

Status Report

Total Records: 494

Top 3 County Records		Top 3 Log Type Records		Top 3 Coal Records		Top 3 Member Records	
Shelby	494	Electric Log	207	HERRIN	281	HERRIN COAL	281
		Drillers Log	128	DANVILLE	261	DANVILLE COAL	261
		Survey Core Study	58	SPRINGFIELD	157	CARTHAGE LIMESTONE	191

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
SURVANT - UPPER		904.7	904.7	904.7	1.3	1.3	1.3
SURVANT - LOWER		938.0	938.0	938.0	0.8	0.8	0.8
TROWBRIDGE	COAL	39.6	38.2	41.0	2.4	2.3	2.5
OMEGA	LIMESTONE	39.0	39.0	39.0	21.3	21.3	21.3
SHELBYVILLE	COAL	71.9	11.1	215.0	1.8	0.1	7.0
OCONEE	COAL	163.2	135.0	191.4	1.5	1.1	2.0
OPDYKE	COAL	215.0	215.0	215.0	0.9	0.9	0.9
COHN	COAL	250.0	250.0	250.0	0.5	0.5	0.5
MILLERSVILLE	LIMESTONE	117.0	52.0	182.0	41.5	14.6	56.0
LIVINGSTON	LIMESTONE	256.5	256.5	256.5	43.3	43.3	43.3
CARTHAGE	LIMESTONE	486.4	265.5	840.0	10.4	3.0	24.0
WOMAC	COAL	401.0	401.0	401.0	1.0	1.0	1.0
CARLINVILLE	LIMESTONE	431.0	431.0	431.0	22.0	22.0	22.0
CHAPEL	COAL	512.3	473.0	538.0	0.9	0.5	1.5
TRIVOLI	SANDSTONE	623.5	519.5	740.0	43.2	4.0	75.0
WEST FRANKLIN	LIMESTONE	678.0	425.6	958.0	14.6	2.5	32.0
PIASA	LIMESTONE	687.1	622.0	792.0	5.6	2.0	18.0
DANVILLE	COAL	769.4	517.1	1088.0	2.9	0.3	6.5
GALUM	LIMESTONE	708.5	651.6	799.0	2.7	1.0	4.9
BANKSTON FORK	LIMESTONE	712.2	646.0	808.0	6.0	1.0	11.8
ANVIL ROCK	SANDSTONE	727.0	727.0	727.0	2.0	2.0	2.0
LAWSON	SHALE	720.7	661.8	796.0	3.6	1.0	8.0
CONANT	LIMESTONE	694.5	659.5	792.0	1.8	1.0	2.9
BRERETON	LIMESTONE	718.0	538.2	812.0	2.9	0.4	9.0
ANNA	SHALE	724.9	542.7	813.0	3.2	0.1	8.0
ENERGY	SHALE	649.0	649.0	649.0	228.7	228.7	228.7
HERRIN	COAL	800.2	543.1	1161.0	5.8	2.0	10.0
TURNER MINE	SHALE	791.3	791.3	791.3	1.2	1.2	1.2
SPRINGFIELD	COAL	853.0	614.0	1172.0	4.2	1.5	8.0
HOUCHIN CREEK	COAL	935.3	676.0	1256.0	3.0	2.0	4.0

**MECCA QUARRY
COLCHESTER**

SHALE
COAL

981.7
1078.4

981.7
983.2

981.7
1188.0

Net Coal

1.5
2.8

27.7

1.5
2.8

1.5
2.8

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: 17323578000C VERSION: 1 PROJECT: EIA-DOE
COUNTY: SHELBY TWP/RNG: 9N 1E SECTION: 2 QUARTERS/FOOTAGES: NW SW NE
QUADRANGLE: OCONEE LONGITUDE: -89.052434 GEOLOGIST: E. PRUSSEN
CONFIDENTIAL: N LATITUDE: 39.255195 DATE COLLECTED:
SURFACE ELEVATION (FT.): LOGGED (FT.): 810.0 LOG TYPE: Company map
SOURCE: CARTER OIL 4B-691 WELL TYPE: Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN COMMENT	
-	CARBONDALE	HERRIN	COAL	7.0	803.0

MAPID: 17301116000C VERSION: 1

PROJECT: ROOF STUDY

COUNTY: SHELBY TWP/RNG: 9N 1E SECTION: 4 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: RAMSEY LONGITUDE: -89.083017 GEOLOGIST:

CONFIDENTIAL: N LATITUDE: 39.246623 DATE COLLECTED:

SURFACE ELEVATION (FT.): 643.0 LOGGED (FT.): 759.2 LOG TYPE: Survey Core Study

SOURCE: WELL TYPE: Coal Test

COMMENT: GOOD DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-56.0	MODESTO	PIASA	LIMESTONE/UNDERCLAY	3.3	699.0
-59.3	MODESTO		GRAY SHALE	16.7	702.3
-75.9	CARBONDALE	DANVILLE	COAL	3.7	718.9
-79.6	CARBONDALE		CLAYSTONE	1.4	722.6
-81.0	CARBONDALE	GALUM	LIMESTONE/UNDERCLAY	2.5	724.0
-83.5	CARBONDALE		SHALE	8.3	726.5
-91.8	CARBONDALE		CLAYSTONE	1.2	734.8
-93.0	CARBONDALE	BANKSTON FORK	NODULAR LIMESTONE	8.8	736.0
-101.7	CARBONDALE	LAWSON	DARK GRAY SHALE	6.7	744.7
-108.4	CARBONDALE	BRERETON	LIMESTONE/UNDERCLAY	1.3	751.4
-109.7	CARBONDALE	ANNA	BLACK SHALE	0.5	752.7
-109.0	CARBONDALE	HERRIN	COAL	7.2	752.0

MAPID: 17301116000C VERSION: 2

PROJECT: ISGS88

COUNTY: SHELBY TWP/RNG: 9N 1E SECTION: 4 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: RAMSEY LONGITUDE: -89.083017 GEOLOGIST: SROKA

CONFIDENTIAL: N LATITUDE: 39.246623 DATE COLLECTED: 8 / 0 / 1957

SURFACE ELEVATION (FT.): 643.0 LOGGED (FT.): 761.8 LOG TYPE: Multiple log types

SOURCE: D.C. DONAN JR WELL TYPE: Coal Test

COMMENT: DRILLERS LOG AND CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
643.0			UNCONSOLIDATED	40.0	0.0	
603.0	MATTOON		SHALE	40.5	40.0	
562.5	MATTOON		LIMESTONE W/ SHALE	7.5	80.5	
555.0	MATTOON		SANDY SHALE	66.0	88.0	
489.0	BOND	MILLERSVILLE	LIMESTONE W/ SHALE	41.0	154.0	
448.0	BOND		SANDSTONE	6.0	195.0	GRAY
442.0	BOND		SHALE	229.0	201.0	
213.0	BOND	CARTHAGE	LIMESTONE	13.5	430.0	
199.5	MODESTO		SHALE	26.5	443.5	
173.0	MODESTO		SHALE	3.0	470.0	
170.0	MODESTO	CHAPEL	COAL	1.5	473.0	
168.5	MODESTO		SHALE	55.5	474.5	
113.0	MODESTO		SANDY SHALE	95.0	530.0	
18.0	MODESTO		SHALE	60.0	625.0	
-42.0	MODESTO		CLAYSTONE & SILTSTONE	4.6	685.0	WITH LS NODULES; CORED TO T.D.
-46.6	MODESTO		CARBONACEOUS SHALE	1.3	689.6	PLANT DEBRIS AND FISH SCALES
-47.9	MODESTO		CARBONACEOUS CLAYSTONE	0.5	690.9	COALY MATERIAL
-48.4	MODESTO		CLAYSTONE & SILTSTONE	7.1	691.4	
-55.5	MODESTO		SILTY LIMESTONE	3.3	698.5	FOSSILIF
-58.8	MODESTO		SHALE	11.6	701.8	FOSSILIF; WITH OCCASIONAL LS NODS
-70.3	MODESTO		SHALE	1.2	713.3	SOAPY
-71.5	MODESTO		SHALE	4.0	714.5	PLANTS AND CLAMS
-75.5	CARBONDALE	DANVILLE	COAL	3.7	718.5	
-79.2	CARBONDALE		UNDERCLAY	1.3	722.2	STIGMARIAN, SLIP FRACTURES
-80.5	CARBONDALE		SILTY LIMESTONE	2.5	723.5	FOSSILIF
-83.0	CARBONDALE		SHALE	1.6	726.0	
-84.6	CARBONDALE		SHALE	5.0	727.6	
-89.6	CARBONDALE		SHALE	1.8	732.6	CALCAREOUS NODULES AND STRINGERS
-91.3	CARBONDALE		SILTY CLAYSTONE	1.2	734.3	WITH CALCAREOUS NODULES IN LOWER PART
-92.5	CARBONDALE		LIMESTONE	8.8	735.5	FOSSILIFEROUS
-101.3	CARBONDALE		CORE LOSS	3.3	744.3	
-104.6	CARBONDALE	ANNA	BLACK SHALE	4.1	747.6	
-108.7	CARBONDALE	HERRIN	COAL	7.3	751.7	BONY
-115.9	CARBONDALE		UNDERCLAY	0.8	758.9	SILTY AND SANDY
-116.8	CARBONDALE		SHALY SANDSTONE	1.9	759.8	
-118.7	CARBONDALE		SILTY SHALE	0.1	761.7	

MAPID: 17301116000C VERSION: 3

PROJECT: CONF

COUNTY: SHELBY TWP/RNG: 9N 1E SECTION: 4 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: RAMSEY LONGITUDE: -89.083017 GEOLOGIST:

CONFIDENTIAL: N LATITUDE: 39.246623 DATE COLLECTED: 8 / 0 / 1957

SURFACE ELEVATION (FT.): 643.0 LOGGED (FT.): 762.0 LOG TYPE: Survey Core Study

SOURCE: D.C. DONAN JR. 17BB WELL TYPE: Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-75.4	SHELBURN	DANVILLE	COAL	3.7	718.4
-108.7	CARBONDALE	HERRIN	COAL	7.2	751.7

MAPID: 17301116000C VERSION: 4

PROJECT: NCRDS99

COUNTY: SHELBY TWP/RNG: 9N 1E SECTION: 4 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: RAMSEY LONGITUDE: -89.083017 GEOLOGIST: MCCRACKEN

CONFIDENTIAL: N LATITUDE: 39.246623 DATE COLLECTED: 8 / 14 / 1957

SURFACE ELEVATION (FT.): 643.0 LOGGED (FT.): 763.5 LOG TYPE: Multiple log types

SOURCE: DONAN 17-BB WELL TYPE: Coal Test

COMMENT: CORE DEPTHS SLIGHTLY OFF-RIG TROUBLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
643.0	PLEISTOCENE		UNCONSOLIDATED	40.0	0.0	
603.0			SHALE	40.5	40.0	
562.5			LIMESTONE	7.5	80.5	WITH SHALE
555.0			SANDY SHALE	66.0	88.0	
489.0	BOND	MILLERSVILLE	LIMESTONE	41.0	154.0	
448.0	BOND		SANDSTONE	6.0	195.0	
442.0	BOND		SHALE	229.0	201.0	
213.0	BOND	CARTHAGE	LIMESTONE	13.5	430.0	
199.5	MODESTO		SHALE	26.5	443.5	
173.0	MODESTO		SHALE	3.0	470.0	DARK
170.0	MODESTO		COAL	1.5	473.0	
168.5	MODESTO		SHALE	210.5	474.5	
-42.0	MODESTO		CLAYSTONE & SILTSTONE	4.6	685.0	START OF CORE STUDY
-46.6	MODESTO		BLACK SHALE	1.3	689.6	
-47.9	MODESTO		CLAYSTONE & SILTSTONE	0.5	690.9	BLACK, RESEMBLES UNDERCLAY
-48.4	MODESTO		CLAYSTONE & SILTSTONE	7.1	691.4	
-55.5	MODESTO	PIASA	LIMESTONE	3.3	698.5	LOG ID'S AS BANKSTON
-58.8	MODESTO		SHALE	16.7	701.8	
-75.4	CARBONDALE	DANVILLE	COAL	3.7	718.4	
-79.1	CARBONDALE		BLACK SHALE	0.1	722.1	
-79.2	CARBONDALE		UNDERCLAY	1.3	722.2	
-80.5	CARBONDALE		LIMESTONE	2.5	723.5	
-83.0	CARBONDALE		SHALE	1.6	726.0	
-84.6	CARBONDALE		BLACK SHALE	5.0	727.6	
-89.6	CARBONDALE		SHALE	1.8	732.6	
-91.3	CARBONDALE		CLAYSTONE & SILTSTONE	1.2	734.3	
-92.5	CARBONDALE		LIMESTONE	11.0	735.5	THICKNESS ADJUSTED FROM COAL
-103.5	CARBONDALE		BLACK SHALE	3.3	746.5	DEPTHS ADJUSTED FROM COAL
-106.8	CARBONDALE		LIMESTONE	1.3	749.8	DEPTHS ADJUSTED FROM COAL
-108.2	CARBONDALE		BLACK SHALE	0.5	751.2	DEPTHS ADJUSTED FROM COAL
-108.7	CARBONDALE	HERRIN	COAL	7.2	751.7	
-115.9	CARBONDALE		BLACK SHALE	0.1	758.9	
-115.9	CARBONDALE		UNDERCLAY	0.8	758.9	
-116.8	CARBONDALE		SANDSTONE	1.9	759.8	
-118.7	CARBONDALE		SHALE	1.8	761.7	

MAPID: 17300028000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 1E SECTION: 5 QUARTERS/FOOTAGES: 1600' N line, 600' E line of NW

QUADRANGLE: OCONEE LONGITUDE: -89.111946 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.25681 DATE COLLECTED:

SURFACE ELEVATION (FT.): 649.0 LOGGED (FT.): 699.0 LOG TYPE: Survey Core Study

SOURCE: WELL TYPE: Coal Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
270.0	BOND	CARTHAGE	LIMESTONE	16.0	379.0
13.0	MODESTO	PIASA	LIMESTONE	5.0	636.0
-11.0	CARBONDALE	DANVILLE	COAL	1.0	660.0
-43.0	CARBONDALE	HERRIN	COAL	7.0	692.0

MAPID: 17300028000C VERSION: 2

PROJECT: ROOF STUDY

COUNTY: SHELBY TWP/RNG: 9N 1E SECTION: 5 QUARTERS/FOOTAGES: 1600' N line, 600' E line of NW

QUADRANGLE: OCONEE LONGITUDE: -89.111946 GEOLOGIST:

CONFIDENTIAL: N LATITUDE: 39.25681 DATE COLLECTED:

SURFACE ELEVATION (FT.): 649.0 LOGGED (FT.): 699.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Coal Test

COMMENT: GOOD DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
12.0	MODESTO	PIASA	LIMESTONE	4.5	637.0
7.5	MODESTO		GRAY SHALE	19.3	641.5
-11.8	CARBONDALE	DANVILLE	COAL	1.0	660.8
-12.8	CARBONDALE		DARK GRAY SHALE	3.2	661.8
-15.9	CARBONDALE	GALUM	LIMESTONE AND SANDSTONE	4.7	664.9
-20.6	CARBONDALE		BLACK SHALE	3.0	669.6
-23.6	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	672.6
-29.6	CARBONDALE	LAWSON	GRAY SHALE	3.5	678.6
-33.1	CARBONDALE	CONANT	LIMESTONE	1.5	682.1
-34.6	CARBONDALE		SHALE	2.5	683.6
-37.1	CARBONDALE	BRERETON	LIMESTONE	4.0	686.1
-41.1	CARBONDALE	ANNA	BLACK SHALE	3.4	690.1
-43.0	CARBONDALE	HERRIN	COAL	7.0	692.0

MAPID: 17300028000C VERSION: 3

PROJECT: NCRDS87

COUNTY: SHELBY TWP/RNG: 9N 1E SECTION: 5 QUARTERS/FOOTAGES: 1600' N line, 600' E line of NW

QUADRANGLE: OCONEE LONGITUDE: -89.111946 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 39.25681 DATE COLLECTED: 6 / 12 / 1912

SURFACE ELEVATION (FT.): 649.1 LOGGED (FT.): 699.0 LOG TYPE: Drillers Log

SOURCE: R.H. DURHAM WELL TYPE: Diamond Drill

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.1			UNCONSOLIDATED	40.0	0.0	
609.1	MATTOON		SHALE	58.0	40.0	
551.1	BOND	MILLERSVILLE	LIMESTONE	48.0	98.0	
503.1	BOND		SHALE	121.0	146.0	
382.1	BOND		BLACK SHALE	3.0	267.0	
379.1	BOND		UNDERCLAY	4.0	270.0	
375.1	BOND		SHALE	80.0	274.0	
295.1	BOND		SANDSTONE	25.0	354.0	
270.1	BOND	CARTHAGE	LIMESTONE	16.0	379.0	UNCERTAIN CORRELATION
254.1	MODESTO		BLACK SHALE	4.0	395.0	
250.1	MODESTO		SHALE	42.0	399.0	
208.1	MODESTO		SANDSTONE	29.0	441.0	
179.1	MODESTO		SHALE	4.0	470.0	
175.1	MODESTO		BLACK SHALE	2.0	474.0	
173.1	MODESTO		SHALE	46.0	476.0	
127.1	MODESTO		BLACK SHALE	5.0	522.0	
122.1	MODESTO		CLAYSTONE	2.0	527.0	
120.1	MODESTO		SANDSTONE	88.0	529.0	
32.1	MODESTO		SHALE	9.0	617.0	
23.1	MODESTO		DARK SHALE	4.0	626.0	
19.1	MODESTO		SHALE	6.5	630.0	
12.6	MODESTO	PIASA	LIMESTONE	4.5	636.5	
8.1	MODESTO		SHALE	4.0	641.0	
4.1	MODESTO		BLACK SHALE	2.0	645.0	
2.1	MODESTO		SHALE	13.3	647.0	
-11.2	CARBONDALE	DANVILLE	COAL	0.9	660.3	
-12.1	CARBONDALE		DARK SHALE	3.2	661.2	
-15.2	CARBONDALE		LIMESTONE	4.7	664.3	
-19.9	CARBONDALE		BLACK SHALE	2.0	669.0	
-21.9	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	671.0	
-27.9	CARBONDALE		SHALE	3.5	677.0	
-31.4	CARBONDALE		LIMESTONE	1.5	680.5	
-32.9	CARBONDALE		SHALE	2.5	682.0	
-35.4	CARBONDALE	BRERETON	LIMESTONE	4.0	684.5	
-39.4	CARBONDALE	ANNA	BLACK SHALE	3.4	688.5	
-42.8	CARBONDALE	HERRIN	COAL	7.1	691.9	

MAPID: 17300028000C **VERSION:** 4 **PROJECT:** DOE
COUNTY: SHELBY **TWP/RNG:** 9N 1E **SECTION:** 5 **QUARTERS/FOOTAGES:** 1600' N line, 600' E line of NW
QUADRANGLE: OCONEE **LONGITUDE:** -89.111946 **GEOLOGIST:** E PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.25681 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 639.3 **LOGGED (FT.):** **LOG TYPE:**
SOURCE: DERING COAL CO. A-7 **WELL TYPE:** Coal Test
COMMENT: 1908 MAP,DERING CC; ISGS COAL SEC 9-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			UNKNOWN	-	
-52.6	CARBONDALE	HERRIN	COAL	7.0	691.9

MAPID: 17323579000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 9N 1E **SECTION:** 6 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: RAMSEY **LONGITUDE:** -89.120501 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.24719 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 663.6 **LOG TYPE:** Company map
SOURCE: CARTER OIL WF-129 **WELL TYPE:** Coal Test
COMMENT: LOCN, DATA FROM PANA-BROWN A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	6.6	657.0

MAPID: 17300029000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 9N 1E SECTION: 10 QUARTERS/FOOTAGES: NW SW NE

QUADRANGLE: RAMSEY LONGITUDE: -89.071361 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.24082 DATE COLLECTED: 0 / 0 / 1909

SURFACE ELEVATION (FT.): 660.8 LOGGED (FT.): 756.0 LOG TYPE: Drillers Log

SOURCE: A.W. HARGRAVE WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
660.8			UNCONSOLIDATED	2.0	0.0
658.8	MATTOON		UNDERCLAY	10.0	2.0
648.8	MATTOON		SANDSTONE	12.0	12.0
636.8	MATTOON		UNCLASSIFIED	97.0	24.0
539.8	MATTOON		LIMESTONE	2.0	121.0
537.8	MATTOON		SHALE	10.0	123.0
527.8	BOND	MILLERSVILLE	LIMESTONE	11.0	133.0
516.8	BOND	MILLERSVILLE	SHALE	3.0	144.0
513.8	BOND	MILLERSVILLE	LIMESTONE	35.0	147.0
478.8	BOND		SHALE	28.0	182.0
450.8	BOND		BLACK SHALE	51.0	210.0
399.8	BOND		COAL	0.3	261.0
399.5	BOND		BLACK SHALE	14.7	261.3
384.8	BOND		SHALE	9.0	276.0
375.8	BOND		DARK SHALE	5.0	285.0
370.8	BOND		SHALE	15.0	290.0
355.8	BOND		BLACK SHALE	4.0	305.0
351.8	BOND		COAL	1.0	309.0
350.8	BOND		UNDERCLAY	3.0	310.0
347.8	BOND		SHALE	2.0	313.0
345.8	BOND		SANDY SHALE	15.0	315.0
330.8	BOND		SHALE	10.0	330.0
320.8	BOND		BLACK SHALE	14.0	340.0
306.8	BOND		SANDY SHALE	4.0	354.0
302.8	BOND		SHALE	19.0	358.0
283.8	BOND		LIMESTONE	2.0	377.0
281.8	BOND		BLACK SHALE	3.0	379.0
278.8	BOND		SHALE	2.0	382.0
276.8	BOND		CALCAREOUS SHALE	3.0	384.0
273.8	BOND		SHALE	11.0	387.0
262.8	BOND	CARTHAGE	LIMESTONE	8.0	398.0
254.8	MODESTO		SHALE	3.0	406.0
251.8	MODESTO		BLACK SHALE	2.0	409.0
249.8	MODESTO		UNDERCLAY	15.0	411.0
234.8	MODESTO		SHALE	38.0	426.0
196.8	MODESTO		DARK SHALE	14.0	464.0
182.8	MODESTO		UNCLASSIFIED	92.0	478.0
90.8	MODESTO		SANDSTONE	4.0	570.0
86.8	MODESTO		CALCAREOUS SHALE	11.0	574.0

75.8	MODESTO		BLACK SHALE	71.0	585.0	
4.8	MODESTO		SHALE	6.0	656.0	
-1.2	MODESTO		BLACK SHALE	5.0	662.0	
-6.2	MODESTO		UNCLASSIFIED	4.0	667.0	
-10.2	MODESTO		BLACK SHALE	9.0	671.0	
-19.2	MODESTO		SHALE	6.0	680.0	
-25.2	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	686.0	UNCERTAIN CORRELATION
-35.2	MODESTO	WEST FRANKLIN	BLACK SHALE	2.0	696.0	UNCERTAIN CORRELATION
-37.2	MODESTO	WEST FRANKLIN	LIMESTONE	2.0	698.0	UNCERTAIN CORRELATION
-39.2	MODESTO		SHALE	2.0	700.0	
-41.2	MODESTO		BLACK SHALE	5.0	702.0	
-46.2	MODESTO		LIMESTONE	0.5	707.0	
-46.7	MODESTO		SHALE	6.5	707.5	
-53.2	MODESTO		UNDERCLAY	1.5	714.0	
-54.7	CARBONDALE	DANVILLE	COAL	2.5	715.5	
-57.2	CARBONDALE		CALCAREOUS SHALE	7.0	718.0	
-64.2	CARBONDALE		BLACK SHALE	2.0	725.0	
-66.2	CARBONDALE	ANVIL ROCK	SANDSTONE	2.0	727.0	UNCERTAIN CORRELATION
-68.2	CARBONDALE		CALCAREOUS SHALE	14.0	729.0	
-82.2	CARBONDALE	ANNA	BLACK SHALE	6.0	743.0	
-88.2	CARBONDALE	HERRIN	COAL	7.0	749.0	
-95.2			UNDERCLAY	0.0	756.0	

MAPID: 17300029000C VERSION: 2

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 1E SECTION: 10 QUARTERS/FOOTAGES: NW SW NE

QUADRANGLE: RAMSEY LONGITUDE: -89.071361 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.24082 DATE COLLECTED:

SURFACE ELEVATION (FT.): 661.0 LOGGED (FT.): 756.0 LOG TYPE: Survey Core Study

SOURCE: WELL TYPE: Coal Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN COMMENT
87.0	BOND	CARTHAGE	LIMESTONE	11.0	574.0
-25.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	686.0
-54.0	CARBONDALE	DANVILLE	COAL	2.5	715.0
-88.0	CARBONDALE	HERRIN	COAL	7.0	749.0

MAPID: 1732358000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 9N 1E **SECTION:** 10 **QUARTERS/FOOTAGES:** SW NW NW
QUADRANGLE: RAMSEY **LONGITUDE:** -89.080703 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.242872 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 772.4 **LOG TYPE:** Company map
SOURCE: CARTER OIL 4B-709 **WELL TYPE:** Coal Test
COMMENT: LACATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	7.4	765.0

MAPID: 17301039000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 9N 1E **SECTION:** 11 **QUARTERS/FOOTAGES:** SE NE NE
QUADRANGLE: RAMSEY **LONGITUDE:** -89.045577 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.242019 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 635.0 **LOGGED (FT.):** 980.0 **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
189.0	BOND	CARTHAGE	LIMESTONE	11.0	446.0
50.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	585.0
-76.0	MODESTO	PIASA	LIMESTONE	5.0	711.0
-105.0	CARBONDALE	DANVILLE	COAL	3.0	740.0
-136.0	CARBONDALE	HERRIN	COAL	7.5	771.0
-170.0	CARBONDALE	SPRINGFIELD	COAL	5.0	805.0
-228.0	CARBONDALE	HOUCHIN CREEK	COAL	-	863.0

MAPID: 17301223000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 9N 1E **SECTION:** 12 **QUARTERS/FOOTAGES:** SE NW NW
QUADRANGLE: RAMSEY **LONGITUDE:** -89.040916 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.241935 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 640.0 **LOGGED (FT.):** 980.0 **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
190.0	BOND	CARTHAGE	LIMESTONE	11.0	450.0
51.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	589.0
-69.0	MODESTO	PIASA	LIMESTONE	4.0	709.0
-100.0	CARBONDALE	DANVILLE	COAL	2.0	740.0
-132.0	CARBONDALE	HERRIN	COAL	7.0	772.0
-161.0	CARBONDALE	SPRINGFIELD	COAL	4.0	801.0
-213.0	CARBONDALE	HOUCHIN CREEK	COAL	-	853.0

MAPID: 17323581000C VERSION: 1

PROJECT: EIA-DOE

COUNTY: SHELBY

TWP/RNG: 9N 1E

SECTION: 14

QUARTERS/FOOTAGES: NE SE NW

QUADRANGLE: RAMSEY

LONGITUDE: -89.055096

GEOLOGIST: E. PRUSSEN

CONFIDENTIAL: N

LATITUDE: 39.225896

DATE COLLECTED:

SURFACE ELEVATION (FT.):

LOGGED (FT.): 741.6

LOG TYPE: Company map

SOURCE: CARTER OIL 4B-457

WELL TYPE: Coal Test

COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	7.6	734.0	

MAPID: 17300034000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 9N 1E SECTION: 16 QUARTERS/FOOTAGES: 860' N line, 2325' E line of NE

