 / 0 / 1882

SURFACE ELEVATION (FT.): 722.0 LOGGED (FT.): 1111.0 LOG TYPE: Drillers Log

SOURCE: ILLINOIS COAL REPORTS WELL TYPE: Diamond Drill

COMMENT: FIRST 908' IS THE LOG OF A SHAFT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.0			UNCONSOLIDATED	131.0	0.0	
591.0	MATTOON		LIMESTONE	1.5	131.0	
589.5	MATTOON		SHALE	23.0	132.5	
566.5	MATTOON		LIMESTONE	2.0	155.5	
564.5	MATTOON		COAL	0.3	157.5	
564.2	MATTOON		UNDERCLAY	4.0	157.8	
560.2	MATTOON		SHALE	83.0	161.8	
477.2	MATTOON		BLACK SHALE & CLAY	5.0	244.8	
472.2	MATTOON		RED SHALE	20.0	249.8	
452.2	MATTOON		SANDSTONE/LIMESTONE	108.0	269.8	
344.2	MATTOON		COAL	1.5	377.8	
342.7	MATTOON		UNDERCLAY	3.5	379.3	
339.2	MATTOON		SHALE	66.0	382.8	
273.2	MATTOON		COAL	0.7	448.8	
272.5	MATTOON		UNDERCLAY	3.0	449.5	
269.5	MATTOON		SANDSTONE	6.0	452.5	
263.5	MATTOON		COAL	0.6	458.5	
262.9	MATTOON		UNDERCLAY/SHALE	11.0	459.1	
251.9	MATTOON		COAL	0.9	470.1	
251.0	MATTOON		UNDERCLAY	4.0	471.0	
247.0	BOND	MILLERSVILLE	LIMESTONE	37.0	475.0	
210.0	BOND		COAL	0.3	512.0	
209.7	BOND		SHALE	107.0	512.3	
102.7	BOND		COAL	2.5	619.3	
100.2	BOND		DARK SHALE	2.5	621.8	
97.7	BOND		COAL	0.2	624.3	
97.5	BOND		UNDERCLAY	3.0	624.5	
94.5	BOND		GRAY SHALE	12.0	627.5	
82.5	BOND	CARTHAGE	LIMESTONE	15.0	639.5	
67.5	MODESTO		BLACK SHALE & CLAY	2.1	654.5	BLACK SLATE 2' COAL 1"
65.4	MODESTO		SHALE	36.0	656.6	
29.4	MODESTO		COAL	1.1	692.6	
28.3	MODESTO		SANDSTONE/SHALE	72.0	693.7	
-43.7	MODESTO		COAL	0.9	765.7	
-44.6	MODESTO		UNDERCLAY	2.4	766.6	
-47.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	769.0	
-55.0	MODESTO	WEST FRANKLIN	BLUE SHALE	2.0	777.0	
-57.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	779.0	
-69.0	MODESTO		SHALE	58.0	791.0	

-127.0	MODESTO		SANDSTONE/SHALE	46.0	849.0	
-173.0	MODESTO		GRAY SHALE	9.0	895.0	
-182.0	CARBONDALE	DANVILLE	COAL	4.0	904.0	
-186.0	CARBONDALE		UNDERCLAY	15.0	908.0	
-201.0	CARBONDALE	ENERGY	GRAY SHALE	70.0	923.0	THIS INTERVAL IS MOSTLY ENERGY SH.
-271.0	CARBONDALE	ENERGY	BLACK SHALE	1.0	993.0	
-272.0	CARBONDALE	HERRIN	COAL	1.7	994.0	
-273.7	CARBONDALE		UNDERCLAY	3.3	995.7	
-277.0	CARBONDALE		DARK SHALE	4.0	999.0	
-281.0	CARBONDALE	SPRINGFIELD	COAL	0.3	1003.0	
-281.3	CARBONDALE		UNDERCLAY	1.7	1003.3	
-283.0	CARBONDALE		SHALE	12.0	1005.0	
-295.0	CARBONDALE		SANDSTONE	4.0	1017.0	
-299.0	CARBONDALE		SHALE	27.0	1021.0	
-326.0	CARBONDALE		DARK SHALE	45.0	1048.0	
-371.0	CARBONDALE	EXCELLO	BLACK SHALE	9.0	1093.0	
-380.0	CARBONDALE		GREEN SHALE	6.0	1102.0	
-386.0	CARBONDALE		LIMESTONE	3.0	1108.0	

MAPID: 02900015000C VERSION: 2

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 14 QUARTERS/FOOTAGES: SE NW SE SE
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.381515 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.477864 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 722.0 LOGGED (FT.): 1102.0 LOG TYPE: Survey Core Study
 SOURCE: WELL TYPE: Coal Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN	COMMENT
83.0	BOND	CARTHAGE	LIMESTONE	15.0	639.0	
-47.0	MODESTO	WEST FRANKLIN	LIMESTONE	20.0	769.0	
-182.0	CARBONDALE	DANVILLE	COAL	4.0	904.0	
-272.0	CARBONDALE	HERRIN	COAL	1.7	994.0	
-281.0	CARBONDALE	SPRINGFIELD	COAL	0.3	1003.0	
-371.0	CARBONDALE	HOUCHIN CREEK	COAL	9.0	1093.0	

MAPID: 02901089000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 14 QUARTERS/FOOTAGES: 1052' S line, 1625' W line of SW
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.391453 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.478565 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 719.0 LOGGED (FT.): 1090.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
89.0	BOND	CARTHAGE	LIMESTONE	8.0	630.0
-55.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	774.0
-173.0	CARBONDALE	DANVILLE	COAL	-	892.0
-259.0	CARBONDALE	HERRIN	COAL	3.5	978.0
-269.0	CARBONDALE	SPRINGFIELD	COAL	2.5	988.0
-371.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1090.0

MAPID: 02901102000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 15 QUARTERS/FOOTAGES: 1016' S line, 810' E line of SE NE
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.400238 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.485861 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 727.0 LOGGED (FT.): 1195.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
51.0	BOND	CARTHAGE	LIMESTONE	8.0	676.0
-79.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	806.0
-203.0	CARBONDALE	DANVILLE	COAL	-	930.0
-292.0	CARBONDALE	HERRIN	COAL	3.0	1019.0
-303.0	CARBONDALE	SPRINGFIELD	COAL	-	1030.0
-412.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1139.0
-468.0	CARBONDALE	COLCHESTER	COAL	-	1195.0

MAPID: 02901132000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 22 QUARTERS/FOOTAGES: NW SW SE
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.405824 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.464044 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 717.0 LOGGED (FT.): 1150.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
83.0	BOND	CARTHAGE	LIMESTONE	8.0	634.0
-50.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	767.0
-175.0	CARBONDALE	DANVILLE	COAL	-	892.0
-257.0	CARBONDALE	HERRIN	COAL	3.5	974.0
-271.0	CARBONDALE	SPRINGFIELD	COAL	-	988.0
-371.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1088.0
-433.0	CARBONDALE	COLCHESTER	COAL	-	1150.0

MAPID: 02901192000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 23 QUARTERS/FOOTAGES: 305' S line, 149' E line of NW SE
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.384106 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.465629 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 714.0 LOGGED (FT.): 1157.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
111.0	BOND	CARTHAGE	LIMESTONE	8.0	603.0
-19.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	733.0
-146.0	CARBONDALE	DANVILLE	COAL	-	860.0
-230.0	CARBONDALE	HERRIN	COAL	3.0	944.0
-238.0	CARBONDALE	SPRINGFIELD	COAL	-	952.0
-332.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1046.0
-400.0	CARBONDALE	COLCHESTER	COAL	-	1114.0
-438.0	SPOON	SEELYVILLE	COAL	5.0	1152.0

MAPID: 02900273000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 24 QUARTERS/FOOTAGES: SE NW SW
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.375425 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.465695 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 708.0 LOGGED (FT.): 1189.5 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: E SH, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
80.0	BOND	CARTHAGE	LIMESTONE	8.0	628.0	
-50.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	758.0	
-174.0	CARBONDALE	DANVILLE	COAL	3.0	882.0	
-265.0	CARBONDALE	HERRIN	COAL	4.0	973.0	
-275.0	CARBONDALE	SPRINGFIELD	COAL	-	983.0	
-370.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1078.0	
-441.0	CARBONDALE	COLCHESTER	COAL	-	1149.0	
-476.0	SPOON	SEELYVILLE	COAL	5.5	1184.0	

MAPID: 02900048000C VERSION: 1

PROJECT: CONTROL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 25 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NW NW
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.375434 GEOLOGIST: HINES
 CONFIDENTIAL: N LATITUDE: 39.458473 DATE COLLECTED:
 SURFACE ELEVATION (FT.): LOGGED (FT.): 2063.0 LOG TYPE: Survey Sample Study
 SOURCE: KEATING ANTHONY F WELL TYPE: Oil and Gas Test
 COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 02900501000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 25 QUARTERS/FOOTAGES: SE SW NE
 QUADRANGLE: MATTOON EAST LONGITUDE: -88.365953 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.454964 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 740.0 LOGGED (FT.): 1237.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: E SH, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
42.0	BOND	CARTHAGE	LIMESTONE	8.0	698.0	
-84.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	824.0	
-216.0	CARBONDALE	DANVILLE	COAL	3.5	956.0	
-296.0	CARBONDALE	HERRIN	COAL	4.0	1036.0	
-402.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1142.0	
-474.0	CARBONDALE	COLCHESTER	COAL	-	1214.0	
-494.0	SPOON	SEELYVILLE	COAL	3.0	1234.0	

MAPID: 02901242000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 26 QUARTERS/FOOTAGES: SW SW NE
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.386896 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.454911 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 727.0 LOGGED (FT.): 1163.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
95.0	BOND	CARTHAGE	LIMESTONE	8.0	632.0	
-33.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	760.0	
-157.0	CARBONDALE	DANVILLE	COAL	2.0	884.0	
-243.0	CARBONDALE	HERRIN	COAL	3.5	970.0	
-253.0	CARBONDALE	SPRINGFIELD	COAL	-	980.0	
-333.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1060.0	
-413.0	CARBONDALE	COLCHESTER	COAL	-	1140.0	
-432.0	SPOON	SEELYVILLE	COAL	4.0	1159.0	

MAPID: 02901261000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 27 QUARTERS/FOOTAGES: SE SE NW
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.408018 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.455054 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 733.0 LOGGED (FT.): 1188.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: E SH, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
69.0	BOND	CARTHAGE	LIMESTONE	8.0	664.0
-65.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	798.0
-186.0	CARBONDALE	DANVILLE	COAL	-	919.0
-279.0	CARBONDALE	HERRIN	COAL	3.0	1012.0
-392.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1125.0
-455.0	CARBONDALE	COLCHESTER	COAL	-	1188.0

MAPID: 02900258000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 32 QUARTERS/FOOTAGES: NE NE SE
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.43584 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.438772 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 732.0 LOGGED (FT.): 1406.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: E SH, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-108.0	BOND	CARTHAGE	LIMESTONE	8.0	840.0
-240.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	972.0
-378.0	CARBONDALE	DANVILLE	COAL	-	1110.0
-466.0	CARBONDALE	HERRIN	COAL	3.0	1198.0
-480.0	CARBONDALE	SPRINGFIELD	COAL	-	1212.0
-578.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1310.0
-674.0	CARBONDALE	COLCHESTER	COAL	-	1406.0

MAPID: 02901287000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 34 QUARTERS/FOOTAGES: SE NW SE
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.403297 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.437133 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 735.0 LOGGED (FT.): 1170.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: E SH, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
93.0	BOND	CARTHAGE	LIMESTONE	7.0	642.0	
-35.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	770.0	
-154.0	CARBONDALE	DANVILLE	COAL	-	889.0	
-245.0	CARBONDALE	HERRIN	COAL	4.0	980.0	
-345.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1080.0	
-417.0	CARBONDALE	COLCHESTER	COAL	-	1152.0	
-432.0	SPOON	SEELYVILLE	COAL	3.0	1167.0	

MAPID: 02901313000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 35 QUARTERS/FOOTAGES: NE NE SW
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.38919 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.438852 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 764.0 LOGGED (FT.): 1191.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: E SH,SPLIT #3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
93.0	BOND	CARTHAGE	LIMESTONE	7.0	671.0	
-35.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	799.0	
-157.0	CARBONDALE	DANVILLE	COAL	2.5	921.0	
-244.0	CARBONDALE	HERRIN	COAL	3.5	1008.0	
-338.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1102.0	
-414.0	CARBONDALE	COLCHESTER	COAL	-	1178.0	
-424.0	SPOON	SEELYVILLE	COAL	3.0	1188.0	

MAPID: 02901353000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 7E SECTION: 36 QUARTERS/FOOTAGES: NW SW NW
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.377353 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.442353 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 768.0 LOGGED (FT.): 1221.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: E SH, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
71.0	BOND	CARTHAGE	LIMESTONE	7.0	697.0	
-54.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	822.0	
-181.0	CARBONDALE	DANVILLE	COAL	3.0	949.0	
-266.0	CARBONDALE	HERRIN	COAL	4.0	1034.0	
-362.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1130.0	
-432.0	CARBONDALE	COLCHESTER	COAL	-	1200.0	
-450.0	SPOON	SEELYVILLE	COAL	3.0	1218.0	

MAPID: 02900255000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 8E SECTION: 5 QUARTERS/FOOTAGES: SW NE SE
 QUADRANGLE: HUMBOLDT LONGITUDE: -88.326379 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.510993 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 689.0 LOGGED (FT.): 1230.0 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	
-39.0	BOND	CARTHAGE	LIMESTONE	7.0	728.0	
-147.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	836.0	
-280.0	CARBONDALE	DANVILLE	COAL	-	969.0	
-371.0	CARBONDALE	HERRIN	COAL	-	1060.0	
-386.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1075.0	
-475.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1164.0	
-541.0	CARBONDALE	COLCHESTER	COAL	-	1230.0	

MAPID: 02900278000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 8E SECTION: 7 QUARTERS/FOOTAGES: SW SW SW
 QUADRANGLE: MATTOON EAST LONGITUDE: -88.359142 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.491398 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 711.0 LOGGED (FT.): 1222.0 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	
23.0	BOND	CARTHAGE	LIMESTONE	7.0	688.0	
-114.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	825.0	
-243.0	CARBONDALE	DANVILLE	COAL	-	954.0	
-337.0	CARBONDALE	HERRIN	COAL	-	1048.0	
-347.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1058.0	
-454.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1165.0	
-511.0	CARBONDALE	COLCHESTER	COAL	-	1222.0	

MAPID: 02900279000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 8E SECTION: 20 QUARTERS/FOOTAGES: SW SW NW
 QUADRANGLE: MATTOON EAST LONGITUDE: -88.34044 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.470003 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 706.0 LOGGED (FT.): 1316.0 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	
-26.0	BOND	CARTHAGE	LIMESTONE	5.0	732.0	
-156.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	862.0	
-290.0	CARBONDALE	DANVILLE	COAL	2.5	996.0	
-398.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1104.0	
-494.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1200.0	
-561.0	CARBONDALE	COLCHESTER	COAL	-	1267.0	
-605.0	SPOON	SEELYVILLE	COAL	5.0	1311.0	

MAPID: 0290028000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 8E SECTION: 24 QUARTERS/FOOTAGES: 975' N line, 315' E line of SE
 QUADRANGLE: MATTOON EAST LONGITUDE: -88.24935 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.467971 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 632.0 LOGGED (FT.): 1185.0 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
-88.0	BOND	CARTHAGE	LIMESTONE	7.0	720.0
-212.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	844.0
-328.0	CARBONDALE	DANVILLE	COAL	-	960.0
-448.0	CARBONDALE	HERRIN	COAL	-	1080.0
-458.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1090.0
-553.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1185.0

MAPID: 02902278000C VERSION: 1

PROJECT: NCRDS88

COUNTY: COLES TWP/RNG: 12N 8E SECTION: 26 QUARTERS/FOOTAGES: SE NW
 QUADRANGLE: MATTOON EAST LONGITUDE: -88.278143 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.457124 DATE COLLECTED: 0 / 0 / 1916
 SURFACE ELEVATION (FT.): LOGGED (FT.): 133.0 LOG TYPE: Drillers Log
 SOURCE: W.G. WELSH WELL TYPE: Coal Test
 COMMENT: 3 MI. S. OF LOXA ON KICKAPOO RD.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			UNCONSOLIDATED	118.0	0.0
-			LIMESTONE	10.0	118.0
-			COAL	5.0	128.0

MAPID: 02900259000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 8E SECTION: 27 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: MATTOON EAST LONGITUDE: -88.286199 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.448821 DATE COLLECTED:

SURFACE ELEVATION (FT.): 714.0 LOGGED (FT.): 1339.0 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	
-35.0	BOND	CARTHAGE	LIMESTONE	4.0	749.0	
-176.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	890.0	
-296.0	CARBONDALE	DANVILLE	COAL	4.0	1010.0	
-386.0	CARBONDALE	HERRIN	COAL	-	1100.0	
-404.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1118.0	
-500.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1214.0	
-576.0	CARBONDALE	COLCHESTER	COAL	-	1290.0	
-620.0	SPOON	SEELYVILLE	COAL	5.0	1334.0	

MAPID: 02900281000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 8E SECTION: 28 QUARTERS/FOOTAGES: SW SW NE

QUADRANGLE: MATTOON EAST LONGITUDE: -88.311892 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.455873 DATE COLLECTED:

SURFACE ELEVATION (FT.): 711.0 LOGGED (FT.): 1297.0 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	5.0	754.0	
-174.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	885.0	
-309.0	CARBONDALE	DANVILLE	COAL	-	1020.0	
-395.0	CARBONDALE	HERRIN	COAL	3.5	1106.0	
-410.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1121.0	
-516.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1227.0	
-586.0	CARBONDALE	COLCHESTER	COAL	-	1297.0	

MAPID: 02900282000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 8E SECTION: 31 QUARTERS/FOOTAGES: NE SE NW
 QUADRANGLE: MATTOON EAST LONGITUDE: -88.351898 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.442499 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 763.0 LOGGED (FT.): 1318.0 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
-8.0	BOND	CARTHAGE	LIMESTONE	10.0	771.0
-133.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	896.0
-267.0	CARBONDALE	DANVILLE	COAL	3.0	1030.0
-368.0	CARBONDALE	HERRIN	COAL	6.0	1131.0
-457.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1220.0
-529.0	CARBONDALE	COLCHESTER	COAL	-	1292.0
-551.0	SPOON	SEELYVILLE	COAL	4.0	1314.0

MAPID: 02900284000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 8E SECTION: 32 QUARTERS/FOOTAGES: 335' N line, 325' E line of SW NW
 QUADRANGLE: MATTOON EAST LONGITUDE: -88.337911 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.442808 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 770.0 LOGGED (FT.): 1314.0 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
-18.0	BOND	CARTHAGE	LIMESTONE	8.0	788.0
-145.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	915.0
-280.0	CARBONDALE	DANVILLE	COAL	3.0	1050.0
-373.0	CARBONDALE	HERRIN	COAL	3.5	1143.0
-381.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1151.0
-486.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1256.0
-544.0	CARBONDALE	COLCHESTER	COAL	-	1314.0

MAPID: 02900066000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 9E SECTION: 3 QUARTERS/FOOTAGES: NE SE SE
 QUADRANGLE: CHARLESTON NORTH LONGITUDE: -88.17836 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.508831 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 730.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
334.0	BOND	CARTHAGE	LIMESTONE	7.0	328.0
236.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	426.0
157.0	CARBONDALE	DANVILLE	COAL	-	505.0
82.0	CARBONDALE	HERRIN	COAL	4.0	580.0
61.0	CARBONDALE	SPRINGFIELD	COAL	3.5	601.0
-62.0	SPOON	SEELYVILLE	COAL	6.0	724.0

MAPID: 02900066000C VERSION: 2

PROJECT: CONTROL

COUNTY: COLES TWP/RNG: 12N 9E SECTION: 3 QUARTERS/FOOTAGES: NE SE SE
 QUADRANGLE: CHARLESTON NORTH LONGITUDE: -88.17836 GEOLOGIST: HINES
 CONFIDENTIAL: N LATITUDE: 39.508831 DATE COLLECTED:
 SURFACE ELEVATION (FT.): LOGGED (FT.): 2185.0 LOG TYPE: Survey Sample Study
 SOURCE: ZINK, EARNEST 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: 02900333000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 9E SECTION: 4 QUARTERS/FOOTAGES: NW NE SW
 QUADRANGLE: CHARLESTON NORTH LONGITUDE: -88.208873 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.512547 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 1325.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-105.0	BOND	CARTHAGE	LIMESTONE	8.0	765.0
-215.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	875.0
-346.0	CARBONDALE	DANVILLE	COAL	-	1006.0
-434.0	CARBONDALE	HERRIN	COAL	3.0	1094.0
-460.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1120.0
-626.0	CARBONDALE	COLCHESTER	COAL	-	1286.0
-660.0	SPOON	SEELYVILLE	COAL	5.0	1320.0

MAPID: 02922795000C VERSION: 1

PROJECT: NCRDS87

COUNTY: COLES TWP/RNG: 12N 9E SECTION: 9 QUARTERS/FOOTAGES: 330' S line, 1100' E line

QUADRANGLE: CHARLESTON SOUTH LONGITUDE: -88.199649 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 39.492497 DATE COLLECTED: 3 / 20 / 1979

SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 1120.7 LOG TYPE: Survey Core Study