QUADRANGLE: RAMSEY LONGITUDE: -89.090053 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.228798 DATE COLLECTED: 7 / 0 / 1909

SURFACE ELEVATION (FT.): 667.8 LOGGED (FT.): 778.0 LOG TYPE: Drillers Log

SOURCE: A.W. HARGRAVE WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
667.8			UNCONSOLIDATED	39.0	0.0
628.8	MATTOON		SANDY SHALE	9.0	39.0
619.8	MATTOON		SHALE	47.0	48.0
572.8	MATTOON		BLACK SHALE	8.0	95.0
564.8	MATTOON		COAL	2.0	103.0
562.8	MATTOON		UNDERCLAY	3.0	105.0
559.8	MATTOON		LIMESTONE	2.0	108.0
557.8	MATTOON		CALCAREOUS SHALE	6.0	110.0
551.8	MATTOON		DARK SHALE	4.0	116.0
547.8	MATTOON		SHALE	40.0	120.0
507.8	MATTOON		COAL WITH SHALE	1.0	160.0
506.8	MATTOON		SHALE	5.0	161.0
501.8	MATTOON		DARK SHALE	16.0	166.0
485.8	BOND	MILLERSVILLE	LIMESTONE	6.0	182.0
479.8	BOND	MILLERSVILLE	DARK SHALE	7.0	188.0
472.8	BOND	MILLERSVILLE	LIMESTONE	24.0	195.0
448.8	BOND		SANDSTONE	15.0	219.0
433.8	BOND		DARK SHALE	50.0	234.0
383.8	BOND		UNDERCLAY	8.0	284.0
375.8	BOND		SHALE	42.0	292.0
333.8	BOND		BLACK SHALE	2.0	334.0
331.8	BOND		COAL	1.0	336.0
330.8	BOND		UNDERCLAY	5.0	337.0
325.8	BOND		SANDY SHALE	12.0	342.0
313.8	BOND		LIMESTONE	4.0	354.0
309.8	BOND		SHALE	30.0	358.0
279.8	BOND		LIMESTONE	2.0	388.0
277.8	BOND		SHALE	17.0	390.0
260.8	BOND		LIMESTONE	2.0	407.0
258.8	BOND		SHALE	9.0	409.0
249.8	BOND		CLAYSTONE	4.0	418.0
245.8	BOND	CARTHAGE	LIMESTONE	10.0	422.0
235.8	BOND		SHALE	8.0	432.0
227.8	BOND	CARTHAGE	LIMESTONE	14.0	440.0
213.8	MODESTO		BLACK SHALE	4.0	454.0
209.8	MODESTO		LIGHT & DARK SHALE	111.0	458.0
98.8	MODESTO	TRIVOLI	SANDSTONE	4.0	569.0
94.8	MODESTO		DARK SHALE	38.0	573.0
56.8	MODESTO		CALCAREOUS SHALE	6.0	611.0

50.8	MODESTO		DARK SHALE	85.0	617.0
-34.2	MODESTO		SHALE	15.0	702.0
-49.2	MODESTO	PIASA	LIMESTONE	7.0	717.0
-56.2	MODESTO		CLAYSTONE	3.0	724.0
-59.2	MODESTO		BLACK SHALE	2.0	727.0
-61.2	MODESTO		SHALE	5.0	729.0
-66.2			BLACK SHALE	5.0	734.0
-71.2	CARBONDALE	DANVILLE	COAL	4.0	739.0
-75.2	CARBONDALE		UNDERCLAY	1.0	743.0
-76.2	CARBONDALE		CALCAREOUS SHALE	3.0	744.0
-79.2	CARBONDALE		BLACK SHALE	4.0	747.0
-83.2	CARBONDALE		SHALE	1.0	751.0
-84.2	CARBONDALE		LIMESTONE W/ SHALE	12.0	752.0
-96.2	CARBONDALE	ANNA	SHALE	8.0	764.0
-104.2	CARBONDALE	HERRIN	COAL	7.0	772.0

MAPID: 17300034000C **VERSION:** 2 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 9N 1E **SECTION:** 16 **QUARTERS/FOOTAGES:** 860' N line, 2325' E line of NE
QUADRANGLE: RAMSEY **LONGITUDE:** -89.090053 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.228798 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 668.0 **LOGGED (FT.):** 778.0 **LOG TYPE:** Survey Core Study
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN COMMENT
228.0	BOND	CARTHAGE	LIMESTONE	14.0	440.0
-71.0	CARBONDALE	DANVILLE	COAL	4.0	739.0
-104.0	CARBONDALE	HERRIN	COAL	7.0	772.0

MAPID: 17300211000C **VERSION:** 1 **PROJECT:** NCRDS88
COUNTY: SHELBY **TWP/RNG:** 9N 1E **SECTION:** 16 **QUARTERS/FOOTAGES:** 100' S line, 900' W line
QUADRANGLE: RAMSEY **LONGITUDE:** -89.097516 **GEOLOGIST:** R. SMITH
CONFIDENTIAL: N **LATITUDE:** 39.217139 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 641.0 **LOGGED (FT.):** 683.0 **LOG TYPE:** Geologic Tops
SOURCE: BRAZIL COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN COMMENT
-38.0	CARBONDALE	HERRIN	COAL	4.0	679.0

MAPID: 17300002000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 9N 1E SECTION: 18 QUARTERS/FOOTAGES: 100' N line, 2400' E line of NE

QUADRANGLE: RAMSEY LAKE LONGITUDE: -89.12772 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.231398 DATE COLLECTED: 1 / 26 / 1943

SURFACE ELEVATION (FT.): 658.2 LOGGED (FT.): 725.1 LOG TYPE: Drillers Log

SOURCE: HOWARD HARGRAVE, DRILLER WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
658.2			UNCONSOLIDATED	103.0	0.0
555.2	MATTOON		LIMESTONE	0.3	103.0
554.9	MATTOON		COAL	0.8	103.3
554.2	MATTOON		DARK SHALE	12.0	104.0
542.2	MATTOON		SANDY SHALE	3.0	116.0
539.2	MATTOON		DARK SHALE	5.0	119.0
534.2	MATTOON		SANDSTONE/SHALE	3.0	124.0
531.2	MATTOON		SHALE	4.5	127.0
526.7	BOND	MILLERSVILLE	LIMESTONE	38.0	131.5
488.7	BOND		SHALE	74.0	169.5
414.7	BOND		COAL	0.5	243.5
414.2	BOND		SHALE	5.0	244.0
409.2	BOND		CALCAREOUS SHALE	3.0	249.0
406.2	BOND		SHALE	18.0	252.0
388.2	BOND		DARK SHALE	27.0	270.0
361.2	BOND		SHALE	24.0	297.0
337.2	BOND		SHALE	21.0	321.0
316.2	BOND		DARK SHALE	33.0	342.0
283.2	BOND		CALCAREOUS SHALE	14.0	375.0
269.2	BOND		DARK SHALE	11.0	389.0
258.2	BOND	CARTHAGE	LIMESTONE	11.0	400.0
247.2	MODESTO		DARK SHALE	11.0	411.0
236.2	MODESTO		SHALE	14.0	422.0
222.2	MODESTO		DARK SHALE	28.0	436.0
194.2	MODESTO		COAL	1.0	464.0
193.2	MODESTO		SHALE	17.0	465.0
176.2	MODESTO		DARK SHALE	66.0	482.0
110.2	MODESTO		COAL	2.0	548.0
108.2	MODESTO		SHALE	121.0	550.0
-12.8	MODESTO	PIASA	LIMESTONE	3.0	671.0
-15.8	MODESTO		DARK SHALE	9.0	674.0
-24.8	MODESTO		DARK SHALE	5.0	683.0
-29.8	CARBONDALE	DANVILLE	COAL	2.0	688.0
-31.8	CARBONDALE		DARK SHALE	2.0	690.0
-33.8	CARBONDALE		LIMESTONE	3.0	692.0
-36.8	CARBONDALE		SHALE	19.0	695.0
-55.8	CARBONDALE	ANNA	BLACK SHALE	3.2	714.0
-59.0	CARBONDALE	HERRIN	COAL	7.9	717.2
-66.9	CARBONDALE		UNDERCLAY	0.0	725.1

MAPID: 17300002000C **VERSION:** 2 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 9N 1E **SECTION:** 18 **QUARTERS/FOOTAGES:** 100' N line, 2400' E line of NE
QUADRANGLE: RAMSEY LAKE **LONGITUDE:** -89.12772 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.231398 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 658.0 **LOGGED (FT.):** 725.0 **LOG TYPE:** Survey Core Study
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
258.0	BOND	CARTHAGE	LIMESTONE	11.0	400.0
-16.0	MODESTO	PIASA	LIMESTONE	3.0	674.0
-30.0	CARBONDALE	DANVILLE	COAL	2.0	688.0
-59.0	CARBONDALE	HERRIN	COAL	8.0	717.0

MAPID: 17300002000C **VERSION:** 3 **PROJECT:** DOE
COUNTY: SHELBY **TWP/RNG:** 9N 1E **SECTION:** 18 **QUARTERS/FOOTAGES:** 100' N line, 2400' E line of NE
QUADRANGLE: RAMSEY LAKE **LONGITUDE:** -89.12772 **GEOLOGIST:** E PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.231398 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 660.0 **LOGGED (FT.):** **LOG TYPE:**
SOURCE: DERING COAL CO. A2 **WELL TYPE:** Coal Test
COMMENT: 1908 MAP,DERING CC; ISGS COAL SEC 9-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			UNKNOWN	-	
-89.0	CARBONDALE	HERRIN	COAL	7.0	749.0

MAPID: 17323582000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 9N 2E **SECTION:** 1 **QUARTERS/FOOTAGES:** SW SW NW
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.934628 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.253623 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 846.8 **LOG TYPE:** Company map
SOURCE: CARTER OIL WF-198 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	8.8	838.0

MAPID: 17300045000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 9N 2E **SECTION:** 2 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: HERRICK **LONGITUDE:** -88.936972 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.246405 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 596.0 **LOGGED (FT.):** 835.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
141.0	BOND	CARTHAGE	LIMESTONE	12.0	455.0	
-179.0	CARBONDALE	DANVILLE	COAL	4.0	775.0	
-207.0	CARBONDALE	HERRIN	COAL	9.5	803.0	
-233.0	CARBONDALE	SPRINGFIELD	COAL	6.0	829.0	

MAPID: 17323583000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 9N 2E **SECTION:** 3 **QUARTERS/FOOTAGES:** NE NE SW NE
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.959546 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.255618 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 841.7 **LOG TYPE:** Company map
SOURCE: CARTER OIL 4C-684 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	7.7	834.0	

MAPID: 17323584000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 9N 2E **SECTION:** 5 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: RAMSEY **LONGITUDE:** -89.009029 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.24562 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 775.0 **LOG TYPE:** Company map
SOURCE: CARTER OIL WF-175 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	7.0	768.0	

MAPID: 17300216000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY

TWP/RNG: 9N 2E

SECTION: 8

QUARTERS/FOOTAGES: NW NW NE

QUADRANGLE: HERRICK

LONGITUDE: -88.999799

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.243957

DATE COLLECTED:

SURFACE ELEVATION (FT.): 601.0

LOGGED (FT.): 802.0

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
156.0	BOND	CARTHAGE	LIMESTONE	11.0	445.0
-131.0	CARBONDALE	DANVILLE	COAL	2.5	732.0
-161.0	CARBONDALE	HERRIN	COAL	9.0	762.0
-197.0	CARBONDALE	SPRINGFIELD	COAL	4.0	798.0

MAPID: 17300217000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY

TWP/RNG: 9N 2E

SECTION: 9

QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: HERRICK

LONGITUDE: -88.981158

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.242416

DATE COLLECTED:

SURFACE ELEVATION (FT.): 603.0

LOGGED (FT.): 998.0

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
141.0	BOND	CARTHAGE	LIMESTONE	10.0	462.0
-109.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	712.0
-161.0	CARBONDALE	DANVILLE	COAL	3.5	764.0
-191.0	CARBONDALE	HERRIN	COAL	8.0	794.0
-218.0	CARBONDALE	SPRINGFIELD	COAL	4.0	821.0
-272.0	CARBONDALE	HOUCHIN CREEK	COAL	-	875.0

MAPID: 17300217000C VERSION: 2

PROJECT: ROOF STUDY

COUNTY: SHELBY TWP/RNG: 9N 2E SECTION: 9 QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: HERRICK LONGITUDE: -88.981158

GEOLOGIST:

CONFIDENTIAL: N LATITUDE: 39.242416

DATE COLLECTED:

SURFACE ELEVATION (FT.): 603.0 LOGGED (FT.): 802.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-109.0	MODESTO	PIASA	LIMESTONE	4.0	712.0	
-113.0	MODESTO		SHALE	49.0	716.0	
-162.0	CARBONDALE	DANVILLE	COAL	2.5	765.0	
-164.5	CARBONDALE		SHALE	6.5	767.5	
-171.0	CARBONDALE		SHALE	6.0	774.0	
-177.0	CARBONDALE	BANKSTON FORK	LIMESTONE W/ SHALE	8.0	780.0	
-185.0	CARBONDALE	LAWSON	SHALE	4.0	788.0	
-189.0	CARBONDALE	CONANT	LIMESTONE	1.0	792.0	
-190.0	CARBONDALE		SHALE	1.5	793.0	
-191.5	CARBONDALE	BRERETON	LIMESTONE	3.5	794.5	
-195.0	CARBONDALE	ANNA	SHALE	1.0	798.0	
-196.0	CARBONDALE	HERRIN	COAL	3.0	799.0	

MAPID: 17323585000C VERSION: 1

PROJECT: EIA-DOE

COUNTY: SHELBY TWP/RNG: 9N 2E SECTION: 10 QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: HERRICK LONGITUDE: -88.960112

GEOLOGIST: E. PRUSSEN

CONFIDENTIAL: N LATITUDE: 39.231723

DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 807.8

LOG TYPE: Company map

SOURCE: CARTER OIL WF-134

WELL TYPE: Coal Test

COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	7.8	800.0	

MAPID: 17301718000C VERSION: 1

PROJECT: CONF

COUNTY: SHELBY TWP/RNG: 9N 3E SECTION: 6 QUARTERS/FOOTAGES: 30' S line, 70' E line of SE SE SE

QUADRANGLE: HERRICK LONGITUDE: -88.899069

GEOLOGIST: LOG BOOK

CONFIDENTIAL: N LATITUDE: 39.245893

DATE COLLECTED: 12 / 3 / 1968

SURFACE ELEVATION (FT.): LOGGED (FT.): 778.0

LOG TYPE: Survey Core Study

SOURCE: HUMBLE OIL CO. WF-133

WELL TYPE: Coal Test

COMMENT: THICK FROM COMPANY LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	8.0	764.4	THICKNESS FROM COMPANY LOG

MAPID: 17301718000C VERSION: 2

PROJECT: ISGS88

COUNTY: SHELBY

TWP/RNG: 9N 3E

SECTION: 6

QUARTERS/FOOTAGES: 30' S line, 70' E line of SE SE SE

QUADRANGLE: HERRICK

LONGITUDE: -88.899069

GEOLOGIST: SROKA

CONFIDENTIAL: N

LATITUDE: 39.245893

DATE COLLECTED: 12 / 3 / 1968

SURFACE ELEVATION (FT.):

LOGGED (FT.): 778.0

LOG TYPE: Survey Core Study

SOURCE: HUMBLE OIL CO.

WELL TYPE: Coal Test

COMMENT: CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCLASSIFIED	759.7	0.0	
-	CARBONDALE	BRERETON	FOSSILIFEROUS LIMESTONE	0.5	759.7	CRINOIDS, BRACHS, FUSULINIDS
-	CARBONDALE		SHALE	0.4	760.2	
-	CARBONDALE	ANNA	BLACK SHALE	3.8	760.6	
-	CARBONDALE	HERRIN	COAL	8.0	764.4	THICKNESS FROM COMPANY LOG
-	CARBONDALE		CLAYSTONE & SILTSTONE	1.6	772.3	ROOTLETS, PYRITE NODULES
-	CARBONDALE		CLAYSTONE	1.1	773.9	WITH LS NODULES AND SLIP FRACTURES
-	CARBONDALE		LIMESTONE & DOLOMITE	1.7	775.0	
-	CARBONDALE		CLAYSTONE	1.3	776.7	WITH LS NODULES

MAPID: 17301718000C VERSION: 3

PROJECT: EIA-DOE

COUNTY: SHELBY TWP/RNG: 9N 3E SECTION: 6 QUARTERS/FOOTAGES: 30' S line, 70' E line of SE SE SE

QUADRANGLE: HERRICK LONGITUDE: -88.899069 GEOLOGIST: E. PRUSSEN

CONFIDENTIAL: N LATITUDE: 39.245893 DATE COLLECTED: 11 / 6 / 1968

SURFACE ELEVATION (FT.): 565.0 LOGGED (FT.): 809.0 LOG TYPE: Multiple log types

SOURCE: HUMBLE OIL CO. WF-133 WELL TYPE: Coal Test

COMMENT: DRILLER'S LOG, CORE REPORT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-175.0	MODESTO		SILTY SHALE	2.5	740.0	
-177.5	CARBONDALE	DANVILLE	BLACK SHALE	6.5	742.5	W/ COAL
-184.0	CARBONDALE		SILTY SHALE	1.0	749.0	
-185.0	CARBONDALE		LIMESTONE	0.9	750.0	
-185.9	CARBONDALE		SANDY SHALE	2.1	750.9	
-188.0	CARBONDALE	BANKSTON FORK	SHALE WITH LIMESTONE	9.1	753.0	
-197.1	CARBONDALE		BLACK SHALE	0.2	762.1	
-197.3	CARBONDALE		LIMESTONE	0.4	762.3	
-197.7	CARBONDALE		BLACK SHALE	1.1	762.7	
-198.8	CARBONDALE	BRERETON	LIMESTONE	0.4	763.8	
-199.2	CARBONDALE	ANNA	BLACK SHALE	0.1	764.2	
-199.3	CARBONDALE	HERRIN	COAL	0.8	764.3	
-200.1	CARBONDALE	HERRIN	BONE COAL	0.0	765.1	
-200.2	CARBONDALE	HERRIN	COAL	0.7	765.2	
-200.9	CARBONDALE	HERRIN	PYRITE	0.0	765.9	
-200.9	CARBONDALE	HERRIN	COAL	4.8	765.9	
-205.7	CARBONDALE	HERRIN	SHALE	0.1	770.7	BLUE BAND
-205.7	CARBONDALE	HERRIN	COAL	1.6	770.7	
-207.3	CARBONDALE		CLAYSTONE	5.7	772.3	
-213.0	CARBONDALE		SHALE	8.5	778.0	
-221.5	CARBONDALE		BLACK SHALE	4.3	786.5	
-225.8	CARBONDALE		LIMESTONE	0.5	790.8	
-226.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	791.3	
-227.5	CARBONDALE	SPRINGFIELD	COAL	4.6	792.5	
-232.1	CARBONDALE		SHALE	1.9	797.1	
-234.0	CARBONDALE		LIMESTONE	1.0	799.0	
-235.0	CARBONDALE		SILTSTONE	8.5	800.0	

MAPID: 17300235000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 9N 3E **SECTION:** 7 **QUARTERS/FOOTAGES:** SW SE NE
QUADRANGLE: HERRICK **LONGITUDE:** -88.902106 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.239416 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 544.0 **LOGGED (FT.):** 960.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
131.0	BOND	CARTHAGE	LIMESTONE	10.0	413.0	
-20.0	MODESTO	WEST FRANKLIN	LIMESTONE	32.0	564.0	
-182.0	CARBONDALE	DANVILLE	COAL	4.0	726.0	
-208.0	CARBONDALE	HERRIN	COAL	10.0	752.0	
-238.0	CARBONDALE	SPRINGFIELD	COAL	6.0	782.0	

MAPID: 17323586000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 9N 3E **SECTION:** 8 **QUARTERS/FOOTAGES:** SW SE SE
QUADRANGLE: HERRICK **LONGITUDE:** -88.883611 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.232001 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 793.4 **LOG TYPE:** Company map
SOURCE: CARTER OIL 4D-698 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	7.4	786.0	

MAPID: 17301405000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 9N 3E **SECTION:** 10 **QUARTERS/FOOTAGES:** 267' S line, 30' W line of SE NE SW
QUADRANGLE: BEECHER CITY **LONGITUDE:** -88.85454 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.235431 **DATE COLLECTED:** 7 / 2 / 1958
SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 94.6 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. C26 **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: 17301405000C VERSION: 2

PROJECT: ISGS88

COUNTY: SHELBY TWP/RNG: 9N 3E SECTION: 10 QUARTERS/FOOTAGES: 267' S line, 30' W line of SE NE SW
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.85454 GEOLOGIST: SROKA
 CONFIDENTIAL: N LATITUDE: 39.235431 DATE COLLECTED: 7 / 2 / 1958
 SURFACE ELEVATION (FT.): 590.0 LOGGED (FT.): 94.6 LOG TYPE: Drillers Log
 SOURCE: PEABODY COAL WELL TYPE: Coal Test
 COMMENT: DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
590.0			UNCONSOLIDATED	56.3	0.0
533.7			SANDY SHALE	27.5	56.3
506.2			SHALE	10.8	83.8

MAPID: 17300244000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 3E SECTION: 12 QUARTERS/FOOTAGES: NW NE NW
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.818356 GEOLOGIST: C TREWORYG
 CONFIDENTIAL: N LATITUDE: 39.244647 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 606.0 LOGGED (FT.): 932.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG, -U

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
136.0	BOND	CARTHAGE	LIMESTONE	6.0	470.0
-32.0	MODESTO	WEST FRANKLIN	LIMESTONE	20.0	638.0
-180.0	CARBONDALE	DANVILLE	COAL	2.0	786.0
-214.0	CARBONDALE	HERRIN	COAL	6.0	820.0
-237.0	CARBONDALE	SPRINGFIELD	COAL	3.0	843.0
-326.0	CARBONDALE	HOUCHIN CREEK	COAL	-	932.0

MAPID: 17301393000C VERSION: 1

PROJECT: CONF

COUNTY: SHELBY TWP/RNG: 9N 3E SECTION: 12 QUARTERS/FOOTAGES: 285' S line, 1280' E line of SE SE SE
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.809932 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 39.231824 DATE COLLECTED: 6 / 28 / 1958
 SURFACE ELEVATION (FT.): 590.0 LOGGED (FT.): 57.9 LOG TYPE: Drillers Log
 SOURCE: PEABODY COAL CO. C15 WELL TYPE: Coal Test
 COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
535.7	MATTOON	SHELBYVILLE	COAL	1.6	54.3

MAPID: 17301393000C VERSION: 2

PROJECT: ISGS88

COUNTY: SHELBY TWP/RNG: 9N 3E SECTION: 12 QUARTERS/FOOTAGES: 285' S line, 1280' E line of SE SE SE
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.809932 GEOLOGIST: SROKA
 CONFIDENTIAL: N LATITUDE: 39.231824 DATE COLLECTED: 6 / 28 / 1958
 SURFACE ELEVATION (FT.): 590.0 LOGGED (FT.): 57.9 LOG TYPE: Drillers Log
 SOURCE: PEABODY COAL WELL TYPE: Coal Test
 COMMENT: DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
590.0			UNCONSOLIDATED	29.4	0.0
560.6	MATTOON		SHALE	24.9	29.4
535.7	MATTOON	SHELBYVILLE	COAL	1.6	54.3
534.1	MATTOON		UNDERCLAY	2.0	55.9

MAPID: 17301406000C VERSION: 1

PROJECT: CONF

COUNTY: SHELBY TWP/RNG: 9N 3E SECTION: 12 QUARTERS/FOOTAGES: 144' S line, 27' W line of SW NW NW
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.824095 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 39.242293 DATE COLLECTED: 7 / 2 / 1958
 SURFACE ELEVATION (FT.): 602.0 LOGGED (FT.): 54.5 LOG TYPE: Drillers Log
 SOURCE: PEABODY COAL CO. C27 WELL TYPE: Coal Test
 COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
551.8	MATTOON	SHELBYVILLE	COAL	0.9	50.2

MAPID: 17301406000C VERSION: 2

PROJECT: ISGS88

COUNTY: SHELBY TWP/RNG: 9N 3E SECTION: 12 QUARTERS/FOOTAGES: 144' S line, 27' W line of SW NW NW
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.824095 GEOLOGIST: SROKA
 CONFIDENTIAL: N LATITUDE: 39.242293 DATE COLLECTED: 7 / 2 / 1958
 SURFACE ELEVATION (FT.): 602.0 LOGGED (FT.): 54.5 LOG TYPE: Drillers Log
 SOURCE: PEABODY COAL WELL TYPE: Coal Test
 COMMENT: DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
602.0			UNCONSOLIDATED	50.2	0.0
551.8	MATTOON		COAL	0.9	50.2
550.9	MATTOON		UNDERCLAY	3.4	51.1

MAPID: 17301380000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 9N 3E **SECTION:** 13 **QUARTERS/FOOTAGES:** 653' N line, 126' W line of SW SW NW
QUADRANGLE: BEECHER CITY **LONGITUDE:** -88.823768 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.223692 **DATE COLLECTED:** 6 / 23 / 1958
SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 94.5 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. C1 **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: 17301380000C **VERSION:** 2 **PROJECT:** ISGS88
COUNTY: SHELBY **TWP/RNG:** 9N 3E **SECTION:** 13 **QUARTERS/FOOTAGES:** 653' N line, 126' W line of SW SW NW
QUADRANGLE: BEECHER CITY **LONGITUDE:** -88.823768 **GEOLOGIST:** SROKA
CONFIDENTIAL: N **LATITUDE:** 39.223692 **DATE COLLECTED:** 6 / 23 / 1958
SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 94.5 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL **WELL TYPE:** Coal Test
COMMENT: DRILL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0			UNCONSOLIDATED	64.3	0.0	
535.7	MATTOON		SHALE	3.8	64.3	
531.9	MATTOON		LIMESTONE	0.7	68.1	
531.2	MATTOON		SHALE	25.7	68.8	

MAPID: 17322024000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 9N 3E **SECTION:** 17 **QUARTERS/FOOTAGES:** NE NE NE
QUADRANGLE: HERRICK **LONGITUDE:** -88.881305 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.230159 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 589.0 **LOGGED (FT.):** 902.0 **LOG TYPE:** Nuclear Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
133.0	BOND	CARTHAGE	LIMESTONE	17.0	456.0	
-23.0	MODESTO	WEST FRANKLIN	LIMESTONE	24.0	612.0	
-181.0	CARBONDALE	DANVILLE	COAL	4.0	770.0	
-210.0	CARBONDALE	HERRIN	COAL	5.0	799.0	
-233.0	CARBONDALE	SPRINGFIELD	COAL	3.0	822.0	
-313.0	CARBONDALE	HOUCHIN CREEK	COAL	-	902.0	

MAPID: 17322048000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 4 QUARTERS/FOOTAGES: NW NW SW
 QUADRANGLE: FANCHER LONGITUDE: -88.767358 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.251304 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 612.0 LOGGED (FT.): 796.0 LOG TYPE: Nuclear Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
37.0	MODESTO	WEST FRANKLIN	LIMESTONE	30.0	575.0
-88.0	CARBONDALE	DANVILLE	COAL	3.5	700.0
-120.0	CARBONDALE	HERRIN	COAL	2.0	732.0
-184.0	CARBONDALE	HOUCHIN CREEK	COAL	-	796.0