SOURCE: ILL. ST. GEOL. SURV. WELL TYPE: Coal Test

COMMENT: CORE DESCRIBED BY POPP & NELSON OF ISGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			UNCONSOLIDATED	92.0	0.0	
528.0	MATTOON	GREENUP	LIMESTONE	7.0	92.0	
521.0	MATTOON		UNCLASSIFIED	44.4	99.0	
476.6	MATTOON		BLACK SHALE	5.6	143.4	
471.0	MATTOON		UNCLASSIFIED	16.0	149.0	
455.0	MATTOON		BLACK SHALE	2.5	165.0	
452.5	MATTOON		UNCLASSIFIED	127.8	167.5	
324.7	MATTOON		BLACK SHALE	4.7	295.3	
320.0	MATTOON		LIMESTONE	1.8	300.0	
318.2	MATTOON		UNCLASSIFIED	180.7	301.8	
137.5	MATTOON		BLACK SHALE	1.2	482.5	
136.3	MATTOON		UNCLASSIFIED	19.6	483.7	
116.7	MATTOON	LOUDON	COAL	1.9	503.3	CORRELATION UNSUBSTANTIATED
114.8	MATTOON		UNCLASSIFIED	10.6	505.2	
104.2	MATTOON		BONE COAL	1.0	515.8	
103.2	MATTOON		UNCLASSIFIED	11.6	516.8	
91.6	BOND	MILLERSVILLE	LIMESTONE	14.2	528.4	UPPER BENCH
77.4	BOND	MILLERSVILLE	UNCLASSIFIED	10.0	542.6	
67.4	BOND	MILLERSVILLE	LIMESTONE	7.0	552.6	LOWER BENCH
60.4	BOND		BLACK SHALE	2.4	559.6	
58.0	BOND		COAL	0.1	562.0	
57.9	BOND		UNCLASSIFIED	96.0	562.1	
-38.1	BOND		BLACK SHALE	2.8	658.1	UNCERTAIN CORRELATION
-40.9	BOND		UNCLASSIFIED	1.0	660.9	
-41.9	BOND		COAL	0.8	661.9	
-42.7	BOND		UNCLASSIFIED	37.7	662.7	
-80.4	BOND		COAL	1.3	700.4	
-81.7	BOND		UNCLASSIFIED	3.1	701.7	
-84.8	BOND		COAL	0.3	704.8	
-85.1	BOND		UNCLASSIFIED	22.3	705.1	
-107.4	BOND	CARTHAGE	GRAY LIMESTONE	1.0	727.4	UPPER BENCH
-108.4	BOND	CARTHAGE	UNCLASSIFIED	1.0	728.4	
-109.4	BOND	CARTHAGE	GRAY LIMESTONE	6.4	729.4	LOWER BENCH
-115.8	MODESTO		BLACK SHALE	2.0	735.8	
-117.8	MODESTO		UNCLASSIFIED	33.4	737.8	
-151.2	MODESTO		GRAY LIMESTONE	2.0	771.2	
-153.2	MODESTO		UNCLASSIFIED	1.4	773.2	
-154.6	MODESTO		BLACK SHALE	1.7	774.6	
-156.3	MODESTO		COAL	0.5	776.3	

-156.8	MODESTO		UNCLASSIFIED	68.2	776.8	
-225.0	MODESTO		BLACK SHALE	2.1	845.0	
-227.1	MODESTO	CHAPEL	COAL	0.9	847.1	
-228.0	MODESTO	WEST FRANKLIN	UNCLASSIFIED	5.7	848.0	
-233.7	MODESTO	WEST FRANKLIN	GRAY LIMESTONE	5.8	853.7	UPPER BENCH
-239.5	MODESTO		UNCLASSIFIED	1.2	859.5	
-240.7	MODESTO	WEST FRANKLIN	GRAY LIMESTONE	0.8	860.7	LOWER BENCH
-241.5	MODESTO		UNCLASSIFIED	14.3	861.5	
-255.8	MODESTO	WEST FRANKLIN	GRAY LIMESTONE	3.2	875.8	PERHAPS A SEPARATE LS
-259.0	MODESTO		UNCLASSIFIED	83.8	879.0	
-342.8	CARBONDALE	DANVILLE	COAL	2.6	962.8	
-345.4	CARBONDALE		UNCLASSIFIED	6.5	965.4	
-351.9	CARBONDALE	BANKSTON FORK	GRAY LIMESTONE	4.9	971.9	
-356.8	CARBONDALE		UNCLASSIFIED	86.8	976.8	
-443.6	CARBONDALE	ENERGY	BLACK SHALE	3.0	1063.6	
-446.6	CARBONDALE	HERRIN	COAL	2.5	1066.6	
-449.1	CARBONDALE		UNCLASSIFIED	20.3	1069.1	
-469.4	CARBONDALE	TURNER MINE	BLACK SHALE	2.2	1089.4	
-471.6	CARBONDALE	SPRINGFIELD	COAL	4.4	1091.6	
-476.0	CARBONDALE		UNCLASSIFIED	2.4	1096.0	
-478.4	CARBONDALE		GRAY LIMESTONE	4.5	1098.4	
-482.9	CARBONDALE		UNCLASSIFIED	2.0	1102.9	
-484.9	CARBONDALE		GRAY LIMESTONE	2.6	1104.9	
-487.5	CARBONDALE		UNCLASSIFIED	13.2	1107.5	

MAPID: 02900650000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 9E SECTION: 21 QUARTERS/FOOTAGES: NW NW SW

QUADRANGLE: CHARLESTON SOUTH LONGITUDE: -88.213488 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.469098 DATE COLLECTED:

SURFACE ELEVATION (FT.): 649.0 LOGGED (FT.): 1348.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-110.0	BOND	CARTHAGE	LIMESTONE	7.0	759.0	
-230.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	879.0	
-336.0	CARBONDALE	DANVILLE	COAL	2.5	985.0	
-462.0	CARBONDALE	HERRIN	COAL	3.0	1111.0	
-488.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1137.0	
-607.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1256.0	
-695.0	SPOON	SEELYVILLE	COAL	4.0	1344.0	

MAPID: 02900276000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 9E SECTION: 35 QUARTERS/FOOTAGES: 330' N line, 900' E line of NW SW

QUADRANGLE: CHARLESTON SOUTH LONGITUDE: -88.175475 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.440152 DATE COLLECTED:

SURFACE ELEVATION (FT.): 586.0 LOGGED (FT.): 990.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
36.0	BOND	CARTHAGE	LIMESTONE	4.0	550.0	
-94.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	680.0	
-179.0	CARBONDALE	DANVILLE	COAL	-	765.0	
-299.0	CARBONDALE	HERRIN	COAL	3.0	885.0	
-323.0	CARBONDALE	SPRINGFIELD	COAL	3.0	909.0	
-396.0	CARBONDALE	HOUCHIN CREEK	COAL	-	982.0	
-401.0	SPOON	SEELYVILLE	COAL	3.0	987.0	

MAPID: 02900275000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 9E SECTION: 36 QUARTERS/FOOTAGES: SW SW NE

QUADRANGLE: CHARLESTON SOUTH LONGITUDE: -88.147633 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.442026 DATE COLLECTED:

SURFACE ELEVATION (FT.): 705.0 LOGGED (FT.): 957.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
173.0	BOND	CARTHAGE	LIMESTONE	-	532.0	
46.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	659.0	
-42.0	CARBONDALE	DANVILLE	COAL	-	747.0	
-167.0	CARBONDALE	HERRIN	COAL	2.0	872.0	
-187.0	CARBONDALE	SPRINGFIELD	COAL	3.5	892.0	
-252.0	CARBONDALE	HOUCHIN CREEK	COAL	-	957.0	

MAPID: 02901717000C VERSION: 1

PROJECT: CGT-MISC

COUNTY: COLES TWP/RNG: 12N 10E SECTION: 12 QUARTERS/FOOTAGES: 1425' S line, 300' E line

QUADRANGLE: WESTFIELD WEST LONGITUDE: -88.027769 GEOLOGIST: C.TREWORGY

CONFIDENTIAL: N LATITUDE: 39.497039 DATE COLLECTED: 12 / 1 / 1962

SURFACE ELEVATION (FT.): 713.0 LOGGED (FT.): 0.0 LOG TYPE: Electric Log

SOURCE: CENTRAL IL PUBLIC SERVICE, WALTON NO. 6 WELL TYPE: Producer-Oil and Gas

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
571.0	CARBONDALE	DANVILLE	COAL	-	142.0	THICKNESS NOT ESTIMATED
463.0	CARBONDALE	HERRIN	COAL	-	250.0	THICKNESS NOT ESTIMATED
444.0	CARBONDALE	SPRINGFIELD	COAL	-	269.0	THICKNESS NOT ESTIMATED
412.0	CARBONDALE	HOUCHIN CREEK	COAL	-	301.0	THICKNESS NOT ESTIMATED
365.0	CARBONDALE	COLCHESTER	COAL	-	348.0	THICKNESS NOT ESTIMATED
360.0	SPOON	SEELYVILLE	COAL	-	353.0	THICKNESS NOT ESTIMATED

MAPID: 02902063000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 10E SECTION: 12 QUARTERS/FOOTAGES: 1780' N line, 180' E line of NE

QUADRANGLE: ASHMORE LONGITUDE: -88.02723 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.502877 DATE COLLECTED:

SURFACE ELEVATION (FT.): 693.0 LOGGED (FT.): 372.5 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
566.0	CARBONDALE	DANVILLE	COAL	3.0	127.0	
461.0	CARBONDALE	HERRIN	COAL	2.0	232.0	
443.0	CARBONDALE	SPRINGFIELD	COAL	1.5	250.0	
410.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	283.0	
353.0	CARBONDALE	COLCHESTER	COAL	1.5	340.0	
323.0	SPOON	SEELYVILLE	COAL	2.5	370.0	

MAPID: 02902012000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 10E SECTION: 13 QUARTERS/FOOTAGES: 40' N line, 620' E line of NW SE

QUADRANGLE: WESTFIELD WEST LONGITUDE: -88.033619 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.485774 DATE COLLECTED:

SURFACE ELEVATION (FT.): 737.0 LOGGED (FT.): 526.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GY SH #6, POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0	CARBONDALE	DANVILLE	COAL	3.5	297.0	
326.0	CARBONDALE	HERRIN	COAL	-	411.0	
309.0	CARBONDALE	SPRINGFIELD	COAL	-	428.0	
277.0	CARBONDALE	HOUCHIN CREEK	COAL	-	460.0	
211.0	CARBONDALE	COLCHESTER	COAL	-	526.0	

MAPID: 02900257000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 10E SECTION: 15 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE NE

QUADRANGLE: WESTFIELD WEST LONGITUDE: -88.064857 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.49015 DATE COLLECTED:

SURFACE ELEVATION (FT.): 710.0 LOGGED (FT.): 724.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GY SH #6, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
230.0	CARBONDALE	DANVILLE	COAL	-	480.0	
115.0	CARBONDALE	HERRIN	COAL	2.5	595.0	
95.0	CARBONDALE	SPRINGFIELD	COAL	2.0	615.0	
60.0	CARBONDALE	HOUCHIN CREEK	COAL	-	650.0	
0.0	CARBONDALE	COLCHESTER	COAL	-	710.0	
-14.0	SPOON	SEELYVILLE	COAL	-	724.0	

MAPID: 02900342000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 10E SECTION: 19 QUARTERS/FOOTAGES: NW NE SE
 QUADRANGLE: WESTFIELD WEST LONGITUDE: -88.123161 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.469036 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 585.0 LOGGED (FT.): 590.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
342.0	BOND	CARTHAGE	LIMESTONE	3.0	243.0	
153.0	CARBONDALE	DANVILLE	COAL	-	432.0	
41.0	CARBONDALE	HERRIN	COAL	2.0	544.0	
23.0	CARBONDALE	SPRINGFIELD	COAL	-	562.0	
-5.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0	

MAPID: 02900026000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 10E SECTION: 21 QUARTERS/FOOTAGES: 230' S line, 230' W line of SE SE
 QUADRANGLE: WESTFIELD WEST LONGITUDE: -88.08606 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.464067 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 643.0 LOGGED (FT.): 710.0 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
193.0	CARBONDALE	DANVILLE	COAL	-	450.0	
78.0	CARBONDALE	HERRIN	COAL	2.0	565.0	
56.0	CARBONDALE	SPRINGFIELD	COAL	3.0	587.0	
-67.0	SPOON	SEELYVILLE	COAL	-	710.0	

MAPID: 02902159000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 11E SECTION: 7 QUARTERS/FOOTAGES: 610' N line, 2126' E line of SE
 QUADRANGLE: ASHMORE LONGITUDE: -88.022159 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.500974 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 703.0 LOGGED (FT.): 332.0 LOG TYPE: Nuclear Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, SPLT, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
593.0	CARBONDALE	DANVILLE	COAL	-	110.0	
487.0	CARBONDALE	HERRIN	COAL	2.0	216.0	
466.0	CARBONDALE	SPRINGFIELD	COAL	1.0	237.0	
435.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	268.0	
384.0	CARBONDALE	COLCHESTER	COAL	-	319.0	
373.0	SPOON	SEELYVILLE	COAL	2.0	330.0	

MAPID: 02902059000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 11E SECTION: 18 QUARTERS/FOOTAGES: 990' N line, 1650' E line of SE

QUADRANGLE: WESTFIELD WEST LONGITUDE: -88.020163 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.485238 DATE COLLECTED:

SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 360.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GY SH,SPLIT 6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
587.0	CARBONDALE	DANVILLE	COAL	2.0	138.0
483.0	CARBONDALE	HERRIN	COAL	-	242.0
462.0	CARBONDALE	SPRINGFIELD	COAL	-	263.0
431.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	294.0
377.0	CARBONDALE	COLCHESTER	COAL	-	348.0
368.0	SPOON	SEELYVILLE	COAL	3.0	357.0

MAPID: 02901890000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 14W SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW SW

QUADRANGLE: ASHMORE LONGITUDE: -88.01325 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.514332 DATE COLLECTED:

SURFACE ELEVATION (FT.): 690.0 LOGGED (FT.): 316.0 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
469.0	CARBONDALE	HERRIN	COAL	-	221.0
459.0	CARBONDALE	SPRINGFIELD	COAL	-	231.0
436.0	CARBONDALE	HOUCHIN CREEK	COAL	-	254.0
384.0	CARBONDALE	COLCHESTER	COAL	-	306.0
374.0	SPOON	SEELYVILLE	COAL	-	316.0

MAPID: 02901716000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 14W SECTION: 7 QUARTERS/FOOTAGES: 400' N line, 15' W line of SW

QUADRANGLE: ASHMORE LONGITUDE: -88.014518 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.501204 DATE COLLECTED:

SURFACE ELEVATION (FT.): 715.0 LOGGED (FT.): 357.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: SPLIT 6?, POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
575.0	CARBONDALE	DANVILLE	COAL	-	140.0
467.0	CARBONDALE	HERRIN	COAL	-	248.0
450.0	CARBONDALE	SPRINGFIELD	COAL	-	265.0
420.0	CARBONDALE	HOUCHIN CREEK	COAL	-	295.0
370.0	CARBONDALE	COLCHESTER	COAL	-	345.0
358.0	SPOON	SEELYVILLE	COAL	-	357.0

MAPID: 02900585000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 14W SECTION: 17 QUARTERS/FOOTAGES: SE SW NW

QUADRANGLE: WESTFIELD EAST LONGITUDE: -87.994513 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.48897 DATE COLLECTED:

SURFACE ELEVATION (FT.): 710.0 LOGGED (FT.): 421.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: 685 OUT?, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
534.0	CARBONDALE	DANVILLE	COAL	-	176.0
359.0	CARBONDALE	HOUCHIN CREEK	COAL	-	351.0
305.0	CARBONDALE	COLCHESTER	COAL	-	405.0
291.0	SPOON	SEELYVILLE	COAL	2.5	419.0

MAPID: 02902168000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 12N 14W SECTION: 18 QUARTERS/FOOTAGES: 330' N line, 1650' W line of SW

QUADRANGLE: WESTFIELD WEST LONGITUDE: -88.008469 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.486951 DATE COLLECTED:

SURFACE ELEVATION (FT.): 722.0 LOGGED (FT.): 386.5 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: SPLIT 6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
561.0	CARBONDALE	DANVILLE	COAL	2.0	161.0
450.0	CARBONDALE	HERRIN	COAL	2.0	272.0
433.0	CARBONDALE	SPRINGFIELD	COAL	-	289.0
402.0	CARBONDALE	HOUCHIN CREEK	COAL	1.5	320.0
351.0	CARBONDALE	COLCHESTER	COAL	-	371.0
339.0	SPOON	SEELYVILLE	COAL	3.5	383.0

MAPID: 02901438000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 2 QUARTERS/FOOTAGES: SW NE SW

QUADRANGLE: COOKS MILLS LONGITUDE: -88.390603 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.597997 DATE COLLECTED:

SURFACE ELEVATION (FT.): 658.0 LOGGED (FT.): 1074.0 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
66.0	BOND	CARTHAGE	LIMESTONE	6.0	592.0
-57.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	715.0
-176.0	CARBONDALE	DANVILLE	COAL	-	834.0
-246.0	CARBONDALE	HERRIN	COAL	-	904.0
-261.0	CARBONDALE	SPRINGFIELD	COAL	-	919.0
-352.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1010.0
-416.0	CARBONDALE	COLCHESTER	COAL	-	1074.0

MAPID: 02900401000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 3 QUARTERS/FOOTAGES: NE SE NW
 QUADRANGLE: COOKS MILLS LONGITUDE: -88.406811 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.60364 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 657.0 LOGGED (FT.): 1103.0 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
73.0	BOND	CARTHAGE	LIMESTONE	7.0	584.0
-48.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	705.0
-179.0	CARBONDALE	DANVILLE	COAL	-	836.0
-241.0	CARBONDALE	HERRIN	COAL	-	898.0
-267.0	CARBONDALE	SPRINGFIELD	COAL	-	924.0
-363.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1020.0
-424.0	CARBONDALE	COLCHESTER	COAL	-	1081.0
-446.0	SPOON	SEELYVILLE	COAL	-	1103.0

MAPID: 02900588000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 4 QUARTERS/FOOTAGES: NE NE SW
 QUADRANGLE: COOKS MILLS LONGITUDE: -88.425527 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.599976 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 1130.0 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	6.0	620.0
-84.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	746.0
-211.0	CARBONDALE	DANVILLE	COAL	-	873.0
-285.0	CARBONDALE	HERRIN	COAL	-	947.0
-306.0	CARBONDALE	SPRINGFIELD	COAL	-	968.0
-412.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1074.0
-468.0	CARBONDALE	COLCHESTER	COAL	-	1130.0

MAPID: 02900197000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 8 QUARTERS/FOOTAGES: SE SW NE
 QUADRANGLE: COOKS MILLS LONGITUDE: -88.439838 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.587048 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 659.0 LOGGED (FT.): 1149.0 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	
6.0	BOND	CARTHAGE	LIMESTONE	7.0	653.0	
-126.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	785.0	
-253.0	CARBONDALE	DANVILLE	COAL	2.0	912.0	
-311.0	CARBONDALE	HERRIN	COAL	-	970.0	
-336.0	CARBONDALE	SPRINGFIELD	COAL	2.0	995.0	
-432.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1091.0	
-490.0	CARBONDALE	COLCHESTER	COAL	-	1149.0	

MAPID: 02900488000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 9 QUARTERS/FOOTAGES: NE SE NW
 QUADRANGLE: COOKS MILLS LONGITUDE: -88.425708 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.588836 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 652.0 LOGGED (FT.): 1115.5 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
50.0	BOND	CARTHAGE	LIMESTONE	5.0	602.0	
-82.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	734.0	
-201.0	CARBONDALE	DANVILLE	COAL	-	853.0	
-260.0	CARBONDALE	HERRIN	COAL	-	912.0	
-284.0	CARBONDALE	SPRINGFIELD	COAL	2.0	936.0	
-382.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1034.0	
-438.0	CARBONDALE	COLCHESTER	COAL	-	1090.0	
-460.0	SPOON	SEELYVILLE	COAL	3.5	1112.0	

MAPID: 02900050000C VERSION: 1

PROJECT: NCRDS88

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 10 QUARTERS/FOOTAGES: 990' S line, 990' W line of SE

QUADRANGLE: COOKS MILLS LONGITUDE: -88.402472 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.581676 DATE COLLECTED: 2 / 0 / 1946

SURFACE ELEVATION (FT.): 668.0 LOGGED (FT.): 1000.0 LOG TYPE: Drillers Log

SOURCE: WALTER DUNCAN WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
354.0	MATTOON		SANDSTONE	16.0	314.0
338.0	MATTOON		BLACK SHALE	1.0	330.0
337.0	MATTOON		COAL	2.0	331.0
335.0	MATTOON		CLAYSTONE	3.0	333.0
332.0	MATTOON		SHALE	4.0	336.0
328.0	MATTOON		SANDSTONE	5.0	340.0
323.0	MATTOON		SHALE	30.0	345.0
293.0	MATTOON		COAL	1.0	375.0
292.0	MATTOON		UNDERCLAY	2.0	376.0
290.0	MATTOON		SHALE	15.0	378.0
275.0	MATTOON		COAL	1.0	393.0
274.0	MATTOON		GRAY SHALE	16.0	394.0
258.0	MATTOON		BLACK SHALE	2.0	410.0
256.0	MATTOON		COAL	2.0	412.0
254.0	MATTOON		GRAY SHALE	2.0	414.0
252.0	MATTOON		LIMESTONE	3.0	416.0
249.0	MATTOON		GRAY SHALE	9.0	419.0
240.0	BOND	MILLERSVILLE	LIMESTONE	20.0	428.0
220.0	BOND		GRAY SHALE	32.0	448.0
188.0	BOND		BLACK SHALE	3.0	480.0
185.0	BOND		COAL	2.0	483.0
183.0	BOND		GRAY SHALE	2.0	485.0
181.0	BOND		SANDSTONE	15.0	487.0
166.0	BOND		SILTSTONE	10.0	502.0
156.0	BOND		SHALE	45.0	512.0
111.0	BOND		BLACK SHALE	2.0	557.0
109.0	BOND		COAL	3.0	559.0
106.0	BOND		UNDERCLAY	2.0	562.0
104.0	BOND		SANDSTONE	8.0	564.0
96.0	BOND		GRAY SHALE	18.0	572.0
78.0	BOND		BLACK SHALE	3.0	590.0
75.0	BOND		COAL	1.0	593.0
74.0	BOND		UNDERCLAY	2.0	594.0
72.0	BOND		SHALE	25.0	596.0
47.0	BOND	CARTHAGE	LIMESTONE	7.0	621.0
40.0	MODESTO		BLACK SHALE	2.0	628.0
38.0	MODESTO		GRAY SHALE	37.0	630.0
1.0	MODESTO		BLACK SHALE	2.0	667.0
-1.0	MODESTO		COAL	1.0	669.0