MAPID: 17390009000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 5 QUARTERS/FOOTAGES: 1' S line, 157' E line of SE SW
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.778359 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.244929 DATE COLLECTED: 6 / 13 / 1946
 SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 419 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
540.0	PLEISTOCENE		UNCONSOLIDATED	20.0	0.0
520.0			SHALE	58.0	20.0

MAPID: 17390010000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 5 QUARTERS/FOOTAGES: 200' S line, 157' E line of SW SW
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.783017 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.245626 DATE COLLECTED: 6 / 13 / 1946
 SURFACE ELEVATION (FT.): 580.0 LOGGED (FT.): 46.1 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 419A WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
580.0	PLEISTOCENE		UNCONSOLIDATED	15.0	0.0
565.0	PLEISTOCENE		SAND	15.0	15.0
550.0	MATTOON		GRAY SHALE	10.0	30.0
540.0	MATTOON		SANDSTONE	4.6	40.0 VERY SOFT
535.4	MATTOON	SHELBYVILLE	COAL	0.5	44.6 CROP, SOFT
534.9	MATTOON		UNDERCLAY	1.0	45.1

MAPID: 17390013000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 5 QUARTERS/FOOTAGES: 660' S line, 1' W line of SW SW

QUADRANGLE: BEECHER CITY LONGITUDE: -88.787114 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 39.247025 DATE COLLECTED: 6 / 1 / 1946

SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 64.3 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 442 WELL TYPE: Coal Test

COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0	PLEISTOCENE		UNCONSOLIDATED	23.0	0.0	
577.0	MATTOON		SANDY SHALE	20.0	23.0	
557.0	MATTOON		UNKNOWN	10.0	43.0	DRILLER REPORTS SADN
547.0	MATTOON		GRAY SHALE	9.0	53.0	
538.0	MATTOON	SHELBYVILLE	COAL	1.3	62.0	
536.7	MATTOON		UNDERCLAY	1.0	63.3	

MAPID: 17390014000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 5 QUARTERS/FOOTAGES: 660' S line, 660' E line of SW SW

QUADRANGLE: BEECHER CITY LONGITUDE: -88.784804 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 39.246953 DATE COLLECTED: 6 / 13 / 1946

SURFACE ELEVATION (FT.): 580.0 LOGGED (FT.): 51.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 443 WELL TYPE: Coal Test

COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
580.0	PLEISTOCENE		UNCONSOLIDATED	20.0	0.0	
560.0	MATTOON		SANDY SHALE	18.0	20.0	
542.0	MATTOON		UNKNOWN	7.4	38.0	DRILLER REPORTS SAND AND GRAVEL
534.6	MATTOON		GRAY SHALE	3.3	45.4	
531.3	MATTOON	SHELBYVILLE	COAL	1.3	48.7	HARD
530.0	MATTOON		UNDERCLAY	1.0	50.0	

MAPID: 17390015000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 5 QUARTERS/FOOTAGES: 660' S line, 1' E line of SW SW
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.782465 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.246878 DATE COLLECTED: 6 / 13 / 1946
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 57.3 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 444 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
600.0	PLEISTOCENE		UNCONSOLIDATED	20.0	0.0
580.0	MATTOON		GRAY SHALE	15.0	20.0
565.0	MATTOON		SANDY SHALE	8.0	35.0
557.0	MATTOON		GRAY SHALE	12.0	43.0
545.0	MATTOON	SHELBYVILLE	COAL	1.3	55.0
543.7	MATTOON		UNDERCLAY	1.0	56.3

MAPID: 17390016000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 5 QUARTERS/FOOTAGES: 660' S line, 660' E line of SE SW
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.78015 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.246806 DATE COLLECTED: 6 / 13 / 1946
 SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 43.3 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 445 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
540.0	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0
530.0			GRAY SHALE	10.0	10.0
520.0			SHALE	23.3	20.0 BLUE

MAPID: 17390020000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 5 QUARTERS/FOOTAGES: 1' N line, 660' E line of SW SW
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.784809 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.24885 DATE COLLECTED: 6 / 1 / 1946
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 63.3 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 468 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
600.0	PLEISTOCENE		UNCONSOLIDATED	26.0	0.0
574.0	PLEISTOCENE		SAND & GRAVEL	32.0	26.0
542.0	MATTOON		GRAY SHALE	3.0	58.0
539.0	MATTOON	SHELBYVILLE	COAL	1.3	61.0 HARD
537.7	MATTOON		UNDERCLAY	1.0	62.3

MAPID: 17390021000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 5 QUARTERS/FOOTAGES: 100' N line, 1' W line of SW SE
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.777809 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.248396 DATE COLLECTED: 6 / 12 / 1946
 SURFACE ELEVATION (FT.): 580.0 LOGGED (FT.): 63.3 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 471 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
580.0	PLEISTOCENE		UNCONSOLIDATED	15.0	0.0
565.0			GRAY SHALE	48.3	15.0

MAPID: 17390024000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 5 QUARTERS/FOOTAGES: 660' S line, 660' E line of NW SW
 QUADRANGLE: FANCHER LONGITUDE: -88.784816 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.250675 DATE COLLECTED: 5 / 31 / 1946
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 62.4 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 493 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
600.0	PLEISTOCENE		UNCONSOLIDATED	20.0	0.0
580.0	MATTOON		SANDY SHALE	20.0	20.0
560.0	MATTOON		GRAY SHALE	20.0	40.0
540.0	MATTOON	SHELBYVILLE	COAL	1.4	60.0 GOOD
538.6	MATTOON		UNDERCLAY	1.0	61.4

MAPID: 17390025000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 5 QUARTERS/FOOTAGES: 660' S line, 1' E line of NW SW
 QUADRANGLE: FANCHER LONGITUDE: -88.782473 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.250613 DATE COLLECTED: 5 / 31 / 1946
 SURFACE ELEVATION (FT.): 607.0 LOGGED (FT.): 68.3 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 494 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
607.0	PLEISTOCENE		UNCONSOLIDATED	25.0	0.0
582.0	MATTOON		SANDY SHALE	20.0	25.0
562.0	MATTOON		GRAY SHALE	21.0	45.0
541.0	MATTOON	SHELBYVILLE	COAL	1.3	66.0 HARD
539.7	MATTOON		UNDERCLAY	1.0	67.3

MAPID: 17390031000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: SHELBY **TWP/RNG:** 9N 4E **SECTION:** 5 **QUARTERS/FOOTAGES:** 1' N line, 660' W line of NW NW
QUADRANGLE: FANCHER **LONGITUDE:** -88.784807 **GEOLOGIST:** PHILLIPS
CONFIDENTIAL: N **LATITUDE:** 39.260014 **DATE COLLECTED:** 5 / 28 / 1946
SURFACE ELEVATION (FT.): 610.0 **LOGGED (FT.):** 57.5 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE 518 **WELL TYPE:** Coal Test
COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.0	PLEISTOCENE		UNCONSOLIDATED	20.0	0.0	
590.0	MATTOON		SANDY SHALE	10.0	20.0	
580.0	MATTOON		GRAY SHALE	24.7	30.0	
555.3	MATTOON	SHELBYVILLE	COAL	1.8	54.7	HARD
553.5	MATTOON		UNDERCLAY	1.0	56.5	

MAPID: 17390032000C **VERSION:** 1 **PROJECT:** NCRDS012
COUNTY: SHELBY **TWP/RNG:** 9N 4E **SECTION:** 5 **QUARTERS/FOOTAGES:** 1' S line, 1' W line of SW SW NE
QUADRANGLE: FANCHER **LONGITUDE:** -88.777817 **GEOLOGIST:** PHILLIPS
CONFIDENTIAL: N **LATITUDE:** 39.252437 **DATE COLLECTED:** 5 / 21 / 1946
SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 64.2 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE 521 **WELL TYPE:** Coal Test
COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0	PLEISTOCENE		UNCONSOLIDATED	25.0	0.0	
575.0	MATTOON		SANDY SHALE	15.0	25.0	
560.0	MATTOON		GRAY SHALE	22.0	40.0	
538.0	MATTOON	SHELBYVILLE	COAL	1.2	62.0	GOOD
536.8	MATTOON		UNDERCLAY	1.0	63.2	

MAPID: 17301382000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 9N 4E **SECTION:** 6 **QUARTERS/FOOTAGES:** 53' S line, 276' E line of SE NE
QUADRANGLE: FANCHER **LONGITUDE:** -88.788111 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.25276 **DATE COLLECTED:** 6 / 24 / 1958
SURFACE ELEVATION (FT.): 595.0 **LOGGED (FT.):** 53.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. C2 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
546.1	MATTOON	SHELBYVILLE	COAL	2.1	48.9	

MAPID: 17301382000C VERSION: 2

PROJECT: ISGS88

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 6 QUARTERS/FOOTAGES: 53' S line, 276' E line of SE NE
 QUADRANGLE: FANCHER LONGITUDE: -88.788111 GEOLOGIST: SROKA
 CONFIDENTIAL: N LATITUDE: 39.25276 DATE COLLECTED: 6 / 24 / 1958
 SURFACE ELEVATION (FT.): 595.0 LOGGED (FT.): 53.0 LOG TYPE: Drillers Log
 SOURCE: PEABODY COAL WELL TYPE: Coal Test
 COMMENT: DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
595.0			UNCONSOLIDATED	39.0	0.0
556.0	MATTOON		SHALE	7.9	39.0
548.1	MATTOON		BLACK SHALE	2.0	46.9
546.1	MATTOON	SHELBYVILLE	COAL	2.1	48.9
543.9	MATTOON		UNDERCLAY	1.7	51.1
542.2	MATTOON		LIMESTONE	0.2	52.8

MAPID: 17390006000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 6 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SW SE
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.796318 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.245118 DATE COLLECTED: 6 / 31 / 1946
 SURFACE ELEVATION (FT.): 560.0 LOGGED (FT.): 34.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 413 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
560.0	PLEISTOCENE		SAND	9.0	0.0
551.0	PLEISTOCENE		SAND & GRAVEL	2.3	9.0
548.7			SANDSTONE	3.7	11.3
545.0			GRAY SHALE	14.0	15.0
531.0			DARK SHALE	1.5	29.0
529.5			ROCK	0.5	30.5
529.0			GRAY SHALE	3.0	31.0

MAPID: 17390007000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 6 QUARTERS/FOOTAGES: 1' S line, 1' E line of SE SW SE
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.79172 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.245162 DATE COLLECTED: 6 / 3 / 1946
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 48.1 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 415 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0	PLEISTOCENE		UNCONSOLIDATED	16.0	0.0	
584.0	PLEISTOCENE		SAND & GRAVEL	11.5	16.0	
572.5	MATTOON		SANDSTONE	1.3	27.5	
571.2	MATTOON		SANDY SHALE	17.2	28.8	
554.0	MATTOON	SHELBYVILLE	COAL	1.1	46.0	SOFT
552.9	MATTOON		UNDERCLAY	1.0	47.1	

MAPID: 17390008000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 6 QUARTERS/FOOTAGES: 1' S line, 1' E line of SE SE SE
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.787115 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.245203 DATE COLLECTED: 5 / 28 / 1946
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 68.1 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 417 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0	PLEISTOCENE		UNCONSOLIDATED	20.0	0.0	
580.0	MATTOON		SANDY SHALE	20.0	20.0	
560.0	MATTOON		ROCK	10.8	40.0	
549.2	MATTOON		GRAY SHALE	15.0	50.8	
534.2	MATTOON	SHELBYVILLE	COAL	1.3	65.8	HARD
532.9	MATTOON		UNDERCLAY	1.0	67.1	

MAPID: 17390011000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 6 QUARTERS/FOOTAGES: 660' S line, 1' W line of SE SE
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.79172 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.246982 DATE COLLECTED: 6 / 2 / 1946
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 44.3 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 440 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0	PLEISTOCENE		UNCONSOLIDATED	25.0	0.0	
575.0	PLEISTOCENE		SAND & GRAVEL	2.0	25.0	
573.0	MATTOON		ROCK	1.0	27.0	
572.0	MATTOON		GRAY SHALE	14.0	28.0	
558.0	MATTOON	SHELBYVILLE	COAL	1.3	42.0	HARD
556.7	MATTOON		UNDERCLAY	1.0	43.3	

MAPID: 17390012000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 6 QUARTERS/FOOTAGES: 660' S line, 660' E line of SE SE
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.789458 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.247001 DATE COLLECTED: 6 / 2 / 1946
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 61.9 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 441 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0	PLEISTOCENE		UNCONSOLIDATED	23.0	0.0	
577.0	PLEISTOCENE		SAND & GRAVEL	22.0	23.0	
555.0	MATTOON		GRAY SHALE	14.7	45.0	
540.3	MATTOON	SHELBYVILLE	COAL	1.3	59.7	HARD
539.1	MATTOON		UNDERCLAY	1.0	60.9	

MAPID: 17390017000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 6 QUARTERS/FOOTAGES: 1' N line, 660' E line of SW SE
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.794073 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.248857 DATE COLLECTED: 6 / 13 / 1946
 SURFACE ELEVATION (FT.): 560.0 LOGGED (FT.): 19.4 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 464 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.0	PLEISTOCENE		UNCONSOLIDATED	5.0	0.0	
555.0	MATTOON		SANDY SHALE	12.0	5.0	
543.0	MATTOON	SHELBYVILLE	COAL	1.4	17.0	
541.6	MATTOON		UNKNOWN	1.0	18.4	NOT RECORDED

MAPID: 17390018000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 6 QUARTERS/FOOTAGES: 1' N line, 270' W line of SE SE
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.79077 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.248881 DATE COLLECTED: 6 / 13 / 1946
 SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 7.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 465A WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
540.0	PLEISTOCENE		UNCONSOLIDATED	2.0	0.0	
538.0	PLEISTOCENE		SAND & GRAVEL	5.0	2.0	

MAPID: 17390019000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 6 QUARTERS/FOOTAGES: 1' N line, 1' E line of NE SE SE
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.787124 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.248908 DATE COLLECTED: 6 / 28 / 1946
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 64.5 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 467 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0	PLEISTOCENE		UNCONSOLIDATED	20.0	0.0	
580.0	MATTOON		SANDY SHALE	20.0	20.0	
560.0	MATTOON		GRAY SHALE	21.1	40.0	
538.9	MATTOON	SHELBYVILLE	COAL	0.5	61.1	SOFT
538.4	MATTOON	SHELBYVILLE	COAL	1.1	61.6	HARD
537.3	MATTOON	SHELBYVILLE	COAL	0.8	62.7	SOFT
536.5	MATTOON		UNDERCLAY	1.0	63.5	

MAPID: 17390022000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 6 QUARTERS/FOOTAGES: 660' N line, 1' E line of NE SW
 QUADRANGLE: FANCHER LONGITUDE: -88.796351 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.25075 DATE COLLECTED: 5 / 26 / 1946
 SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 35.7 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 488 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
540.0	PLEISTOCENE		UNCONSOLIDATED	11.3	0.0	
528.7	MATTOON		GRAY SHALE	19.5	11.3	
509.2	MATTOON	SHELBYVILLE	COAL	1.4	30.8	VERY HARD
507.7	MATTOON		UNDERCLAY	2.0	32.3	
505.7	MATTOON		UNKNOWN	1.4	34.3	NOT RECORDED

MAPID: 17390023000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 6 QUARTERS/FOOTAGES: 660' N line, 1' E line of NE SE
 QUADRANGLE: FANCHER LONGITUDE: -88.78713 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.250797 DATE COLLECTED: 6 / 16 / 1946
 SURFACE ELEVATION (FT.): 596.5 LOGGED (FT.): 53.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 492 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
596.5	PLEISTOCENE		UNCONSOLIDATED	20.0	0.0
576.5			SHALE	32.4	20.0
544.1			LIMESTONE	0.6	52.4

MAPID: 17390026000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 6 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SW NE
 QUADRANGLE: FANCHER LONGITUDE: -88.796351 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.252575 DATE COLLECTED: 5 / 26 / 1946
 SURFACE ELEVATION (FT.): 610.0 LOGGED (FT.): 68.1 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 513 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
610.0	PLEISTOCENE		UNCONSOLIDATED	20.0	0.0
590.0	MATTOON		SANDY SHALE	15.0	20.0
575.0	MATTOON		GRAY SHALE	30.5	35.0
544.5	MATTOON	SHELBYVILLE	COAL	1.6	65.5 VERY HAD
542.9	MATTOON		UNDERCLAY	1.0	67.1

MAPID: 17390027000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 6 QUARTERS/FOOTAGES: 1' N line, 660' E line of NW SE

QUADRANGLE: FANCHER LONGITUDE: -88.794085 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 39.252581 DATE COLLECTED: 6 / 25 / 1946

SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 56.5 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 514 WELL TYPE: Coal Test

COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0	PLEISTOCENE		UNCONSOLIDATED	15.0	0.0	
585.0	MATTOON		SANDY SHALE	10.0	15.0	
575.0	MATTOON		GRAY SHALE	24.5	25.0	
550.5	MATTOON	SHELBYVILLE	COAL	0.4	49.5	HARD
550.1	MATTOON	SHELBYVILLE	UNCLASSIFIED	0.3	49.9	
549.8	MATTOON	SHELBYVILLE	COAL	0.5	50.2	SOFT
549.3	MATTOON	SHELBYVILLE	GRAY SHALE	2.9	50.7	
546.4	MATTOON	SHELBYVILLE	COAL	0.8	53.6	HARD
545.7	MATTOON	SHELBYVILLE	COAL	1.0	54.3	SOFT
544.6	MATTOON		UNDERCLAY	1.1	55.4	

MAPID: 17390028000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 6 QUARTERS/FOOTAGES: 1' N line, 660' W line of NW SE

QUADRANGLE: FANCHER LONGITUDE: -88.794011 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 39.25258 DATE COLLECTED: 6 / 25 / 1946

SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 50.1 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 515 WELL TYPE: Coal Test

COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0	PLEISTOCENE		UNCONSOLIDATED	20.0	0.0	
580.0	MATTOON		SANDY SHALE	15.0	20.0	
565.0	MATTOON		GRAY SHALE	11.3	35.0	
553.7	MATTOON	SHELBYVILLE	COAL	2.8	46.3	HARD
550.9	MATTOON		UNDERCLAY	1.0	49.1	

MAPID: 17390029000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 6 QUARTERS/FOOTAGES: 1' N line, 660' E line of NE SE
 QUADRANGLE: FANCHER LONGITUDE: -88.789473 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.252605 DATE COLLECTED: 5 / 25 / 1946
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 62.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 516 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0	PLEISTOCENE		UNCONSOLIDATED	30.0	0.0	
570.0	MATTOON		SANDY SHALE	10.0	30.0	
560.0	MATTOON		GRAY SHALE	10.0	40.0	
550.0	MATTOON		ROCK	0.5	50.0	SOFT
549.5	MATTOON		GRAY SHALE	8.3	50.5	
541.2	MATTOON	SHELBYVILLE	COAL	2.1	58.8	VERY HARD
539.2	MATTOON		UNDERCLAY	1.2	60.8	

MAPID: 17390030000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 6 QUARTERS/FOOTAGES: 1' N line, 1' E line of NE NE SE
 QUADRANGLE: FANCHER LONGITUDE: -88.787133 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.252616 DATE COLLECTED: 5 / 26 / 1946
 SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 28.8 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 517 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
540.0	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
533.0	MATTOON		GRAY SHALE	19.0	7.0	
514.0	MATTOON	SHELBYVILLE	COAL	1.8	26.0	VERY HARD
512.2	MATTOON		UNDERCLAY	1.0	27.8	

MAPID: 17390000000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 7 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW NW NE
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.796287 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.241485 DATE COLLECTED: 6 / 4 / 1946
 SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 44.3 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 363 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
540.0	PLEISTOCENE		UNCONSOLIDATED	20.0	0.0
520.0	MATTOON		SANDY SHALE	10.0	20.0
510.0	MATTOON		GRAY SHALE	12.0	30.0
498.0	MATTOON	SHELBYVILLE	COAL	1.3	42.0
496.7	MATTOON		UNDERCLAY	1.0	43.3

MAPID: 17390002000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 7 QUARTERS/FOOTAGES: 660' S line, 1' W line of NW NE
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.796304 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.243305 DATE COLLECTED: 6 / 4 / 1946
 SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 29.8 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 388 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
540.0	PLEISTOCENE		UNCONSOLIDATED	23.0	0.0
517.0	MATTOON		SANDY SHALE	4.3	23.0
512.7	MATTOON	SHELBYVILLE	COAL	1.5	27.3 HARD
511.2	MATTOON		UNDERCLAY	1.0	28.8

MAPID: 17390003000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 7 QUARTERS/FOOTAGES: 660' S line, 660' E line of NW NE
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.794046 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.243321 DATE COLLECTED: 6 / 4 / 1946
 SURFACE ELEVATION (FT.): 580.0 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 389 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
580.0	PLEISTOCENE		UNCONSOLIDATED	40.0	0.0
540.0			GRAY SHALE	30.0	40.0

MAPID: 17390004000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: SHELBY **TWP/RNG:** 9N 4E **SECTION:** 7 **QUARTERS/FOOTAGES:** 660' S line, 1' W line of NE NE
QUADRANGLE: BEECHER CITY **LONGITUDE:** -88.791699 **GEOLOGIST:** PHILLIPS
CONFIDENTIAL: N **LATITUDE:** 39.24334 **DATE COLLECTED:** 6 / 3 / 1946
SURFACE ELEVATION (FT.): 580.0 **LOGGED (FT.):** 54.3 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE 390 **WELL TYPE:** Coal Test
COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
580.0	PLEISTOCENE		UNCONSOLIDATED	30.0	0.0	
550.0	MATTOON		SANDY SHALE	16.0	30.0	
534.0	MATTOON		UNKNOWN	6.2	46.0	DRILLER REPORTS SAND AND GRAVEL
527.8	MATTOON	SHELBYVILLE	COAL	1.2	52.2	SOFT
526.7	MATTOON		UNDERCLAY	1.0	53.3	

MAPID: 17301394000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 9N 4E **SECTION:** 8 **QUARTERS/FOOTAGES:** 17' S line, 107' W line
QUADRANGLE: BEECHER CITY **LONGITUDE:** -88.786622 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.230649 **DATE COLLECTED:** 6 / 28 / 1958
SURFACE ELEVATION (FT.): 580.0 **LOGGED (FT.):** 94.5 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. C14 **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: 17301394000C **VERSION:** 2 **PROJECT:** ISGS88
COUNTY: SHELBY **TWP/RNG:** 9N 4E **SECTION:** 8 **QUARTERS/FOOTAGES:** 17' S line, 107' W line
QUADRANGLE: BEECHER CITY **LONGITUDE:** -88.786622 **GEOLOGIST:** SROKA
CONFIDENTIAL: N **LATITUDE:** 39.230649 **DATE COLLECTED:** 6 / 28 / 1958
SURFACE ELEVATION (FT.): 580.0 **LOGGED (FT.):** 94.5 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL **WELL TYPE:** Coal Test
COMMENT: DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
580.0			UNCONSOLIDATED	71.0	0.0	
509.0	MATTOON		SANDY SHALE	20.1	71.0	
488.9	MATTOON		SHALE	1.5	91.1	
487.4	MATTOON		BLACK SHALE	1.0	92.6	
486.4	MATTOON		SHALE	0.9	93.6	

MAPID: 17301395000C VERSION: 1

PROJECT: CONF

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 8 QUARTERS/FOOTAGES: 403' N line, 18' E line of NE SE SE
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.768546 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 39.232818 DATE COLLECTED: 6 / 29 / 1958
 SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 28.6 LOG TYPE: Drillers Log
 SOURCE: PEABODY COAL CO. C16 WELL TYPE: Coal Test
 COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
516.9	MATTOON	SHELBYVILLE	COAL	2.3	23.1

MAPID: 17301395000C VERSION: 2

PROJECT: ISGS88

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 8 QUARTERS/FOOTAGES: 403' N line, 18' E line of NE SE SE
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.768546 GEOLOGIST: SROKA
 CONFIDENTIAL: N LATITUDE: 39.232818 DATE COLLECTED: 6 / 29 / 1958
 SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 28.6 LOG TYPE: Drillers Log
 SOURCE: PEABODY COAL WELL TYPE: Coal Test
 COMMENT: DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
540.0			UNCONSOLIDATED	19.3	0.0
520.7	MATTOON		SHALE	3.8	19.3
516.9	MATTOON	SHELBYVILLE	COAL	2.3	23.1
514.6	MATTOON		UNDERCLAY	3.1	25.4

MAPID: 17390001000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 8 QUARTERS/FOOTAGES: 150' S line, 1' W line of NW NW
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.787083 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.241968 DATE COLLECTED: 5 / 28 / 1946
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 49.6 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 367 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
600.0	PLEISTOCENE		UNCONSOLIDATED	15.0	0.0
585.0	MATTOON		SANDY SHALE	20.0	15.0
565.0	MATTOON		GRAY SHALE	11.0	35.0
554.0	MATTOON	SHELBYVILLE	COAL	1.0	46.0 SOFT
553.0	MATTOON		UNDERCLAY	0.3	47.0
552.7	MATTOON		LIMESTONE	2.3	47.3

MAPID: 17390005000C VERSION: 1

PROJECT: NCRDS02

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 8 QUARTERS/FOOTAGES: 660' N line, 1' W line of NW NW
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.787094 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 39.243379 DATE COLLECTED: 6 / 28 / 1946
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 49.2 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 392 WELL TYPE: Coal Test
 COMMENT: REBER BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0	PLEISTOCENE		UNCONSOLIDATED	20.0	0.0	
580.0	MATTOON		SANDY SHALE	27.0	20.0	
553.0	MATTOON	SHELBYVILLE	COAL	0.5	47.0	HARD
552.5	MATTOON	SHELBYVILLE	COAL	0.2	47.5	HARD
552.2	MATTOON	SHELBYVILLE	COAL	0.4	47.8	
551.8	MATTOON		UNDERCLAY	1.0	48.2	

MAPID: 17300255000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 9 QUARTERS/FOOTAGES: SE SE NW
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.760419 GEOLOGIST: C TREWORYG
 CONFIDENTIAL: N LATITUDE: 39.238467 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 544.0 LOGGED (FT.): 678.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
164.0	BOND	CARTHAGE	LIMESTONE	11.0	380.0	
10.0	MODESTO	WEST FRANKLIN	LIMESTONE	18.0	534.0	
-102.0	CARBONDALE	DANVILLE	COAL	-	646.0	
-130.0	CARBONDALE	HERRIN	COAL	4.0	674.0	

MAPID: 17300264000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 16 QUARTERS/FOOTAGES: NE SE NW
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.760397 GEOLOGIST: C TREWORYG
 CONFIDENTIAL: N LATITUDE: 39.225903 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 598.0 LOGGED (FT.): 760.0 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	
166.0	BOND	CARTHAGE	LIMESTONE	14.0	432.0	
0.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	598.0	
-113.0	CARBONDALE	DANVILLE	COAL	-	711.0	
-138.0	CARBONDALE	HERRIN	COAL	5.5	736.0	
-162.0	CARBONDALE	SPRINGFIELD	COAL	-	760.0	

MAPID: 17300265000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 9N 4E **SECTION:** 17 **QUARTERS/FOOTAGES:** NE NW SE
QUADRANGLE: BEECHER CITY **LONGITUDE:** -88.774234 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.222332 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 616.0 **LOGGED (FT.):** 821.0 **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
154.0	BOND	CARTHAGE	LIMESTONE	9.0	462.0
2.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	614.0
-123.0	CARBONDALE	DANVILLE	COAL	-	739.0
-142.0	CARBONDALE	HERRIN	COAL	5.5	758.0
-151.0	CARBONDALE	SPRINGFIELD	COAL	5.5	767.0
-205.0	CARBONDALE	HOUCHIN CREEK	COAL	-	821.0

MAPID: 17301397000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 9N 4E **SECTION:** 17 **QUARTERS/FOOTAGES:** 912' S line, 148' E line
QUADRANGLE: BEECHER CITY **LONGITUDE:** -88.768932 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.218506 **DATE COLLECTED:** 6 / 29 / 1958
SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 78.2 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. C19 **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: 17301397000C **VERSION:** 2 **PROJECT:** ISGS88
COUNTY: SHELBY **TWP/RNG:** 9N 4E **SECTION:** 17 **QUARTERS/FOOTAGES:** 912' S line, 148' E line
QUADRANGLE: BEECHER CITY **LONGITUDE:** -88.768932 **GEOLOGIST:** SROKA
CONFIDENTIAL: N **LATITUDE:** 39.218506 **DATE COLLECTED:** 6 / 29 / 1958
SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 78.2 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL **WELL TYPE:** Coal Test
COMMENT: DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
590.0			UNCONSOLIDATED	78.2	0.0

MAPID: 17301398000C VERSION: 1

PROJECT: CONF

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 18 QUARTERS/FOOTAGES: 36' S line, 27' E line of NE SE SE
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.787093 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 39.218028 DATE COLLECTED: 6 / 29 / 1958
 SURFACE ELEVATION (FT.): 612.0 LOGGED (FT.): 94.5 LOG TYPE: Drillers Log
 SOURCE: PEABODY COAL CO. C18 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: 17301398000C VERSION: 2

PROJECT: ISGS88

COUNTY: SHELBY TWP/RNG: 9N 4E SECTION: 18 QUARTERS/FOOTAGES: 36' S line, 27' E line of NE SE SE
 QUADRANGLE: BEECHER CITY LONGITUDE: -88.787093 GEOLOGIST: SROKA
 CONFIDENTIAL: N LATITUDE: 39.218028 DATE COLLECTED: 6 / 29 / 1958
 SURFACE ELEVATION (FT.): 612.0 LOGGED (FT.): 94.5 LOG TYPE: Drillers Log
 SOURCE: PEABODY COAL WELL TYPE: Coal Test
 COMMENT: DRILL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
612.0			UNCONSOLIDATED	79.4	0.0
532.6			SANDY SHALE	15.1	79.4

MAPID: 17300268000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 5E SECTION: 2 QUARTERS/FOOTAGES: SW SW SW
 QUADRANGLE: EFFINGHAM NORTH LONGITUDE: -88.618148 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.245805 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 672.0 LOGGED (FT.): 951.0 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
74.0	BOND	CARTHAGE	LIMESTONE	13.0	598.0
-68.0	MODESTO	TRIVOLI	SANDSTONE	26.0	740.0
-103.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	775.0
-235.0	CARBONDALE	DANVILLE	COAL	4.0	907.0
-250.0	CARBONDALE	HERRIN	COAL	2.0	922.0
-273.0	CARBONDALE	SPRINGFIELD	COAL	6.0	945.0

MAPID: 17300127000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 5E SECTION: 3 QUARTERS/FOOTAGES: NE NE NW
 QUADRANGLE: STEWARDSON WEST LONGITUDE: -88.629769 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.258191 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 646.0 LOGGED (FT.): 962.0 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
86.0	BOND	CARTHAGE	LIMESTONE	6.0	560.0
-60.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	706.0
-206.0	CARBONDALE	DANVILLE	COAL	2.0	852.0
-244.0	CARBONDALE	SPRINGFIELD	COAL	6.0	890.0
-316.0	CARBONDALE	HOUCHIN CREEK	COAL	-	962.0

MAPID: 17301086000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 5E SECTION: 4 QUARTERS/FOOTAGES: NE NE NE
 QUADRANGLE: STEWARDSON WEST LONGITUDE: -88.639137 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.258216 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 659.0 LOGGED (FT.): 950.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
99.0	BOND	CARTHAGE	LIMESTONE	9.0	560.0
-48.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	707.0
-194.0	CARBONDALE	DANVILLE	COAL	2.0	853.0
-209.0	CARBONDALE	HERRIN	COAL	2.0	868.0
-226.0	CARBONDALE	SPRINGFIELD	COAL	6.0	885.0
-291.0	CARBONDALE	HOUCHIN CREEK	COAL	-	950.0

MAPID: 17300270000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 5E SECTION: 5 QUARTERS/FOOTAGES: SW SW NE
 QUADRANGLE: STEWARDSON WEST LONGITUDE: -88.664876 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.253023 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 639.0 LOGGED (FT.): 896.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
78.0	BOND	CARTHAGE	LIMESTONE	9.0	561.0
-68.0	MODESTO	WEST FRANKLIN	LIMESTONE	18.0	707.0
-219.0	CARBONDALE	DANVILLE	COAL	2.0	858.0
-249.0	CARBONDALE	SPRINGFIELD	COAL	8.0	888.0

MAPID: 17300271000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 5E SECTION: 6 QUARTERS/FOOTAGES: NW NW SW
 QUADRANGLE: STEWARDSON WEST LONGITUDE: -88.69305 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.251241 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 629.0 LOGGED (FT.): 902.0 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
98.0	BOND	CARTHAGE	LIMESTONE	8.0	531.0
-48.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	677.0
-177.0	CARBONDALE	DANVILLE	COAL	2.0	806.0
-187.0	CARBONDALE	HERRIN	COAL	2.0	816.0
-207.0	CARBONDALE	SPRINGFIELD	COAL	4.0	836.0
-273.0	CARBONDALE	HOUCHIN CREEK	COAL	-	902.0

MAPID: 17300274000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 5E SECTION: 9 QUARTERS/FOOTAGES: SW SW NW
 QUADRANGLE: SHUMWAY LONGITUDE: -88.655438 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.238679 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 624.0 LOGGED (FT.): 880.0 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
37.0	BOND	CARTHAGE	LIMESTONE	3.0	587.0
-85.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	709.0
-222.0	CARBONDALE	DANVILLE	COAL	4.0	846.0
-232.0	CARBONDALE	HERRIN	COAL	2.0	856.0
-251.0	CARBONDALE	SPRINGFIELD	COAL	5.0	875.0

MAPID: 17300279000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 5E SECTION: 14 QUARTERS/FOOTAGES: NE NW NE
 QUADRANGLE: EFFINGHAM NORTH LONGITUDE: -88.606029 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.229402 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 639.0 LOGGED (FT.): 946.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG, #6 OR LS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
23.0	BOND	CARTHAGE	LIMESTONE	9.0	616.0
-109.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	748.0
-259.0	CARBONDALE	DANVILLE	COAL	3.0	898.0
-301.0	CARBONDALE	SPRINGFIELD	COAL	6.0	940.0

MAPID: 17301113000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 5E SECTION: 15 QUARTERS/FOOTAGES: NW NE SW
 QUADRANGLE: SHUMWAY LONGITUDE: -88.631812 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.222212 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 656.0 LOGGED (FT.): 1039.0 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	MODESTO	TRIVOLI	SANDSTONE	58.0	680.0	
-102.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	758.0	
-250.0	CARBONDALE	DANVILLE	COAL	3.0	906.0	
-283.0	CARBONDALE	SPRINGFIELD	COAL	5.0	939.0	
-383.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1039.0	

MAPID: 17300284000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 6E SECTION: 2 QUARTERS/FOOTAGES: SW SW NW
 QUADRANGLE: STEWARDSON EAST LONGITUDE: -88.507147 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.252369 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 643.0 LOGGED (FT.): 1062.0 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	
-54.0	BOND	CARTHAGE	LIMESTONE	5.0	697.0	
-169.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	812.0	
-321.0	CARBONDALE	DANVILLE	COAL	3.0	964.0	
-337.0	CARBONDALE	HERRIN	COAL	2.0	980.0	
-361.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1004.0	
-419.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1062.0	

MAPID: 17300285000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 6E SECTION: 4 QUARTERS/FOOTAGES: NE NE SW
 QUADRANGLE: STEWARDSON EAST LONGITUDE: -88.537217 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.250675 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 631.0 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
-29.0	BOND	CARTHAGE	LIMESTONE	4.0	660.0
-154.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	785.0
-308.0	CARBONDALE	DANVILLE	COAL	4.0	939.0
-323.0	CARBONDALE	HERRIN	COAL	3.5	954.0
-350.0	CARBONDALE	SPRINGFIELD	COAL	5.0	981.0
-444.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1075.0

MAPID: 17300933000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 6E SECTION: 4 QUARTERS/FOOTAGES: NW NW NW
 QUADRANGLE: STEWARDSON EAST LONGITUDE: -88.544402 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.257928 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 639.0 LOGGED (FT.): 978.5 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG, 5S BLO#5

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-131.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	770.0
-291.0	CARBONDALE	DANVILLE	COAL	4.0	930.0
-307.0	CARBONDALE	HERRIN	COAL	3.0	946.0
-335.0	CARBONDALE	SPRINGFIELD	COAL	4.5	974.0

MAPID: 17301148000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 6E SECTION: 5 QUARTERS/FOOTAGES: NE SW SE
 QUADRANGLE: EFFINGHAM NORTH LONGITUDE: -88.551201 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.247165 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 603.0 LOGGED (FT.): 1055.0 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
-147.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	750.0
-311.0	CARBONDALE	DANVILLE	COAL	4.0	914.0
-334.0	CARBONDALE	HERRIN	COAL	2.0	937.0
-358.0	CARBONDALE	SPRINGFIELD	COAL	5.0	961.0
-452.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1055.0

MAPID: 17301169000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 6E SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW NW
 QUADRANGLE: STEWARDSON EAST LONGITUDE: -88.58063 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.256246 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 633.0 LOGGED (FT.): 1045.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
25.0	BOND	CARTHAGE	LIMESTONE	12.0	608.0
-127.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	760.0
-273.0	CARBONDALE	DANVILLE	COAL	3.0	906.0
-321.0	CARBONDALE	SPRINGFIELD	COAL	4.0	954.0
-412.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1045.0

MAPID: 17300026000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 6E SECTION: 12 QUARTERS/FOOTAGES: NW NE NW
 QUADRANGLE: TEUTOPOLIS LONGITUDE: -88.483781 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.243105 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 642.0 LOGGED (FT.): 1052.0 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
-193.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	835.0
-354.0	CARBONDALE	DANVILLE	COAL	4.0	996.0
-405.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1047.0

MAPID: 17300027000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 9N 6E SECTION: 15 QUARTERS/FOOTAGES: NE NE NE
 QUADRANGLE: EFFINGHAM NORTH LONGITUDE: -88.509323 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.228607 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 639.0 LOGGED (FT.): 1039.0 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
-195.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	834.0
-348.0	CARBONDALE	DANVILLE	COAL	4.0	987.0
-394.0	CARBONDALE	SPRINGFIELD	COAL	6.0	1033.0

MAPID: 17323587000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 10N 1E **SECTION:** 1 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: OCONEE **LONGITUDE:** -89.02662 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.332336 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 789.8 **LOG TYPE:** Company map
SOURCE: CARTER OIL WF-180 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	7.8	782.0

MAPID: 17300207000C **VERSION:** 1 **PROJECT:** ROOF STUDY
COUNTY: SHELBY **TWP/RNG:** 10N 1E **SECTION:** 2 **QUARTERS/FOOTAGES:** 14' N line, 69' E line
QUADRANGLE: OCONEE **LONGITUDE:** -89.044307 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 39.346281 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 661.0 **LOGGED (FT.):** 740.3 **LOG TYPE:** Survey Core Study
SOURCE: PEABODY COAL CO. 4 **WELL TYPE:** Coal Test
COMMENT: GOOD DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-41.0	CARBONDALE	DANVILLE	COAL	3.5	702.0
-44.5	CARBONDALE		GRAY SHALE	10.0	705.5
-54.5	CARBONDALE		GRAY SHALE	5.0	715.5
-59.5	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	720.5
-62.5	CARBONDALE	LAWSON	GRAY SHALE	6.4	723.5
-68.9	CARBONDALE	BRERETON	LIMESTONE/UNDERCLAY	1.9	729.9
-70.8	CARBONDALE	ANNA	BLACK SHALE	1.2	731.8
-72.0	CARBONDALE	HERRIN	COAL	7.3	733.0

MAPID: 17300207000C **VERSION:** 2 **PROJECT:** ISGS88
COUNTY: SHELBY **TWP/RNG:** 10N 1E **SECTION:** 2 **QUARTERS/FOOTAGES:** 14' N line, 69' E line
QUADRANGLE: OCONEE **LONGITUDE:** -89.044307 **GEOLOGIST:** SROKA
CONFIDENTIAL: N **LATITUDE:** 39.346281 **DATE COLLECTED:** 3 / 12 / 1955
SURFACE ELEVATION (FT.): 660.9 **LOGGED (FT.):** 741.3 **LOG TYPE:** Survey Core Study
SOURCE: PEABODY COAL **WELL TYPE:** Coal Test
COMMENT: CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
660.9			UNCLASSIFIED	728.8	0.0
-67.9	CARBONDALE	BRERETON	SILTY LIMESTONE	1.9	728.8
-69.8	CARBONDALE		CLAYSTONE & SILTSTONE	1.5	730.7
-71.3	CARBONDALE	ANNA	BLACK SHALE	1.2	732.2
-72.5	CARBONDALE	HERRIN	COAL	7.4	733.4
-79.9	CARBONDALE		UNDERCLAY	0.5	740.8

MAPID: 17300207000C VERSION: 3

PROJECT: CONF

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 2 QUARTERS/FOOTAGES: 14' N line, 69' E line

QUADRANGLE: OCONEE LONGITUDE: -89.044307 GEOLOGIST: LOG BOOK

CONFIDENTIAL: N LATITUDE: 39.346281 DATE COLLECTED: 0 / 0 / 1955

SURFACE ELEVATION (FT.): 660.9 LOGGED (FT.): 742.0 LOG TYPE: Survey Core Study

SOURCE: PEABODY COAL CO. 4 WELL TYPE: Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-72.5	CARBONDALE	HERRIN	COAL	7.3	733.4	

MAPID: 17300056000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 3 QUARTERS/FOOTAGES: 4410' S line, 1210' W line

QUADRANGLE: OCONEE LONGITUDE: -89.077437 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.34545 DATE COLLECTED: 12 / 0 / 1920

SURFACE ELEVATION (FT.): 680.2 LOGGED (FT.): 818.0 LOG TYPE: Drillers Log

SOURCE: J.A. LOOMIS AND CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.2			UNCONSOLIDATED	57.0	0.0	
623.2	MATTOON		SANDSTONE	1.0	57.0	
622.2	MATTOON		SHALE	49.0	58.0	
573.2	MATTOON		COAL	1.0	107.0	
572.2	BOND	MILLERSVILLE	LIMESTONE	56.0	108.0	
516.2	BOND		SHALE	77.5	164.0	
438.7	BOND		COAL	0.5	241.5	
438.2	BOND		SHALE	135.0	242.0	
303.2	BOND	CARTHAGE	LIMESTONE	9.0	377.0	
294.2	MODESTO		BLACK SHALE	7.0	386.0	
287.2	MODESTO		GRAY SHALE	15.0	393.0	
272.2	MODESTO		DARK SHALE	34.0	408.0	
238.2	MODESTO		BLACK SHALE	3.0	442.0	
235.2	MODESTO		SHALE	18.0	445.0	
217.2	MODESTO		SANDSTONE	2.0	463.0	
215.2	MODESTO		SHALE	73.0	465.0	
142.2	MODESTO	CHAPEL	COAL	0.3	538.0	UNCERTAIN CORRELATION
141.9	MODESTO		SHALE	0.5	538.3	
141.4	MODESTO	CHAPEL	COAL	0.5	538.8	UNCERTAIN CORRELATION
140.9	MODESTO		SHALE	5.8	539.3	
135.2	MODESTO	TRIVOLI	SANDSTONE	15.0	545.0	
120.2	MODESTO		SHALE	91.0	560.0	
29.2	MODESTO		SANDSTONE	1.0	651.0	
28.2	MODESTO		SHALE	23.0	652.0	
5.2	CARBONDALE	DANVILLE	COAL	3.5	675.0	
1.7	CARBONDALE		SHALE	12.5	678.5	
-10.8	CARBONDALE		DARK SHALE	14.8	691.0	
-25.6	CARBONDALE	HERRIN	COAL	7.2	705.8	
-32.7	CARBONDALE		SHALE	26.1	712.9	
-58.8	CARBONDALE		SANDY SHALE	19.0	739.0	
-77.8	CARBONDALE		BLACK SHALE	33.5	758.0	
-111.3	CARBONDALE		COAL	0.3	791.5	
-111.6	CARBONDALE		SHALE	26.3	791.8	

MAPID: 17301064000C VERSION: 1

PROJECT: ROOF STUDY

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 4 QUARTERS/FOOTAGES: NW SW SW

QUADRANGLE: OCONEE LONGITUDE: -89.098886

GEOLOGIST:

CONFIDENTIAL: N LATITUDE: 39.336593

DATE COLLECTED:

SURFACE ELEVATION (FT.): 677.0 LOGGED (FT.): 703.0

LOG TYPE: Drillers Log

SOURCE: PEABODY COAL CO. SC5

WELL TYPE: Coal Test

COMMENT: GOOD DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
30.0	MODESTO	PIASA	LIMESTONE	3.0	647.0
27.0	MODESTO		SHALE	15.0	650.0
12.0	CARBONDALE	DANVILLE	COAL	3.4	665.0
8.6	CARBONDALE		CLAYSTONE	0.6	668.4
8.0	CARBONDALE	GALUM	LIMESTONE	3.0	669.0
5.0	CARBONDALE		SHALE	11.0	672.0
-6.0	CARBONDALE	BANKSTON FORK	LIMESTONE	2.0	683.0
-8.0	CARBONDALE	LAWSON	SHALE	5.0	685.0
-13.0	CARBONDALE	BRERETON	LIMESTONE	5.3	690.0
-18.0	CARBONDALE	HERRIN	COAL	8.0	695.0

MAPID: 17301064000C VERSION: 2

PROJECT: ISGS88

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 4 QUARTERS/FOOTAGES: NW SW SW

QUADRANGLE: OCONEE LONGITUDE: -89.098886 GEOLOGIST: SROKA

CONFIDENTIAL: N LATITUDE: 39.336593 DATE COLLECTED: 9 / 10 / 1956

SURFACE ELEVATION (FT.): 677.0 LOGGED (FT.): 704.3 LOG TYPE: Drillers Log

SOURCE: PEABODY COAL WELL TYPE: Coal Test

COMMENT: DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
677.0			UNCONSOLIDATED	42.0	0.0
635.0	MATTOON		SHALE	61.0	42.0
574.0	BOND	MILLERSVILLE	LIMESTONE	48.0	103.0
526.0	BOND		SILTY SHALE	100.0	151.0
426.0	BOND		SANDSTONE	50.0	251.0
376.0	BOND		SHALE	71.0	301.0
305.0	BOND	CARTHAGE	LIMESTONE	17.0	372.0
288.0	MODESTO		SHALE	146.0	389.0
142.0	MODESTO		LIMESTONE	5.0	535.0
137.0	MODESTO		SHALE	2.0	540.0
135.0	MODESTO		SANDSTONE	90.0	542.0
45.0	MODESTO		SHALE	15.0	632.0
30.0	MODESTO	PIASA	LIMESTONE	3.0	647.0
27.0	MODESTO		SHALE	15.0	650.0
12.0	CARBONDALE	DANVILLE	COAL	3.4	665.0
8.6	CARBONDALE		UNDERCLAY	0.6	668.4
8.0	CARBONDALE		LIMESTONE	3.0	669.0
5.0	CARBONDALE		SHALE	3.0	672.0
2.0	CARBONDALE		LIMESTONE	1.0	675.0
1.0	CARBONDALE		SHALE	7.0	676.0
-6.0	CARBONDALE	CONANT	LIMESTONE	2.0	683.0
-8.0	CARBONDALE		SHALE	5.0	685.0
-13.0	CARBONDALE	BRERETON	LIMESTONE	5.3	690.0
-18.3	CARBONDALE	HERRIN	COAL	7.7	695.3
-26.0	CARBONDALE		UNDERCLAY	1.3	703.0

MAPID: 17301064000C VERSION: 3

PROJECT: CONF

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 4 QUARTERS/FOOTAGES: NW SW SW

QUADRANGLE: OCONEE LONGITUDE: -89.098886 GEOLOGIST: LOG BOOK

CONFIDENTIAL: N LATITUDE: 39.336593 DATE COLLECTED: 9 / 10 / 1956

SURFACE ELEVATION (FT.): 677.0 LOGGED (FT.): 704.0 LOG TYPE: Drillers Log

SOURCE: PEABODY COAL CO. SC5 WELL TYPE: Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
574.0			LIMESTONE	48.0	103.0
305.0			LIMESTONE	17.0	372.0
142.0			LIMESTONE	5.0	535.0
30.0			LIMESTONE	3.0	647.0
12.0	SHELBURN	DANVILLE	COAL	3.4	665.0
8.0			LIMESTONE	3.0	669.0
2.0			LIMESTONE	1.0	675.0
-6.0			LIMESTONE	2.0	683.0
-13.0			LIMESTONE	5.3	690.0
-18.3	CARBONDALE	HERRIN	COAL	8.0	695.3

MAPID: 17300100000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 5 QUARTERS/FOOTAGES: 3490' S line, 400' E line

QUADRANGLE: OCONEE LONGITUDE: -89.101645 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.34354 DATE COLLECTED: 3 / 12 / 1921

SURFACE ELEVATION (FT.): 674.5 LOGGED (FT.): 699.5 LOG TYPE: Drillers Log

SOURCE: J.A. LOOMIS AND CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
674.5			UNCONSOLIDATED	31.0	0.0
643.5	MATTOON		SHALE	63.0	31.0
580.5	BOND	MILLERSVILLE	LIMESTONE	45.0	94.0
535.5	BOND		SHALE	222.0	139.0
313.5	BOND	CARTHAGE	LIMESTONE	13.0	361.0
300.5	MODESTO		SHALE	150.5	374.0
150.0	MODESTO		COAL	1.5	524.5
148.5	MODESTO		SHALE	84.0	526.0
64.5	MODESTO		SHALE	2.3	610.0
62.2	MODESTO		COAL	0.1	612.3
62.1	MODESTO		SHALE	18.8	612.4
43.3	MODESTO	PIASA	LIMESTONE	2.5	631.2
40.8	MODESTO		SHALE	1.9	633.7
38.9	MODESTO		LIMESTONE	1.4	635.6
37.5	MODESTO		SHALE	17.8	637.0
19.7	CARBONDALE	DANVILLE	COAL	3.3	654.8
16.3	CARBONDALE		SHALE	9.0	658.2
7.3	CARBONDALE	BANKSTON FORK	LIMESTONE	7.3	667.2
0.0	CARBONDALE		SHALE	3.5	674.5
-3.5	CARBONDALE	BRERETON	LIMESTONE	3.5	678.0
-7.0	CARBONDALE	ANNA	BLACK SHALE	3.9	681.5
-10.9	CARBONDALE	HERRIN	COAL	6.1	685.4
-17.0	CARBONDALE	HERRIN	SHALE	0.1	691.5
-17.1	CARBONDALE	HERRIN	COAL	1.6	691.6
-18.7	CARBONDALE		SANDSTONE	1.0	693.2
-19.7	CARBONDALE		SHALE	5.3	694.2

MAPID: 17300100000C VERSION: 2

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 5 QUARTERS/FOOTAGES: 3490' S line, 400' E line

QUADRANGLE: OCONEE LONGITUDE: -89.101645 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.34354 DATE COLLECTED:

SURFACE ELEVATION (FT.): 675.0 LOGGED (FT.): 692.7 LOG TYPE: Survey Core Study

SOURCE: WELL TYPE: Coal Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
314.0	BOND	CARTHAGE	LIMESTONE	13.0	361.0
42.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	633.0
20.0	CARBONDALE	DANVILLE	COAL	3.3	655.0
-10.0	CARBONDALE	HERRIN	COAL	7.7	685.0

MAPID: 17301082000C VERSION: 1

PROJECT: ROOF STUDY

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 5 QUARTERS/FOOTAGES: NW SW SW

QUADRANGLE: OCONEE LONGITUDE: -89.117438 GEOLOGIST:

CONFIDENTIAL: N LATITUDE: 39.336694 DATE COLLECTED:

SURFACE ELEVATION (FT.): 646.0 LOGGED (FT.): 684.0 LOG TYPE: Drillers Log

SOURCE: PEABODY COAL CO. SC9 WELL TYPE: Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
20.3	MODESTO		SHALE	19.0	625.7
1.3	CARBONDALE	DANVILLE	COAL	3.5	644.7
-2.2	CARBONDALE		CLAYSTONE	1.5	648.2
-3.7	CARBONDALE		CALCAREOUS SHALE	5.0	649.7
-8.7	CARBONDALE	BANKSTON FORK	LIMESTONE	11.0	654.7
-19.7	CARBONDALE	LAWSON	SHALE	5.0	665.7
-24.7	CARBONDALE	BRERETON	LIMESTONE	2.0	670.7
-26.7	CARBONDALE	ANNA	SHALE	4.3	672.7
-31.0	CARBONDALE	HERRIN	COAL	7.0	677.0

MAPID: 17301082000C VERSION: 2

PROJECT: ISGS88

COUNTY: SHELBY

TWP/RNG: 10N 1E

SECTION: 5

QUARTERS/FOOTAGES: NW SW SW

QUADRANGLE: OCONEE

LONGITUDE: -89.117438

GEOLOGIST: SROKA

CONFIDENTIAL: N

LATITUDE: 39.336694

DATE COLLECTED: 1 / 16 / 1957

SURFACE ELEVATION (FT.): 646.5

LOGGED (FT.): 677.3

LOG TYPE: Drillers Log

SOURCE: PEABODY COAL

WELL TYPE: Coal Test

COMMENT: DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
646.5			UNCONSOLIDATED	70.6	0.0
575.9	BOND	MILLERSVILLE	LIMESTONE	27.2	70.6
548.7	BOND	MILLERSVILLE	SHALE	1.0	97.8
547.7	BOND	MILLERSVILLE	LIMESTONE	17.4	98.8
530.3	BOND		SILTY SHALE	1.8	116.2
528.5	BOND		SHALE	144.0	118.0
384.5	BOND		LIMESTONE	3.0	262.0
381.5	BOND		SHALE	61.0	265.0
320.5	BOND		LIMESTONE	1.0	326.0
319.5	BOND		SHALE	1.5	327.0
318.0	BOND	CARTHAGE	LIMESTONE	12.5	328.5
305.5	MODESTO		SHALE	94.0	341.0
211.5	MODESTO		SANDSTONE	118.0	435.0
93.5	MODESTO		LIMESTONE	1.7	553.0
91.8	MODESTO		SHALE	1.3	554.7
90.5	MODESTO		SANDSTONE	50.0	556.0
40.5	MODESTO		SHALE	39.0	606.0
1.5	CARBONDALE	DANVILLE	COAL	3.5	645.0
-2.0	CARBONDALE		UNDERCLAY	0.7	648.5
-2.7	CARBONDALE		SHALE	0.8	649.2
-3.5	CARBONDALE		LIMESTONE	16.0	650.0
-19.5	CARBONDALE		SHALE	5.0	666.0
-24.5	CARBONDALE		LIMESTONE	2.0	671.0
-26.5	CARBONDALE		SHALE	4.3	673.0