-2.0	MODESTO		GRAY SHALE	12.0	670.0
-14.0	MODESTO		SANDSTONE	8.0	682.0
-22.0	MODESTO		SILTSTONE	14.0	690.0
-36.0	MODESTO		SANDSTONE	6.0	704.0
-42.0	MODESTO		GRAY SHALE	24.0	710.0
-66.0	MODESTO		BLACK SHALE	2.0	734.0
-68.0	MODESTO		COAL	1.0	736.0
-69.0	MODESTO		SHALE	9.0	737.0
-78.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	746.0
-85.0	MODESTO		SHALE	20.0	753.0
-105.0	MODESTO		SANDSTONE	17.0	773.0
-122.0	MODESTO		SHALE	79.0	790.0
-201.0	MODESTO		BLACK SHALE	2.0	869.0
-203.0	CARBONDALE	DANVILLE	COAL	4.0	871.0
-207.0	CARBONDALE		UNDERCLAY	1.0	875.0
-208.0	CARBONDALE		SHALE	9.0	876.0
-217.0	CARBONDALE		DOLOMITE	3.0	885.0
-220.0	CARBONDALE	ENERGY	SANDSTONE	13.0	888.0
-233.0	CARBONDALE	ENERGY	BLACK SHALE	1.0	901.0
-234.0	CARBONDALE	ENERGY	GRAY SHALE	34.0	902.0
-268.0	CARBONDALE	ENERGY	BLACK SHALE	2.0	936.0
-270.0	CARBONDALE	HERRIN	COAL	2.0	938.0
-272.0	CARBONDALE		UNDERCLAY	2.0	940.0
-274.0	CARBONDALE		SHALE	17.0	942.0
-291.0	CARBONDALE		LIMESTONE	1.0	959.0
-292.0	CARBONDALE		BLACK SHALE	2.0	960.0
-294.0	CARBONDALE		SHALE	12.0	962.0
-306.0	CARBONDALE		SANDSTONE	11.0	974.0
-317.0	CARBONDALE		GRAY SHALE	15.0	985.0

MAPID: 02900050000C VERSION: 2

PROJECT: CONTROL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 10 QUARTERS/FOOTAGES: 990' S line, 990' W line of SE

QUADRANGLE: COOKS MILLS

LONGITUDE: -88.402472

GEOLOGIST: HINES

CONFIDENTIAL: N

LATITUDE: 39.581676

DATE COLLECTED:

SURFACE ELEVATION (FT.):

LOGGED (FT.): 1958.0

LOG TYPE: Survey Sample Study

SOURCE: DUNCAN, WALTER

WELL TYPE: Oil and Gas Test

COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 02900223000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 10 QUARTERS/FOOTAGES: NW NW SE
 QUADRANGLE: COOKS MILLS LONGITUDE: -88.404804 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.585211 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 667.0 LOGGED (FT.): 1103.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
50.0	BOND	CARTHAGE	LIMESTONE	7.0	617.0	
-76.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	743.0	
-195.0	CARBONDALE	DANVILLE	COAL	2.5	862.0	
-254.0	CARBONDALE	HERRIN	COAL	-	921.0	
-277.0	CARBONDALE	SPRINGFIELD	COAL	2.0	944.0	
-378.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1045.0	
-436.0	CARBONDALE	COLCHESTER	COAL	-	1103.0	

MAPID: 02900339000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 11 QUARTERS/FOOTAGES: NE NW NW
 QUADRANGLE: COOKS MILLS LONGITUDE: -88.393102 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.59247 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 664.0 LOGGED (FT.): 1092.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
64.0	BOND	CARTHAGE	LIMESTONE	7.0	600.0	
-60.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	724.0	
-182.0	CARBONDALE	DANVILLE	COAL	2.0	846.0	
-251.0	CARBONDALE	HERRIN	COAL	-	915.0	
-274.0	CARBONDALE	SPRINGFIELD	COAL	-	938.0	
-365.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1029.0	
-428.0	CARBONDALE	COLCHESTER	COAL	-	1092.0	

MAPID: 02900340000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 12 QUARTERS/FOOTAGES: SE NE NW
 QUADRANGLE: HUMBOLDT LONGITUDE: -88.369886 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.590816 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 1151.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-90.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	755.0	
-204.0	CARBONDALE	DANVILLE	COAL	-	869.0	
-261.0	CARBONDALE	HERRIN	COAL	-	926.0	
-287.0	CARBONDALE	SPRINGFIELD	COAL	-	952.0	
-385.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1050.0	
-449.0	CARBONDALE	COLCHESTER	COAL	-	1114.0	
-483.0	SPOON	SEELYVILLE	COAL	3.0	1148.0	

MAPID: 02900251000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 14 QUARTERS/FOOTAGES: NW SW NW
 QUADRANGLE: COOKS MILLS LONGITUDE: -88.395765 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.574413 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 668.0 LOGGED (FT.): 1116.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
50.0	BOND	CARTHAGE	LIMESTONE	10.0	618.0	
-74.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	742.0	
-207.0	CARBONDALE	DANVILLE	COAL	-	875.0	
-272.0	CARBONDALE	HERRIN	COAL	-	940.0	
-290.0	CARBONDALE	SPRINGFIELD	COAL	2.0	958.0	
-382.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1050.0	
-448.0	CARBONDALE	COLCHESTER	COAL	-	1116.0	

MAPID: 02900353000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 15 QUARTERS/FOOTAGES: SW NE NW
 QUADRANGLE: COOKS MILLS LONGITUDE: -88.409575 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.576121 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 663.0 LOGGED (FT.): 1090.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
57.0	BOND	CARTHAGE	LIMESTONE	6.0	606.0	
-64.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	727.0	
-189.0	CARBONDALE	DANVILLE	COAL	-	852.0	
-252.0	CARBONDALE	HERRIN	COAL	-	915.0	
-272.0	CARBONDALE	SPRINGFIELD	COAL	2.0	935.0	
-375.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1038.0	
-427.0	CARBONDALE	COLCHESTER	COAL	-	1090.0	

MAPID: 02900421000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 16 QUARTERS/FOOTAGES: NW NW SE
 QUADRANGLE: COOKS MILLS LONGITUDE: -88.423729 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.570593 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 632.0 LOGGED (FT.): 1107.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
54.0	BOND	CARTHAGE	LIMESTONE	7.0	578.0	
-72.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	704.0	
-197.0	CARBONDALE	DANVILLE	COAL	2.5	829.0	
-258.0	CARBONDALE	HERRIN	COAL	-	890.0	
-278.0	CARBONDALE	SPRINGFIELD	COAL	-	910.0	
-378.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1010.0	
-433.0	CARBONDALE	COLCHESTER	COAL	-	1065.0	
-472.0	SPOON	SEELYVILLE	COAL	3.0	1104.0	

MAPID: 02900236000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 21 QUARTERS/FOOTAGES: NE NE NE
 QUADRANGLE: COOKS MILLS LONGITUDE: -88.416789 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.563294 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 1120.0 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	
41.0	BOND	CARTHAGE	LIMESTONE	7.0	614.0	
-82.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	737.0	
-225.0	CARBONDALE	DANVILLE	COAL	3.5	880.0	
-288.0	CARBONDALE	HERRIN	COAL	-	943.0	
-309.0	CARBONDALE	SPRINGFIELD	COAL	-	964.0	
-415.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1070.0	
-465.0	CARBONDALE	COLCHESTER	COAL	-	1120.0	

MAPID: 02900370000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 21 QUARTERS/FOOTAGES: SE NW SW
 QUADRANGLE: COOKS MILLS LONGITUDE: -88.43123 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.55433 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 1158.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
17.0	BOND	CARTHAGE	LIMESTONE	8.0	648.0	
-112.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	777.0	
-253.0	CARBONDALE	DANVILLE	COAL	3.5	918.0	
-310.0	CARBONDALE	HERRIN	COAL	-	975.0	
-329.0	CARBONDALE	SPRINGFIELD	COAL	3.5	994.0	
-430.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1095.0	
-493.0	CARBONDALE	COLCHESTER	COAL	-	1158.0	

MAPID: 02900714000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 22 QUARTERS/FOOTAGES: SE NW SE

QUADRANGLE: COOKS MILLS LONGITUDE: -88.403037 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.554346 DATE COLLECTED:

SURFACE ELEVATION (FT.): 674.0 LOGGED (FT.): 1149.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
48.0	BOND	CARTHAGE	LIMESTONE	7.0	626.0
-77.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	751.0
-208.0	CARBONDALE	DANVILLE	COAL	-	882.0
-276.0	CARBONDALE	HERRIN	COAL	-	950.0
-294.0	CARBONDALE	SPRINGFIELD	COAL	-	968.0
-395.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1069.0
-451.0	CARBONDALE	COLCHESTER	COAL	-	1125.0
-472.0	SPOON	SEELYVILLE	COAL	3.5	1146.0

MAPID: 02900391000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 23 QUARTERS/FOOTAGES: SW SE NW

QUADRANGLE: COOKS MILLS LONGITUDE: -88.391358 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.558002 DATE COLLECTED:

SURFACE ELEVATION (FT.): 671.0 LOGGED (FT.): 1150.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
42.0	BOND	CARTHAGE	LIMESTONE	6.0	629.0
-79.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	750.0
-211.0	CARBONDALE	DANVILLE	COAL	-	882.0
-279.0	CARBONDALE	HERRIN	COAL	-	950.0
-297.0	CARBONDALE	SPRINGFIELD	COAL	-	968.0
-394.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1065.0
-456.0	CARBONDALE	COLCHESTER	COAL	-	1127.0
-479.0	SPOON	SEELYVILLE	COAL	-	1150.0

MAPID: 02900659000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 26 QUARTERS/FOOTAGES: NW NE SW
 QUADRANGLE: COOKS MILLS LONGITUDE: -88.391387 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.541613 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 673.0 LOGGED (FT.): 1140.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
46.0	BOND	CARTHAGE	LIMESTONE	8.0	627.0
-82.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	755.0
-208.0	CARBONDALE	DANVILLE	COAL	-	881.0
-287.0	CARBONDALE	HERRIN	COAL	-	960.0
-302.0	CARBONDALE	SPRINGFIELD	COAL	3.5	975.0
-407.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1080.0
-467.0	CARBONDALE	COLCHESTER	COAL	-	1140.0

MAPID: 02901784000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 27 QUARTERS/FOOTAGES: 850' N line, 330' W line of NW NE
 QUADRANGLE: COOKS MILLS LONGITUDE: -88.405422 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.547492 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 679.0 LOGGED (FT.): 1169.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
36.0	BOND	CARTHAGE	LIMESTONE	4.0	643.0
-89.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	768.0
-220.0	CARBONDALE	DANVILLE	COAL	-	899.0
-290.0	CARBONDALE	HERRIN	COAL	-	969.0
-305.0	CARBONDALE	SPRINGFIELD	COAL	-	984.0
-405.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1084.0
-468.0	CARBONDALE	COLCHESTER	COAL	-	1147.0
-490.0	SPOON	SEELYVILLE	COAL	-	1169.0

MAPID: 02900253000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 32 QUARTERS/FOOTAGES: NE NE SW
 QUADRANGLE: COOKS MILLS LONGITUDE: -88.445267 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.527178 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 668.0 LOGGED (FT.): 1257.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-46.0	BOND	CARTHAGE	LIMESTONE	8.0	714.0
-179.0	MODESTO	WEST FRANKLIN	LIMESTONE	18.0	847.0
-325.0	CARBONDALE	DANVILLE	COAL	3.0	993.0
-384.0	CARBONDALE	HERRIN	COAL	-	1052.0
-402.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1070.0
-498.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1166.0
-565.0	CARBONDALE	COLCHESTER	COAL	-	1233.0
-589.0	SPOON	SEELYVILLE	COAL	-	1257.0

MAPID: 02901162000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 34 QUARTERS/FOOTAGES: SE SE SW
 QUADRANGLE: COOKS MILLS LONGITUDE: -88.407822 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.521488 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 693.0 LOGGED (FT.): 1229.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
11.0	BOND	CARTHAGE	LIMESTONE	10.0	682.0
-120.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	813.0
-241.0	CARBONDALE	DANVILLE	COAL	-	934.0
-311.0	CARBONDALE	HERRIN	COAL	-	1004.0
-327.0	CARBONDALE	SPRINGFIELD	COAL	-	1020.0
-441.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1134.0
-507.0	CARBONDALE	COLCHESTER	COAL	-	1200.0
-534.0	SPOON	SEELYVILLE	COAL	2.0	1227.0

MAPID: 02900569000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 7E SECTION: 35 QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: COOKS MILLS LONGITUDE: -88.386789 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.532526 DATE COLLECTED:

SURFACE ELEVATION (FT.): 681.0 LOGGED (FT.): 1194.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
32.0	BOND	CARTHAGE	LIMESTONE	9.0	649.0
-98.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	779.0
-226.0	CARBONDALE	DANVILLE	COAL	-	907.0
-306.0	CARBONDALE	HERRIN	COAL	-	987.0
-320.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1001.0
-429.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1110.0
-486.0	CARBONDALE	COLCHESTER	COAL	-	1167.0
-509.0	SPOON	SEELYVILLE	COAL	4.5	1190.0

MAPID: 02900437000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 8E SECTION: 2 QUARTERS/FOOTAGES: NW SE NE

QUADRANGLE: HUMBOLDT LONGITUDE: -88.269456 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.604225 DATE COLLECTED:

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 1200.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: SS ABOVE #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-152.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	814.0
-258.0	CARBONDALE	DANVILLE	COAL	2.5	920.0
-376.0	CARBONDALE	HERRIN	COAL	3.5	1038.0
-393.0	CARBONDALE	SPRINGFIELD	COAL	-	1055.0
-471.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1133.0
-538.0	CARBONDALE	COLCHESTER	COAL	-	1200.0

MAPID: 02900448000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 8E SECTION: 8 QUARTERS/FOOTAGES: SE NE SE

QUADRANGLE: HUMBOLDT LONGITUDE: -88.323807 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.583746 DATE COLLECTED:

SURFACE ELEVATION (FT.): 673.0 LOGGED (FT.): 1200.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: SS ABOVE #6, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-31.0	BOND	CARTHAGE	LIMESTONE	5.0	704.0
-152.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	825.0
-285.0	CARBONDALE	DANVILLE	COAL	-	958.0
-423.0	CARBONDALE	HERRIN	COAL	4.0	1096.0
-443.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1116.0
-482.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1155.0
-527.0	CARBONDALE	COLCHESTER	COAL	-	1200.0

MAPID: 02923403000C VERSION: 1

PROJECT: NCRDS87

COUNTY: COLES TWP/RNG: 13N 8E SECTION: 16 QUARTERS/FOOTAGES: 40' S line, 70' E line

QUADRANGLE: HUMBOLDT LONGITUDE: -88.304351 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 39.564941 DATE COLLECTED: 3 / 13 / 1977

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 1154.0 LOG TYPE: Multiple log types

SOURCE: ATLANTIC RICHFIELD WELL TYPE: Coal Test

COMMENT: ELEV ESTIMATED; LOC QUESTIONABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	72.0	0.0	
598.0	MATTOON		UNCLASSIFIED	70.0	72.0	
528.0	MATTOON		BLACK SHALE	2.0	142.0	
526.0	MATTOON		UNCLASSIFIED	42.0	144.0	
484.0	MATTOON		BLACK SHALE	3.0	186.0	
481.0	MATTOON		UNCLASSIFIED	64.0	189.0	
417.0	MATTOON	SHUMWAY	LIMESTONE	2.0	253.0	
415.0	MATTOON		BLACK SHALE	3.0	255.0	
412.0	MATTOON		LIMESTONE	1.0	258.0	
411.0	MATTOON		UNCLASSIFIED	160.0	259.0	
251.0	MATTOON		COAL	2.0	419.0	
249.0	MATTOON		UNCLASSIFIED	41.0	421.0	
208.0	MATTOON		BLACK SHALE	1.5	462.0	
206.5	MATTOON		UNCLASSIFIED	20.5	463.5	
186.0	MATTOON		COAL	1.0	484.0	
185.0	MATTOON		UNCLASSIFIED	19.0	485.0	
166.0	BOND	MILLERSVILLE	LIMESTONE	5.0	504.0	TOP BENCH
161.0	BOND	MILLERSVILLE	UNCLASSIFIED	1.5	509.0	
159.5	BOND	MILLERSVILLE	LIMESTONE	13.0	510.5	MIDDLE BENCH
146.5	BOND	MILLERSVILLE	UNCLASSIFIED	2.0	523.5	
144.5	BOND	MILLERSVILLE	LIMESTONE W/ SHALE	16.5	525.5	LOWER BENCH, SH IN UPPERPART
128.0	BOND		BLACK SHALE	1.5	542.0	PERHAPS A DK GY SH
126.5	BOND		UNCLASSIFIED	94.0	543.5	
32.5	BOND		LIMESTONE	1.5	637.5	
31.0	BOND		BLACK SHALE	4.0	639.0	UNCERTAIN CORRELATION
27.0	BOND		UNCLASSIFIED	35.5	643.0	
-8.5	BOND		COAL	2.0	678.5	
-10.5	BOND		UNCLASSIFIED	24.5	680.5	
-35.0	BOND	CARTHAGE	LIMESTONE	4.0	705.0	
-39.0	MODESTO		BLACK SHALE	3.0	709.0	
-42.0	MODESTO		UNCLASSIFIED	48.0	712.0	
-90.0	MODESTO		BLACK SHALE	4.0	760.0	
-94.0	MODESTO		COAL	1.0	764.0	PROBABLE COAL
-95.0	MODESTO		UNCLASSIFIED	52.0	765.0	
-147.0	MODESTO		BLACK SHALE	3.0	817.0	PERHAPS A DK GY SH
-150.0	MODESTO		UNCLASSIFIED	6.0	820.0	
-156.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	826.0	
-162.0	MODESTO		DARK GRAY SHALE	2.0	832.0	
-164.0	MODESTO		UNCLASSIFIED	128.5	834.0	

-292.5	CARBONDALE	DANVILLE	COAL	3.5	962.5	
-296.0	CARBONDALE		UNCLASSIFIED	15.0	966.0	
-311.0	CARBONDALE		BLACK SHALE	2.0	981.0	PERHAPS A DK GY SH
-313.0	CARBONDALE		UNCLASSIFIED	69.0	983.0	
-382.0	CARBONDALE	HERRIN	COAL	-	1052.0	THICKNESS CONFIDENTIAL, 1052 = BASE
-382.0	CARBONDALE		UNCLASSIFIED	98.0	1052.0	
-480.0	CARBONDALE	EXCELLO	BLACK SHALE	4.0	1150.0	

MAPID: 02900288000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 13N 8E **SECTION:** 29 **QUARTERS/FOOTAGES:** SE SE SW
QUADRANGLE: HUMBOLDT **LONGITUDE:** -88.33387 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.536429 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 696.0 **LOGGED (FT.):** 1310.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: SS ABOVE #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN	COMMENT
-74.0	BOND	CARTHAGE	LIMESTONE	9.0	770.0	
-186.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	882.0	
-327.0	CARBONDALE	DANVILLE	COAL	-	1023.0	
-436.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1132.0	
-544.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1240.0	
-614.0	CARBONDALE	COLCHESTER	COAL	-	1310.0	

MAPID: 02900256000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 13N 8E **SECTION:** 35 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: HUMBOLDT **LONGITUDE:** -88.2841 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.527736 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 682.0 **LOGGED (FT.):** 1312.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: SS ABOVE #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN	COMMENT
-221.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	903.0	
-348.0	CARBONDALE	DANVILLE	COAL	-	1030.0	
-464.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1146.0	
-565.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1247.0	
-630.0	CARBONDALE	COLCHESTER	COAL	-	1312.0	

MAPID: 02922531000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: COLES **TWP/RNG:** 13N 9E **SECTION:** 2 **QUARTERS/FOOTAGES:** 52' N line, 960' W line
QUADRANGLE: CHARLESTON NORTH **LONGITUDE:** -88.173621 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.608325 **DATE COLLECTED:** 11 / 22 / 1976
SURFACE ELEVATION (FT.): 678.0 **LOGGED (FT.):** 318.0 **LOG TYPE:** Electric Log
SOURCE: HYDROCARBON SURVEY CO-76-8 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
502.0	SHELburn	DANVILLE	COAL	2.0	176.0	ESTIMATED THICKNESS
408.5	CARBONDALE	HERRIN	COAL	2.5	269.5	ESTIMATED THICKNESS
394.0	CARBONDALE	SPRINGFIELD	COAL	2.5	284.0	ESTIMATED THICKNESS

MAPID: 02900682000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 13N 9E **SECTION:** 5 **QUARTERS/FOOTAGES:** 660' S line, 660' E line of NE SE
QUADRANGLE: CHARLESTON NORTH **LONGITUDE:** -88.21668 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.599517 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 683.0 **LOGGED (FT.):** 722.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
274.0	BOND	CARTHAGE	LIMESTONE	-	409.0	
125.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	558.0	
56.0	CARBONDALE	DANVILLE	COAL	-	627.0	
-17.0	CARBONDALE	HERRIN	COAL	-	700.0	
-37.0	CARBONDALE	SPRINGFIELD	COAL	2.0	720.0	