MAPID: 17301082000C VERSION: 3

PROJECT: CONF

COUNTY: SHELBY

TWP/RNG: 10N 1E

SECTION: 5

QUARTERS/FOOTAGES: NW SW SW

QUADRANGLE: OCONEE

LONGITUDE: -89.117438

GEOLOGIST: LOG BOOK

CONFIDENTIAL: N

LATITUDE: 39.336694

DATE COLLECTED: 1 / 16 / 1957

SURFACE ELEVATION (FT.): 646.5

LOGGED (FT.): 677.0

LOG TYPE: Drillers Log

SOURCE: PEABODY COAL CO. SC9

WELL TYPE: Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
575.9			LIMESTONE	45.6	70.6	
1.5	SHELBURN	DANVILLE	COAL	3.5	645.0	
-30.8	CARBONDALE	HERRIN	COAL	-	677.3	NO THICKNESS AVAILABLE

MAPID: 17300099000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 6 QUARTERS/FOOTAGES: 1100' S line, 70' E line

QUADRANGLE: OCONEE LONGITUDE: -89.118847 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.33705 DATE COLLECTED: 2 / 2 / 1921

SURFACE ELEVATION (FT.): 654.4 LOGGED (FT.): 763.0 LOG TYPE: Drillers Log

SOURCE: J.A. LOOMIS AND CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
654.4			UNCONSOLIDATED	40.0	0.0
614.4	MATTOON		SHALE	32.0	40.0
582.4	BOND	MILLERSVILLE	LIMESTONE	43.0	72.0
539.4	BOND		SANDY SHALE	79.0	115.0
460.4	BOND		COAL	0.5	194.0
459.9	BOND		SHALE	46.5	194.5
413.4	BOND		COAL	2.0	241.0
411.4	BOND		SANDY SHALE	88.0	243.0
323.4	BOND	CARTHAGE	LIMESTONE	11.0	331.0
312.4	MODESTO		SHALE	167.0	342.0
145.4	MODESTO		COAL	1.0	509.0
144.4	MODESTO		SHALE	112.0	510.0
32.4	MODESTO	PIASA	LIMESTONE	5.5	622.0
26.9	MODESTO		DARK SHALE	6.5	627.5
20.4	MODESTO		GREEN SHALE	3.0	634.0
17.4	MODESTO		BLACK SHALE	2.3	637.0
15.1	MODESTO		GREEN SHALE	4.2	639.3
10.9	CARBONDALE	DANVILLE	COAL	3.0	643.5
7.9	CARBONDALE		BLACK SHALE	0.5	646.5
7.4	CARBONDALE		SHALE	5.0	647.0
2.4	CARBONDALE		BLACK SHALE	3.0	652.0
-0.6	CARBONDALE		SHALE	12.3	655.0
-12.9	CARBONDALE	BRERETON	LIMESTONE	1.0	667.3
-13.9	CARBONDALE		CALCAREOUS SHALE	2.5	668.3
-16.4	CARBONDALE	ANNA	DARK SHALE & BLACK SHALE	7.0	670.8
-23.4	CARBONDALE	HERRIN	COAL	7.3	677.8
-30.6	CARBONDALE		SHALE	36.0	685.0
-66.6	CARBONDALE		SANDSTONE	3.0	721.0
-69.6	CARBONDALE		SHALE	18.0	724.0
-87.6	CARBONDALE		BLACK SHALE	2.0	742.0
-89.6	CARBONDALE		SHALE	1.0	744.0
-90.6	CARBONDALE		SHALE & SANDSTONE	4.0	745.0
-94.6	CARBONDALE		BLACK SHALE	3.0	749.0
-97.6	CARBONDALE		COAL	0.4	752.0
-98.0	CARBONDALE		SHALE	10.6	752.4

MAPID: 17300099000C VERSION: 2

PROJECT: ROOF STUDY

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 6 QUARTERS/FOOTAGES: 1100' S line, 70' E line

QUADRANGLE: OCONEE LONGITUDE: -89.118847

GEOLOGIST:

CONFIDENTIAL: N LATITUDE: 39.33705

DATE COLLECTED:

SURFACE ELEVATION (FT.): 655.0

LOGGED (FT.): 685.3

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
33.0	MODESTO	PIASA	LIMESTONE	5.5	622.0
27.5	MODESTO		SHALE	16.0	627.5
11.5	CARBONDALE	DANVILLE	COAL	3.0	643.5
8.5	CARBONDALE		DARK GRAY SHALE	8.5	646.5
0.0	CARBONDALE		DARK GRAY SHALE	12.3	655.0
-12.3	CARBONDALE	BANKSTON FORK	LIMESTONE	1.0	667.3
-13.3	CARBONDALE	LAWSON	CALCAREOUS SHALE	2.5	668.3
-15.8	CARBONDALE	BRERETON	LIMESTONE & SHALE	3.3	670.8
-19.0	CARBONDALE	ANNA	BLACK SHALE	3.8	674.0
-23.0	CARBONDALE	HERRIN	COAL	7.3	678.0

MAPID: 17300101000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 8 QUARTERS/FOOTAGES: 3800' S line, 160' E line

QUADRANGLE: OCONEE LONGITUDE: -89.100545

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.329758

DATE COLLECTED:

SURFACE ELEVATION (FT.): 666.0

LOGGED (FT.): 698.5

LOG TYPE: Survey Core Study

SOURCE:

WELL TYPE: Coal Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
294.0	BOND	CARTHAGE	LIMESTONE	14.0	372.0
235.0	MODESTO	WEST FRANKLIN	LIMESTONE	22.0	431.0
4.0	CARBONDALE	DANVILLE	COAL	3.5	662.0
-26.0	CARBONDALE	HERRIN	COAL	6.5	692.0

MAPID: 17300101000C VERSION: 2

PROJECT: ROOF STUDY

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 8 QUARTERS/FOOTAGES: 3800' S line, 160' E line

QUADRANGLE: OCONEE LONGITUDE: -89.100545

GEOLOGIST:

CONFIDENTIAL: N LATITUDE: 39.329758

DATE COLLECTED:

SURFACE ELEVATION (FT.): 666.0

LOGGED (FT.): 698.5

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
28.0	MODESTO	PIASA	LIMESTONE	6.5	638.0
21.5	MODESTO		VARRIGATED SHALE	18.7	644.5
2.8	CARBONDALE	DANVILLE	COAL	3.5	663.2
-0.7	CARBONDALE		GRAY SHALE	1.1	666.7
-1.7	CARBONDALE	GALUM	LIMESTONE & SHALE	4.9	667.7
-6.7	CARBONDALE		BLACK SHALE	2.8	672.7
-9.5	CARBONDALE		GRAY SHALE	4.3	675.5
-13.7	CARBONDALE	BANKSTON FORK	LIMESTONE	1.3	679.7
-15.1	CARBONDALE	BANKSTON FORK	GRAY SHALE	0.7	681.1
-15.7	CARBONDALE	BANKSTON FORK	LIMESTONE	0.9	681.7
-16.7	CARBONDALE	LAWSON	DARK GRAY SHALE	3.8	682.7
-20.5	CARBONDALE	BRERETON	LIMESTONE	2.0	686.5
-22.5	CARBONDALE	ANNA	BLACK SHALE	3.3	688.5
-26.0	CARBONDALE	HERRIN	COAL	6.5	692.0

MAPID: 17300101000C VERSION: 3

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 8 QUARTERS/FOOTAGES: 3800' S line, 160' E line

QUADRANGLE: OCONEE LONGITUDE: -89.100545 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.329758 DATE COLLECTED: 5 / 0 / 1910

SURFACE ELEVATION (FT.): 665.6 LOGGED (FT.): 698.8 LOG TYPE: Drillers Log

SOURCE: HOWARD L. HARGRAVE WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.6			UNCONSOLIDATED	86.6	0.0	
579.0	MATTOON		CALCAREOUS SHALE	1.0	86.6	
578.1	MATTOON		SHALE	0.5	87.5	
577.6	MATTOON		COAL	1.0	88.0	
576.6	MATTOON		UNCLASSIFIED	5.0	89.0	
571.6	MATTOON		SHALE	10.0	94.0	
561.6	BOND	MILLERSVILLE	LIMESTONE	37.0	104.0	
524.6	BOND		SANDSTONE	6.0	141.0	
518.6	BOND		SANDY SHALE	17.0	147.0	
501.6	BOND		DARK SHALE	59.0	164.0	
442.6	BOND		COAL	1.0	223.0	
441.6	BOND		SHALE	24.0	224.0	
417.6	BOND		DARK SHALE	22.0	248.0	
395.6	BOND		BLACK SHALE	2.0	270.0	
393.6	BOND		COAL	1.0	272.0	
392.6	BOND		BLUE SHALE	18.0	273.0	
374.6	BOND		DARK SHALE	4.0	291.0	
370.6	BOND		SANDSTONE	3.0	295.0	
367.6	BOND		DARK SHALE	32.0	298.0	
335.6	BOND		BLACK SHALE	18.0	330.0	
317.6	BOND		SHALE	24.0	348.0	
293.6	BOND	CARTHAGE	LIMESTONE	14.0	372.0	
279.6	MODESTO		BLACK SHALE	4.5	386.0	
275.1	MODESTO		SHALE	3.5	390.5	
271.6	MODESTO		DARK SHALE	7.0	394.0	
264.6	MODESTO	WOMAC	COAL	1.0	401.0	UNCERTAIN CORRELATION
263.6	MODESTO		DARK SHALE	2.0	402.0	
261.6	MODESTO		SHALE	13.0	404.0	
248.6	MODESTO		BLACK SHALE	14.0	417.0	
234.6	MODESTO	CARLINVILLE	LIMESTONE	22.0	431.0	UNCERTAIN CORRELATION
212.6	MODESTO		HARD SHALE	28.0	453.0	
184.6	MODESTO		SHALE	45.0	481.0	
139.6	MODESTO	CHAPEL	COAL	0.5	526.0	UNCERTAIN CORRELATION
139.1	MODESTO		UNDERCLAY	1.5	526.5	
137.6	MODESTO		SHALE	1.0	528.0	
136.6	MODESTO		SANDSTONE	3.0	529.0	
133.6	MODESTO		SANDY SHALE	8.0	532.0	
125.6	MODESTO		DARK SHALE	81.0	540.0	
44.6	MODESTO		SHALE	9.0	621.0	

35.6	MODESTO		BLACK SHALE	2.0	630.0
33.6	MODESTO		DARK SHALE	5.5	632.0
28.1	MODESTO	PIASA	LIMESTONE	6.5	637.5
21.6	MODESTO		SHALE	2.0	644.0
19.6	MODESTO		DARK SHALE	4.0	646.0
15.6	MODESTO		SHALE	2.0	650.0
13.6	MODESTO		BLACK SHALE	4.0	652.0
9.6	MODESTO		LIMESTONE W/ SHALE	2.0	656.0
7.6	MODESTO		SHALE	4.7	658.0
2.9	CARBONDALE	DANVILLE	COAL	3.5	662.7
-0.6	CARBONDALE		SHALE	1.1	666.2
-1.7	CARBONDALE	BANKSTON FORK	LIMESTONE	4.9	667.3
-6.6	CARBONDALE		BLACK SHALE	2.8	672.2
-9.4	CARBONDALE		SHALE	5.3	675.0
-14.7	CARBONDALE	CONANT	LIMESTONE	1.3	680.3
-16.0	CARBONDALE	CONANT	SHALE	0.7	681.6
-16.7	CARBONDALE	CONANT	LIMESTONE	0.9	682.3
-17.6	CARBONDALE		DARK SHALE	3.8	683.2
-21.4	CARBONDALE	BRERETON	LIMESTONE	2.0	687.0
-23.4	CARBONDALE	ANNA	BLACK SHALE	3.3	689.0
-26.7	CARBONDALE	HERRIN	COAL	6.5	692.3

MAPID: 17323588000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 10N 1E **SECTION:** 9 **QUARTERS/FOOTAGES:** SE SE NE
QUADRANGLE: OCONEE **LONGITUDE:** -89.082541 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.327006 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 747.4 **LOG TYPE:** Company map
SOURCE: CARTER OIL 4A-688 **WELL TYPE:** Coal Test
COMMENT: LOCATION, DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	8.4	739.0

MAPID: 17301150000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 1E **SECTION:** 12 **QUARTERS/FOOTAGES:** 77' S line, 11' E line of SE
QUADRANGLE: OCONEE **LONGITUDE:** -89.025351 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.31696 **DATE COLLECTED:** 0 / 0 / 1957
SURFACE ELEVATION (FT.): 648.0 **LOGGED (FT.):** 780.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. 11 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN COMMENT
-85.3	SHELBURN	DANVILLE	COAL	0.3	733.3
-123.3	CARBONDALE	HERRIN	COAL	7.9	771.3

MAPID: 1730115000C **VERSION:** 2 **PROJECT:** ISGS88
COUNTY: SHELBY **TWP/RNG:** 10N 1E **SECTION:** 12 **QUARTERS/FOOTAGES:** 77' S line, 11' E line of SE
QUADRANGLE: OCONEE **LONGITUDE:** -89.025351 **GEOLOGIST:** SROKA
CONFIDENTIAL: N **LATITUDE:** 39.31696 **DATE COLLECTED:** 2 / 10 / 1958
SURFACE ELEVATION (FT.): 648.0 **LOGGED (FT.):** 770.7 **LOG TYPE:** Survey Core Study
SOURCE: PEABODY COAL **WELL TYPE:** Coal Test
COMMENT: CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.0			UNCLASSIFIED	760.0	0.0	
-112.0			SILTY LIMESTONE	8.1	760.0	FOSSILIF
-120.1			BLACK SHALE	2.6	768.1	

MAPID: 17301152000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 1E **SECTION:** 12 **QUARTERS/FOOTAGES:** SW SE NW
QUADRANGLE: OCONEE **LONGITUDE:** -89.038196 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.325464 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 663.0 **LOGGED (FT.):** 983.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
239.0	BOND	CARTHAGE	LIMESTONE	13.0	424.0	
-51.0	MODESTO	PIASA	LIMESTONE	6.0	714.0	
-82.0	CARBONDALE	DANVILLE	COAL	2.0	745.0	
-115.0	CARBONDALE	HERRIN	COAL	-	778.0	
-137.0	CARBONDALE	SPRINGFIELD	COAL	-	800.0	
-213.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	876.0	

MAPID: 17301081000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 1E **SECTION:** 16 **QUARTERS/FOOTAGES:** 13' N line, 263' W line of NE NE
QUADRANGLE: OCONEE **LONGITUDE:** -89.085016 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.318775 **DATE COLLECTED:** 12 / 0 / 1954
SURFACE ELEVATION (FT.): 677.5 **LOGGED (FT.):** 740.0 **LOG TYPE:** Survey Core Study
SOURCE: PEABODY COAL CO. 2 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-55.3	CARBONDALE	HERRIN	COAL	7.3	732.8	

MAPID: 17300102000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 17 QUARTERS/FOOTAGES: 1050' S line, 150' E line

QUADRANGLE: OCONEE LONGITUDE: -89.100546 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.307652 DATE COLLECTED:

SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 690.0 LOG TYPE: Survey Core Study

SOURCE: WELL TYPE: Coal Test

COMMENT: GOOD LOG, TD 705

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
280.0	BOND	CARTHAGE	LIMESTONE	14.0	360.0
-8.0	CARBONDALE	DANVILLE	COAL	3.5	648.0
-43.0	CARBONDALE	HERRIN	COAL	7.0	683.0

MAPID: 17300102000C VERSION: 2

PROJECT: ROOF STUDY

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 17 QUARTERS/FOOTAGES: 1050' S line, 150' E line

QUADRANGLE: OCONEE LONGITUDE: -89.100546 GEOLOGIST:

CONFIDENTIAL: N LATITUDE: 39.307652 DATE COLLECTED:

SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 690.1 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Coal Test

COMMENT: GOOD DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
7.2	MODESTO	PIASA	LIMESTONE	2.5	632.8
4.7	MODESTO		DARK GRAY SHALE	12.8	635.3
-8.1	CARBONDALE	DANVILLE	COAL	3.5	648.1
-11.6	CARBONDALE	GALUM	LIMESTONE	2.2	651.6
-13.8	CARBONDALE		BLACK SHALE	5.5	653.8
-19.3	CARBONDALE	BANKSTON FORK	LIMESTONE	2.5	659.3
-21.8	CARBONDALE	LAWSON	CALCAREOUS SHALE	8.0	661.8
-29.8	CARBONDALE	CONANT	LIMESTONE	1.0	669.8
-30.8	CARBONDALE	BRERETON	LIMESTONE W/ SHALE	8.0	670.8
-38.8	CARBONDALE	ANNA	BLACK SHALE	4.2	678.8
-43.0	CARBONDALE	HERRIN	COAL	7.1	683.0

MAPID: 17300102000C VERSION: 3

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 17 QUARTERS/FOOTAGES: 1050' S line, 150' E line

QUADRANGLE: OCONEE LONGITUDE: -89.100546 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.307652 DATE COLLECTED: 1 / 0 / 1910

SURFACE ELEVATION (FT.): 639.6 LOGGED (FT.): 705.5 LOG TYPE: Drillers Log

SOURCE: R.R. AMELING BROTHERS WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
639.6	MATTOON		UNCONSOLIDATED	34.3	0.0
605.3	MATTOON		SANDSTONE	3.2	34.3
602.1	MATTOON		SHALE	39.5	37.5
562.6	MATTOON		BLACK SHALE	2.0	77.0
560.6	MATTOON		SHALE	5.5	79.0
555.1	BOND	MILLERSVILLE	LIMESTONE	6.0	84.5
549.1	BOND	MILLERSVILLE	UNDERCLAY	0.8	90.5
548.3	BOND	MILLERSVILLE	LIMESTONE	24.8	91.3
523.6	BOND		DARK SHALE	1.5	116.0
522.1	BOND	MILLERSVILLE	LIMESTONE	11.5	117.5
510.6	BOND		SHALE	74.0	129.0
436.6	BOND		COAL	0.8	203.0
435.8	BOND		BLACK SHALE	0.7	203.8
435.1	BOND		DARK SHALE	45.0	204.5
390.1	BOND		LIMESTONE	0.5	249.5
389.6	BOND		BLACK SHALE	4.3	250.0
385.3	BOND		COAL	0.7	254.3
384.6	BOND		CALCAREOUS SHALE	8.0	255.0
376.6	BOND		DARK SHALE	12.5	263.0
364.1	BOND		SANDSTONE	2.5	275.5
361.6	BOND		LIMESTONE	1.5	278.0
360.1	BOND		SANDSTONE	4.5	279.5
355.6	BOND		DARK SHALE	47.8	284.0
307.8	BOND		BLACK SHALE	0.8	331.8
306.9	BOND		SHALE	2.3	332.7
304.6	BOND		DARK SHALE	25.0	335.0
279.6	BOND	CARTHAGE	LIMESTONE	14.0	360.0
265.6	MODESTO		SHALE	7.5	374.0
258.1	MODESTO		LIMESTONE	0.7	381.5
257.4	MODESTO		SHALE	20.3	382.2
237.1	MODESTO		LIMESTONE	7.5	402.5
229.6	MODESTO		BLACK SHALE	2.0	410.0
227.6	MODESTO		CALCAREOUS SHALE	18.0	412.0
209.6	MODESTO		LIMESTONE	5.0	430.0
204.6	MODESTO		SHALE	3.0	435.0
201.6	MODESTO		SANDSTONE	9.5	438.0
192.1	MODESTO		DARK SHALE	56.0	447.5
136.1	MODESTO		BLACK SHALE	15.0	503.5
121.1	MODESTO		CALCAREOUS SHALE	1.0	518.5

120.1	MODESTO	TRIVOLI	SANDSTONE	53.5	519.5	UNCERTAIN CORRELATION
66.6	MODESTO		BLACK SHALE	11.0	573.0	
55.6	MODESTO		DARK SHALE	41.0	584.0	
14.6	MODESTO		SHALE	8.0	625.0	
6.6	MODESTO	PIASA	LIMESTONE	2.5	633.0	
4.1	MODESTO		SHALE	2.5	635.5	
1.6	MODESTO		BLACK SHALE	3.0	638.0	
-1.4	MODESTO		DARK SHALE	7.3	641.0	
-8.7	CARBONDALE	DANVILLE	COAL	3.5	648.3	
-12.2	CARBONDALE	BANKSTON FORK	LIMESTONE	2.2	651.8	
-14.4	CARBONDALE		BLACK SHALE	5.5	654.0	
-19.9	CARBONDALE	CONANT	LIMESTONE	2.5	659.5	
-22.4	CARBONDALE		SHALE	8.0	662.0	
-30.4	CARBONDALE	BRERETON	LIMESTONE	9.0	670.0	
-39.4	CARBONDALE	ANNA	BLACK SHALE	4.0	679.0	
-43.4	CARBONDALE	HERRIN	COAL	5.2	683.0	
-48.6	CARBONDALE	HERRIN	SHALE	0.1	688.2	
-48.7	CARBONDALE	HERRIN	COAL	2.1	688.3	
-50.7	CARBONDALE		UNDERCLAY	0.3	690.3	
-51.0	CARBONDALE		SHALE	4.2	690.6	
-55.2	CARBONDALE		UNDERCLAY	5.8	694.8	
-60.9	CARBONDALE		LIMESTONE	1.0	700.5	
-61.9	CARBONDALE		UNDERCLAY	4.0	701.5	
-65.9	CARBONDALE		UNCLASSIFIED	0.0	705.5	

MAPID: 17300205000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 1E **SECTION:** 18 **QUARTERS/FOOTAGES:** 2533' N line, 17' E line
QUADRANGLE: OCONEE **LONGITUDE:** -89.118794 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.31258 **DATE COLLECTED:** 1 / 0 / 1955
SURFACE ELEVATION (FT.): 683.6 **LOGGED (FT.):** 724.5 **LOG TYPE:** Survey Core Study
SOURCE: PEABODY COAL CO. 3 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN	COMMENT
-25.6	CARBONDALE	HERRIN	COAL	7.2	709.2	

MAPID: 17300205000C **VERSION:** 2 **PROJECT:** ROOF STUDY
COUNTY: SHELBY **TWP/RNG:** 10N 1E **SECTION:** 18 **QUARTERS/FOOTAGES:** 2533' N line, 17' E line
QUADRANGLE: OCONEE **LONGITUDE:** -89.118794 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 39.31258 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 684.0 **LOGGED (FT.):** 716.2 **LOG TYPE:** Survey Core Study
SOURCE: PEABODY COAL CO. 3 **WELL TYPE:** Coal Test
COMMENT: GOOD DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
9.0	MODESTO	PIASA	LIMESTONE	3.0	675.0
6.0	MODESTO		DARK GRAY SHALE	5.0	678.0
1.0	CARBONDALE	DANVILLE	COAL	3.0	683.0
-2.0	CARBONDALE		GRAY SHALE	4.0	686.0
-6.0	CARBONDALE		DARK GRAY SHALE	2.0	690.0
-8.0	CARBONDALE	BANKSTON FORK	LIMESTONE W/ SHALE	4.8	692.0
-12.8	CARBONDALE	LAWSON	CLAYSTONE & SHALE	2.8	696.8
-15.7	CARBONDALE	ANNA	BLACK SHALE	4.2	699.7
-25.0	CARBONDALE	HERRIN	COAL	7.2	709.0

MAPID: 17323589000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 10N 1E **SECTION:** 19 **QUARTERS/FOOTAGES:** NW SE SW
QUADRANGLE: OHLMAN **LONGITUDE:** -89.133127 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.293112 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 712.0 **LOG TYPE:** Company map
SOURCE: CARTER OIL WF-137 **WELL TYPE:** Coal Test
COMMENT: LOCN, DATA FROM PANA-BROWN A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	8.0	704.0

MAPID: 17301378000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 1E **SECTION:** 21 **QUARTERS/FOOTAGES:** 86' N line, 21' W line
QUADRANGLE: OCONEE **LONGITUDE:** -89.099942 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.304506 **DATE COLLECTED:** 12 / 0 / 1954
SURFACE ELEVATION (FT.): 680.5 **LOGGED (FT.):** 744.2 **LOG TYPE:** Survey Core Study
SOURCE: PEABODY COAL CO. 1 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-20.2	SHELBURN	DANVILLE	COAL	3.3	700.7
-54.2	CARBONDALE	HERRIN	COAL	8.1	734.7

MAPID: 17301378000C VERSION: 2

PROJECT: ROOF STUDY

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 21 QUARTERS/FOOTAGES: 86' N line, 21' W line

QUADRANGLE: OCONEE LONGITUDE: -89.099942 GEOLOGIST:

CONFIDENTIAL: N LATITUDE: 39.304506 DATE COLLECTED:

SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 743.1 LOG TYPE: Survey Core Study

SOURCE: PEABODY COAL CO. 1 WELL TYPE: Coal Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
1.0	MODESTO	PIASA	LIMESTONE	2.0	679.0
-1.0	MODESTO		SHALE	19.7	681.0
-20.7	CARBONDALE	DANVILLE	COAL	3.3	700.7
-24.0	CARBONDALE		CLAYSTONE	0.7	704.0
-24.7	CARBONDALE	GALUM	LIMESTONE/UNDERCLAY	2.9	704.7
-27.6	CARBONDALE		SHALE	18.0	707.6
-45.6	CARBONDALE	BANKSTON FORK	LIMESTONE W/ SHALE	1.7	725.6
-47.2	CARBONDALE	LAWSON	SHALE	2.2	727.2
-49.4	CARBONDALE	BRERETON	LIMESTONE	1.3	729.4
-50.7	CARBONDALE	ANNA	BLACK SHALE	5.2	730.7
-55.0	CARBONDALE	HERRIN	COAL	8.1	735.0

MAPID: 17323590000C VERSION: 1

PROJECT: EIA-DOE

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 21 QUARTERS/FOOTAGES: SW SE SW

QUADRANGLE: OCONEE LONGITUDE: -89.094213 GEOLOGIST: E. PRUSSEN

CONFIDENTIAL: N LATITUDE: 39.290978 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 722.2 LOG TYPE: Company map

SOURCE: CARTER OIL 19E-692 WELL TYPE: Coal Test

COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	7.2	715.0

MAPID: 17323591000C VERSION: 1

PROJECT: EIA-DOE

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 23 QUARTERS/FOOTAGES: NW NW NW

QUADRANGLE: OCONEE LONGITUDE: -89.06156 GEOLOGIST: E. PRUSSEN

CONFIDENTIAL: N LATITUDE: 39.30281 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 765.2 LOG TYPE: Company map

SOURCE: CARTER OIL WF-178 WELL TYPE: Coal Test

COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	8.2	757.0

MAPID: 17300296000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 24 QUARTERS/FOOTAGES: NE SW SW
 QUADRANGLE: OCONEE LONGITUDE: -89.040564 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.291323 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 647.0 LOGGED (FT.): 890.0 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
163.0	BOND	CARTHAGE	LIMESTONE	11.0	484.0
-97.0	MODESTO	PIASA	LIMESTONE	7.0	744.0
-128.0	CARBONDALE	DANVILLE	COAL	3.5	775.0
-159.0	CARBONDALE	HERRIN	COAL	8.0	806.0
-177.0	CARBONDALE	SPRINGFIELD	COAL	4.0	824.0
-243.0	CARBONDALE	HOUCHIN CREEK	COAL	-	890.0