MAPID: 02901871000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 13N 9E **SECTION:** 10 **QUARTERS/FOOTAGES:** 14' N line, 41' W line of NE NW
QUADRANGLE: CHARLESTON NORTH **LONGITUDE:** -88.190738 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.593712 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 685.0 **LOGGED (FT.):** 331.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
485.0	CARBONDALE	DANVILLE	COAL	-	200.0	
412.0	CARBONDALE	HERRIN	COAL	-	273.0	
394.0	CARBONDALE	SPRINGFIELD	COAL	2.0	291.0	
354.0	CARBONDALE	HOUCHIN CREEK	COAL	-	331.0	

MAPID: 02902104000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES

TWP/RNG: 13N 9E

SECTION: 16

QUARTERS/FOOTAGES: NE SW SE

QUADRANGLE: CHARLESTON NORTH

LONGITUDE: -88.202031

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 39.567424

DATE COLLECTED:

SURFACE ELEVATION (FT.): 677.0

LOGGED (FT.): 356.0

LOG TYPE: Nuclear Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: #7 ABOVE LOG, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
396.0	CARBONDALE	HERRIN	COAL	-	281.0	
380.0	CARBONDALE	HERRIN	COAL	1.5	297.0	LOWER BENCH (CHENOWETH PICK)
355.0	CARBONDALE	SPRINGFIELD	COAL	2.0	322.0	
321.0	CARBONDALE	HOUCHIN CREEK	COAL	-	356.0	

MAPID: 02923224000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES

TWP/RNG: 13N 9E

SECTION: 21

QUARTERS/FOOTAGES: 330' S line, 680' E line

QUADRANGLE: CHARLESTON NORTH

LONGITUDE: -88.198511

GEOLOGIST: C.TREWORGY

CONFIDENTIAL: N

LATITUDE: 39.550838

DATE COLLECTED: 9 / 4 / 1985

SURFACE ELEVATION (FT.): 695.0

LOGGED (FT.): 593.5

LOG TYPE: Nuclear Log

SOURCE: EXXON CORP, SWANGO NO.2

WELL TYPE: Dry Hole

COMMENT: GAMMA ONLY - NO DENSITY UNTIL 630'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
402.0	CARBONDALE	HERRIN	COAL	3.0	293.0	
369.0	CARBONDALE	ST. DAVID	LIMESTONE	4.0	326.0	
365.0	CARBONDALE	TURNER MINE	BLACK SHALE	5.0	330.0	
343.0	CARBONDALE		BLACK SHALE	4.0	352.0	
117.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	4.0	578.0	
104.0	SPOON	SEELYVILLE	COAL	2.5	591.0	

MAPID: 02923225000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 9E SECTION: 22 QUARTERS/FOOTAGES: 330' S line, 660' W line
 QUADRANGLE: CHARLESTON NORTH LONGITUDE: -88.193737 GEOLOGIST: C.TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.550802 DATE COLLECTED: 5 / 10 / 1985
 SURFACE ELEVATION (FT.): 700.0 LOGGED (FT.): 472.5 LOG TYPE: Multiple log types
 SOURCE: EXXON WELL TYPE: Dry Hole
 COMMENT: GAMMA NEUTRON, DENSITY, INDUCTION LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
505.0	CARBONDALE	HERRIN	COAL	3.0	195.0	ENERGY SHALE ROOF
502.0	CARBONDALE		UNCLASSIFIED	29.0	198.0	
473.0	CARBONDALE	ST. DAVID	LIMESTONE	3.0	227.0	
470.0	CARBONDALE	TURNER MINE	BLACK SHALE	5.0	230.0	
465.0	CARBONDALE	SPRINGFIELD	COAL	1.0	235.0	
464.0	CARBONDALE		UNCLASSIFIED	152.0	236.0	
312.0	CARBONDALE	HOUCHIN CREEK	COAL	4.0	388.0	UNCERTAIN CORRELATION, THICKNESS &
308.0	CARBONDALE		UNCLASSIFIED	77.0	392.0	
231.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	3.0	469.0	
228.0	CARBONDALE	COLCHESTER	COAL	0.5	472.0	

MAPID: 02900510000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 9E SECTION: 23 QUARTERS/FOOTAGES: NE NE SE
 QUADRANGLE: CHARLESTON NORTH LONGITUDE: -88.159776 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.556299 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 685.0 LOGGED (FT.): 446.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
509.0	BOND	CARTHAGE	LIMESTONE	2.0	176.0	
408.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	277.0	
335.0	CARBONDALE	DANVILLE	COAL	2.0	350.0	
250.0	CARBONDALE	HERRIN	COAL	1.0	435.0	
241.0	CARBONDALE	SPRINGFIELD	COAL	2.0	444.0	

MAPID: 02902204000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 9E SECTION: 33 QUARTERS/FOOTAGES: 230' N line, 75' E line of SE

QUADRANGLE: CHARLESTON NORTH LONGITUDE: -88.196512 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.527445 DATE COLLECTED:

SURFACE ELEVATION (FT.): 661.0 LOGGED (FT.): 795.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
183.0	BOND	CARTHAGE	LIMESTONE	7.0	478.0
77.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	584.0
-34.0	CARBONDALE	DANVILLE	COAL	-	695.0
-111.0	CARBONDALE	HERRIN	COAL	-	772.0
-129.0	CARBONDALE	SPRINGFIELD	COAL	5.0	790.0

MAPID: 02900678000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 9E SECTION: 34 QUARTERS/FOOTAGES: 660' S line, 660' W line of SE

QUADRANGLE: CHARLESTON NORTH LONGITUDE: -88.184498 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.522706 DATE COLLECTED:

SURFACE ELEVATION (FT.): 667.0 LOGGED (FT.): 676.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
355.0	BOND	CARTHAGE	LIMESTONE	3.0	312.0
290.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	377.0
207.0	CARBONDALE	DANVILLE	COAL	-	460.0
132.0	CARBONDALE	HERRIN	COAL	-	535.0
115.0	CARBONDALE	SPRINGFIELD	COAL	-	552.0
62.0	CARBONDALE	HOUCHIN CREEK	COAL	-	605.0
-6.0	CARBONDALE	COLCHESTER	COAL	3.0	673.0

MAPID: 02900581000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 13N 9E **SECTION:** 35 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: CHARLESTON NORTH **LONGITUDE:** -88.15985 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.521732 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 667.0 **LOGGED (FT.):** 485.0 **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	
474.0	BOND	CARTHAGE	LIMESTONE	4.0	193.0	
282.0	CARBONDALE	DANVILLE	COAL	2.0	385.0	
202.0	CARBONDALE	HERRIN	COAL	-	465.0	
182.0	CARBONDALE	SPRINGFIELD	COAL	-	485.0	

MAPID: 02901649000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 13N 10E **SECTION:** 2 **QUARTERS/FOOTAGES:** NW SW NE
QUADRANGLE: ASHMORE **LONGITUDE:** -88.053049 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.604253 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 665.0 **LOGGED (FT.):** 223.0 **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	
575.0	CARBONDALE	DANVILLE	COAL	-	90.0	
457.0	CARBONDALE	HERRIN	COAL	-	208.0	
442.0	CARBONDALE	SPRINGFIELD	COAL	-	223.0	

MAPID: 02900508000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 13N 10E **SECTION:** 10 **QUARTERS/FOOTAGES:** SE NE SE
QUADRANGLE: ASHMORE **LONGITUDE:** -88.06501 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.583874 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 663.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: TOP OF STRUCT, FAIR LOG

MAPID: 02901873000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 10E SECTION: 22 QUARTERS/FOOTAGES: 36' N line, 468' E line of NW NW
 QUADRANGLE: ASHMORE LONGITUDE: -88.079943 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.5647 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 446.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
504.0	BOND	CARTHAGE	LIMESTONE	3.0	158.0
434.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	228.0
331.0	CARBONDALE	DANVILLE	COAL	4.0	331.0
266.0	CARBONDALE	HERRIN	COAL	-	396.0
254.0	CARBONDALE	SPRINGFIELD	COAL	-	408.0
218.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	444.0

MAPID: 02922422000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 13N 11E SECTION: 6 QUARTERS/FOOTAGES: 990' S line, 334' E line
 QUADRANGLE: ASHMORE LONGITUDE: -88.016661 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.600072 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 671.0 LOGGED (FT.): 312.0 LOG TYPE: Nuclear Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: STRUCT, POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
410.0	CARBONDALE	HOUCHIN CREEK	COAL	-	261.0
359.0	CARBONDALE	COLCHESTER	COAL	-	312.0

MAPID: 02923388000C VERSION: 1

PROJECT: ISGS96

COUNTY: COLES TWP/RNG: 13N 11E SECTION: 6 QUARTERS/FOOTAGES: 35' N line, 70' W line
 QUADRANGLE: ASHMORE LONGITUDE: -88.025751 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.60886 DATE COLLECTED: 0 / 0 / 1976
 SURFACE ELEVATION (FT.): 665.1 LOGGED (FT.): 202.6 LOG TYPE: Company map
 SOURCE: HYDROCARBON SURVEY PH-31 WELL TYPE: Coal Test
 COMMENT: DATA FROM 1976 COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
665.1			UNCONSOLIDATED	70.0	0.0
595.1			ROCK	131.0	70.0
464.1	CARBONDALE	HERRIN	COAL	1.6	201.0

MAPID: 02923388000C **VERSION:** 2 **PROJECT:** CONF
COUNTY: COLES **TWP/RNG:** 13N 11E **SECTION:** 6 **QUARTERS/FOOTAGES:** 35' N line, 70' W line
QUADRANGLE: ASHMORE **LONGITUDE:** -88.025751 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.60886 **DATE COLLECTED:** 10 / 0 / 1971
SURFACE ELEVATION (FT.): 665.1 **LOGGED (FT.):** 444.0 **LOG TYPE:** Electric Log
SOURCE: HYDROCARBON SURVEY PH-31 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

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

- - NO COAL PICKS

MAPID: 02900507000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 13N 11E **SECTION:** 30 **QUARTERS/FOOTAGES:** 945' S line, 330' W line
QUADRANGLE: ASHMORE **LONGITUDE:** -88.024821 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.541822 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 695.0 **LOGGED (FT.):** 288.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: STRUCT, GOOD LOG

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

490.0	CARBONDALE	HERRIN	COAL	2.5	205.0	
473.0	CARBONDALE	SPRINGFIELD	COAL	-	222.0	
437.0	CARBONDALE	HOUCHIN CREEK	COAL	-	258.0	
407.0	CARBONDALE	COLCHESTER	COAL	-	288.0	

MAPID: 02900424000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 13N 14W **SECTION:** 4 **QUARTERS/FOOTAGES:** SE NE SW
QUADRANGLE: KANSAS **LONGITUDE:** -87.97533 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.60253 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 663.0 **LOGGED (FT.):** 350.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: STRUCT, GOOD LOG

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

533.0	CARBONDALE	DANVILLE	COAL	-	130.0	
398.0	CARBONDALE	HERRIN	COAL	3.5	265.0	
353.0	CARBONDALE	HOUCHIN CREEK	COAL	-	310.0	
313.0	CARBONDALE	COLCHESTER	COAL	-	350.0	

MAPID: 02922522000C VERSION: 1

PROJECT: ISGS96

COUNTY: COLES TWP/RNG: 13N 14W SECTION: 4 QUARTERS/FOOTAGES: 45' N line, 1995' W line
 QUADRANGLE: KANSAS LONGITUDE: -87.976864 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.612256 DATE COLLECTED: 0 / 0 / 1976
 SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 258.3 LOG TYPE: Company map
 SOURCE: HYDROCARBON SURVEY PH-30-CC WELL TYPE: Coal Test
 COMMENT: DATA FROM 1976 COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0			UNCONSOLIDATED	51.0	0.0	
599.0			ROCK	203.0	51.0	
396.0	CARBONDALE	HERRIN	COAL	4.3	254.0	

MAPID: 02922522000C VERSION: 2

PROJECT: CONF

COUNTY: COLES TWP/RNG: 13N 14W SECTION: 4 QUARTERS/FOOTAGES: 45' N line, 1995' W line
 QUADRANGLE: KANSAS LONGITUDE: -87.976864 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 39.612256 DATE COLLECTED: 10 / 31 / 1976
 SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 284.0 LOG TYPE: Electric Log
 SOURCE: HYDROCARBON SURVEY PH-30-CC WELL TYPE: Coal Test
 COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
401.0	CARBONDALE	HERRIN	COAL	4.1	249.0	ESTIMATED THICKNESS
393.0	CARBONDALE	SPRINGFIELD	COAL	1.0	257.0	ESTIMATED THICKNESS

MAPID: 02923542000C VERSION: 1

PROJECT: ISGS90

COUNTY: COLES TWP/RNG: 13N 14W SECTION: 5 QUARTERS/FOOTAGES:

QUADRANGLE: KANSAS LONGITUDE: -87.992952 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.605038 DATE COLLECTED: 8 / 9 / 1989

SURFACE ELEVATION (FT.): 679.0 LOGGED (FT.): 307.2 LOG TYPE: Multiple log types

SOURCE: AMCO-IL NO. AM8920 WELL TYPE: Coal Test

COMMENT: DRILLERS LOG&CORE 1067688.38N 598540.63E

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.0			CLAY	15.0	0.0	UNITS 1-15 FROM DRILLER'S LOG; TAN
664.0			CLAY	5.0	15.0	GRAY
659.0			CLAY & GRAVEL	109.0	20.0	
550.0			SHALE	1.0	129.0	MIX
549.0			SHALE	1.0	130.0	
548.0			SANDY SHALE	20.0	131.0	
528.0			SHALE	10.0	151.0	BRN
518.0	CARBONDALE		SHALE	13.5	161.0	
504.5	CARBONDALE	BANKSTON FORK	LIMESTONE	1.5	174.5	
503.0	CARBONDALE	ENERGY	SHALE & SANDSTONE	14.0	176.0	
489.0	CARBONDALE	ENERGY	SANDSTONE	8.0	190.0	
481.0	CARBONDALE	ENERGY	SANDY SHALE	14.0	198.0	
467.0	CARBONDALE	ENERGY	SHALE	12.0	212.0	
455.0	CARBONDALE	ENERGY	SANDY SHALE	10.0	224.0	
445.0	CARBONDALE	ENERGY	SANDY SHALE	28.0	234.0	
417.0	CARBONDALE	ENERGY	SILTY SHALE	8.2	262.0	UNITS 16-45/CORE W/GRAY ARENACEOUS BANDS
408.8	CARBONDALE	ENERGY	SANDSTONE	1.1	270.2	GRAY
407.7	CARBONDALE	ENERGY	SILTY SHALE	0.4	271.3	W/THIN GRAY ARENACEOUS BANDS
407.4	CARBONDALE	ENERGY	SIDERITE	0.1	271.6	BRN
407.3	CARBONDALE	ENERGY	SILTY SHALE	0.1	271.7	
407.2	CARBONDALE	ENERGY	SIDERITE	0.1	271.8	BRN
407.1	CARBONDALE	ENERGY	SHALE	0.6	271.9	
406.5	CARBONDALE	ENERGY	SHALE	1.0	272.5	
405.6	CARBONDALE	ENERGY	SIDERITE	0.2	273.4	BRN
405.4	CARBONDALE	ENERGY	SHALE	1.3	273.6	ONE SIDERITE NODULE
404.1	CARBONDALE	ENERGY	SHALE	1.0	274.9	ONE SIDERITE BAND
403.1	CARBONDALE	ENERGY	SIDERITE	0.1	275.9	BRN
403.1	CARBONDALE	ENERGY	SHALE	0.4	275.9	
402.7	CARBONDALE	ENERGY	SHALE	0.8	276.3	
401.9	CARBONDALE	ENERGY	SIDERITE	0.1	277.1	BRN
401.8	CARBONDALE	ENERGY	SHALE	0.5	277.2	
401.3	CARBONDALE	ENERGY	SIDERITE	0.1	277.7	GRAY
401.2	CARBONDALE	ENERGY	SHALE	2.5	277.8	TWO SIDERITE NODULES
398.7	CARBONDALE	ENERGY	SHALE	0.6	280.3	
398.2	CARBONDALE	ENERGY	CARBONACEOUS SHALE	13.5	280.8	SIDERITE BANDS AND NODULES
384.6	CARBONDALE	ENERGY	CARBONACEOUS SHALE	1.1	294.4	COAL STREAKS
383.5	CARBONDALE	HERRIN	COAL	0.2	295.5	
383.3	CARBONDALE	HERRIN	CARBONACEOUS SHALE	0.4	295.7	COAL BANDS

382.9	CARBONDALE	HERRIN	COAL	0.3	296.1	
382.6	CARBONDALE	HERRIN	CARBONACEOUS SHALE	0.1	296.4	
382.5	CARBONDALE	HERRIN	COAL	2.3	296.5	VERTICAL FRACTURE
380.2	CARBONDALE		CARBONACEOUS SHALE	0.1	298.8	COAL STREAKS
380.1	CARBONDALE		SHALE	2.1	298.9	SLICKENSIDED
378.0	CARBONDALE		SANDSTONE	0.2	301.0	BRN
377.8	CARBONDALE		SILTY SHALE	6.1	301.2	ARENACEOUS BANDS & NODULES; SLICKENSIDED

MAPID: 02900615000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 13N 14W **SECTION:** 6 **QUARTERS/FOOTAGES:** 990' N line, 330' W line of SW
QUADRANGLE: ASHMORE **LONGITUDE:** -88.014317 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.601884 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 666.0 **LOGGED (FT.):** 298.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: STRUCT, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN	COMMENT
466.0	CARBONDALE	HERRIN	COAL	3.0	200.0	
418.0	CARBONDALE	HOUCHIN CREEK	COAL	-	248.0	
368.0	CARBONDALE	COLCHESTER	COAL	-	298.0	

MAPID: 02900509000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 13N 14W **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: ASHMORE **LONGITUDE:** -88.010061 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.589363 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 678.0 **LOGGED (FT.):** 329.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: STRUCT,SPLIT6?, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN	COMMENT
451.0	CARBONDALE	HERRIN	COAL	-	227.0	
431.0	CARBONDALE	SPRINGFIELD	COAL	-	247.0	
400.0	CARBONDALE	HOUCHIN CREEK	COAL	-	278.0	
349.0	CARBONDALE	COLCHESTER	COAL	-	329.0	

MAPID: 02901855000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 13N 14W **SECTION:** 16 **QUARTERS/FOOTAGES:** 688' S line, 545' E line of SE
QUADRANGLE: KANSAS **LONGITUDE:** -87.965548 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.570784 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 697.0 **LOGGED (FT.):** 395.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: STRUCT, POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
407.0	CARBONDALE	HERRIN	COAL	-	290.0	
341.0	CARBONDALE	HOUCHIN CREEK	COAL	-	356.0	
302.0	CARBONDALE	COLCHESTER	COAL	-	395.0	

MAPID: 02923389000C **VERSION:** 1 **PROJECT:** ISGS96
COUNTY: COLES **TWP/RNG:** 13N 14W **SECTION:** 16 **QUARTERS/FOOTAGES:** 40' N line, 5' W line
QUADRANGLE: KANSAS **LONGITUDE:** -87.982993 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.583136 **DATE COLLECTED:** 0 / 0 / 1976
SURFACE ELEVATION (FT.): 676.2 **LOGGED (FT.):** 441.4 **LOG TYPE:** Company map
SOURCE: HYDROCARBON SURVEY PG-28 **WELL TYPE:** Coal Test
COMMENT: DATA FROM 1976 COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.2			UNCONSOLIDATED	136.0	0.0	
540.2			ROCK	150.0	136.0	
390.2	CARBONDALE	HERRIN	COAL	2.0	286.0	

MAPID: 02923389000C **VERSION:** 2 **PROJECT:** CONF
COUNTY: COLES **TWP/RNG:** 13N 14W **SECTION:** 16 **QUARTERS/FOOTAGES:** 40' N line, 5' W line
QUADRANGLE: KANSAS **LONGITUDE:** -87.982993 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.583136 **DATE COLLECTED:** 10 / 0 / 1971
SURFACE ELEVATION (FT.): 676.2 **LOGGED (FT.):** 441.4 **LOG TYPE:** Electric Log
SOURCE: HYDROCARBON SURVEY PG-28 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-				-		NO COAL PICKS

MAPID: 02900061000C VERSION: 1

PROJECT: NCRDS88

COUNTY: COLES TWP/RNG: 13N 14W SECTION: 19 QUARTERS/FOOTAGES: 480' S line, 240' E line of NE

QUADRANGLE: ASHMORE LONGITUDE: -88.0017 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.562461 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 287.0 LOG TYPE: Drillers Log

SOURCE: ROSS BENSON WELL TYPE: Coal Test

COMMENT: QUESTIONABLE ACCURACY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			UNCONSOLIDATED	135.0	0.0
-			SHALE	35.0	135.0
-			UNCONSOLIDATED	40.0	170.0
-	CARBONDALE	ENERGY	DARK SHALE	35.0	210.0
-	CARBONDALE	ENERGY	SHALE	15.0	245.0
-	CARBONDALE	HERRIN	COAL	1.0	260.0
-	CARBONDALE		SHALE	24.0	261.0
-	CARBONDALE	SPRINGFIELD	COAL	2.0	285.0

MAPID: 02900447000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 7E SECTION: 19 QUARTERS/FOOTAGES: 330' N line, 380' E line of NW

QUADRANGLE: ARTHUR LONGITUDE: -88.463955 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.650876 DATE COLLECTED:

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 971.0 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
48.0	BOND	CARTHAGE	LIMESTONE	5.0	617.0
-71.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	736.0
-220.0	CARBONDALE	DANVILLE	COAL	-	885.0
-306.0	CARBONDALE	SPRINGFIELD	COAL	-	971.0