MAPID: 17301073000C VERSION: 1

PROJECT: CONF

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 26 QUARTERS/FOOTAGES: 207' N line, 108' E line
 QUADRANGLE: OCONEE LONGITUDE: -89.044435 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 39.288194 DATE COLLECTED: 11 / 29 / 1956
 SURFACE ELEVATION (FT.): 598.3 LOGGED (FT.): 758.0 LOG TYPE: Survey Core Study
 SOURCE: PEABODY COAL CO. SC7 WELL TYPE: Coal Test
 COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
530.6			COAL	2.3	67.7
-117.7	SHELBURN	DANVILLE	COAL	3.7	716.0
-150.2	CARBONDALE	HERRIN	COAL	8.0	748.5

MAPID: 17301073000C VERSION: 2

PROJECT: ROOF STUDY

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 26 QUARTERS/FOOTAGES: 207' N line, 108' E line

QUADRANGLE: OCONEE LONGITUDE: -89.044435 GEOLOGIST:

CONFIDENTIAL: N LATITUDE: 39.288194 DATE COLLECTED:

SURFACE ELEVATION (FT.): 598.3 LOGGED (FT.): 757.0 LOG TYPE: Survey Core Study

SOURCE: PEABODY COAL CO. SC7 WELL TYPE: Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-86.7	MODESTO	PIASA	LIMESTONE W/ SHALE	7.0	685.0
-93.7	MODESTO		SHALE	24.0	692.0
-117.7	CARBONDALE	DANVILLE	COAL	2.0	716.0
-119.7	CARBONDALE		CLAYSTONE	1.0	718.0
-120.7	CARBONDALE		VARRIGATED SHALE	10.0	719.0
-130.7	CARBONDALE	BANKSTON FORK	LIMESTONE W/ SHALE	6.3	729.0
-137.0	CARBONDALE	LAWSON	CALCAREOUS SHALE	2.8	735.3
-139.8	CARBONDALE	BRERETON	LIMESTONE/UNDERCLAY	1.4	738.1
-141.2	CARBONDALE	ANNA	BLACK SHALE	6.8	739.5
-150.7	CARBONDALE	HERRIN	COAL	8.0	749.0

MAPID: 17323592000C VERSION: 1

PROJECT: EIA-DOE

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 26 QUARTERS/FOOTAGES: SE NE SE

QUADRANGLE: OCONEE LONGITUDE: -89.045306 GEOLOGIST: E. PRUSSEN

CONFIDENTIAL: N LATITUDE: 39.278789 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 833.8 LOG TYPE: Company map

SOURCE: CARTER OIL WF-130 WELL TYPE: Coal Test

COMMENT: LOCATION, DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	7.8	826.0

MAPID: 17300103000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 29 QUARTERS/FOOTAGES: 2475' S line, 2720' E line

QUADRANGLE: OCONEE LONGITUDE: -89.109748 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.282623 DATE COLLECTED:

SURFACE ELEVATION (FT.): 672.0 LOGGED (FT.): 705.0 LOG TYPE: Survey Core Study

SOURCE: WELL TYPE: Coal Test

COMMENT: GOOD LOG, TD 707

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
285.0	BOND	CARTHAGE	LIMESTONE	9.0	387.0
25.0	MODESTO	PIASA	LIMESTONE	3.0	647.0
3.0	CARBONDALE	DANVILLE	COAL	2.5	669.0
-26.0	CARBONDALE	HERRIN	COAL	7.0	698.0

MAPID: 17300103000C VERSION: 2

PROJECT: ROOF STUDY

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 29 QUARTERS/FOOTAGES: 2475' S line, 2720' E line

QUADRANGLE: OCONEE LONGITUDE: -89.109748

GEOLOGIST:

CONFIDENTIAL: N LATITUDE: 39.282623

DATE COLLECTED:

SURFACE ELEVATION (FT.): 672.0

LOGGED (FT.): 706.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Coal Test

COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
25.0	MODESTO	PIASA	LIMESTONE	2.5	647.0
22.5	MODESTO		VARRIGATED SHALE	20.0	649.5
2.5	CARBONDALE	DANVILLE	COAL	2.5	669.5
0.0	CARBONDALE		GRAY SHALE	3.5	672.0
-3.5	CARBONDALE	GALUM	LIMESTONE W/ SHALE	4.0	675.5
-7.5	CARBONDALE		BLACK SHALE	4.5	679.5
-12.0	CARBONDALE	BANKSTON FORK	LIMESTONE	1.0	684.0
-13.0	CARBONDALE	BANKSTON FORK	SHALE	3.5	685.0
-16.5	CARBONDALE	BANKSTON FORK	LIMESTONE & SHALE	3.0	688.5
-19.5	CARBONDALE	LAWSON	SHALE	1.5	691.5
-21.0	CARBONDALE		BLACK SHALE	2.5	693.0
-23.5	CARBONDALE	BRERETON	LIMESTONE	3.2	695.5
-26.7	CARBONDALE	ANNA	BLACK SHALE	0.3	698.7
-27.0	CARBONDALE	HERRIN	COAL	7.0	699.0

MAPID: 17300103000C VERSION: 3

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 29 QUARTERS/FOOTAGES: 2475' S line, 2720' E line

QUADRANGLE: OCONEE LONGITUDE: -89.109748 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.282623 DATE COLLECTED:

SURFACE ELEVATION (FT.): 671.8 LOGGED (FT.): 707.0 LOG TYPE: Drillers Log

SOURCE: HOWARD HARGRAVE WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
671.8			UNCONSOLIDATED	100.0	0.0
571.8	MATTOON		DARK SHALE	3.0	100.0
568.8	MATTOON		BLACK SHALE	1.0	103.0
567.8	MATTOON		COAL	1.0	104.0
566.8	MATTOON		SHALE	6.5	105.0
560.3	BOND	MILLERSVILLE	LIMESTONE	43.0	111.5
517.3	BOND		DARK SHALE	7.5	154.5
509.8	BOND		CALCAREOUS SHALE	11.0	162.0
498.8	BOND		DARK SHALE & COAL	61.0	173.0
437.8	BOND		SHALE	14.0	234.0
423.8	BOND		DARK SHALE	38.0	248.0
385.8	BOND		SHALE	13.0	286.0
372.8	BOND		LIMESTONE	2.0	299.0
370.8	BOND		DARK SHALE	4.0	301.0
366.8	BOND		SHALE	65.0	305.0
301.8	BOND		DARK SHALE	17.0	370.0
284.8	BOND	CARTHAGE	LIMESTONE	9.0	387.0
275.8	MODESTO		DARK SHALE	2.0	396.0
273.8	MODESTO		BLACK SHALE	5.0	398.0
268.8	MODESTO		DARK SHALE	2.0	403.0
266.8	MODESTO		SHALE	22.0	405.0
244.8	MODESTO		DARK SHALE	16.0	427.0
228.8	MODESTO		SHALE	13.0	443.0
215.8	MODESTO		DARK SHALE	69.0	456.0
146.8	MODESTO		UNDERCLAY	4.0	525.0
142.8	MODESTO		DARK SHALE & BLACK SHALE	101.0	529.0
41.8	MODESTO		SHALE	16.5	630.0
25.3	MODESTO	PIASA	LIMESTONE	2.5	646.5
22.8	MODESTO		SHALE	5.0	649.0
17.8	MODESTO		DARK SHALE & BLACK SHALE	7.5	654.0
10.3	MODESTO		SHALE	7.5	661.5
2.8	CARBONDALE	DANVILLE	COAL	2.5	669.0
0.3	CARBONDALE		SHALE	7.5	671.5
-7.2	CARBONDALE		BLACK SHALE	3.5	679.0
-10.7	CARBONDALE		SHALE	1.0	682.5
-11.7	CARBONDALE		LIMESTONE	1.0	683.5
-12.7	CARBONDALE		SHALE	8.0	684.5
-20.7	CARBONDALE		BLACK SHALE	2.5	692.5

-23.2	CARBONDALE	BRERETON	LIMESTONE	3.2	695.0
-26.4	CARBONDALE	ANNA	BLACK SHALE	0.3	698.2
-26.7	CARBONDALE	HERRIN	COAL	7.0	698.5
-33.7	CARBONDALE		UNDERCLAY	1.5	705.5
-35.2	CARBONDALE		UNCLASSIFIED	0.0	707.0

MAPID: 17300103000C **VERSION:** 4 **PROJECT:** DOE
COUNTY: SHELBY **TWP/RNG:** 10N 1E **SECTION:** 29 **QUARTERS/FOOTAGES:** 2475' S line, 2720' E line
QUADRANGLE: OCONEE **LONGITUDE:** -89.109748 **GEOLOGIST:** E PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.282623 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 668.5 **LOGGED (FT.):** **LOG TYPE:**
SOURCE: DERING COAL CO. A3 **WELL TYPE:** Coal Test
COMMENT: 1908 MAP,DERING CC; ISGS COAL SEC 9-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			UNKNOWN	-	
-30.0	CARBONDALE	HERRIN	COAL	7.0	698.5

MAPID: 17301119000C **VERSION:** 1 **PROJECT:** ROOF STUDY
COUNTY: SHELBY **TWP/RNG:** 10N 1E **SECTION:** 31 **QUARTERS/FOOTAGES:** 2540' N line, 200' W line
QUADRANGLE: OHLMAN **LONGITUDE:** -89.138942 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 39.268851 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 669.0 **LOGGED (FT.):** 714.3 **LOG TYPE:** Survey Core Study
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
14.0	MODESTO	PIASA	LIMESTONE/UNDERCLAY	3.5	655.0
10.5	MODESTO		CLAYSTONE & SHALE	13.8	658.5
-3.3	CARBONDALE	DANVILLE	COAL	3.7	672.3
-6.9	CARBONDALE		CLAYSTONE	1.8	675.9
-8.7	CARBONDALE	GALUM	LIMESTONE/UNDERCLAY	1.4	677.7
-10.1	CARBONDALE		GRAY SHALE	5.3	679.1
-15.3	CARBONDALE	BANKSTON FORK	LIMESTONE/UNDERCLAY	11.8	684.3
-27.1	CARBONDALE	LAWSON	SHALE	2.0	696.1
-29.1	CARBONDALE	BRERETON	LIMESTONE/UNDERCLAY	4.4	698.1
-33.5	CARBONDALE	ANNA	BLACK SHALE	1.8	702.5
-38.0	CARBONDALE	HERRIN	COAL	7.3	707.0

MAPID: 17301119000C VERSION: 2

PROJECT: ISGS88

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 31 QUARTERS/FOOTAGES: 2540' N line, 200' W line
 QUADRANGLE: OHLMAN LONGITUDE: -89.138942 GEOLOGIST: SROKA
 CONFIDENTIAL: N LATITUDE: 39.268851 DATE COLLECTED: 9 / 27 / 1957
 SURFACE ELEVATION (FT.): 669.0 LOGGED (FT.): 726.0 LOG TYPE: Multiple log types
 SOURCE: D.C. DONAN JR. WELL TYPE: Coal Test
 COMMENT: DRILLERS LOG AND CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.0			UNCONSOLIDATED	102.0	0.0	
567.0	MATTOON		SANDSTONE	2.0	102.0	GRAY
565.0	MATTOON		SHALE	5.0	104.0	
560.0	BOND	MILLERSVILLE	LIMESTONE W/ SHALE	42.0	109.0	
518.0	BOND		SILTY SHALE	83.0	151.0	
435.0	BOND		SHALE/COAL	1.0	234.0	BLACK SHALE
434.0	BOND		SHALE	75.0	235.0	
359.0	BOND		DARK SHALE & SANDSTONE	86.0	310.0	
273.0	BOND	CARTHAGE	LIMESTONE	16.0	396.0	
257.0	MODESTO		SHALE	83.0	412.0	WITH LS NODULES
174.0	MODESTO		ROCK	3.0	495.0	
171.0	MODESTO		SHALE	156.3	498.0	
14.7	MODESTO		SILTY LIMESTONE	4.2	654.3	
10.5	MODESTO		CLAYSTONE & SILTSTONE	3.0	658.5	
7.5	MODESTO		SHALE	1.2	661.5	
6.3	MODESTO		SHALE	2.0	662.7	CALCAREOUS CONCRETIONS
4.3	MODESTO		SHALE	9.3	664.7	CALCAREOUS CONCRETIONS
-5.0	MODESTO		SHALE	0.7	674.0	PYRITIZED FOSSILS
-5.7	MODESTO		BLACK SHALE	0.2	674.7	
-5.8	CARBONDALE	DANVILLE	COAL	3.7	674.8	BONY AND PYRITIC
-9.5	CARBONDALE		UNDERCLAY	1.6	678.5	STIGMARIAN, SLIP FRACTURED
-11.1	CARBONDALE		CLAYSTONE	0.2	680.1	
-11.3	CARBONDALE		FOSSILIFEROUS LIMESTONE	1.4	680.3	
-12.7	CARBONDALE		SILTY SHALE	5.3	681.7	CALCAREOUS, FOSSILIF, CARBON.
-17.9	CARBONDALE		LIMESTONE W/ SHALE	12.1	686.9	
-30.0	CARBONDALE		BLACK SHALE	0.3	699.0	1/2 INCH COALY MATERIAL AT BASE
-30.3	CARBONDALE		SILTY CLAYSTONE	1.7	699.3	CARBONACEOUS, PYRITIC
-32.0	CARBONDALE	BRERETON	SILTY LIMESTONE	4.4	701.0	
-36.4	CARBONDALE	ANNA	BLACK SHALE	1.9	705.4	
-38.3	CARBONDALE	HERRIN	COAL	7.3	707.3	
-45.7	CARBONDALE		UNDERCLAY	2.4	714.7	STIGMARIAN, PYRITIC
-48.1	CARBONDALE		SANDSTONE/SHALE	1.8	717.1	SILTY SHALE
-49.9	CARBONDALE		SHALE & SILTSTONE	1.1	718.9	SILTY SHALE
-51.0	CARBONDALE		SHALE	1.5	720.0	WITH LS NODULES IN BOTTOM 1 FOOT
-52.5	CARBONDALE		SILTY CLAYSTONE	4.5	721.5	WITH LS NODULES, CALC., SLIP FRACTS

MAPID: 17301119000C VERSION: 3

PROJECT: CONF

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 31 QUARTERS/FOOTAGES: 2540' N line, 200' W line

QUADRANGLE: OHLMAN LONGITUDE: -89.138942

GEOLOGIST:

CONFIDENTIAL: N LATITUDE: 39.268851

DATE COLLECTED: 9 / 27 / 1957

SURFACE ELEVATION (FT.): 669.0 LOGGED (FT.): 726.0

LOG TYPE: Survey Core Study

SOURCE: D.C. DONAN JR. 22BB

WELL TYPE: Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-5.8	SHELBURN	DANVILLE	COAL	3.7	674.8
-38.3	CARBONDALE	HERRIN	COAL	7.3	707.3

MAPID: 17301119000C VERSION: 4

PROJECT: NCRDS99

COUNTY: SHELBY TWP/RNG: 10N 1E SECTION: 31 QUARTERS/FOOTAGES: 2540' N line, 200' W line

QUADRANGLE: OHLMAN LONGITUDE: -89.138942 GEOLOGIST: MCCracken

CONFIDENTIAL: N LATITUDE: 39.268851 DATE COLLECTED: 9 / 27 / 1957

SURFACE ELEVATION (FT.): 669.0 LOGGED (FT.): 726.0 LOG TYPE: Drillers Log

SOURCE: DONAN 22-BB WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.0	CARBONDALE		UNCONSOLIDATED	102.0	0.0	
567.0			SANDSTONE	2.0	102.0	
565.0			SHALE	5.0	104.0	
560.0	BOND	MILLERSVILLE	LIMESTONE	42.0	109.0	SHALE BANDS
518.0	BOND		SILTY SHALE	83.0	151.0	
435.0	BOND		COAL	1.0	234.0	"SLATE AND COAL"
434.0	BOND		SHALE	161.0	235.0	
273.0	BOND	CARTHAGE	LIMESTONE	16.0	396.0	
257.0	MODESTO		SHALE	83.0	412.0	
174.0	MODESTO		ROCK	3.0	495.0	
171.0	MODESTO		SHALE	156.3	498.0	
14.7	MODESTO	PIASA	LIMESTONE	4.2	654.3	START OF CORE STUDY
10.5	MODESTO		CLAYSTONE & SILTSTONE	3.0	658.5	
7.5	MODESTO		SHALE	1.2	661.5	
6.3	MODESTO		BLACK SHALE	2.0	662.7	
4.3	MODESTO		SHALE	10.0	664.7	
-5.7	MODESTO		BLACK SHALE	0.2	674.7	
-5.8	CARBONDALE	DANVILLE	COAL	3.7	674.8	
-9.5	CARBONDALE		UNDERCLAY	1.6	678.5	
-11.1	CARBONDALE		CLAYSTONE & SILTSTONE	0.2	680.1	
-11.3	CARBONDALE		LIMESTONE	1.4	680.3	
-12.7	CARBONDALE		SHALE	5.3	681.7	
-17.9	CARBONDALE		LIMESTONE	13.0	686.9	
-30.9	CARBONDALE		BLACK SHALE	0.3	699.9	DEPTHS VARY FROM CORE MARKER
-31.3	CARBONDALE		CLAYSTONE & SILTSTONE	0.4	700.3	DEPTHS VARY FROM COAL MARKER
-31.7	CARBONDALE	BRERETON	LIMESTONE	4.8	700.7	
-36.4	CARBONDALE	ANNA	BLACK SHALE	1.9	705.4	
-38.3	CARBONDALE	HERRIN	COAL	7.3	707.3	
-45.7	CARBONDALE		UNDERCLAY	2.4	714.7	
-48.1	CARBONDALE		SANDSTONE	1.8	717.1	
-49.9	CARBONDALE		SHALE	2.6	718.9	
-52.5	CARBONDALE		CLAYSTONE & SILTSTONE	4.5	721.5	

MAPID: 17323593000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 10N 1E **SECTION:** 34 **QUARTERS/FOOTAGES:** NW NW NW SW
QUADRANGLE: OCONEE **LONGITUDE:** -89.08081 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.26751 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 753.3 **LOG TYPE:** Company map
SOURCE: CARTER OIL WF-135 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	7.3	746.0	

MAPID: 17300297000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 1E **SECTION:** 36 **QUARTERS/FOOTAGES:** SW NE SE
QUADRANGLE: OCONEE **LONGITUDE:** -89.028979 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.263679 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 655.0 **LOGGED (FT.):** 837.0 **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	
179.0	BOND	CARTHAGE	LIMESTONE	14.0	476.0	
-90.0	MODESTO	PIASA	LIMESTONE	8.0	745.0	
-122.0	CARBONDALE	DANVILLE	COAL	3.0	777.0	
-155.0	CARBONDALE	HERRIN	COAL	7.0	810.0	
-177.0	CARBONDALE	SPRINGFIELD	COAL	5.0	832.0	

MAPID: 17323594000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 10N 2E **SECTION:** 2 **QUARTERS/FOOTAGES:** NW SW SW
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.953323 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.335185 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 819.3 **LOG TYPE:** Company map
SOURCE: CARTER OIL 4A-454 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	8.3	811.0	

MAPID: 17323595000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 10N 2E **SECTION:** 8 **QUARTERS/FOOTAGES:** NE SW SW NE
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.999208 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.325717 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 727.1 **LOG TYPE:** Company map
SOURCE: CARTER OIL 4A-455 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	8.1	719.0	

MAPID: 17300304000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 2E **SECTION:** 12 **QUARTERS/FOOTAGES:** NE NE SE
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.91846 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.324822 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 621.0 **LOGGED (FT.):** 870.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
155.0	BOND	CARTHAGE	LIMESTONE	14.0	466.0	
-129.0	CARBONDALE	DANVILLE	COAL	2.5	750.0	
-155.0	CARBONDALE	HERRIN	COAL	8.0	776.0	
-179.0	CARBONDALE	SPRINGFIELD	COAL	4.0	800.0	
-249.0	CARBONDALE	HOUCHIN CREEK	COAL	-	870.0	

MAPID: 17300305000C VERSION: 1

PROJECT: ROOF STUDY

COUNTY: SHELBY TWP/RNG: 10N 2E SECTION: 12 QUARTERS/FOOTAGES: 990' S line, 330' E line

QUADRANGLE: LAKEWOOD LONGITUDE: -88.91844 GEOLOGIST:

CONFIDENTIAL: N LATITUDE: 39.321159 DATE COLLECTED:

SURFACE ELEVATION (FT.): 642.0 LOGGED (FT.): 810.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-84.0	MODESTO	PIASA	LIMESTONE	4.0	726.0
-88.0	MODESTO		SHALE	40.5	730.0
-128.5	CARBONDALE	DANVILLE	COAL	3.0	770.5
-131.5	CARBONDALE		SHALE	1.3	773.5
-132.8	CARBONDALE	GALUM	LIMESTONE	1.3	774.8
-134.0	CARBONDALE		SHALE	12.0	776.0
-146.0	CARBONDALE	BANKSTON FORK	LIMESTONE W/ SHALE	7.5	788.0
-153.5	CARBONDALE	LAWSON	SHALE	2.0	795.5
-155.5	CARBONDALE	BRERETON	LIMESTONE	1.0	797.5
-156.5	CARBONDALE	ANNA	SHALE	2.5	798.5
-159.0	CARBONDALE	HERRIN	COAL	9.0	801.0

MAPID: 17322049000C VERSION: 1

PROJECT: CONF

COUNTY: SHELBY TWP/RNG: 10N 2E SECTION: 12 QUARTERS/FOOTAGES: 50' N line, 100' E line of NE NE NE

QUADRANGLE: LAKEWOOD LONGITUDE: -88.917736 GEOLOGIST: LOG BOOK

CONFIDENTIAL: N LATITUDE: 39.332923 DATE COLLECTED: 12 / 19 / 1968

SURFACE ELEVATION (FT.): 617.0 LOGGED (FT.): 799.3 LOG TYPE: Survey Core Study

SOURCE: HUMBLE OIL CO. WF-177 WELL TYPE: Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-169.9	CARBONDALE	HERRIN	COAL	8.2	786.9

MAPID: 17322049000C VERSION: 2

PROJECT: ISGS88

COUNTY: SHELBY TWP/RNG: 10N 2E SECTION: 12 QUARTERS/FOOTAGES: 50' N line, 100' E line of NE NE NE
 QUADRANGLE: LAKEWOOD LONGITUDE: -88.917736 GEOLOGIST: SROKA
 CONFIDENTIAL: N LATITUDE: 39.332923 DATE COLLECTED: 12 / 3 / 1968
 SURFACE ELEVATION (FT.): 617.0 LOGGED (FT.): 799.3 LOG TYPE: Survey Core Study
 SOURCE: HUMBLE OIL CO. WELL TYPE: Coal Test
 COMMENT: CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
617.0			UNCLASSIFIED	784.7	0.0	
-167.7	CARBONDALE	ANNA	BLACK SHALE	2.3	784.7	ORBICULOIDEA
-169.9	CARBONDALE	HERRIN	COAL	8.2	786.9	
-178.1	CARBONDALE	HERRIN	SHALE	0.3	795.1	
-178.3	CARBONDALE	HERRIN	COAL	0.2	795.3	
-178.5	CARBONDALE		CLAYSTONE & SILTSTONE	1.6	795.5	ROOTLETS, SILTY, PYRITIC NODULES
-180.2	CARBONDALE		SHALE & SILTSTONE	2.2	797.2	PYRITE NODULES

MAPID: 17322049000C VERSION: 3

PROJECT: EIA-DOE

COUNTY: SHELBY TWP/RNG: 10N 2E SECTION: 12 QUARTERS/FOOTAGES: 50' N line, 100' E line of NE NE NE
 QUADRANGLE: LAKEWOOD LONGITUDE: -88.917736 GEOLOGIST: E. PRUSSEN
 CONFIDENTIAL: N LATITUDE: 39.332923 DATE COLLECTED: 9 / 20 / 1968
 SURFACE ELEVATION (FT.): 617.0 LOGGED (FT.): 799.2 LOG TYPE: Other Core Study
 SOURCE: HUMBLE OIL CO. WF-177 WELL TYPE: Coal Test
 COMMENT: CORE REPORT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-128.0	MODESTO		GRAY SHALE	8.2	745.0	
-136.2	CARBONDALE	DANVILLE	COAL	3.6	753.2	
-139.8	CARBONDALE		CLAYSTONE	2.1	756.8	
-141.9	CARBONDALE		SILTSTONE	3.1	758.9	CORE LOSS 760.8- 761
-145.0	CARBONDALE		CLAYSTONE	2.3	762.0	
-147.3	CARBONDALE		GRAY SHALE	7.0	764.3	
-154.3	CARBONDALE		LIMESTONE	8.2	771.3	
-162.5	CARBONDALE		SHALE	1.5	779.5	CORE LOSS 780.1- 781
-164.0	CARBONDALE		LIMESTONE	2.3	781.0	
-166.3	CARBONDALE		SHALE	3.3	783.3	
-169.6	CARBONDALE		LIMESTONE	0.3	786.6	
-169.9	CARBONDALE	HERRIN	COAL	6.4	786.9	
-176.3	CARBONDALE	HERRIN	BONE COAL	0.0	793.3	
-176.4	CARBONDALE	HERRIN	COAL	0.2	793.4	
-176.6	CARBONDALE	HERRIN	SHALE	0.1	793.6	BLUE BAND
-176.7	CARBONDALE	HERRIN	COAL	1.4	793.7	
-178.1	CARBONDALE		CLAYSTONE & SHALE	0.9	795.1	DK GY, CARBONACEOUS
-179.0	CARBONDALE		SILTSTONE	2.6	796.0	
-181.6	CARBONDALE		CLAYSTONE	0.6	798.6	

MAPID: 17300107000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 2E SECTION: 13 QUARTERS/FOOTAGES: NE NE NE
 QUADRANGLE: LAKEWOOD LONGITUDE: -88.918392 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.31752 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 586.0 LOGGED (FT.): 973.0 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
145.0	BOND	CARTHAGE	LIMESTONE	14.0	441.0
-70.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	656.0
-87.0	MODESTO	PIASA	LIMESTONE	5.0	673.0
-140.0	CARBONDALE	DANVILLE	COAL	2.5	726.0
-172.0	CARBONDALE	HERRIN	COAL	6.0	758.0
-194.0	CARBONDALE	SPRINGFIELD	COAL	4.0	780.0

MAPID: 17300107000C VERSION: 2

PROJECT: ROOF STUDY

COUNTY: SHELBY TWP/RNG: 10N 2E SECTION: 13 QUARTERS/FOOTAGES: NE NE NE
 QUADRANGLE: LAKEWOOD LONGITUDE: -88.918392 GEOLOGIST:
 CONFIDENTIAL: N LATITUDE: 39.31752 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 586.0 LOGGED (FT.): 765.5 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-94.0	MODESTO	PIASA	LIMESTONE	5.0	680.0
-99.0	MODESTO		SHALE	44.0	685.0
-143.0	CARBONDALE	DANVILLE	COAL	3.0	729.0
-146.0	CARBONDALE		SHALE	6.0	732.0
-152.0	CARBONDALE		SHALE	7.0	738.0
-159.0	CARBONDALE	BANKSTON FORK	LIMESTONE	2.0	745.0
-161.0	CARBONDALE	BANKSTON FORK	SHALE	2.0	747.0
-163.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	749.0
-167.0	CARBONDALE	LAWSON	SHALE	2.0	753.0
-169.0	CARBONDALE	BRERETON	LIMESTONE	3.0	755.0
-172.0	CARBONDALE	ANNA	SHALE	2.5	758.0
-172.0	CARBONDALE	HERRIN	COAL	7.5	758.0