MAPID: 0292245000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 7E SECTION: 20 QUARTERS/FOOTAGES: 660' S line, 660' W line of SW SW

QUADRANGLE: ARTHUR LONGITUDE: -88.450294 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.639064 DATE COLLECTED:

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 1104.0 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
21.0	BOND	CARTHAGE	LIMESTONE	6.0	649.0
-103.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	773.0
-230.0	CARBONDALE	DANVILLE	COAL	-	900.0
-337.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1007.0
-434.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1104.0

MAPID: 02900098000C VERSION: 1

PROJECT: NCRDS87

COUNTY: COLES

TWP/RNG: 14N 7E

SECTION: 23

QUARTERS/FOOTAGES: SE NW SE

QUADRANGLE: ARTHUR

LONGITUDE: -88.383324

GEOLOGIST: WEIBEL

CONFIDENTIAL: N

LATITUDE: 39.641798

DATE COLLECTED: 7 / 19 / 1955

SURFACE ELEVATION (FT.): 661.0

LOGGED (FT.): 1454.0

LOG TYPE: Nuclear Log

SOURCE: RICHARDSON & STONE

WELL TYPE: Gas Storage Operational Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.0			UNCONSOLIDATED	83.0	0.0	
578.0	MATTOON		UNCLASSIFIED	57.0	83.0	
521.0	MATTOON	SHUMWAY	LIMESTONE	10.0	140.0	
511.0	MATTOON		BLACK SHALE	4.0	150.0	
507.0	MATTOON		LIMESTONE	2.0	154.0	
505.0	MATTOON		UNCLASSIFIED	149.0	156.0	
356.0	MATTOON		COAL	2.0	305.0	
354.0	MATTOON		UNCLASSIFIED	37.0	307.0	
317.0	MATTOON		BLACK SHALE	3.0	344.0	
314.0	MATTOON		UNCLASSIFIED	38.0	347.0	
276.0	MATTOON		BLACK SHALE	1.0	385.0	PERHAPS A DK GY SH
275.0	MATTOON		UNCLASSIFIED	5.0	386.0	
270.0	BOND	MILLERSVILLE	LIMESTONE	26.0	391.0	
244.0	BOND		UNCLASSIFIED	82.0	417.0	
162.0	BOND		BLACK SHALE	4.5	499.0	
157.5	BOND		UNCLASSIFIED	36.5	503.5	
121.0	BOND		COAL WITH SHALE PARTINGS	7.0	540.0	THREE-FOOT SHALE PARTING
114.0	BOND		UNCLASSIFIED	16.0	547.0	
98.0	BOND	CARTHAGE	LIMESTONE	5.0	563.0	
93.0	MODESTO		BLACK SHALE	3.0	568.0	
90.0	MODESTO		UNCLASSIFIED	43.0	571.0	
47.0	MODESTO		BLACK SHALE	5.0	614.0	
42.0	MODESTO		UNCLASSIFIED	64.0	619.0	
-22.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	683.0	
-30.0	MODESTO		UNCLASSIFIED	123.0	691.0	
-153.0	CARBONDALE	DANVILLE	COAL	3.0	814.0	
-156.0	CARBONDALE		UNCLASSIFIED	18.0	817.0	
-174.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	835.0	
-178.0	CARBONDALE		UNCLASSIFIED	63.0	839.0	
-241.0	CARBONDALE	ENERGY	BLACK SHALE	0.0	902.0	
-241.0	CARBONDALE	HERRIN	COAL	0.0	902.0	
-241.0	CARBONDALE	TURNER MINE	BLACK SHALE	8.0	902.0	
-249.0	CARBONDALE	SPRINGFIELD	COAL	0.0	910.0	THIN OR ABSENT
-249.0	CARBONDALE		UNCLASSIFIED	99.0	910.0	
-348.0	CARBONDALE	EXCELLO	BLACK SHALE	8.0	1009.0	
-356.0	CARBONDALE	HOUCHIN CREEK	COAL	0.0	1017.0	
-356.0	CARBONDALE		UNCLASSIFIED	51.0	1017.0	
-407.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	6.0	1068.0	

-413.0	CARBONDALE	COLCHESTER	COAL	0.0	1074.0	THIN OR ABSENT
-413.0			UNCLASSIFIED	16.0	1074.0	
-429.0			COAL	2.0	1090.0	
-431.0			BLACK SHALE	1.0	1092.0	PERHAPS LOCAL IN EXTENT
-432.0			UNCLASSIFIED	14.0	1093.0	
-446.0			LIMESTONE	3.0	1107.0	POSSIBLE LS
-449.0			UNCLASSIFIED	5.0	1110.0	
-454.0			LIMESTONE	3.0	1115.0	
-457.0			BLACK SHALE	4.0	1118.0	
-461.0			UNCLASSIFIED	16.0	1122.0	
-477.0			BLACK SHALE	6.0	1138.0	
-483.0			UNCLASSIFIED	33.0	1144.0	
-516.0			SANDSTONE	42.0	1177.0	
-558.0			UNCLASSIFIED	21.0	1219.0	
-579.0			COAL	3.0	1240.0	
-582.0			UNCLASSIFIED	16.0	1243.0	
-598.0			COAL	4.0	1259.0	
-602.0			UNCLASSIFIED	16.0	1263.0	
-618.0			COAL	2.0	1279.0	
-620.0			UNCLASSIFIED	28.0	1281.0	
-648.0			COAL	1.0	1309.0	
-649.0			UNCLASSIFIED	4.0	1310.0	
-653.0			LIMESTONE	3.0	1314.0	POSSIBLE LS
-656.0			UNCLASSIFIED	14.0	1317.0	
-670.0			COAL	2.5	1331.0	
-672.5			UNCLASSIFIED	18.5	1333.5	
-691.0			COAL	2.0	1352.0	
-693.0			UNCLASSIFIED	13.0	1354.0	
-706.0			SANDSTONE	17.0	1367.0	
-723.0			SILTY SHALE	51.0	1384.0	
-774.0			SANDSTONE	19.0	1435.0	
-793.0			UNCLASSIFIED	0.0	1454.0	TOP OF MISSISSIPPIAN

MAPID: 02900098000C VERSION: 2

PROJECT: CGT-ECILL

COUNTY: COLES

TWP/RNG: 14N 7E

SECTION: 23

QUARTERS/FOOTAGES: SE NW SE

QUADRANGLE: ARTHUR

LONGITUDE: -88.383324

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.641798

DATE COLLECTED:

SURFACE ELEVATION (FT.): 661.0

LOGGED (FT.): 1074.0

LOG TYPE: Nuclear Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
97.0	BOND	CARTHAGE	LIMESTONE	5.0	564.0
-23.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	684.0
-153.0	CARBONDALE	DANVILLE	COAL	3.0	814.0
-249.0	CARBONDALE	SPRINGFIELD	COAL	-	910.0
-356.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1017.0
-413.0	CARBONDALE	COLCHESTER	COAL	-	1074.0

MAPID: 02923340000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 7E SECTION: 23 QUARTERS/FOOTAGES: 660' N line, 330' E line of SE SE

QUADRANGLE: ARTHUR LONGITUDE: -88.378587 GEOLOGIST: C.TREWORGY

CONFIDENTIAL: N LATITUDE: 39.639067 DATE COLLECTED: 9 / 5 / 1986

SURFACE ELEVATION (FT.): 661.5 LOGGED (FT.): 1383.0 LOG TYPE: Multiple log types

SOURCE: WEST RESOURCES, LTD. WELL TYPE: Dry Hole

COMMENT: GAMMA, DENSITY, INDUCTION LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
241.5	BOND		COAL	1.0	420.0	
176.5	BOND		BLACK SHALE	5.0	485.0	
138.5	BOND		COAL	2.5	523.0	
136.0	BOND		UNCLASSIFIED	21.5	525.5	
114.5	BOND	CARTHAGE	LIMESTONE	5.0	547.0	
62.5	MODESTO		BLACK SHALE	5.0	599.0	
1.5	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	660.0	
-1.5	MODESTO	WEST FRANKLIN	SHALE	2.0	663.0	
-3.5	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	665.0	
-9.5	MODESTO		UNCLASSIFIED	124.0	671.0	
-133.5	CARBONDALE	DANVILLE	COAL	3.5	795.0	
-185.5	CARBONDALE		COAL	0.5	847.0	PARTING OF HERRIN COAL?
-232.5	CARBONDALE	HERRIN	COAL	2.0	894.0	
-345.5	CARBONDALE	EXCELLO	BLACK SHALE	9.0	1007.0	
-402.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	5.0	1064.0	
-407.5	SPOON		SHALE	13.0	1069.0	
-420.5	SPOON	SEELYVILLE	COAL	3.0	1082.0	
-423.5	SPOON	SEELYVILLE	SHALE	3.0	1085.0	
-426.5	SPOON	SEELYVILLE	COAL	2.0	1088.0	
-452.5	SPOON		LIMESTONE	3.0	1114.0	
-455.5	SPOON		BLACK SHALE	4.5	1117.0	
-470.5	SPOON		BLACK SHALE	5.5	1132.0	
-476.0	SPOON		SHALE	3.0	1137.5	
-479.0	SPOON		BLACK SHALE	6.0	1140.5	
-557.5			COAL	2.0	1219.0	
-587.5			COAL	3.0	1249.0	
-600.5			COAL	3.0	1262.0	
-619.5			COAL	3.0	1281.0	
-630.5			COAL	2.0	1292.0	
-720.5			COAL	1.0	1382.0	

MAPID: 02900083000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 7E SECTION: 24 QUARTERS/FOOTAGES: SW SW SE
 QUADRANGLE: ARCOLA LONGITUDE: -88.3669 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.638013 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 653.0 LOGGED (FT.): 1085.0 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	3.0	583.0	
-43.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	696.0	
-174.0	CARBONDALE	DANVILLE	COAL	2.0	827.0	
-264.0	CARBONDALE	SPRINGFIELD	COAL	-	917.0	
-370.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1023.0	
-432.0	CARBONDALE	COLCHESTER	COAL	-	1085.0	

MAPID: 02900155000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 7E SECTION: 24 QUARTERS/FOOTAGES: SE SE NW
 QUADRANGLE: ARCOLA LONGITUDE: -88.369285 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.645528 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 1098.0 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	
85.0	BOND	CARTHAGE	LIMESTONE	7.0	570.0	
-30.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	685.0	
-165.0	CARBONDALE	DANVILLE	COAL	2.0	820.0	
-273.0	CARBONDALE	SPRINGFIELD	COAL	-	928.0	
-382.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1037.0	
-443.0	CARBONDALE	COLCHESTER	COAL	-	1098.0	

MAPID: 02900535000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 7E SECTION: 25 QUARTERS/FOOTAGES: SE SW SE
 QUADRANGLE: HUMBOLDT LONGITUDE: -88.3648 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.623658 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 653.0 LOGGED (FT.): 1076.0 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	6.0	583.0	
-43.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	696.0	
-174.0	CARBONDALE	DANVILLE	COAL	-	827.0	
-267.0	CARBONDALE	SPRINGFIELD	COAL	-	920.0	
-362.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1015.0	
-423.0	CARBONDALE	COLCHESTER	COAL	-	1076.0	

MAPID: 02900612000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 7E SECTION: 25 QUARTERS/FOOTAGES: NW SW NE
 QUADRANGLE: ARCOLA LONGITUDE: -88.366969 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.632601 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 648.0 LOGGED (FT.): 1090.0 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	
63.0	BOND	CARTHAGE	LIMESTONE	6.0	585.0	
-57.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	705.0	
-177.0	CARBONDALE	DANVILLE	COAL	2.0	825.0	
-227.0	CARBONDALE	HERRIN	COAL	-	875.0	
-262.0	CARBONDALE	SPRINGFIELD	COAL	-	910.0	
-379.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1027.0	
-442.0	CARBONDALE	COLCHESTER	COAL	-	1090.0	

MAPID: 02900648000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES

TWP/RNG: 14N 7E

SECTION: 25

QUARTERS/FOOTAGES: NW SW NW

QUADRANGLE: ARTHUR

LONGITUDE: -88.376265

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.632654

DATE COLLECTED:

SURFACE ELEVATION (FT.): 646.0

LOGGED (FT.): 1043.0

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
105.0	BOND	CARTHAGE	LIMESTONE	5.0	541.0
-11.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	657.0
-131.0	CARBONDALE	DANVILLE	COAL	-	777.0
-324.0	CARBONDALE	HOUCHIN CREEK	COAL	-	970.0
-397.0	CARBONDALE	COLCHESTER	COAL	-	1043.0

MAPID: 02901671000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES

TWP/RNG: 14N 7E

SECTION: 25

QUARTERS/FOOTAGES: 994' S line, 40' E line of SW SW

QUADRANGLE: ARCOLA

LONGITUDE: -88.37302

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.625476

DATE COLLECTED:

SURFACE ELEVATION (FT.): 660.0

LOGGED (FT.): 1075.0

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
51.0	BOND	CARTHAGE	LIMESTONE	6.0	609.0
-21.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	681.0
-140.0	CARBONDALE	DANVILLE	COAL	3.0	800.0
-342.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1002.0
-415.0	CARBONDALE	COLCHESTER	COAL	-	1075.0

MAPID: 02900614000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES

TWP/RNG: 14N 7E

SECTION: 26

QUARTERS/FOOTAGES: SE SE NW

QUADRANGLE: ARTHUR

LONGITUDE: -88.388029

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.630798

DATE COLLECTED:

SURFACE ELEVATION (FT.): 660.0

LOGGED (FT.): 1026.0

LOG TYPE: Nuclear Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
116.0	BOND	CARTHAGE	LIMESTONE	6.0	544.0
2.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	658.0
-127.0	CARBONDALE	DANVILLE	COAL	2.0	787.0
-212.0	CARBONDALE	SPRINGFIELD	COAL	-	872.0
-310.0	CARBONDALE	HOUCHIN CREEK	COAL	-	970.0
-366.0	CARBONDALE	COLCHESTER	COAL	-	1026.0

MAPID: 02900142000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES

TWP/RNG: 14N 7E

SECTION: 27

QUARTERS/FOOTAGES: 330' N line, 350' E line of NW SE

QUADRANGLE: ARTHUR

LONGITUDE: -88.402253

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.628911

DATE COLLECTED:

SURFACE ELEVATION (FT.): 657.0

LOGGED (FT.): 1106.0

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
69.0	BOND	CARTHAGE	LIMESTONE	7.0	588.0
-63.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	720.0
-186.0	CARBONDALE	DANVILLE	COAL	-	843.0
-247.0	CARBONDALE	HERRIN	COAL	-	904.0
-273.0	CARBONDALE	SPRINGFIELD	COAL	-	930.0
-383.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1040.0
-427.0	CARBONDALE	COLCHESTER	COAL	-	1084.0
-446.0	SPOON	SEELYVILLE	COAL	3.0	1103.0

MAPID: 02900201000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 7E SECTION: 30 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: COOKS MILLS LONGITUDE: -88.453722 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.623415 DATE COLLECTED:

SURFACE ELEVATION (FT.): 666.0 LOGGED (FT.): 1200.0 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	
-24.0	BOND	CARTHAGE	LIMESTONE	7.0	690.0	
-150.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	816.0	
-290.0	CARBONDALE	DANVILLE	COAL	-	956.0	
-374.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1040.0	
-470.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1136.0	
-534.0	CARBONDALE	COLCHESTER	COAL	-	1200.0	

MAPID: 02900397000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 7E SECTION: 33 QUARTERS/FOOTAGES: SW SW SE

QUADRANGLE: COOKS MILLS LONGITUDE: -88.423108 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.609311 DATE COLLECTED:

SURFACE ELEVATION (FT.): 666.0 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.)		COMMENT
				UNIT	OVERBURDEN	
38.0	BOND	CARTHAGE	LIMESTONE	7.0	628.0	
-87.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	753.0	
-218.0	CARBONDALE	DANVILLE	COAL	-	884.0	
-271.0	CARBONDALE	HERRIN	COAL	-	937.0	
-298.0	CARBONDALE	SPRINGFIELD	COAL	3.0	964.0	
-398.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1064.0	
-455.0	CARBONDALE	COLCHESTER	COAL	-	1121.0	

MAPID: 02900469000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 7E SECTION: 34 QUARTERS/FOOTAGES: NE NE SW
 QUADRANGLE: COOKS MILLS LONGITUDE: -88.406838 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.61453 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 1096.0 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	
60.0	BOND	CARTHAGE	LIMESTONE	6.0	590.0	
-67.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	717.0	
-199.0	CARBONDALE	DANVILLE	COAL	-	849.0	
-278.0	CARBONDALE	SPRINGFIELD	COAL	-	928.0	
-390.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1040.0	
-446.0	CARBONDALE	COLCHESTER	COAL	-	1096.0	

MAPID: 02900440000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 7E SECTION: 35 QUARTERS/FOOTAGES: SW NE SW
 QUADRANGLE: COOKS MILLS LONGITUDE: -88.390336 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.612661 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 666.0 LOGGED (FT.): 1113.0 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	
64.0	BOND	CARTHAGE	LIMESTONE	6.0	602.0	
-57.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	723.0	
-197.0	CARBONDALE	DANVILLE	COAL	-	863.0	
-281.0	CARBONDALE	SPRINGFIELD	COAL	3.0	947.0	
-383.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1049.0	
-447.0	CARBONDALE	COLCHESTER	COAL	-	1113.0	

MAPID: 02900290000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 7E SECTION: 36 QUARTERS/FOOTAGES: 660' S line, 660' W line of NW SE

QUADRANGLE: HUMBOLDT LONGITUDE: -88.366032 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.613473 DATE COLLECTED:

SURFACE ELEVATION (FT.): 661.0 LOGGED (FT.): 1112.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: 6 OUT, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
60.0	BOND	CARTHAGE	LIMESTONE	7.0	601.0	
-58.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	719.0	
-186.0	CARBONDALE	DANVILLE	COAL	-	847.0	
-389.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1050.0	
-451.0	CARBONDALE	COLCHESTER	COAL	-	1112.0	

MAPID: 02900171000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 8E SECTION: 19 QUARTERS/FOOTAGES: SE SW NW

QUADRANGLE: ARCOLA LONGITUDE: -88.356174 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.645708 DATE COLLECTED:

SURFACE ELEVATION (FT.): 647.0 LOGGED (FT.): 1110.0 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	
45.0	BOND	CARTHAGE	LIMESTONE	8.0	602.0	
-65.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	712.0	
-191.0	CARBONDALE	DANVILLE	COAL	-	838.0	
-248.0	CARBONDALE	HERRIN	COAL	2.0	895.0	
-279.0	CARBONDALE	HERRIN	COAL	1.0	926.0	LOWER BENCH (CHENOWETH PICK)
-293.0	CARBONDALE	SPRINGFIELD	COAL	-	940.0	
-403.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1050.0	
-463.0	CARBONDALE	COLCHESTER	COAL	-	1110.0	

MAPID: 02900531000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 8E SECTION: 20 QUARTERS/FOOTAGES: 255' N line, 940' E line of NW
 QUADRANGLE: ARCOLA LONGITUDE: -88.334659 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.651385 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 1185.0 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	
-78.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	738.0	
-191.0	CARBONDALE	DANVILLE	COAL	-	851.0	
-297.0	CARBONDALE	HERRIN	COAL	-	957.0	
-313.0	CARBONDALE	SPRINGFIELD	COAL	-	973.0	
-420.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1080.0	
-484.0	CARBONDALE	COLCHESTER	COAL	-	1144.0	
-522.0	SPOON	SEELYVILLE	COAL	3.0	1182.0	

MAPID: 02900572000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 8E SECTION: 20 QUARTERS/FOOTAGES: NW SW SW
 QUADRANGLE: ARCOLA LONGITUDE: -88.33968 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.639942 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 655.0 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.)		COMMENT
				UNIT	OVERBURDEN	
-89.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	744.0	
-204.0	CARBONDALE	DANVILLE	COAL	-	859.0	
-315.0	CARBONDALE	SPRINGFIELD	COAL	-	970.0	
-419.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1074.0	
-484.0	CARBONDALE	COLCHESTER	COAL	-	1139.0	

MAPID: 02900455000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES

TWP/RNG: 14N 8E

SECTION: 21

QUARTERS/FOOTAGES: SE NW NE

QUADRANGLE: ARCOLA

LONGITUDE: -88.308887

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.649304

DATE COLLECTED:

SURFACE ELEVATION (FT.): 673.0

LOGGED (FT.): 1148.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: SS ABOVE #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
17.0	BOND	CARTHAGE	LIMESTONE	7.0	656.0
-87.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	760.0
-204.0	CARBONDALE	DANVILLE	COAL	2.5	877.0
-291.0	CARBONDALE	HERRIN	COAL	-	964.0
-308.0	CARBONDALE	SPRINGFIELD	COAL	-	981.0
-392.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1065.0
-453.0	CARBONDALE	COLCHESTER	COAL	-	1126.0
-472.0	SPOON	SEELYVILLE	COAL	3.0	1145.0

MAPID: 02900123000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES

TWP/RNG: 14N 8E

SECTION: 29

QUARTERS/FOOTAGES: SW SW NW

QUADRANGLE: ARCOLA

LONGITUDE: -88.339704

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.630885

DATE COLLECTED:

SURFACE ELEVATION (FT.): 658.0

LOGGED (FT.): 1176.0

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
8.0	BOND	CARTHAGE	LIMESTONE	8.0	650.0
-97.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	755.0
-217.0	CARBONDALE	DANVILLE	COAL	-	875.0
-323.0	CARBONDALE	SPRINGFIELD	COAL	-	981.0
-427.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1085.0
-493.0	CARBONDALE	COLCHESTER	COAL	-	1151.0
-518.0	SPOON	SEELYVILLE	COAL	-	1176.0

MAPID: 02900403000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES

TWP/RNG: 14N 8E

SECTION: 30

QUARTERS/FOOTAGES: NW NW SE

QUADRANGLE: ARCOLA

LONGITUDE: -88.349133

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.629148

DATE COLLECTED:

SURFACE ELEVATION (FT.): 661.0

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
44.0	BOND	CARTHAGE	LIMESTONE	7.0	617.0
-69.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	730.0
-199.0	CARBONDALE	DANVILLE	COAL	-	860.0
-294.0	CARBONDALE	SPRINGFIELD	COAL	-	955.0
-399.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1060.0
-457.0	CARBONDALE	COLCHESTER	COAL	-	1118.0

MAPID: 02900388000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES

TWP/RNG: 14N 8E

SECTION: 34

QUARTERS/FOOTAGES: SE SE NW

QUADRANGLE: HUMBOLDT

LONGITUDE: -88.294988

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.616854

DATE COLLECTED:

SURFACE ELEVATION (FT.): 655.0

LOGGED (FT.): 1245.5

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: SS #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-78.0	BOND	CARTHAGE	LIMESTONE	7.0	733.0
-185.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	840.0
-289.0	CARBONDALE	DANVILLE	COAL	2.5	944.0
-407.0	CARBONDALE	SPRINGFIELD	COAL	-	1062.0
-503.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1158.0
-555.0	CARBONDALE	COLCHESTER	COAL	-	1210.0
-587.0	SPOON	SEELYVILLE	COAL	3.5	1242.0

MAPID: 02900551000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 9E SECTION: 20 QUARTERS/FOOTAGES: SW NE NE
 QUADRANGLE: HINDSBORO LONGITUDE: -88.217397 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.649026 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 675.0 LOGGED (FT.): 246.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: SS #6, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
522.0	CARBONDALE	HERRIN	COAL	2.0	153.0
509.0	CARBONDALE	SPRINGFIELD	COAL	-	166.0
429.0	CARBONDALE	COLCHESTER	COAL	-	246.0

MAPID: 02900418000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 9E SECTION: 26 QUARTERS/FOOTAGES: SE SE NE
 QUADRANGLE: HINDSBORO LONGITUDE: -88.159617 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.631131 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 693.0 LOGGED (FT.): 357.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: SS #6, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
382.0	CARBONDALE	HERRIN	COAL	2.5	311.0
370.0	CARBONDALE	SPRINGFIELD	COAL	2.0	323.0
336.0	CARBONDALE	HOUCHIN CREEK	COAL	-	357.0

MAPID: 02901875000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 9E SECTION: 27 QUARTERS/FOOTAGES: 40' S line, 220' W line of SW
 QUADRANGLE: CHARLESTON NORTH LONGITUDE: -88.194831 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.623287 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 689.0 LOGGED (FT.): 270.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
462.0	CARBONDALE	HERRIN	COAL	-	227.0
444.0	CARBONDALE	SPRINGFIELD	COAL	2.5	245.0
419.0	CARBONDALE	HOUCHIN CREEK	COAL	-	270.0

MAPID: 02922514000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: COLES **TWP/RNG:** 14N 9E **SECTION:** 28 **QUARTERS/FOOTAGES:** 1573' N line, 36' W line
QUADRANGLE: HINDSBORO **LONGITUDE:** -88.213919 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.633201 **DATE COLLECTED:** 11 / 20 / 1976
SURFACE ELEVATION (FT.): 694.0 **LOGGED (FT.):** 829.0 **LOG TYPE:** Electric Log
SOURCE: HYDROCARBON SURVEY CO-76-3 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

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

- - NO COAL PICKS

MAPID: 02901876000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 14N 9E **SECTION:** 34 **QUARTERS/FOOTAGES:** 1352' S line, 59' E line of SE
QUADRANGLE: CHARLESTON NORTH **LONGITUDE:** -88.17726 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.612192 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 690.0 **LOGGED (FT.):** 306.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GY SH #6, FAIR LOG

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

515.0	CARBONDALE	DANVILLE	COAL	-	175.0	
421.0	CARBONDALE	HERRIN	COAL	2.0	269.0	
406.0	CARBONDALE	SPRINGFIELD	COAL	1.0	284.0	
384.0	CARBONDALE	HOUCHIN CREEK	COAL	-	306.0	

MAPID: 02922518000C **VERSION:** 1 **PROJECT:** ISGS96
COUNTY: COLES **TWP/RNG:** 14N 10E **SECTION:** 11 **QUARTERS/FOOTAGES:** 275' S line, 1290' W line
QUADRANGLE: OAKLAND **LONGITUDE:** -88.058261 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.667338 **DATE COLLECTED:** 0 / 0 / 1976
SURFACE ELEVATION (FT.): 693.0 **LOGGED (FT.):** 251.3 **LOG TYPE:** Company map
SOURCE: HYDROCARBON SURVEY PH-28-CC **WELL TYPE:** Coal Test
COMMENT: DATA FROM 1976 COMPANY MAP

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

693.0			UNCONSOLIDATED	106.0	0.0	
587.0			ROCK	141.0	106.0	
446.0	CARBONDALE	HERRIN	COAL	4.3	247.0	

MAPID: 02922518000C VERSION: 2

PROJECT: CONF

COUNTY: COLES TWP/RNG: 14N 10E SECTION: 11 QUARTERS/FOOTAGES: 275' S line, 1290' W line
 QUADRANGLE: OAKLAND LONGITUDE: -88.058261 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 39.667338 DATE COLLECTED: 10 / 13 / 1976
 SURFACE ELEVATION (FT.): 693.0 LOGGED (FT.): 255.0 LOG TYPE: Survey Core Study
 SOURCE: HYDROCARBON SURVEY PH-28-CC WELL TYPE: Coal Test
 COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
448.8	CARBONDALE	HERRIN	COAL	3.4	244.2	REDRILLED AS 22523

MAPID: 02922523000C VERSION: 1

PROJECT: NCRDS95

COUNTY: COLES TWP/RNG: 14N 10E SECTION: 11 QUARTERS/FOOTAGES: 275' S line, 1286' W line
 QUADRANGLE: OAKLAND LONGITUDE: -88.058275 GEOLOGIST: C TREWORYG
 CONFIDENTIAL: N LATITUDE: 39.667338 DATE COLLECTED: 10 / 27 / 1976
 SURFACE ELEVATION (FT.): 693.0 LOGGED (FT.): 285.0 LOG TYPE: Survey Core Study
 SOURCE: HYDROCARBON SURVEY PH-28-CC WELL TYPE: Coal Test
 COMMENT: ELEC LOG. 3RD CORE. NO. C11314

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
449.1	CARBONDALE	HERRIN	COAL	4.1	243.9	CORE CRUMBLD- THK. BASED ON 1"=2' ELOG
423.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	270.0	BASED ON GAMMA LOG
422.0	CARBONDALE	SPRINGFIELD	COAL	-	271.0	BASED ON GAMMA LOG

MAPID: 02923390000C VERSION: 1

PROJECT: CONF

COUNTY: COLES TWP/RNG: 14N 10E SECTION: 11 QUARTERS/FOOTAGES: 275' S line, 1617' W line
 QUADRANGLE: OAKLAND LONGITUDE: -88.057093 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 39.667343 DATE COLLECTED: 10 / 0 / 1971
 SURFACE ELEVATION (FT.): 651.1 LOGGED (FT.): 448.0 LOG TYPE: Electric Log
 SOURCE: HYDROCARBON SURVEY PH-28 WELL TYPE: Coal Test
 COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
-				-		NO COAL PICKS

MAPID: 02900045000C VERSION: 1

PROJECT: NCRDS87

COUNTY: COLES TWP/RNG: 14N 10E SECTION: 13 QUARTERS/FOOTAGES: SE NW

QUADRANGLE: OAKLAND LONGITUDE: -88.037552 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 39.661457 DATE COLLECTED:

SURFACE ELEVATION (FT.): 654.0 LOGGED (FT.): 414.7 LOG TYPE: Survey Core Study

SOURCE: LOUILLO OIL CO. WELL TYPE: Coal Test

COMMENT: PRECISE LOCATION UNKNOWN

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.0			UNCONSOLIDATED	59.8	0.0	
594.2			SANDSTONE	16.2	59.8	
578.0			CONGLOMERATE	1.5	76.0	
576.5			SANDSTONE	55.0	77.5	
521.5	CARBONDALE	BANKSTON FORK	GRAY LIMESTONE	5.1	132.5	TOP OF CARBONDALE UNKNOWN
516.4	CARBONDALE	ENERGY	SANDSTONE	2.7	137.6	
513.7	CARBONDALE	ENERGY	SHALE	61.3	140.3	
452.4	CARBONDALE	ENERGY	SANDSTONE	35.9	201.6	
416.5	CARBONDALE	ENERGY	SHALE	19.1	237.5	
397.4	CARBONDALE	ENERGY	BLACK SHALE	0.4	256.6	
397.0	CARBONDALE	HERRIN	COAL	4.1	257.0	
392.9	CARBONDALE		UNDERCLAY/SHALE	2.9	261.1	
390.0	CARBONDALE		LIMESTONE	3.0	264.0	
387.0	CARBONDALE		SHALE	6.2	267.0	
380.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	273.2	
380.0	CARBONDALE	SPRINGFIELD	COAL	0.0	274.0	
380.0	CARBONDALE		SHALE	32.8	274.0	
347.2	CARBONDALE	EXCELLO	BLACK SHALE	3.5	306.8	
343.7	CARBONDALE	HOUCHIN CREEK	COAL	2.8	310.3	BASE OF CARBONDALE UNKNOWN
340.9	CARBONDALE		SHALE	11.1	313.1	BASE OF CARBONDALE UNKNOWN
329.8	CARBONDALE		SANDSTONE	4.0	324.2	
325.8	CARBONDALE		SHALE	26.6	328.2	
299.2			ARGILLACEOUS SANDSTONE	9.4	354.8	
289.8			SHALE	11.6	364.2	
278.2			SANDSTONE	38.9	375.8	
239.3			UNCLASSIFIED	0.0	414.7	TOP OF MISSISSIPPIAN

MAPID: 02900045000C VERSION: 2

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 10E SECTION: 13 QUARTERS/FOOTAGES: SE NW

QUADRANGLE: OAKLAND LONGITUDE: -88.037552 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.661457 DATE COLLECTED:

SURFACE ELEVATION (FT.): 654.0 LOGGED (FT.): 315.9 LOG TYPE: Survey Core Study

SOURCE: WELL TYPE: Coal Test

COMMENT: CHEM ANALYSIS, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
521.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	133.0
397.0	CARBONDALE	HERRIN	COAL	4.1	257.0
341.0	CARBONDALE	HOUCHIN CREEK	COAL	2.9	313.0

MAPID: 02923352000C VERSION: 1

PROJECT: ISGS96

COUNTY: COLES TWP/RNG: 14N 10E SECTION: 19 QUARTERS/FOOTAGES: 115' N line, 65' E line

QUADRANGLE: OAKLAND LONGITUDE: -88.120188 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.651526 DATE COLLECTED: 0 / 0 / 1976

SURFACE ELEVATION (FT.): 700.0 LOGGED (FT.): 366.0 LOG TYPE: Company map

SOURCE: HYDROCARBON SURVEY PG-5 WELL TYPE: Coal Test

COMMENT: DATA FROM 1976 COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
700.0			UNCONSOLIDATED	208.0	0.0
492.0			ROCK	155.0	208.0
337.0	CARBONDALE	HERRIN	COAL	3.0	363.0

MAPID: 02923352000C VERSION: 2

PROJECT: CONF

COUNTY: COLES TWP/RNG: 14N 10E SECTION: 19 QUARTERS/FOOTAGES: 115' N line, 65' E line

QUADRANGLE: OAKLAND LONGITUDE: -88.120188 GEOLOGIST: LOG BOOK

CONFIDENTIAL: N LATITUDE: 39.651526 DATE COLLECTED: 8 / 0 / 1971

SURFACE ELEVATION (FT.): 700.0 LOGGED (FT.): 447.0 LOG TYPE: Electric Log

SOURCE: HYDROCARBON SURVEY PG-5 WELL TYPE: Coal Test

COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
337.0	CARBONDALE	HERRIN	COAL	2.0	363.0

MAPID: 02900478000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 10E SECTION: 21 QUARTERS/FOOTAGES: NE NW NE
 QUADRANGLE: OAKLAND LONGITUDE: -88.087781 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.651094 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 636.0 LOGGED (FT.): 356.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
454.0	CARBONDALE	DANVILLE	COAL	-	182.0
325.0	CARBONDALE	HERRIN	COAL	2.5	311.0
313.0	CARBONDALE	SPRINGFIELD	COAL	-	323.0
280.0	CARBONDALE	HOUCHIN CREEK	COAL	-	356.0

MAPID: 02900595000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 10E SECTION: 24 QUARTERS/FOOTAGES: NE NE NW
 QUADRANGLE: OAKLAND LONGITUDE: -88.036677 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.651659 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 344.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GY SH #6, POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
402.0	CARBONDALE	HERRIN	COAL	2.5	258.0
397.0	CARBONDALE	SPRINGFIELD	COAL	2.0	263.0
344.0	CARBONDALE	HOUCHIN CREEK	COAL	-	316.0
316.0	CARBONDALE	COLCHESTER	COAL	-	344.0

MAPID: 02923391000C VERSION: 1

PROJECT: ISGS96

COUNTY: COLES TWP/RNG: 14N 10E SECTION: 24 QUARTERS/FOOTAGES: 335' N line, 80' W line
 QUADRANGLE: OAKLAND LONGITUDE: -88.044617 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.651612 DATE COLLECTED: 0 / 0 / 1976
 SURFACE ELEVATION (FT.): 656.0 LOGGED (FT.): 250.5 LOG TYPE: Company map
 SOURCE: HYDROCARBON SURVEY PG-17 WELL TYPE: Coal Test
 COMMENT: DATA FROM 1976 COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
656.0			UNCONSOLIDATED	51.0	0.0
605.0			ROCK	196.0	51.0
409.0	CARBONDALE	HERRIN	COAL	3.5	247.0

MAPID: 02923391000C **VERSION:** 2 **PROJECT:** CONF
COUNTY: COLES **TWP/RNG:** 14N 10E **SECTION:** 24 **QUARTERS/FOOTAGES:** 335' N line, 80' W line
QUADRANGLE: OAKLAND **LONGITUDE:** -88.044617 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.651612 **DATE COLLECTED:** 9 / 0 / 1971
SURFACE ELEVATION (FT.): 656.0 **LOGGED (FT.):** 445.0 **LOG TYPE:** Electric Log
SOURCE: HYDROCARBON SURVEY PG-17 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-				-		NO COAL PICKS

MAPID: 02900425000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 14N 10E **SECTION:** 26 **QUARTERS/FOOTAGES:** NW NW NE
QUADRANGLE: OAKLAND **LONGITUDE:** -88.05299 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.636929 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 659.0 **LOGGED (FT.):** 332.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
539.0	CARBONDALE	DANVILLE	COAL	-	120.0	
417.0	CARBONDALE	HERRIN	COAL	3.0	242.0	
379.0	CARBONDALE	HOUCHIN CREEK	COAL	-	280.0	
327.0	CARBONDALE	COLCHESTER	COAL	-	332.0	

MAPID: 02923353000C **VERSION:** 1 **PROJECT:** ISGS96
COUNTY: COLES **TWP/RNG:** 14N 10E **SECTION:** 26 **QUARTERS/FOOTAGES:** 195' N line, 180' W line
QUADRANGLE: OAKLAND **LONGITUDE:** -88.062712 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.637142 **DATE COLLECTED:** 0 / 0 / 1976
SURFACE ELEVATION (FT.): 663.0 **LOGGED (FT.):** 249.1 **LOG TYPE:** Company map
SOURCE: HYDROCARBON SURVEY PH-19 **WELL TYPE:** Coal Test
COMMENT: DATA FROM 1976 COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.0			UNCONSOLIDATED	74.0	0.0	
589.0			ROCK	172.0	74.0	
417.0	CARBONDALE	HERRIN	COAL	3.1	246.0	MAP SAYS "3+" FEET OF COAL

MAPID: 02923353000C **VERSION:** 2 **PROJECT:** CONF
COUNTY: COLES **TWP/RNG:** 14N 10E **SECTION:** 26 **QUARTERS/FOOTAGES:** 195' N line, 180' W line
QUADRANGLE: OAKLAND **LONGITUDE:** -88.062712 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.637142 **DATE COLLECTED:** 9 / 0 / 1971
SURFACE ELEVATION (FT.): 663.0 **LOGGED (FT.):** 447.0 **LOG TYPE:** Electric Log
SOURCE: HYDROCARBON SURVEY PH-19 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
417.0	CARBONDALE	HERRIN	COAL	2.0	246.0	

MAPID: 02923354000C **VERSION:** 1 **PROJECT:** ISGS96
COUNTY: COLES **TWP/RNG:** 14N 10E **SECTION:** 28 **QUARTERS/FOOTAGES:** 90' N line, 585' W line
QUADRANGLE: OAKLAND **LONGITUDE:** -88.098718 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.637019 **DATE COLLECTED:** 0 / 0 / 1976
SURFACE ELEVATION (FT.): 654.0 **LOGGED (FT.):** 310.0 **LOG TYPE:** Company map
SOURCE: HYDROCARBON SURVEY PH-4 **WELL TYPE:** Coal Test
COMMENT: DATA FROM 1976 COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.0			UNCONSOLIDATED	166.0	0.0	
488.0			ROCK	141.0	166.0	
347.0	CARBONDALE	HERRIN	COAL	3.0	307.0	

MAPID: 02923354000C **VERSION:** 2 **PROJECT:** CONF
COUNTY: COLES **TWP/RNG:** 14N 10E **SECTION:** 28 **QUARTERS/FOOTAGES:** 90' N line, 585' W line
QUADRANGLE: OAKLAND **LONGITUDE:** -88.098718 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.637019 **DATE COLLECTED:** 0 / 0 / 1971
SURFACE ELEVATION (FT.): 654.0 **LOGGED (FT.):** 447.0 **LOG TYPE:** Electric Log
SOURCE: HYDROCARBON SURVEY PH-4 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
347.0	CARBONDALE	HERRIN	COAL	2.0	307.0	

MAPID: 02923355000C **VERSION:** 1 **PROJECT:** ISGS96
COUNTY: COLES **TWP/RNG:** 14N 10E **SECTION:** 30 **QUARTERS/FOOTAGES:** 290' N line, 1270' W line
QUADRANGLE: HINDSBORO **LONGITUDE:** -88.134942 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.636394 **DATE COLLECTED:** 0 / 0 / 1976
SURFACE ELEVATION (FT.): 677.0 **LOGGED (FT.):** 330.5 **LOG TYPE:** Company map
SOURCE: HYDROCARBON SURVEY PG-2 **WELL TYPE:** Coal Test
COMMENT: DATA FROM 1976 COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.0			UNCONSOLIDATED	98.0	0.0	
579.0			ROCK	229.0	98.0	
350.0	CARBONDALE	HERRIN	COAL	3.5	327.0	

MAPID: 02923355000C **VERSION:** 2 **PROJECT:** CONF
COUNTY: COLES **TWP/RNG:** 14N 10E **SECTION:** 30 **QUARTERS/FOOTAGES:** 290' N line, 1270' W line
QUADRANGLE: HINDSBORO **LONGITUDE:** -88.134942 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.636394 **DATE COLLECTED:** 8 / 0 / 1971
SURFACE ELEVATION (FT.): 677.0 **LOGGED (FT.):** 447.0 **LOG TYPE:** Electric Log
SOURCE: HYDROCARBON SURVEY PG-2 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
350.0	CARBONDALE	HERRIN	COAL	2.5	327.0	

MAPID: 02900487000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 14N 10E **SECTION:** 36 **QUARTERS/FOOTAGES:** 380' N line, 330' E line of SE NE
QUADRANGLE: ASHMORE **LONGITUDE:** -88.027142 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.618802 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 661.0 **LOGGED (FT.):** 303.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GY SH #6, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
561.0	CARBONDALE	DANVILLE	COAL	-	100.0	
450.0	CARBONDALE	HERRIN	COAL	3.5	211.0	
408.0	CARBONDALE	HOUCHIN CREEK	COAL	-	253.0	
358.0	CARBONDALE	COLCHESTER	COAL	-	303.0	

MAPID: 02923873000C **VERSION:** 1 **PROJECT:** ISGS96
COUNTY: COLES **TWP/RNG:** 14N 11E **SECTION:** 29 **QUARTERS/FOOTAGES:** 500' S line, 700' W line
QUADRANGLE: BROCTON **LONGITUDE:** -87.999299 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.628847 **DATE COLLECTED:** 0 / 0 / 1976
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 209.8 **LOG TYPE:** Company map
SOURCE: HYDROCARBON SURVEY 75-D-5 **WELL TYPE:** Coal Test
COMMENT: DATA FROM 1976 COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	61.0	0.0	
-			ROCK	146.0	61.0	
-	CARBONDALE	HERRIN	COAL	2.8	207.0	

MAPID: 02923392000C **VERSION:** 1 **PROJECT:** ISGS96
COUNTY: COLES **TWP/RNG:** 14N 11E **SECTION:** 30 **QUARTERS/FOOTAGES:** 105' N line, 50' W line
QUADRANGLE: OAKLAND **LONGITUDE:** -88.025701 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.64069 **DATE COLLECTED:** 0 / 0 / 1976
SURFACE ELEVATION (FT.): 650.0 **LOGGED (FT.):** 211.0 **LOG TYPE:** Company map
SOURCE: HYDROCARBON SURVEY PH-18 **WELL TYPE:** Coal Test
COMMENT: DATA FROM 1976 COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0			UNCONSOLIDATED	35.0	0.0	
615.0			ROCK	173.0	35.0	
442.0	CARBONDALE	HERRIN	COAL	3.0	208.0	MAP SAYS "3+" FEET OF COAL