MAPID: 17301111000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 2E SECTION: 13 QUARTERS/FOOTAGES: SE NE NW
 QUADRANGLE: LAKEWOOD LONGITUDE: -88.927667 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.315424 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 626.0 LOGGED (FT.): 992.0 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
171.0	BOND	CARTHAGE	LIMESTONE	10.0	455.0
-64.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	690.0
-85.0	MODESTO	PIASA	LIMESTONE	9.0	711.0
-134.0	CARBONDALE	DANVILLE	COAL	2.5	760.0
-164.0	CARBONDALE	HERRIN	COAL	7.0	790.0
-188.0	CARBONDALE	SPRINGFIELD	COAL	3.0	814.0
-244.0	CARBONDALE	HOUCHIN CREEK	COAL	-	870.0

MAPID: 17300308000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 2E SECTION: 14 QUARTERS/FOOTAGES: SE SE NW
 QUADRANGLE: LAKEWOOD LONGITUDE: -88.946257 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.311414 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 606.0 LOGGED (FT.): 987.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG, SS BLO#5

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
128.0	BOND	CARTHAGE	LIMESTONE	15.0	478.0
-115.0	MODESTO	PIASA	LIMESTONE	6.0	721.0
-158.0	CARBONDALE	DANVILLE	COAL	2.5	764.0
-186.0	CARBONDALE	HERRIN	COAL	8.0	792.0
-210.0	CARBONDALE	SPRINGFIELD	COAL	3.5	816.0

MAPID: 17323596000C VERSION: 1

PROJECT: EIA-DOE

COUNTY: SHELBY TWP/RNG: 10N 2E SECTION: 14 QUARTERS/FOOTAGES: NW NE NE
 QUADRANGLE: LAKEWOOD LONGITUDE: -88.939319 GEOLOGIST: E. PRUSSEN
 CONFIDENTIAL: N LATITUDE: 39.31694 DATE COLLECTED:
 SURFACE ELEVATION (FT.): LOGGED (FT.): 809.2 LOG TYPE: Company map
 SOURCE: CARTER OIL 4C-690 WELL TYPE: Coal Test
 COMMENT: LOCATION, DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	8.2	801.0

MAPID: 17301112000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 2E SECTION: 15 QUARTERS/FOOTAGES: SE NE NW
 QUADRANGLE: LAKEWOOD LONGITUDE: -88.964983 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.314896 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 647.0 LOGGED (FT.): 1020.0 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	
132.0	BOND	CARTHAGE	LIMESTONE	13.0	515.0	
-119.0	MODESTO	PIASA	LIMESTONE	6.0	766.0	
-154.0	CARBONDALE	DANVILLE	COAL	2.5	801.0	
-186.0	CARBONDALE	HERRIN	COAL	7.5	833.0	
-213.0	CARBONDALE	SPRINGFIELD	COAL	3.0	860.0	

MAPID: 17300128000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 2E SECTION: 16 QUARTERS/FOOTAGES: SW NE NW
 QUADRANGLE: LAKEWOOD LONGITUDE: -88.985923 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.314775 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 634.0 LOGGED (FT.): 888.0 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	
164.0	BOND	CARTHAGE	LIMESTONE	10.0	470.0	
-108.0	MODESTO	PIASA	LIMESTONE	8.0	742.0	
-142.0	CARBONDALE	DANVILLE	COAL	3.0	776.0	
-172.0	CARBONDALE	HERRIN	COAL	7.5	806.0	
-194.0	CARBONDALE	SPRINGFIELD	COAL	3.0	828.0	
-254.0	CARBONDALE	HOUCHIN CREEK	COAL	-	888.0	

MAPID: 17300128000C VERSION: 2

PROJECT: ROOF STUDY

COUNTY: SHELBY TWP/RNG: 10N 2E SECTION: 16 QUARTERS/FOOTAGES: SW NE NW

QUADRANGLE: LAKEWOOD LONGITUDE: -88.985923

GEOLOGIST:

CONFIDENTIAL: N LATITUDE: 39.314775

DATE COLLECTED:

SURFACE ELEVATION (FT.): 634.0

LOGGED (FT.): 812.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-109.0	MODESTO	PIASA	LIMESTONE	3.0	743.0	
-112.0	MODESTO		SHALE	30.5	746.0	
-142.5	CARBONDALE	DANVILLE	COAL	3.0	776.5	
-145.5	CARBONDALE		SHALE	4.0	779.5	
-149.5	CARBONDALE		SHALE	6.0	783.5	
-155.5	CARBONDALE	BANKSTON FORK	LIMESTONE	1.5	789.5	
-157.0	CARBONDALE	BANKSTON FORK	SHALE	2.0	791.0	
-159.0	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	793.0	
-162.0	CARBONDALE	LAWSON	SHALE	6.5	796.0	
-168.5	CARBONDALE	BRERETON	LIMESTONE	0.5	802.5	
-169.0	CARBONDALE	ANNA	SHALE	3.0	803.0	
-172.0	CARBONDALE	HERRIN	COAL	6.0	806.0	

MAPID: 17323597000C VERSION: 1

PROJECT: EIA-DOE

COUNTY: SHELBY TWP/RNG: 10N 2E SECTION: 16 QUARTERS/FOOTAGES: SE NE NE NW

QUADRANGLE: LAKEWOOD LONGITUDE: -88.983024

GEOLOGIST: E. PRUSSEN

CONFIDENTIAL: N LATITUDE: 39.316151

DATE COLLECTED:

SURFACE ELEVATION (FT.):

LOGGED (FT.): 822.5

LOG TYPE: Company map

SOURCE: CARTER OIL W-24

WELL TYPE: Coal Test

COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	8.0	797.0	GREATER TNA 8' THICK
-	CARBONDALE	SPRINGFIELD	COAL	3.5	819.0	

MAPID: 17301074000C VERSION: 1

PROJECT: CONF

COUNTY: SHELBY TWP/RNG: 10N 2E SECTION: 18 QUARTERS/FOOTAGES: 2563' S line, 20' W line
 QUADRANGLE: OCONEE LONGITUDE: -89.025293 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 39.309804 DATE COLLECTED: 1 / 11 / 1957
 SURFACE ELEVATION (FT.): 638.5 LOGGED (FT.): 791.0 LOG TYPE: Survey Core Study
 SOURCE: PEABODY COAL CO. SC8 WELL TYPE: Coal Test
 COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
462.0			LIMESTONE	45.5	176.5
193.5			LIMESTONE	11.0	445.0
-93.0	SHELBURN	DANVILLE	COAL	4.2	731.5
-113.6			COAL	3.0	752.1
-143.8	CARBONDALE	HERRIN	COAL	8.1	782.3

MAPID: 17301074000C VERSION: 2

PROJECT: ROOF STUDY

COUNTY: SHELBY TWP/RNG: 10N 2E SECTION: 18 QUARTERS/FOOTAGES: 2563' S line, 20' W line
 QUADRANGLE: OCONEE LONGITUDE: -89.025293 GEOLOGIST:
 CONFIDENTIAL: N LATITUDE: 39.309804 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 638.0 LOGGED (FT.): 790.1 LOG TYPE: Survey Core Study
 SOURCE: PEABODY COAL CO. SC8 WELL TYPE: Coal Test
 COMMENT: FAIR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-99.0	MODESTO	PIASA	LIMESTONE	2.5	737.0
-101.5	MODESTO		SHALE	12.9	739.5
-114.4	CARBONDALE	DANVILLE	COAL	3.0	752.4
-117.4	CARBONDALE		DARK GRAY SHALE	3.5	755.4
-120.9	CARBONDALE		BLACK SHALE	4.3	758.9
-125.1	CARBONDALE	BANKSTON FORK	LIMESTONE W/ SHALE	8.3	763.1
-133.4	CARBONDALE	LAWSON	MOTTLED SHALE	1.4	771.4
-134.8	CARBONDALE	BRERETON	LIMESTONE/UNDERCLAY	1.8	772.8
-136.6	CARBONDALE	ANNA	BLACK SHALE	6.8	774.6
-144.0	CARBONDALE	HERRIN	COAL	8.1	782.0

MAPID: 17323598000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 10N 2E **SECTION:** 19 **QUARTERS/FOOTAGES:** SW SW SW NW
QUADRANGLE: OCONEE **LONGITUDE:** -89.024963 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.295868 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 735.1 **LOG TYPE:** Company map
SOURCE: CARTER OIL 4B-456 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	8.1	727.0

MAPID: 17323599000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 10N 2E **SECTION:** 21 **QUARTERS/FOOTAGES:** SW SW NE SW
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.986539 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.292577 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 775.9 **LOG TYPE:** Company map
SOURCE: CARTER OIL 4C-693 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	6.9	769.0

MAPID: 17300314000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 2E **SECTION:** 23 **QUARTERS/FOOTAGES:** SW NW SW
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.953288 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.293153 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 639.0 **LOGGED (FT.):** 837.0 **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
134.0	BOND	CARTHAGE	LIMESTONE	12.0	505.0
-98.0	MODESTO	PIASA	LIMESTONE	11.0	737.0
-144.0	CARBONDALE	DANVILLE	COAL	-	783.0
-172.0	CARBONDALE	HERRIN	COAL	8.0	811.0
-193.0	CARBONDALE	SPRINGFIELD	COAL	5.0	832.0

MAPID: 17301089000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 2E SECTION: 24 QUARTERS/FOOTAGES: NE SE NW
 QUADRANGLE: LAKEWOOD LONGITUDE: -88.927486 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.2991 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 621.0 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.)	
				UNIT	OVERBURDEN COMMENT
116.0	BOND	CARTHAGE	LIMESTONE	10.0	505.0
-126.0	MODESTO	PIASA	LIMESTONE	5.0	747.0
-167.0	CARBONDALE	DANVILLE	COAL	3.0	788.0
-194.0	CARBONDALE	HERRIN	COAL	7.0	815.0
-216.0	CARBONDALE	SPRINGFIELD	COAL	6.0	837.0
-285.0	CARBONDALE	HOUCHIN CREEK	COAL	-	906.0

MAPID: 17301089000C VERSION: 2

PROJECT: ROOF STUDY

COUNTY: SHELBY TWP/RNG: 10N 2E SECTION: 24 QUARTERS/FOOTAGES: NE SE NW
 QUADRANGLE: LAKEWOOD LONGITUDE: -88.927486 GEOLOGIST:
 CONFIDENTIAL: N LATITUDE: 39.2991 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 621.0 LOGGED (FT.): 822.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-117.0	MODESTO	PIASA	LIMESTONE	4.0	738.0
-121.0	MODESTO		SHALE	46.0	742.0
-167.0	CARBONDALE	DANVILLE	COAL	3.0	788.0
-170.0	CARBONDALE		SHALE	8.0	791.0
-178.0	CARBONDALE	GALUM	LIMESTONE	1.0	799.0
-179.0	CARBONDALE		SHALE	8.0	800.0
-187.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	808.0
-191.0	CARBONDALE	BRERETON	LIMESTONE	1.0	812.0
-192.0	CARBONDALE	ANNA	SHALE	2.0	813.0
-195.0	CARBONDALE	HERRIN	COAL	6.0	816.0

MAPID: 1732360000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 10N 2E **SECTION:** 25 **QUARTERS/FOOTAGES:** SW NW NW
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.93455 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.286195 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 0.0 **LOG TYPE:** Company map
SOURCE: CARTER OIL WF-197 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	7.6	

MAPID: 17301070000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 2E **SECTION:** 30 **QUARTERS/FOOTAGES:** 179' N line, 23' W line
QUADRANGLE: OCONEE **LONGITUDE:** -89.025367 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.287604 **DATE COLLECTED:** 10 / 15 / 1956
SURFACE ELEVATION (FT.): 640.7 **LOGGED (FT.):** 806.0 **LOG TYPE:** Survey Core Study
SOURCE: PEABODY COAL CO. SC6 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-124.7	SHELBURN	DANVILLE	COAL	4.0	765.4
-157.3	CARBONDALE	HERRIN	COAL	7.5	798.0

MAPID: 17301070000C **VERSION:** 2 **PROJECT:** ROOF STUDY
COUNTY: SHELBY **TWP/RNG:** 10N 2E **SECTION:** 30 **QUARTERS/FOOTAGES:** 179' N line, 23' W line
QUADRANGLE: OCONEE **LONGITUDE:** -89.025367 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 39.287604 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 641.0 **LOGGED (FT.):** 805.5 **LOG TYPE:** Survey Core Study
SOURCE: PEABODY COAL CO. SC6 **WELL TYPE:** Coal Test
COMMENT: GOOD DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-122.0	MODESTO	PIASA	CALCAREOUS SHALE	11.0	763.0
-133.0	MODESTO		DARK GRAY SHALE	1.9	774.0
-134.9	CARBONDALE	DANVILLE	COAL	3.9	775.9
-138.8	CARBONDALE		SHALE	0.7	779.8
-139.5	CARBONDALE	GALUM	CALCAREOUS SHALE	3.3	780.5
-142.8	CARBONDALE		BLACK SHALE	6.8	783.8
-149.7	CARBONDALE	BANKSTON FORK	LIMESTONE W/ SHALE	7.8	790.7
-157.5	CARBONDALE	BRERETON	LIMESTONE/UNDERCLAY	0.8	798.5
-158.3	CARBONDALE	ANNA	BLACK SHALE	1.1	799.3
-157.0	CARBONDALE	HERRIN	COAL	7.5	798.0

MAPID: 17323601000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 10N 2E **SECTION:** 36 **QUARTERS/FOOTAGES:** SE NE NE
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.918258 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.271951 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 881.8 **LOG TYPE:** Company map
SOURCE: CARTER OIL WF-179 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	8.4	847.0
-	CARBONDALE	SPRINGFIELD	COAL	3.8	878.0

MAPID: 17301404000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 3 **QUARTERS/FOOTAGES:** 45' N line, 606' W line of NE NW
QUADRANGLE: FANCHER **LONGITUDE:** -88.855071 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.347573 **DATE COLLECTED:** 7 / 2 / 1958
SURFACE ELEVATION (FT.): 607.0 **LOGGED (FT.):** 73.5 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. C25 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
537.0	MATTOON	SHELBYVILLE	COAL	1.4	70.0

MAPID: 17300050000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 5 **QUARTERS/FOOTAGES:** SW SE NW
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.892913 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.341272 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 634.0 **LOGGED (FT.):** 1035.0 **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
159.0	BOND	CARTHAGE	LIMESTONE	12.0	475.0
-79.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	713.0
-94.0	MODESTO	PIASA	LIMESTONE	11.0	728.0
-146.0	CARBONDALE	DANVILLE	COAL	4.0	780.0
-181.0	CARBONDALE	HERRIN	COAL	8.0	815.0
-206.0	CARBONDALE	SPRINGFIELD	COAL	2.5	840.0
-271.0	CARBONDALE	HOUCHIN CREEK	COAL	-	905.0

MAPID: 17300329000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 3E SECTION: 5 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: LAKEWOOD LONGITUDE: -88.881626 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.333867 DATE COLLECTED:

SURFACE ELEVATION (FT.): 610.0 LOGGED (FT.): 867.0 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
160.0	BOND	CARTHAGE	LIMESTONE	10.0	450.0
-58.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	668.0
-140.0	CARBONDALE	DANVILLE	COAL	-	750.0
-172.0	CARBONDALE	HERRIN	COAL	4.0	782.0
-196.0	CARBONDALE	SPRINGFIELD	COAL	4.0	806.0
-257.0	CARBONDALE	HOUCHIN CREEK	COAL	-	867.0

MAPID: 17300330000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 3E SECTION: 6 QUARTERS/FOOTAGES: SE SE SW

QUADRANGLE: LAKEWOOD LONGITUDE: -88.9092 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.333844 DATE COLLECTED:

SURFACE ELEVATION (FT.): 631.0 LOGGED (FT.): 1008.0 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
179.0	BOND	CARTHAGE	LIMESTONE	19.0	452.0
-75.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	706.0
-131.0	CARBONDALE	DANVILLE	COAL	2.0	762.0
-163.0	CARBONDALE	HERRIN	COAL	8.0	794.0
-183.0	CARBONDALE	SPRINGFIELD	COAL	4.0	814.0
-249.0	CARBONDALE	HOUCHIN CREEK	COAL	-	880.0

MAPID: 17301140000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 7 **QUARTERS/FOOTAGES:** 660' N line, 330' E line of SW
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.909075 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.323773 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 625.0 **LOGGED (FT.):** 983.0 **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
190.0	BOND	CARTHAGE	LIMESTONE	10.0	435.0
-42.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	667.0
-107.0	CARBONDALE	DANVILLE	COAL	-	732.0
-137.0	CARBONDALE	HERRIN	COAL	8.0	762.0
-162.0	CARBONDALE	SPRINGFIELD	COAL	-	787.0
-224.0	CARBONDALE	HOUCHIN CREEK	COAL	-	849.0

MAPID: 17300340000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 8 **QUARTERS/FOOTAGES:** SE SW SE
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.886076 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.319141 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 601.0 **LOGGED (FT.):** 950.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
160.0	BOND	CARTHAGE	LIMESTONE	10.0	441.0
-27.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	628.0
-47.0	MODESTO	PIASA	LIMESTONE	10.0	648.0
-111.0	CARBONDALE	DANVILLE	COAL	2.0	712.0
-144.0	CARBONDALE	HERRIN	COAL	8.0	745.0
-162.0	CARBONDALE	SPRINGFIELD	COAL	3.5	763.0

MAPID: 17323602000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 8 **QUARTERS/FOOTAGES:** NE NE NW NW
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.894705 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.332445 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 797.9 **LOG TYPE:** Company map
SOURCE: CARTER OIL 4D-685 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	7.9	790.0

MAPID: 17301337000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 11 **QUARTERS/FOOTAGES:** SE SW NE
QUADRANGLE: FANCHER **LONGITUDE:** -88.830475 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.326436 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 605.0 **LOGGED (FT.):** 1020.0 **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
-16.0	MODESTO	WEST FRANKLIN	LIMESTONE	32.0	621.0
-173.0	CARBONDALE	DANVILLE	COAL	4.0	778.0
-205.0	CARBONDALE	HERRIN	COAL	4.0	810.0
-225.0	CARBONDALE	SPRINGFIELD	COAL	3.0	830.0
-292.0	CARBONDALE	HOUCHIN CREEK	COAL	-	897.0

MAPID: 17301062000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 14 **QUARTERS/FOOTAGES:** 380' N line, 330' E line of NE
QUADRANGLE: FANCHER **LONGITUDE:** -88.825736 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.317174 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 591.0 **LOGGED (FT.):** 986.0 **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
144.0	BOND	CARTHAGE	LIMESTONE	8.0	447.0
-12.0	MODESTO	WEST FRANKLIN	LIMESTONE	27.0	603.0
-153.0	CARBONDALE	DANVILLE	COAL	3.0	744.0
-191.0	CARBONDALE	HERRIN	COAL	7.0	782.0
-218.0	CARBONDALE	SPRINGFIELD	COAL	6.0	809.0
-269.0	CARBONDALE	HOUCHIN CREEK	COAL	-	860.0

MAPID: 17301399000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 15 **QUARTERS/FOOTAGES:**
QUADRANGLE: FANCHER **LONGITUDE:** -88.852693 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.310966 **DATE COLLECTED:** 6 / 30 / 1958
SURFACE ELEVATION (FT.): 570.0 **LOGGED (FT.):** 91.6 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. C20 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
482.3	MATTOON	SHELBYVILLE	COAL	0.9	87.7

MAPID: 17323603000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 16 **QUARTERS/FOOTAGES:** NE NW NE
QUADRANGLE: FANCHER **LONGITUDE:** -88.867708 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.317296 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 797.5 **LOG TYPE:** Company map
SOURCE: CARTER OIL WF-191 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	8.5	789.0	

MAPID: 17300346000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 18 **QUARTERS/FOOTAGES:** NW NE NW
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.911346 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.317405 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 579.0 **LOGGED (FT.):** 715.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
154.0	BOND	CARTHAGE	LIMESTONE	15.0	425.0	
139.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	440.0	
-133.0	CARBONDALE	DANVILLE	COAL	3.0	712.0	

MAPID: 17301719000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 18 **QUARTERS/FOOTAGES:** 795' S line, 50' W line
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.916899 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.305974 **DATE COLLECTED:** 12 / 3 / 1968
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 775.4 **LOG TYPE:** Survey Core Study
SOURCE: HUMBLE OIL CO. WF-189 **WELL TYPE:** Coal Test
COMMENT: FROM COMPANY LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	8.3	757.6	NO COAL PICKS/2 UPPER BOXES NOT AVAIL.

MAPID: 17301719000C VERSION: 2

PROJECT: ISGS88

COUNTY: SHELBY TWP/RNG: 10N 3E SECTION: 18 QUARTERS/FOOTAGES: 795' S line, 50' W line
QUADRANGLE: LAKEWOOD LONGITUDE: -88.916899 GEOLOGIST: SROKA
CONFIDENTIAL: N LATITUDE: 39.305974 DATE COLLECTED: 12 / 3 / 1968
SURFACE ELEVATION (FT.): LOGGED (FT.): 775.4 LOG TYPE: Survey Core Study
SOURCE: HUMBLE OIL CO. WELL TYPE: Coal Test
COMMENT: CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCLASSIFIED	766.0	0.0	
-	CARBONDALE		CLAYSTONE & SILTSTONE	2.3	766.0	SEATROCK OF HERRIN #6 COAL
-	CARBONDALE		LIMESTONE	0.2	768.3	NODULAR
-	CARBONDALE		CLAYSTONE	0.3	768.4	
-	CARBONDALE		LIMESTONE	0.5	768.7	CONGLOMERATIC
-	CARBONDALE		CLAYSTONE	1.3	769.2	
-	CARBONDALE		LIMESTONE	0.4	770.5	NODULAR, IN GRN GRAY CLAYST MATRIX
-	CARBONDALE		CLAYSTONE	1.1	770.9	PYRITE AND SIDERITE NODULES
-	CARBONDALE		SHALE	3.4	772.0	LS NODULES

MAPID: 17301719000C VERSION: 3

PROJECT: EIA-DOE

COUNTY: SHELBY TWP/RNG: 10N 3E SECTION: 18 QUARTERS/FOOTAGES: 795' S line, 50' W line

QUADRANGLE: LAKEWOOD LONGITUDE: -88.916899 GEOLOGIST: E. PRUSSEN

CONFIDENTIAL: N LATITUDE: 39.305974 DATE COLLECTED: 6 / 13 / 1968

SURFACE ELEVATION (FT.): 565.0 LOGGED (FT.): 790.4 LOG TYPE: Multiple log types

SOURCE: HUMBLE OIL CO. WF-189 WELL TYPE: Coal Test

COMMENT: CORE REPORT, DRILLER'S LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-164.6	CARBONDALE	DANVILLE	COAL	3.0	729.6	DRILLER'S LOG 0-738.3
-167.6	CARBONDALE		SHALE	13.8	732.6	
-181.4	CARBONDALE		LIMESTONE	0.9	746.4	
-182.3	CARBONDALE		SHALE WITH LIMESTONE	1.3	747.3	
-183.6	CARBONDALE		LIMESTONE	0.8	748.6	
-184.4	CARBONDALE		SHALE	1.3	749.4	
-185.7	CARBONDALE	BRERETON	LIMESTONE	1.8	750.7	
-187.5	CARBONDALE		GRAY SHALE	5.1	752.5	
-192.6	CARBONDALE	HERRIN	COAL	4.3	757.6	COAL ANALYZED
-196.8	CARBONDALE	HERRIN	CARBONACEOUS SHALE	0.1	761.8	
-196.9	CARBONDALE	HERRIN	COAL	0.9	761.9	
-197.8	CARBONDALE	HERRIN	CARBONACEOUS SHALE	0.0	762.8	
-197.8	CARBONDALE	HERRIN	COAL	1.7	762.8	
-199.5	CARBONDALE	HERRIN	PYRITE & SHALE	0.1	764.5	BLUE BAND
-199.6	CARBONDALE	HERRIN	COAL	1.3	764.6	
-200.9	CARBONDALE		GRAY SHALE	0.1	765.9	CARB W/ BONY COAL
-201.0	CARBONDALE		UNDERCLAY	1.8	766.0	
-202.8	CARBONDALE		LIMESTONE	0.9	767.8	
-203.7	CARBONDALE		CLAYSTONE	2.4	768.7	
-206.1	CARBONDALE		LIMESTONE	0.4	771.1	
-206.5	CARBONDALE		GRAY SHALE	7.6	771.5	
-214.1	CARBONDALE		LIMESTONE	0.9	779.1	
-215.0	CARBONDALE		DARK GRAY SHALE	1.1	780.0	CARBONACEOUS
-216.1	CARBONDALE	SPRINGFIELD	COAL	4.5	781.1	
-220.6	CARBONDALE		CLAYSTONE	2.4	785.6	
-223.0			LIMESTONE	2.4	788.0	

MAPID: 17301384000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 20 **QUARTERS/FOOTAGES:** NE SE
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.882655 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.294568 **DATE COLLECTED:** 6 / 24 / 1958
SURFACE ELEVATION (FT.): 606.0 **LOGGED (FT.):** 84.8 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. C5 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
524.2	MATTOON	SHELBYVILLE	COAL	2.2	81.8	

MAPID: 17323604000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 20 **QUARTERS/FOOTAGES:** NW SW NE
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.888257 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.299127 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 855.5 **LOG TYPE:** Company map
SOURCE: CARTER OIL WF-132 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	7.9	822.0	
-	CARBONDALE	SPRINGFIELD	COAL	4.5	851.0	

MAPID: 17323605000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: FANCHER **LONGITUDE:** -88.842271 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.302861 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 847.5 **LOG TYPE:** Company map
SOURCE: CARTER OIL WF-200 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	7.3	816.0	
-	CARBONDALE	SPRINGFIELD	COAL	5.5	842.0	

MAPID: 17323606000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:** NE NE NE
QUADRANGLE: FANCHER **LONGITUDE:** -88.825515 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.288171 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 823.1 **LOG TYPE:** Company map
SOURCE: CARTER OIL 4D-681 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	7.1	816.0	

MAPID: 17301400000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:** 11' N line, 607' W line of NE
QUADRANGLE: FANCHER **LONGITUDE:** -88.850342 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.289128 **DATE COLLECTED:** 6 / 30 / 1958
SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 94.1 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. C21 **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: 17323607000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: FANCHER **LONGITUDE:** -88.84429 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.275507 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 844.3 **LOG TYPE:** Company map
SOURCE: CARTER OIL WF-199 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	8.3	836.0	

MAPID: 17323608000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 33 **QUARTERS/FOOTAGES:** NE NW NW
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.876955 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.273651 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 875.3 **LOG TYPE:** Company map
SOURCE: CARTER OIL WF-190 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	8.5	833.0	
-	CARBONDALE	SPRINGFIELD	COAL	5.3	870.0	