MAPID: 02923392000C **VERSION:** 2 **PROJECT:** CONF
COUNTY: COLES **TWP/RNG:** 14N 11E **SECTION:** 30 **QUARTERS/FOOTAGES:** 105' N line, 50' W line
QUADRANGLE: OAKLAND **LONGITUDE:** -88.025701 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.64069 **DATE COLLECTED:** 9 / 0 / 1971
SURFACE ELEVATION (FT.): 650.0 **LOGGED (FT.):** 442.0 **LOG TYPE:** Electric Log
SOURCE: HYDROCARBON SURVEY PH-18 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-				-	-	NO COAL PICKS

MAPID: 02900427000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 11E SECTION: 31 QUARTERS/FOOTAGES: 555' N line, 330' W line
 QUADRANGLE: ASHMORE LONGITUDE: -88.024773 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.625009 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 664.0 LOGGED (FT.): 304.0 LOG TYPE: Electric Log
 SOURCE:
 COMMENT: STRUCT, GOOD LOG WELL TYPE: Oil and Gas Test

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
448.0	CARBONDALE	HERRIN	COAL	3.5	216.0	
405.0	CARBONDALE	HOUCHIN CREEK	COAL	-	259.0	
360.0	CARBONDALE	COLCHESTER	COAL	-	304.0	

MAPID: 02923540000C VERSION: 1

PROJECT: ISGS90

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 7 QUARTERS/FOOTAGES: 275' S line, 390' E line
 QUADRANGLE: OAKLAND LONGITUDE: -88.004786 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.671447 DATE COLLECTED: 6 / 24 / 1989
 SURFACE ELEVATION (FT.): 653.1 LOGGED (FT.): 207.1 LOG TYPE: Multiple log types
 SOURCE: AMCO-IL NO. AM8909 WELL TYPE: Coal Test
 COMMENT: DRILLERS LOG&CORE 1094398.94N 592286.41E

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.1			CLAY	14.0	0.0	UNITS 1-10 FROM DRILLER'S LOG; TAN
639.1			CLAY	4.0	14.0	GRAY
635.1			SAND	2.0	18.0	
633.1			CLAY	19.0	20.0	GRAY
614.1			SAND & GRAVEL	2.0	39.0	
612.1			CLAY	19.0	41.0	W/SAND STREAKS; GRAY
593.1			GRAVEL	12.0	60.0	W/CLAY STREAKS
581.1	CARBONDALE		SHALE	4.0	72.0	
577.1	CARBONDALE	BANKSTON FORK	LIMESTONE	4.3	76.0	
572.8	CARBONDALE	ENERGY	SHALE	94.7	80.3	
478.1	CARBONDALE	ENERGY	SILTY SHALE	21.2	175.0	UNITS 11-23/CORE W/SM SIDERITE SD&NODULE
456.9	CARBONDALE	HERRIN	COAL	2.6	196.2	
454.3	CARBONDALE	HERRIN	SHALE	0.0	198.8	
454.3	CARBONDALE	HERRIN	COAL	0.2	198.8	
454.1	CARBONDALE	HERRIN	SHALY COAL	0.2	199.0	
453.9	CARBONDALE	HERRIN	COAL	1.1	199.2	
452.8	CARBONDALE		SHALE	0.2	200.3	
452.6	CARBONDALE		SHALE	0.6	200.5	SLICKENSIDED
452.0	CARBONDALE		CALCAREOUS SHALE	0.8	201.1	SLICKENSIDED
451.2	CARBONDALE		CALCAREOUS SHALE	0.8	201.9	SLICKENSIDED
450.4	CARBONDALE		CALCAREOUS SHALE	0.7	202.7	
449.7	CARBONDALE		SHALE	0.3	203.4	
449.4	CARBONDALE		LIMESTONE	3.4	203.7	GRAY

MAPID: 02923536000C VERSION: 1

PROJECT: ISGS90

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 8 QUARTERS/FOOTAGES: 90' S line, 120' E line
 QUADRANGLE: BROCTON LONGITUDE: -87.985376 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.671066 DATE COLLECTED: 6 / 12 / 1989
 SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 180.0 LOG TYPE: Multiple log types
 SOURCE: AMCO-IL NO.AM8901 WELL TYPE: Coal Test
 COMMENT: DRILLER'S LOG&CORE 1094374.68N 597958.0E

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0			UNCONSOLIDATED	74.0	0.0	UNITS 1-5 FROM DRILLER'S LOG
588.0	CARBONDALE	ENERGY	SHALE	7.5	74.0	
580.5	CARBONDALE	ENERGY	SILTY SHALE	4.5	81.5	
576.0	CARBONDALE	ENERGY	SHALE	14.0	86.0	
562.0	CARBONDALE	ENERGY	SILTY SHALE	40.0	100.0	
522.0	CARBONDALE	ENERGY	SHALE	4.0	140.0	UNITS 6-19 FROM CORE/SMALL SIDERITIC LEN
518.0	CARBONDALE	ENERGY	SHALE	0.2	144.0	
517.8	CARBONDALE	ENERGY	SHALE	20.9	144.2	W/SMALL SIDERITIC BANDS & LENSES
496.8	CARBONDALE	HERRIN	COAL	2.6	165.2	
494.3	CARBONDALE	HERRIN	SHALE	0.0	167.7	
494.2	CARBONDALE	HERRIN	COAL	0.2	167.8	
494.1	CARBONDALE	HERRIN	COAL WITH SHALE	0.2	167.9	GRAY
493.9	CARBONDALE	HERRIN	COAL	1.2	168.1	
492.7	CARBONDALE		SHALE	1.5	169.3	SLICKENSIDED; GRAY/GRN
491.2	CARBONDALE		CALCAREOUS SHALE	2.6	170.8	
488.7	CARBONDALE		LIMESTONE	2.7	173.3	OOLITIC W/ GY GN SIDERITIC LENSES
486.0	CARBONDALE		CALCAREOUS SHALE	0.9	176.0	
485.1	CARBONDALE		LIMESTONE	0.4	176.9	GRAY
484.7	CARBONDALE		SHALE	2.7	177.3	

MAPID: 02923548000C VERSION: 1

PROJECT: ISGS90

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 8 QUARTERS/FOOTAGES:
 QUADRANGLE: BROCTON LONGITUDE: -87.994294 GEOLOGIST: COLIN
 CONFIDENTIAL: N LATITUDE: 39.678145 DATE COLLECTED: 6 / 9 / 1989
 SURFACE ELEVATION (FT.): 646.6 LOGGED (FT.): 137.0 LOG TYPE: Gamma Ray Density
 SOURCE: AMCO-IL NO. AM8905 WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.6			UNCONSOLIDATED	74.0	0.0	
572.6	CARBONDALE	ENERGY	SHALE & SILTSTONE	49.7	74.0	
522.9	CARBONDALE	HERRIN	COAL	3.0	123.7	EXPANDED SCALE LOG 110-137'
519.9	CARBONDALE	HERRIN	SHALE	0.1	126.7	
519.8	CARBONDALE	HERRIN	COAL	1.0	126.8	
518.8	CARBONDALE		UNCLASSIFIED	9.2	127.8	SHALE & UNDERCLAY

MAPID: 02923877000C VERSION: 1

PROJECT: LUMP

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 8 QUARTERS/FOOTAGES: SE SE

QUADRANGLE: BROCTON LONGITUDE: -87.986179 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 39.674585 DATE COLLECTED: 6 / 13 / 1985

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 179.9 LOG TYPE: Drillers Log

SOURCE: ENERGY RESOURCE DEVELOPMENT C-60 WELL TYPE: Coal Test

COMMENT: PERMIT 166; AMCO-ILLINOIS #1 MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0	PLEISTOCENE		UNCONSOLIDATED	62.0	0.0	
600.0	CARBONDALE	ENERGY	SANDSTONE	5.0	62.0	CORING BEGAN
595.0	CARBONDALE	ENERGY	SILTSTONE	9.2	67.0	
585.8	CARBONDALE	ENERGY	GRAY SHALE	12.4	76.2	
573.4	CARBONDALE	ENERGY	CORE LOSS	2.4	88.6	
571.0	CARBONDALE	ENERGY	GRAY SHALE	4.5	91.0	
566.5	CARBONDALE	ENERGY	SILTSTONE	12.5	95.5	W/ SS LAMS UP TO 0.5'
554.0	CARBONDALE	ENERGY	SILTY SHALE	27.8	108.0	GRADES TO SHALE IN LOWER 5'
526.2	CARBONDALE	ENERGY	CARBONACEOUS SHALE	1.5	135.8	FISSILE, SOME PLANT FOSSILS; DARK GRAY
524.7	CARBONDALE	ENERGY	SHALE	20.7	137.3	IRONST. BANDS; V. FISSILE; DARK GRAY
504.0	CARBONDALE	HERRIN	COAL	4.1	158.0	
499.9	CARBONDALE		CLAYSTONE	1.8	162.1	COAL STRINGER; VERT. SLICKS
498.2	CARBONDALE		CALCAREOUS CLAYSTONE	0.2	163.8	W/ LS NODS
498.0	CARBONDALE		CORE LOSS	0.2	164.0	
497.8	CARBONDALE		CALCAREOUS CLAYSTONE	1.8	164.2	W/ LS NODS
496.0	CARBONDALE		LIMESTONE	3.8	166.0	MASSIVE W/ 0.5' CLAYST. PTG.
492.2	CARBONDALE		CLAYSTONE	2.4	169.8	SL. SILTY, WEAK, FRACTURES
489.9	CARBONDALE		CARBONACEOUS SHALE	1.5	172.1	SL. CALC; WEAK FRACTURES
488.4	CARBONDALE		CALCAREOUS CLAYSTONE	6.3	173.6	

MAPID: 02923878000C VERSION: 1

PROJECT: LUMP

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 8 QUARTERS/FOOTAGES: SE SE

QUADRANGLE: BROCTON LONGITUDE: -87.988843 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 39.674605 DATE COLLECTED: 6 / 18 / 1985

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 170.1 LOG TYPE: Drillers Log

SOURCE: ENERGY RESOURCE DEVELOPMENT C-61 WELL TYPE: Coal Test

COMMENT: PERMIT 166; AMSO-ILLINOIS #1 MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0	PLEISTOCENE		UNCONSOLIDATED	66.0	0.0	
594.0	CARBONDALE	ENERGY	SILTSTONE	9.9	66.0	CORING BEGAN; W/ SS LAMS
584.1	CARBONDALE	ENERGY	GRAY SHALE	1.8	75.9	
582.3	CARBONDALE	ENERGY	SHALE	17.3	77.7	W/ CALC. IRONST. BANDS
565.0	CARBONDALE	ENERGY	SILTSTONE	9.5	95.0	W/ V. FINE SS LAMS.
555.5	CARBONDALE	ENERGY	SANDSTONE	1.5	104.5	X-BEDS; W/ SILTST LAMS
554.0	CARBONDALE	ENERGY	SILTY SHALE	27.5	106.0	GRADES TO SH IN LOWER 4.8'
526.5	CARBONDALE	ENERGY	CARBONACEOUS SHALE	1.7	133.5	MED. TO DK. GRAY; V. FISSILE
524.8	CARBONDALE	ENERGY	SHALE	21.6	135.2	W/ SILTYSH LAMS; IRONST BANDS
503.3	CARBONDALE	HERRIN	COAL	4.4	156.7	
498.9	CARBONDALE		CLAYSTONE	5.0	161.1	
494.0	CARBONDALE		LIMESTONE	2.3	166.0	MASSIVE, HARD, V. LT. GRAY
491.7	CARBONDALE		CALCAREOUS CLAYSTONE	1.9	168.3	W/ ARGILL. LS AT BASE

MAPID: 02923395000C VERSION: 1

PROJECT: ISGS96

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 9 QUARTERS/FOOTAGES: 54' S line, 50' E line of NE

QUADRANGLE: BROCTON LONGITUDE: -87.966336 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.678587 DATE COLLECTED: 10 / 22 / 1976

SURFACE ELEVATION (FT.): 656.0 LOGGED (FT.): 183.0 LOG TYPE: Company map

SOURCE: HYDROCARBON SURVEY CO-76-5 WELL TYPE: Coal Test

COMMENT: DATA FROM 1976 COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
656.0			UNCONSOLIDATED	79.0	0.0	
577.0			ROCK	90.0	79.0	
487.0	CARBONDALE	HERRIN	COAL	4.2	169.0	

MAPID: 02923395000C VERSION: 2

PROJECT: CONF

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 9 QUARTERS/FOOTAGES: 54' S line, 50' E line of NE
 QUADRANGLE: BROCTON LONGITUDE: -87.966336 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 39.678587 DATE COLLECTED: 10 / 22 / 1976
 SURFACE ELEVATION (FT.): 656.0 LOGGED (FT.): 183.0 LOG TYPE: Electric Log
 SOURCE: HYDROCARBON SURVEY C0-76-5 WELL TYPE: Coal Test
 COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-				-		NO COAL PICKS

MAPID: 02923545000C VERSION: 1

PROJECT: ISGS90

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 9 QUARTERS/FOOTAGES: 45' S line, 50' E line
 QUADRANGLE: BROCTON LONGITUDE: -87.966152 GEOLOGIST: C TREWORYG
 CONFIDENTIAL: N LATITUDE: 39.671151 DATE COLLECTED: 6 / 15 / 1989
 SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 180.0 LOG TYPE: Multiple log types
 SOURCE: AMCO-IL NO.AM8903 WELL TYPE: Coal Test
 COMMENT: DRILLERS LOG&CORE 1094372.53N 603339.38E

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0			CLAY	8.0	0.0	UNITS 1-4 FROM DRILLERS LOG; TAN
642.0			UNCONSOLIDATED	48.0	8.0	
594.0	CARBONDALE	ENERGY	SHALE	14.0	56.0	
580.0	CARBONDALE	ENERGY	SHALE	87.0	70.0	
493.0	CARBONDALE	ENERGY	SHALE	1.0	157.0	SLICKENSIDED
492.0	CARBONDALE	HERRIN	COAL	3.0	158.0	
489.0	CARBONDALE	HERRIN	SHALE	0.1	161.0	
488.9	CARBONDALE	HERRIN	COAL	1.2	161.1	
487.8	CARBONDALE		SHALE	1.6	162.2	SLICKENSIDED; GRAY/GRN
486.2	CARBONDALE		CALCAREOUS SHALE	1.6	163.8	W/SMALL LS NODULES
484.5	CARBONDALE		LIMESTONE	2.0	165.5	GRAY
482.6	CARBONDALE		LIMESTONE	3.0	167.4	W/GREEN SHALE LENSES & BANDS; GRAY
479.6	CARBONDALE		SHALE	0.6	170.4	GRAY/GRN

MAPID: 02923546000C VERSION: 1

PROJECT: ISGS90

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 9 QUARTERS/FOOTAGES: 47' N line, 40' E line

QUADRANGLE: BROCTON LONGITUDE: -87.966477 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.68572 DATE COLLECTED: 6 / 14 / 1989

SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 145.0 LOG TYPE: Multiple log types

SOURCE: AMCO-IL NO.8902A WELL TYPE: Coal Test

COMMENT: DRILLERS LOG&CORE 1099640.48N 603258.18E

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.0			CLAY	15.0	0.0	UNITS 1-3 FROM DRILLER'S LOG; BRN
640.0			UNCONSOLIDATED	51.0	15.0	
589.0	CARBONDALE	ENERGY	SHALE	57.0	66.0	
532.0	CARBONDALE	ENERGY	SHALE	5.2	123.0	UNITS 4-16(CORE)/SIDERITE BAND-LENSES
526.8	CARBONDALE	HERRIN	COAL	2.8	128.2	BRIT&DUL
524.1	CARBONDALE	HERRIN	SHALE	0.0	130.9	
524.0	CARBONDALE	HERRIN	COAL	0.2	131.0	
523.9	CARBONDALE	HERRIN	SHALE	0.0	131.1	
523.9	CARBONDALE	HERRIN	COAL	1.0	131.1	
522.8	CARBONDALE		SHALE	0.2	132.2	SLICKENSIDED
522.6	CARBONDALE		SHALE	1.3	132.4	GRAY/GRN
521.3	CARBONDALE		CALCAREOUS SHALE	1.5	133.7	
519.9	CARBONDALE		LIMESTONE	1.2	135.1	GRAY
518.7	CARBONDALE		SHALE	0.1	136.3	
518.6	CARBONDALE		LIMESTONE	0.8	136.4	GRAY
517.7	CARBONDALE		SHALE	0.7	137.3	

MAPID: 02923547000C VERSION: 1

PROJECT: ISGS90

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 9 QUARTERS/FOOTAGES: 35' N line, 20' E line

QUADRANGLE: BROCTON LONGITUDE: -87.966405 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.685755 DATE COLLECTED: 6 / 13 / 1989

SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 148.0 LOG TYPE: Multiple log types

SOURCE: AMCO-IL NO.AM8902 WELL TYPE: Coal Test

COMMENT: DRILLER'S LOG 1099651.72N 603278.03E

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.0			CLAY	15.0	0.0	ALL FROM DRILLER'S LOG UNITS 1-9; TAN
640.0			SAND & GRAVEL	4.0	15.0	
636.0			SANDY CLAY	47.0	19.0	GRAY
589.0	CARBONDALE	ENERGY	SHALE	15.5	66.0	
573.5	CARBONDALE	ENERGY	SHALE	47.5	81.5	
526.0	CARBONDALE	HERRIN	COAL	4.0	129.0	
522.0	CARBONDALE		SHALE	2.5	133.0	
519.5	CARBONDALE		LIMESTONE	2.5	135.5	
517.0	CARBONDALE		SHALE	10.0	138.0	

MAPID: 02923549000C VERSION: 1

PROJECT: ISGS90

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 9 QUARTERS/FOOTAGES: 37' N line, 40' E line

QUADRANGLE: BROCTON LONGITUDE: -87.966476 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.685747 DATE COLLECTED: 6 / 20 / 1989

SURFACE ELEVATION (FT.): 647.0 LOGGED (FT.): 141.0 LOG TYPE: Multiple log types

SOURCE: AMCO-IL NO.AM8905A WELL TYPE: Coal Test

COMMENT: DRILLER'S LOG 1099553.29N 597897,92E

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
647.0			UNCONSOLIDATED	81.5	0.0	UNITS 1 & 2 FROM DRILLER'S LOG
565.5	CARBONDALE	ENERGY	SHALE	36.5	81.5	
529.0	CARBONDALE	ENERGY	SHALE	5.1	118.0	UNITS 3 THRU 15 FROM CORE
523.9	CARBONDALE	HERRIN	COAL	2.7	123.1	MODERATELY WELL DEVELOPED CLEATS
521.2	CARBONDALE	HERRIN	SHALE	0.0	125.8	
521.2	CARBONDALE	HERRIN	COAL	0.2	125.8	
521.1	CARBONDALE	HERRIN	COAL WITH SHALE	0.2	125.9	
520.9	CARBONDALE	HERRIN	COAL	0.6	126.1	
520.3	CARBONDALE	HERRIN	PYRITE	0.0	126.7	
520.3	CARBONDALE	HERRIN	COAL	0.5	126.7	
519.7	CARBONDALE		SHALE	0.0	127.3	
519.7	CARBONDALE		SHALE	1.5	127.3	SLICKENSIDED; GREY/GRN
518.2	CARBONDALE		SHALE	0.2	128.8	W/LS PEBBLES; GRAY/GRN
518.0	CARBONDALE		LIMESTONE	1.9	129.0	GRAY
516.1	CARBONDALE		CALCAREOUS SHALE	2.1	130.9	LS NODULES

MAPID: 02922519000C VERSION: 1

PROJECT: ISGS96

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 16 QUARTERS/FOOTAGES: 470' S line, 80' E line

QUADRANGLE: BROCTON LONGITUDE: -87.96609 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.657973 DATE COLLECTED: 10 / 14 / 1974

SURFACE ELEVATION (FT.): 661.0 LOGGED (FT.): 250.0 LOG TYPE: Nuclear Log

SOURCE: HYDROCARBON SURVEY PH-20-CC WELL TYPE: Coal Test

COMMENT: DATA FROM 1"=2' GAMMA/REISTIVITY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.0			UNCONSOLIDATED	71.0	0.0	
590.0			ROCK	167.0	71.0	
423.0			COAL	0.9	238.0	
422.1			ROCK	0.5	238.9	
421.6			COAL	3.7	239.4	

MAPID: 02922519000C **VERSION:** 2 **PROJECT:** CONF
COUNTY: COLES **TWP/RNG:** 14N 14W **SECTION:** 16 **QUARTERS/FOOTAGES:** 470' S line, 80' E line
QUADRANGLE: BROCTON **LONGITUDE:** -87.96609 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.657973 **DATE COLLECTED:** 10 / 14 / 1976
SURFACE ELEVATION (FT.): 661.0 **LOGGED (FT.):** 250.0 **LOG TYPE:** Survey Core Study
SOURCE: HYDROCARBON SURVEY PH-20-CC **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
429.0	CARBONDALE	HERRIN	COAL	5.0	232.0	

MAPID: 02923393000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: COLES **TWP/RNG:** 14N 14W **SECTION:** 16 **QUARTERS/FOOTAGES:** 342' N line, 35' W line
QUADRANGLE: BROCTON **LONGITUDE:** -87.984798 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.669877 **DATE COLLECTED:** 11 / 0 / 1971
SURFACE ELEVATION (FT.): 662.0 **LOGGED (FT.):** 447.0 **LOG TYPE:** Electric Log
SOURCE: HYDROCARBON SURVEY PH-39 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-				-		NO COAL PICKS

MAPID: 02923541000C VERSION: 1

PROJECT: ISGS90

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 16 QUARTERS/FOOTAGES: 30' S line, 50' W line of NE

QUADRANGLE: BROCTON LONGITUDE: -87.975164 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.663764 DATE COLLECTED: 6 / 25 / 1989

SURFACE ELEVATION (FT.): 651.0 LOGGED (FT.): 200.9 LOG TYPE: Multiple log types

SOURCE: AMCO-IL NO. AM8910 WELL TYPE: Coal Test

COMMENT: DRILLERS LOG&CORE 1091677.60N 601000.38E

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.0			SANDY CLAY	16.0	0.0	UNITS 1-7 FROM DRILLER'S LOG
635.0			CLAY	4.0	16.0	GRAY
631.0			SAND & GRAVEL	20.0	20.0	
611.0			CLAY	18.0	40.0	GRAY
593.0			SHALE	19.0	58.0	
574.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	77.0	
570.0	CARBONDALE	ENERGY	SHALE	106.0	81.0	
464.0	CARBONDALE	ENERGY	SILTY SHALE	2.0	187.0	UNITS 8-17 FROM CORE
462.0	CARBONDALE	ENERGY	SIDERITE	0.1	189.0	BRN
461.9	CARBONDALE	ENERGY	SHALE	3.2	189.1	
458.7	CARBONDALE	HERRIN	COAL	2.8	192.3	
455.9	CARBONDALE	HERRIN	SHALE	0.0	195.1	
455.9	CARBONDALE	HERRIN	COAL	1.2	195.1	
454.7	CARBONDALE	HERRIN	COAL	0.2	196.3	
454.5	CARBONDALE		SHALE	1.4	196.5	GRAY/GRN
453.1	CARBONDALE		SHALE	1.1	197.9	
452.0	CARBONDALE		LIMESTONE	1.9	199.0	GRAY

MAPID: 02900065000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 17 QUARTERS/FOOTAGES: NE NE

QUADRANGLE: BROCTON LONGITUDE: -87.987214 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.668977 DATE COLLECTED: 5 / 0 / 1920

SURFACE ELEVATION (FT.): 661.0 LOGGED (FT.): 229.8 LOG TYPE: Survey Core Study

SOURCE: LOUILLO OIL CO. 2 WELL TYPE: Coal Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
496.0	CARBONDALE	HERRIN	COAL	4.3	165.0	
433.8	CARBONDALE	HOUCHIN CREEK	COAL	2.8	227.2	

MAPID: 02900473000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 19 QUARTERS/FOOTAGES: 6' S line, 330' W line of NE SW
 QUADRANGLE: OAKLAND LONGITUDE: -88.011511 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.644911 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 653.0 LOGGED (FT.): 296.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: STRUCT, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
443.0	CARBONDALE	HERRIN	COAL	2.5	210.0	
433.0	CARBONDALE	SPRINGFIELD	COAL	-	220.0	
403.0	CARBONDALE	HOUCHIN CREEK	COAL	-	250.0	
357.0	CARBONDALE	COLCHESTER	COAL	-	296.0	

MAPID: 02922520000C VERSION: 1

PROJECT: ISGS96

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 19 QUARTERS/FOOTAGES: 775' N line, 610' E line
 QUADRANGLE: OAKLAND LONGITUDE: -88.005314 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.654048 DATE COLLECTED: 0 / 0 / 1976
 SURFACE ELEVATION (FT.): 667.0 LOGGED (FT.): 208.4 LOG TYPE: Company map
 SOURCE: HYDROCARBON SURVEY PG-26-CC WELL TYPE: Coal Test
 COMMENT: DATA FROM 1976 COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.0			UNCONSOLIDATED	60.0	0.0	
607.0			ROCK	145.0	60.0	
462.0	CARBONDALE	HERRIN	COAL	3.4	205.0	

MAPID: 02922520000C VERSION: 2

PROJECT: CONF

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 19 QUARTERS/FOOTAGES: 775' N line, 610' E line
 QUADRANGLE: OAKLAND LONGITUDE: -88.005314 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 39.654048 DATE COLLECTED: 10 / 16 / 1976
 SURFACE ELEVATION (FT.): 667.0 LOGGED (FT.): 214.0 LOG TYPE: Survey Core Study
 SOURCE: HYDROCARBON SURVEY PG-26-CC WELL TYPE: Coal Test
 COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
468.6	CARBONDALE	HERRIN	COAL	3.7	198.4	

MAPID: 02923394000C VERSION: 1

PROJECT: ISGS96

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 20 QUARTERS/FOOTAGES: 528' S line, 70' E line
 QUADRANGLE: BROCTON LONGITUDE: -87.984545 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.643024 DATE COLLECTED: 0 / 0 / 1976
 SURFACE ELEVATION (FT.): 653.0 LOGGED (FT.): 216.5 LOG TYPE: Company map
 SOURCE: HYDROCARBON SURVEY PG-18 WELL TYPE: Coal Test
 COMMENT: DATA FROM 1976 COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.0			UNCONSOLIDATED	52.0	0.0	
601.0			ROCK	161.0	52.0	
440.0	CARBONDALE	HERRIN	COAL	3.5	213.0	

MAPID: 02923394000C VERSION: 2

PROJECT: CONF

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 20 QUARTERS/FOOTAGES: 528' S line, 70' E line
 QUADRANGLE: BROCTON LONGITUDE: -87.984545 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 39.643024 DATE COLLECTED: 9 / 0 / 1971
 SURFACE ELEVATION (FT.): 653.0 LOGGED (FT.): 448.0 LOG TYPE: Electric Log
 SOURCE: HYDROCARBON SURVEY PG-18 WELL TYPE: Coal Test
 COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-				-		NO COAL PICKS

MAPID: 02923544000C VERSION: 1

PROJECT: ISGS90

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 20 QUARTERS/FOOTAGES: 10' N line, 38' W line
 QUADRANGLE: OAKLAND LONGITUDE: -88.003089 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.656206 DATE COLLECTED: 6 / 16 / 1989
 SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 211.0 LOG TYPE: Multiple log types
 SOURCE: AMCO-IL NO.AM8904 WELL TYPE: Coal Test
 COMMENT: DRILLERS LOG&CORE 1088777.38N 592943.38E

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0			CLAY	16.0	0.0	UNIT 1-6 FROM DRILLERS LOG; TAN
646.0			SAND/CLAY	55.0	16.0	
591.0			SHALE	3.0	71.0	
588.0	CARBONDALE		SHALE	15.5	74.0	
572.5	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	89.5	
568.5	CARBONDALE	ENERGY	SHALE	90.5	93.5	
478.0	CARBONDALE	ENERGY	SILTY SHALE	3.0	184.0	UNITS 7-34 FROM CORE
475.0	CARBONDALE	ENERGY	SIDERITE	0.1	187.0	BRN
474.9	CARBONDALE	ENERGY	SILTY SHALE	0.9	187.1	
474.1	CARBONDALE	ENERGY	SIDERITE	0.0	187.9	BRN
474.0	CARBONDALE	ENERGY	SILTY SHALE	0.7	188.0	
473.4	CARBONDALE	ENERGY	SIDERITE	0.1	188.6	BRN
473.3	CARBONDALE	ENERGY	SILTY SHALE	1.8	188.7	
471.5	CARBONDALE	ENERGY	SIDERITE	0.0	190.5	BRN
471.5	CARBONDALE	ENERGY	SILTY SHALE	2.7	190.5	
468.7	CARBONDALE	ENERGY	SIDERITE	0.0	193.3	BRN
468.7	CARBONDALE	ENERGY	SHALE	0.6	193.3	
468.1	CARBONDALE	ENERGY	SIDERITE	0.0	193.9	BRN
468.1	CARBONDALE	ENERGY	SHALE	1.2	193.9	
466.9	CARBONDALE	ENERGY	SIDERITE	0.2	195.1	BRN
466.7	CARBONDALE	ENERGY	SHALE	1.2	195.3	
465.5	CARBONDALE	ENERGY	SIDERITE	0.2	196.5	BRN
465.4	CARBONDALE	ENERGY	SHALE	3.6	196.6	W/BANDS & LENSES OF SIDERITE
461.8	CARBONDALE	ENERGY	SHALE	0.2	200.2	
461.7	CARBONDALE	HERRIN	COAL	2.4	200.3	
459.3	CARBONDALE	HERRIN	SHALE	0.0	202.7	
459.3	CARBONDALE	HERRIN	COAL	0.2	202.7	
459.1	CARBONDALE	HERRIN	COAL WITH SHALE	0.1	202.9	INTERBEDDED
459.0	CARBONDALE	HERRIN	COAL	1.1	203.0	
457.9	CARBONDALE		SHALE	0.8	204.1	
457.1	CARBONDALE		LIMESTONE	3.3	204.9	GRAY
453.8	CARBONDALE		SHALE	1.7	208.2	GRAY/GRN
452.1	CARBONDALE		LIMESTONE	0.2	209.9	GRAY
451.9	CARBONDALE		SHALE	0.9	210.1	GRAY/GRN

MAPID: 02923538000C VERSION: 1

PROJECT: ISGS90

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 21 QUARTERS/FOOTAGES: 20' N line, 45' W line

QUADRANGLE: BROCTON LONGITUDE: -87.984502 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.656133 DATE COLLECTED: 6 / 22 / 1989

SURFACE ELEVATION (FT.): 654.4 LOGGED (FT.): 204.4 LOG TYPE: Multiple log types

SOURCE: AMCO-IL NO.AM8907 WELL TYPE: Coal Test

COMMENT: DRILLERS LOG&CORE 1088923.11N 598245.72E

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.4			CLAY	14.0	0.0	UNITS 1-10 FROM DRILLERS LOG; BRN
640.4			CLAY	6.0	14.0	GRAY
634.4			UNCONSOLIDATED	40.0	20.0	
594.4			SHALE	21.0	60.0	
573.4	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	81.0	
570.4	CARBONDALE		SHALE	6.0	84.0	
564.4	CARBONDALE	ENERGY	SANDSTONE/SHALE	32.0	90.0	
532.4	CARBONDALE	ENERGY	SHALE	26.0	122.0	
506.4	CARBONDALE	ENERGY	SANDSTONE/SHALE	12.0	148.0	
494.4	CARBONDALE	ENERGY	SANDY SHALE	20.0	160.0	
474.4	CARBONDALE	ENERGY	SILTY SHALE	0.8	180.0	UNITS 11-39 FROM CORE
473.6	CARBONDALE	ENERGY	SIDERITE	0.1	180.8	
473.5	CARBONDALE	ENERGY	SHALE	1.2	180.9	
472.3	CARBONDALE	ENERGY	SIDERITE	0.0	182.1	BRN
472.3	CARBONDALE	ENERGY	SHALE	1.9	182.1	
470.4	CARBONDALE	ENERGY	SIDERITE	0.1	184.0	BRN
470.3	CARBONDALE	ENERGY	SHALE	0.3	184.1	
470.0	CARBONDALE	ENERGY	SIDERITE	0.0	184.4	BRN
470.0	CARBONDALE	ENERGY	SHALE	1.2	184.4	
468.8	CARBONDALE	ENERGY	SIDERITE	0.1	185.6	BRN
468.7	CARBONDALE	ENERGY	SHALE	0.9	185.7	
467.8	CARBONDALE	ENERGY	SIDERITE	0.1	186.6	BRN
467.7	CARBONDALE	ENERGY	SHALE	1.9	186.7	
465.8	CARBONDALE	ENERGY	SIDERITE	0.0	188.6	BRN
465.8	CARBONDALE	ENERGY	SHALE	0.9	188.6	
464.9	CARBONDALE	ENERGY	SIDERITE	0.1	189.5	BRN
464.8	CARBONDALE	ENERGY	SHALE	4.8	189.6	
460.0	CARBONDALE	ENERGY	SIDERITE	0.0	194.4	
459.9	CARBONDALE	ENERGY	SHALE	0.1	194.5	
459.8	CARBONDALE	ENERGY	SIDERITE	0.1	194.6	
459.8	CARBONDALE	ENERGY	SHALE	1.3	194.6	
458.4	CARBONDALE	ENERGY	SIDERITE	0.1	196.0	
458.4	CARBONDALE	ENERGY	SHALE	3.0	196.0	LICALLY SIDERITIC
455.4	CARBONDALE	HERRIN	COAL	2.4	199.0	
452.9	CARBONDALE	HERRIN	SHALE	0.0	201.5	
452.9	CARBONDALE	HERRIN	COAL	1.3	201.5	
451.6	CARBONDALE		SHALE	0.6	202.8	
451.0	CARBONDALE		CALCAREOUS SHALE	0.7	203.4	SLIGHTLY CALCAREOUS
450.3	CARBONDALE		LIMESTONE	0.3	204.1	GRAY



MAPID: 02923539000C VERSION: 1

PROJECT: ISGS90

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 21 QUARTERS/FOOTAGES: 48' N line, 0' W line

QUADRANGLE: BROCTON LONGITUDE: -87.98466 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.656053 DATE COLLECTED: 6 / 23 / 1989

SURFACE ELEVATION (FT.): 657.0 LOGGED (FT.): 234.6 LOG TYPE: Multiple log types

SOURCE: AMCO-IL NO. AM8908 WELL TYPE: Coal Test

COMMENT: DRILLERS LOG&CORE 1088948.02N 603185.40E

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
657.0			CLAY	14.0	0.0	UNIT 1-15 FROM DRILLER'S LOG; TAN
643.0			SAND	2.0	14.0	
641.0			UNCONSOLIDATED	54.0	16.0	
587.0			SHALE	3.0	70.0	RED/GRAY
584.0			SHALE	3.0	73.0	
581.0			SANDY SHALE	7.0	76.0	
574.0			SHALE	9.0	83.0	
565.0			SHALE	3.0	92.0	
562.0	CARBONDALE		SHALE	13.0	95.0	
549.0	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	108.0	
543.0	CARBONDALE	ENERGY	SHALE & SANDSTONE	6.0	114.0	
537.0	CARBONDALE	ENERGY	SHALE	50.0	120.0	
487.0	CARBONDALE	ENERGY	SANDY SHALE	4.0	170.0	
483.0	CARBONDALE	ENERGY	SANDSTONE	6.0	174.0	
477.0	CARBONDALE	ENERGY	SANDY SHALE	30.0	180.0	
447.0	CARBONDALE	ENERGY	SHALE	1.0	210.0	
446.0	CARBONDALE	ENERGY	SANDY SHALE	9.0	211.0	
437.0	CARBONDALE	ENERGY	SHALE	0.9	220.0	
436.1	CARBONDALE	ENERGY	SIDERITE	0.1	220.9	
436.0	CARBONDALE	ENERGY	SHALE	2.9	221.0	
433.1	CARBONDALE	ENERGY	SIDERITE	0.1	223.9	BRN
433.1	CARBONDALE	ENERGY	SHALE	1.9	223.9	
431.2	CARBONDALE	ENERGY	SIDERITE	0.1	225.8	BRN
431.1	CARBONDALE	ENERGY	SHALE	1.0	225.9	
430.1	CARBONDALE	ENERGY	SIDERITE	0.1	226.9	BRN
430.1	CARBONDALE	ENERGY	SHALE	1.3	226.9	
428.8	CARBONDALE	ENERGY	SIDERITE	0.0	228.2	BRN
428.8	CARBONDALE	ENERGY	SHALE	0.6	228.2	
428.2	CARBONDALE	HERRIN	COAL	3.1	228.8	
425.1	CARBONDALE	HERRIN	SHALE	0.0	231.9	
425.1	CARBONDALE	HERRIN	COAL	0.3	231.9	
424.8	CARBONDALE	HERRIN	COAL	0.1	232.2	BLUE
424.7	CARBONDALE	HERRIN	COAL	1.4	232.3	
423.3	CARBONDALE		SHALE	0.3	233.7	
423.0	CARBONDALE		CALCAREOUS SHALE	0.3	234.0	
422.8	CARBONDALE		LIMESTONE	0.4	234.2	GRAY

MAPID: 02923874000C **VERSION:** 1 **PROJECT:** ISGS96
COUNTY: COLES **TWP/RNG:** 14N 14W **SECTION:** 28 **QUARTERS/FOOTAGES:** NE NE NE NE
QUADRANGLE: BROCTON **LONGITUDE:** -87.965979 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.641303 **DATE COLLECTED:** 0 / 0 / 1976
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 234.9 **LOG TYPE:** Company map
SOURCE: HYDROCARBON SURVEY 75-D-4 **WELL TYPE:** Coal Test
COMMENT: DATA FROM 1976 COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			UNCONSOLIDATED	61.0	0.0
-			ROCK	170.0	61.0
-	CARBONDALE	HERRIN	COAL	3.9	231.0

MAPID: 02901636000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: COLES **TWP/RNG:** 14N 14W **SECTION:** 29 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: BROCTON **LONGITUDE:** -87.985217 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.627945 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 665.0 **LOGGED (FT.):** 330.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: STRUCT, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
420.0	CARBONDALE	HERRIN	COAL	3.0	245.0
404.0	CARBONDALE	SPRINGFIELD	COAL	-	261.0
373.0	CARBONDALE	HOUCHIN CREEK	COAL	-	292.0
335.0	CARBONDALE	COLCHESTER	COAL	-	330.0

MAPID: 02923543000C VERSION: 1

PROJECT: ISGS90

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 29 QUARTERS/FOOTAGES:

QUADRANGLE: BROCTON LONGITUDE: -87.993342 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.634256 DATE COLLECTED: 8 / 10 / 1989

SURFACE ELEVATION (FT.): 661.0 LOGGED (FT.): 249.4 LOG TYPE: Multiple log types

SOURCE: AMCO-IL NO. AM8922 WELL TYPE: Coal Test

COMMENT: DRILLERS LOG&CORE 1079617.84N 598364.00E

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.0			CLAY	20.0	0.0	UNITS 1-18 FROM DRILLER'S LOG; TAN
641.0			CLAY & GRAVEL	40.0	20.0	GRAY
601.0	MODESTO		SHALE	16.0	60.0	
585.0	MODESTO		SHALE/COAL	1.0	76.0	
584.0	MODESTO		SHALE	7.0	77.0	
577.0	MODESTO		SHALE	4.0	84.0	MIX
573.0	MODESTO		SANDY SHALE	8.0	88.0	
565.0	MODESTO		SANDSTONE	4.0	96.0	
561.0	MODESTO		SHALE	8.0	100.0	
553.0			SHALE	2.0	108.0	BRN
551.0			SHALE	2.0	110.0	
549.0			SHALE	10.0	112.0	BRN
539.0	CARBONDALE		SHALE	10.0	122.0	
529.0	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	132.0	
526.0	CARBONDALE	ENERGY	SANDY SHALE	7.0	135.0	
519.0	CARBONDALE	ENERGY	SANDSTONE	16.0	142.0	
503.0	CARBONDALE	ENERGY	SHALE	29.0	158.0	
474.0	CARBONDALE	ENERGY	SANDY SHALE	48.0	187.0	
426.0	CARBONDALE	ENERGY	SHALE	1.7	235.0	UNITS 19-32 FROM CORE
424.3	CARBONDALE	ENERGY	SHALE	2.7	236.7	
421.6	CARBONDALE	ENERGY	SIDERITE	0.1	239.4	BRN
421.5	CARBONDALE	ENERGY	SHALE	0.2	239.5	
421.3	CARBONDALE	ENERGY	SIDERITE	0.1	239.7	BRN
421.2	CARBONDALE	ENERGY	SHALE	1.3	239.8	
419.9	CARBONDALE	ENERGY	SIDERITE	0.2	241.1	BRN
419.7	CARBONDALE	ENERGY	SHALE	1.1	241.3	
418.6	CARBONDALE	ENERGY	SIDERITE	0.1	242.4	BRN
418.6	CARBONDALE	ENERGY	SHALE	1.4	242.4	
417.1	CARBONDALE	ENERGY	SHALE	0.6	243.9	
416.6	CARBONDALE	HERRIN	COAL	3.6	244.4	RASHY BANDS
413.0	CARBONDALE		SHALE	0.2	248.0	
412.7	CARBONDALE		SHALE	1.2	248.3	SLICKENSIDED
411.6	CARBONDALE		CALCAREOUS SHALE	0.6	249.4	SLICKENSIDED LIMESTONE NODULES

MAPID: 02900516000C VERSION: 1

PROJECT: NCRDS88

COUNTY: COLES TWP/RNG: 14N 14W SECTION: 33 QUARTERS/FOOTAGES: 275' N line, 870' E line of SE SE

QUADRANGLE: KANSAS LONGITUDE: -87.968045 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.615518 DATE COLLECTED: 0 / 0 / 1940

SURFACE ELEVATION (FT.): LOGGED (FT.): 460.0 LOG TYPE: Drillers Log

SOURCE: JAMES P. ECONOMUE WELL TYPE: Oil and Gas Test

COMMENT: FORMATION DIVISION ROUGHLY ESTIMATED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	97.0	0.0	
-			SHALE	28.0	97.0	TOP OF PENN.
-			LIMESTONE	13.0	125.0	
-			SILTSTONE	22.0	138.0	
-			SHALE	12.0	160.0	
-			SILTSTONE	6.0	172.0	
-			SHALE	17.0	178.0	
-			SILTSTONE	14.0	195.0	
-			SHALE	29.0	209.0	
-			BLACK SHALE & CLAY	8.0	238.0	SOME COAL
-			SHALE	5.0	246.0	
-			COAL W/ LIMESTONE	6.0	251.0	
-			SHALE	5.0	257.0	
-			SILTSTONE	3.0	262.0	
-			GRAY SHALE	18.0	265.0	
-			UNCLASSIFIED	7.0	283.0	NO SAMPLES
-			COAL	3.0	290.0	
-			SILTSTONE	3.0	293.0	
-			SANDSTONE	8.0	296.0	
-			SHALE	21.0	304.0	
-			COAL W/ LIMESTONE	10.0	325.0	ALSO INCLUDES UCLY AND SH
-			SILTSTONE	22.0	335.0	
-			SHALE	41.0	357.0	
-			UNCLASSIFIED	24.0	398.0	TOP OF MISS. (NO SAMPLES)
-			SILTSTONE	38.0	422.0	