MAPID: 17301402000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:** 24' N line, 18' E line of SE
QUADRANGLE: FANCHER **LONGITUDE:** -88.843098 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.267252 **DATE COLLECTED:** 7 / 1 / 1958
SURFACE ELEVATION (FT.): 605.0 **LOGGED (FT.):** 94.1 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. C22 **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: 17323609000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 10N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:** NE SE SE
QUADRANGLE: FANCHER **LONGITUDE:** -88.844149 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.262761 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 849.3 **LOG TYPE:** Company map
SOURCE: CARTER OIL 4D-683 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	8.3	841.0	

MAPID: 17301093000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 4E SECTION: 1 QUARTERS/FOOTAGES: SW SE NE

QUADRANGLE: STEWARDSON WEST LONGITUDE: -88.698046 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.340026 DATE COLLECTED:

SURFACE ELEVATION (FT.): 634.0 LOGGED (FT.): 1063.0 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
103.0	BOND	CARTHAGE	LIMESTONE	11.0	531.0
-52.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	686.0
-184.0	CARBONDALE	DANVILLE	COAL	-	818.0
-247.0	CARBONDALE	HERRIN	COAL	4.0	881.0
-328.0	CARBONDALE	HOUCHIN CREEK	COAL	-	962.0

MAPID: 17300367000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 4E SECTION: 6 QUARTERS/FOOTAGES: NW NW SE

QUADRANGLE: FANCHER LONGITUDE: -88.795708 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.339071 DATE COLLECTED:

SURFACE ELEVATION (FT.): 542.0 LOGGED (FT.): 950.0 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
122.0	BOND	CARTHAGE	LIMESTONE	11.0	420.0
-20.0	MODESTO	WEST FRANKLIN	LIMESTONE	21.0	562.0
-137.0	CARBONDALE	DANVILLE	COAL	-	679.0
-205.0	CARBONDALE	HERRIN	COAL	3.0	747.0
-217.0	CARBONDALE	SPRINGFIELD	COAL	2.0	759.0
-280.0	CARBONDALE	HOUCHIN CREEK	COAL	-	822.0

MAPID: 17300066000C VERSION: 2

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 4E SECTION: 8 QUARTERS/FOOTAGES: 660' S line, 660' E line of SE SW

QUADRANGLE: FANCHER LONGITUDE: -88.780372 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.319728 DATE COLLECTED:

SURFACE ELEVATION (FT.): 606.0 LOGGED (FT.): 942.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG, SS BLO#5

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
166.0	BOND	CARTHAGE	LIMESTONE	11.0	440.0
24.0	MODESTO	WEST FRANKLIN	LIMESTONE	19.0	582.0
-94.0	CARBONDALE	DANVILLE	COAL	-	700.0
-155.0	CARBONDALE	HERRIN	COAL	4.0	761.0

MAPID: 17300066000C **VERSION:** 3 **PROJECT:** CONTROL
COUNTY: SHELBY **TWP/RNG:** 10N 4E **SECTION:** 8 **QUARTERS/FOOTAGES:** 660' S line, 660' E line of SE SW
QUADRANGLE: FANCHER **LONGITUDE:** -88.780372 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 39.319728 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 1954.0 **LOG TYPE:** Survey Sample Study
SOURCE: ILLINOIS EXPLORATION, INC. **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: 17300884000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 4E **SECTION:** 8 **QUARTERS/FOOTAGES:** SW NW SE
QUADRANGLE: FANCHER **LONGITUDE:** -88.776872 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.322431 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 601.0 **LOGGED (FT.):** 840.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG, SS BLO#5

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
151.0	BOND	CARTHAGE	LIMESTONE	9.0	450.0	
7.0	MODESTO	WEST FRANKLIN	LIMESTONE	18.0	594.0	
-113.0	CARBONDALE	DANVILLE	COAL	-	714.0	
-173.0	CARBONDALE	HERRIN	COAL	4.0	774.0	
-239.0	CARBONDALE	HOUCHIN CREEK	COAL	-	840.0	

MAPID: 17301228000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 4E **SECTION:** 10 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: STEWARDSON WEST **LONGITUDE:** -88.732709 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.318649 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 631.0 **LOGGED (FT.):** 873.0 **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	
-1.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	632.0	
-118.0	CARBONDALE	DANVILLE	COAL	-	749.0	
-171.0	CARBONDALE	HERRIN	COAL	-	802.0	
-195.0	CARBONDALE	SPRINGFIELD	COAL	-	826.0	
-242.0	CARBONDALE	HOUCHIN CREEK	COAL	-	873.0	

MAPID: 17322025000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 4E SECTION: 11 QUARTERS/FOOTAGES: NE NW NE
 QUADRANGLE: STEWARDSON WEST LONGITUDE: -88.718824 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.331115 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 634.0 LOGGED (FT.): 980.0 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
164.0	BOND	CARTHAGE	LIMESTONE	10.0	470.0
14.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	620.0
-114.0	CARBONDALE	DANVILLE	COAL	-	748.0
-142.0	CARBONDALE	HERRIN	COAL	2.0	776.0
-158.0	CARBONDALE	SPRINGFIELD	COAL	2.0	792.0
-222.0	CARBONDALE	HOUCHIN CREEK	COAL	-	856.0

MAPID: 17301227000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 4E SECTION: 16 QUARTERS/FOOTAGES: SE SE SE
 QUADRANGLE: FANCHER LONGITUDE: -88.751304 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.304169 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 621.0 LOGGED (FT.): 1017.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG, SS BLO#5

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
156.0	BOND	CARTHAGE	LIMESTONE	9.0	465.0
6.0	MODESTO	WEST FRANKLIN	LIMESTONE	18.0	615.0
-103.0	CARBONDALE	DANVILLE	COAL	-	724.0
-144.0	CARBONDALE	HERRIN	COAL	4.0	765.0
-160.0	CARBONDALE	SPRINGFIELD	COAL	-	781.0
-213.0	CARBONDALE	HOUCHIN CREEK	COAL	-	834.0

MAPID: 17300383000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 4E SECTION: 17 QUARTERS/FOOTAGES: NW NE NW
 QUADRANGLE: FANCHER LONGITUDE: -88.781505 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.317008 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 595.0 LOGGED (FT.): 755.5 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG, LS BLO#7

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
173.0	BOND	CARTHAGE	LIMESTONE	10.0	422.0
17.0	MODESTO	WEST FRANKLIN	LIMESTONE	19.0	578.0
-101.0	CARBONDALE	DANVILLE	COAL	-	696.0
-156.0	CARBONDALE	SPRINGFIELD	COAL	4.5	751.0

MAPID: 17301390000C VERSION: 1

PROJECT: CONF

COUNTY: SHELBY TWP/RNG: 10N 4E SECTION: 19 QUARTERS/FOOTAGES: 653' N line, 122' E line of NE NW
 QUADRANGLE: FANCHER LONGITUDE: -88.796958 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 39.301634 DATE COLLECTED: 6 / 26 / 1958
 SURFACE ELEVATION (FT.): 550.0 LOGGED (FT.): 92.0 LOG TYPE: Drillers Log
 SOURCE: PEABODY COAL CO. C10 WELL TYPE: Coal Test
 COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
461.5	MATTOON	SHELBYVILLE	COAL	1.5	88.5

MAPID: 17301224000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 4E SECTION: 21 QUARTERS/FOOTAGES: NE SW SE
 QUADRANGLE: FANCHER LONGITUDE: -88.75589 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.291506 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 621.0 LOGGED (FT.): 1010.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG, SS BLO#5

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
151.0	BOND	CARTHAGE	LIMESTONE	9.0	470.0
-3.0	MODESTO	WEST FRANKLIN	LIMESTONE	22.0	624.0
-104.0	CARBONDALE	DANVILLE	COAL	-	725.0
-148.0	CARBONDALE	SPRINGFIELD	COAL	4.0	769.0

MAPID: 17301383000C VERSION: 1

PROJECT: CONF

COUNTY: SHELBY TWP/RNG: 10N 4E SECTION: 21 QUARTERS/FOOTAGES: 70' S line, 15' E line of SW SE

QUADRANGLE: FANCHER LONGITUDE: -88.754772 GEOLOGIST: LOG BOOK

CONFIDENTIAL: N LATITUDE: 39.288973 DATE COLLECTED: 6 / 24 / 1958

SURFACE ELEVATION (FT.): 610.0 LOGGED (FT.): 0.0 LOG TYPE: Drillers Log

SOURCE: PEABODY COAL CO. C4 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: 17301221000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 4E SECTION: 22 QUARTERS/FOOTAGES: NW SW NW

QUADRANGLE: STEWARDSON WEST LONGITUDE: -88.74896 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.298713 DATE COLLECTED:

SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 1011.0 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
150.0	BOND	CARTHAGE	LIMESTONE	9.0	470.0
2.0	MODESTO	WEST FRANKLIN	LIMESTONE	20.0	618.0
-108.0	CARBONDALE	DANVILLE	COAL	-	728.0
-150.0	CARBONDALE	HERRIN	COAL	3.5	770.0

MAPID: 17324324000C VERSION: 1

PROJECT: NCRDS 2011

COUNTY: SHELBY TWP/RNG: 10N 4E SECTION: 25 QUARTERS/FOOTAGES: 1200' N line, 1490' W line

QUADRANGLE: STEWARDSON WEST LONGITUDE: -88.707619 GEOLOGIST: HOURLY

CONFIDENTIAL: N LATITUDE: 39.285117 DATE COLLECTED: 9 / 15 / 2010

SURFACE ELEVATION (FT.): 629.0 LOGGED (FT.): 315.0 LOG TYPE: Survey Core Study

SOURCE: ISGS WELL TYPE: Coal Test

COMMENT: BRUSH CREEK QUARRY #1

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
629.0	PLEISTOCENE		SILT	7.0	0.0	PEORIA AND ROXANA
622.0	PLEISTOCENE		CLAY & GRAVEL	10.0	7.0	BERRY CLAY MEMBER
612.0	PLEISTOCENE		SOIL	10.0	17.0	GLASFORD FORMATION, LOAM DIAMICTON
602.0	PLEISTOCENE		CLAY	9.0	27.0	BANNER FORMN, POSSIBLE HILLERY MEMBER?
593.0	MATTOON		SHALE WITH LIMESTONE	3.0	36.0	LS NODULES, PENN BEDROCK
590.0	MATTOON	OMEGA	LIMESTONE	21.3	39.0	BRACHIOPODS AND ECHINODERMS
568.7	MATTOON		MUDSTONE	5.3	60.3	SILTY AND CALCAREOUS THROUGHOUT
563.5	MATTOON		CLAYSTONE	6.5	65.5	VERY DRAB, OLIVE, GRAY
557.0	MATTOON		ARGILACEOUS SHALE	4.7	72.0	DARK GRAY
552.3	MATTOON		SANDSTONE	3.5	76.7	
548.8	MATTOON		SILTSTONE	5.8	80.2	
543.0	MATTOON		SILTSTONE	32.0	86.0	
511.0	MATTOON		GRAY SHALE	7.2	118.0	
503.8	MATTOON	SHELBYVILLE	COAL	1.1	125.2	
502.7	MATTOON		CLAYSTONE	0.2	126.3	ROOTED, HACKLY, SLICKENSIDES
502.5	MATTOON		CLAYSTONE	0.5	126.5	
502.0	MATTOON		CLAYSTONE	5.5	127.0	
496.5	MATTOON		SANDSTONE	2.5	132.5	
494.0	MATTOON		SHALE & SANDSTONE	8.8	135.0	INTERLAMINATED
485.2	MATTOON		DARK SHALE	2.4	143.8	
482.8	MATTOON		CALCAREOUS SILTSTONE	0.8	146.2	FOSSIL FRAGMENTS COMMON
482.0	MATTOON		SHALE & SILTSTONE	30.0	147.0	INTERLAYERED
452.0	MATTOON		GRAY SHALE	12.0	177.0	
440.0	MATTOON		GRAY LIMESTONE	0.7	189.0	
439.3	MATTOON		BLACK SHALE	1.7	189.7	EUDORA SHALE MEMBER
437.6	MATTOON	OCONEE	COAL	1.1	191.4	
436.5	MATTOON		CLAYSTONE	4.9	192.5	
431.7	MATTOON		GRAY SANDSTONE	3.9	197.3	
427.8	MATTOON		GRAY SHALE	10.8	201.2	
417.0	MATTOON		LIMESTONE	0.5	212.0	
416.5	MATTOON		SHALE	2.1	212.5	CLAY SHALE
414.4	MATTOON		BONE COAL	0.4	214.6	
414.0	MATTOON	OPDYKE	COAL	0.9	215.0	
413.1	MATTOON		SILTSTONE	24.2	215.9	WITH SILTY SHALE
389.0	MATTOON		GRAY SHALE	9.1	240.0	
379.9	MATTOON		LIMESTONE	0.9	249.1	LITTLE VERMILION LS
379.0	MATTOON	COHN	COAL	0.5	250.0	
378.5	MATTOON		CLAYSTONE	4.2	250.5	SLICKENSIDES, BLOCKY

374.3	MATTOON		CLAYSTONE	1.8	254.7	
372.5	BOND	LIVINGSTON	LIMESTONE & CLAY	1.5	256.5	LIVINGSTON LS (TOP)
371.0	BOND	LIVINGSTON	LIMESTONE	5.0	258.0	
366.0	BOND	LIVINGSTON	CLAYSTONE	1.8	263.0	
364.2	BOND	LIVINGSTON	LIMESTONE	9.2	264.8	CLAYSTONE FILLING CAVITIES
355.0	BOND	LIVINGSTON	LIMESTONE	6.4	274.0	
348.6	BOND	LIVINGSTON	GRAY SHALE	0.2	280.4	
348.4	BOND	LIVINGSTON	GRAY LIMESTONE	17.2	280.6	
331.1	BOND	LIVINGSTON	GRAY LIMESTONE	2.1	297.9	LIVINGSTON LS (BASE)
329.1	BOND		SILTSTONE	7.4	299.9	
321.7	BOND		GRAY SHALE	7.8	307.3	

MAPID: 17300399000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 4E **SECTION:** 27 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: STEWARDSON WEST **LONGITUDE:** -88.748893 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.280606 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 618.0 **LOGGED (FT.):** 874.0 **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	
164.0	BOND	CARTHAGE	LIMESTONE	8.0	454.0	
17.0	MODESTO	WEST FRANKLIN	LIMESTONE	20.0	601.0	
-101.0	CARBONDALE	DANVILLE	COAL	-	719.0	
-133.0	CARBONDALE	HERRIN	COAL	4.5	751.0	
-256.0	CARBONDALE	HOUCHIN CREEK	COAL	-	874.0	

MAPID: 17301388000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 4E **SECTION:** 29 **QUARTERS/FOOTAGES:** 37' N line, 14' E line of NW SE
QUADRANGLE: FANCHER **LONGITUDE:** -88.773308 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.281536 **DATE COLLECTED:** 6 / 26 / 1958
SURFACE ELEVATION (FT.): 615.0 **LOGGED (FT.):** 74.7 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. C9 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
543.9	MATTOON	SHELBYVILLE	COAL	1.9	71.1	

MAPID: 17301031000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 4E **SECTION:** 30 **QUARTERS/FOOTAGES:** NW NW SE
QUADRANGLE: FANCHER **LONGITUDE:** -88.795282 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.280826 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 603.0 **LOGGED (FT.):** 998.0 **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
121.0	BOND	CARTHAGE	LIMESTONE	10.0	482.0
-33.0	MODESTO	WEST FRANKLIN	LIMESTONE	18.0	636.0
-167.0	CARBONDALE	DANVILLE	COAL	2.0	770.0
-201.0	CARBONDALE	HERRIN	COAL	3.0	804.0
-223.0	CARBONDALE	SPRINGFIELD	COAL	3.5	826.0
-301.0	CARBONDALE	HOUCHIN CREEK	COAL	-	904.0

MAPID: 17301386000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 4E **SECTION:** 30 **QUARTERS/FOOTAGES:** 9' N line, 1276' E line of SE
QUADRANGLE: FANCHER **LONGITUDE:** -88.791785 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.281708 **DATE COLLECTED:** 6 / 25 / 1958
SURFACE ELEVATION (FT.): 605.0 **LOGGED (FT.):** 92.5 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. C6 **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

MAPID: 17301389000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 4E **SECTION:** 31 **QUARTERS/FOOTAGES:** 10' S line, 930' E line of SW NW
QUADRANGLE: FANCHER **LONGITUDE:** -88.804305 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.267298 **DATE COLLECTED:** 6 / 27 / 1958
SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 64.7 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. C11 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
513.9	MATTOON	SHELBYVILLE	COAL	1.9	71.1

MAPID: 17301391000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 4E **SECTION:** 31 **QUARTERS/FOOTAGES:** 282' S line, 8' W line of SE NW
QUADRANGLE: FANCHER **LONGITUDE:** -88.800974 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.268048 **DATE COLLECTED:** 6 / 27 / 1958
SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 44.3 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. C12 **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

MAPID: 17301392000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 4E **SECTION:** 31 **QUARTERS/FOOTAGES:** 10' N line, 127' W line of SE
QUADRANGLE: FANCHER **LONGITUDE:** -88.795949 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.26724 **DATE COLLECTED:** 6 / 27 / 1958
SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 84.6 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. C13 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
518.6	MATTOON	SHELBYVILLE	COAL	1.8	81.4	

MAPID: 17301381000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 4E **SECTION:** 32 **QUARTERS/FOOTAGES:** 869' N line, 15' W line
QUADRANGLE: FANCHER **LONGITUDE:** -88.787178 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.272095 **DATE COLLECTED:** 6 / 24 / 1958
SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 60.5 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. C3 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
544.0	MATTOON	SHELBYVILLE	COAL	2.2	56.0	

MAPID: 17301304000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 4E **SECTION:** 33 **QUARTERS/FOOTAGES:** 390' N line, 350' E line of NW NW
QUADRANGLE: FANCHER **LONGITUDE:** -88.765178 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.273237 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 584.0 **LOGGED (FT.):** 910.0 **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
13.0	MODESTO	WEST FRANKLIN	LIMESTONE	20.0	571.0
-110.0	CARBONDALE	DANVILLE	COAL	2.0	694.0
-131.0	CARBONDALE	HERRIN	COAL	-	715.0
-149.0	CARBONDALE	SPRINGFIELD	COAL	-	733.0
-196.0	CARBONDALE	HOUCHIN CREEK	COAL	-	780.0

MAPID: 17301387000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 4E **SECTION:** 33 **QUARTERS/FOOTAGES:** 119' N line, 607' W line of NE NE
QUADRANGLE: FANCHER **LONGITUDE:** -88.752511 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.273971 **DATE COLLECTED:** 6 / 26 / 1958
SURFACE ELEVATION (FT.): 562.0 **LOGGED (FT.):** 30.0 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. C8 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
534.7	MATTOON	SHELBYVILLE	COAL	1.8	27.3

MAPID: 17301385000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 4E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: STEWARDSON WEST **LONGITUDE:** -88.740741 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.266947 **DATE COLLECTED:** 6 / 25 / 1958
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 22.8 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. C7 **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

MAPID: 17322034000C VERSION: 1

PROJECT: IBC XSECT

COUNTY: SHELBY TWP/RNG: 10N 5E SECTION: 3 QUARTERS/FOOTAGES: 800' N line, 330' W line of NE NW

QUADRANGLE: STEWARDSON WEST LONGITUDE: -88.632536 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.343908 DATE COLLECTED: 11 / 0 / 1975

SURFACE ELEVATION (FT.): 634.0 LOGGED (FT.): 1067.0 LOG TYPE: Gamma Ray Density

SOURCE: WELL TYPE: Producer-Oil

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-238.0	CARBONDALE	HERRIN	COAL	-	872.0
-433.0	CARBONDALE	COLCHESTER	COAL	-	1067.0

MAPID: 17322034000C VERSION: 2

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 5E SECTION: 3 QUARTERS/FOOTAGES: 800' N line, 330' W line of NE NW

QUADRANGLE: STEWARDSON WEST LONGITUDE: -88.632536 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.343908 DATE COLLECTED:

SURFACE ELEVATION (FT.): 634.0 LOGGED (FT.): 956.0 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
84.0	BOND	CARTHAGE	LIMESTONE	6.0	550.0
-56.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	690.0
-184.0	CARBONDALE	DANVILLE	COAL	4.0	818.0
-236.0	CARBONDALE	HERRIN	COAL	4.0	870.0
-249.0	CARBONDALE	SPRINGFIELD	COAL	3.0	883.0
-320.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	954.0

MAPID: 17300420000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 5E SECTION: 15 QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: STEWARDSON WEST LONGITUDE: -88.625297 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.303445 DATE COLLECTED:

SURFACE ELEVATION (FT.): 636.0 LOGGED (FT.): 916.0 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
84.0	BOND	CARTHAGE	LIMESTONE	10.0	552.0
-64.0	MODESTO	WEST FRANKLIN	LIMESTONE	18.0	700.0
-212.0	CARBONDALE	DANVILLE	COAL	3.0	848.0
-249.0	CARBONDALE	HERRIN	COAL	5.0	885.0
-280.0	CARBONDALE	SPRINGFIELD	COAL	-	916.0

MAPID: 17300429000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 5E SECTION: 20 QUARTERS/FOOTAGES: SW SW SE
 QUADRANGLE: STEWARDSON WEST LONGITUDE: -88.664739 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.289012 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 635.0 LOGGED (FT.): 964.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG, SS BLO#5

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
90.0	BOND	CARTHAGE	LIMESTONE	12.0	545.0	
-65.0	MODESTO	WEST FRANKLIN	LIMESTONE	21.0	700.0	
-205.0	CARBONDALE	DANVILLE	COAL	3.0	840.0	
-240.0	CARBONDALE	SPRINGFIELD	COAL	7.0	875.0	
-329.0	CARBONDALE	HOUCHIN CREEK	COAL	-	964.0	

MAPID: 17300431000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 5E SECTION: 21 QUARTERS/FOOTAGES: NE NE SE
 QUADRANGLE: STEWARDSON WEST LONGITUDE: -88.63918 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.294375 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 647.0 LOGGED (FT.): 961.0 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	
109.0	BOND	CARTHAGE	LIMESTONE	12.0	538.0	
7.0	MODESTO	TRIVOLI	SANDSTONE	66.0	640.0	
-183.0	CARBONDALE	DANVILLE	COAL	3.0	830.0	
-214.0	CARBONDALE	SPRINGFIELD	COAL	7.0	861.0	
-314.0	CARBONDALE	HOUCHIN CREEK	COAL	-	961.0	

MAPID: 17301288000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 5E SECTION: 22 QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: STEWARDSON WEST LONGITUDE: -88.625207 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.288896 DATE COLLECTED:

SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 1027.0 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
106.0	BOND	CARTHAGE	LIMESTONE	9.0	534.0
16.0	MODESTO	TRIVOLI	SANDSTONE	65.0	624.0
-50.0	MODESTO	WEST FRANKLIN	LIMESTONE	20.0	690.0
-192.0	CARBONDALE	DANVILLE	COAL	2.5	832.0
-224.0	CARBONDALE	SPRINGFIELD	COAL	5.0	864.0
-304.0	CARBONDALE	HOUCHIN CREEK	COAL	-	944.0

MAPID: 17301048000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 5E SECTION: 23 QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: STEWARDSON EAST LONGITUDE: -88.618219 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.288899 DATE COLLECTED:

SURFACE ELEVATION (FT.): 643.0 LOGGED (FT.): 1038.0 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
101.0	BOND	CARTHAGE	LIMESTONE	9.0	542.0
-62.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	705.0
-199.0	CARBONDALE	DANVILLE	COAL	2.0	842.0
-212.0	CARBONDALE	HERRIN	COAL	4.0	855.0
-232.0	CARBONDALE	SPRINGFIELD	COAL	4.0	875.0
-312.0	CARBONDALE	HOUCHIN CREEK	COAL	-	955.0

MAPID: 1730044000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 5E SECTION: 26 QUARTERS/FOOTAGES: SW NW NE
 QUADRANGLE: STEWARDSON EAST LONGITUDE: -88.608779 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.285274 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 649.0 LOGGED (FT.): 1008.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	722.0
-221.0	CARBONDALE	DANVILLE	COAL	3.0	870.0
-259.0	CARBONDALE	SPRINGFIELD	COAL	4.5	908.0
-359.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1008.0

MAPID: 17301192000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 5E SECTION: 27 QUARTERS/FOOTAGES: NW NE SE
 QUADRANGLE: STEWARDSON EAST LONGITUDE: -88.622814 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.279892 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 647.0 LOGGED (FT.): 1058.0 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
85.0	BOND	CARTHAGE	LIMESTONE	7.0	562.0
-33.0	MODESTO	TRIVOLI	SANDSTONE	37.0	680.0
-79.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	726.0
-224.0	CARBONDALE	DANVILLE	COAL	3.0	871.0
-263.0	CARBONDALE	SPRINGFIELD	COAL	5.0	910.0
-346.0	CARBONDALE	HOUCHIN CREEK	COAL	-	993.0

MAPID: 17300443000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 5E SECTION: 28 QUARTERS/FOOTAGES: NW SW SE
 QUADRANGLE: STEWARDSON WEST LONGITUDE: -88.646138 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.276294 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 1010.0 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
50.0	BOND	CARTHAGE	LIMESTONE	8.0	600.0
-97.0	MODESTO	WEST FRANKLIN	LIMESTONE	18.0	747.0
-252.0	CARBONDALE	DANVILLE	COAL	4.0	902.0
-287.0	CARBONDALE	SPRINGFIELD	COAL	5.5	937.0
-360.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1010.0

MAPID: 17300445000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 5E **SECTION:** 29 **QUARTERS/FOOTAGES:** NW SW SE
QUADRANGLE: STEWARDSON WEST **LONGITUDE:** -88.664753 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.276346 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 640.0 **LOGGED (FT.):** 1070.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
80.0	BOND	CARTHAGE	LIMESTONE	8.0	560.0	
-65.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	705.0	
-217.0	CARBONDALE	DANVILLE	COAL	2.5	857.0	
-233.0	CARBONDALE	HERRIN	COAL	4.0	873.0	
-256.0	CARBONDALE	SPRINGFIELD	COAL	5.0	896.0	
-335.0	CARBONDALE	HOUCHIN CREEK	COAL	-	975.0	

MAPID: 17301124000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 5E **SECTION:** 30 **QUARTERS/FOOTAGES:** NE SE NW
QUADRANGLE: STEWARDSON WEST **LONGITUDE:** -88.685924 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.283629 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 632.0 **LOGGED (FT.):** 1010.0 **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	
102.0	BOND	CARTHAGE	LIMESTONE	10.0	530.0	
-52.0	MODESTO	WEST FRANKLIN	LIMESTONE	21.0	684.0	
-193.0	CARBONDALE	DANVILLE	COAL	2.5	825.0	
-230.0	CARBONDALE	SPRINGFIELD	COAL	5.0	862.0	
-301.0	CARBONDALE	HOUCHIN CREEK	COAL	-	933.0	

MAPID: 17301295000C **VERSION:** 1 **PROJECT:** IBC XSECT
COUNTY: SHELBY **TWP/RNG:** 10N 5E **SECTION:** 31 **QUARTERS/FOOTAGES:** 660' N line, 660' W line of NE
QUADRANGLE: STEWARDSON WEST **LONGITUDE:** -88.682362 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.271869 **DATE COLLECTED:** 5 / 0 / 1962
SURFACE ELEVATION (FT.): 631.0 **LOGGED (FT.):** 1084.0 **LOG TYPE:** Other Core Study
SOURCE: **WELL TYPE:** Producer-Oil
COMMENT: TOPS PICKED FOR ISGS 11:30 X-SECTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-253.0	CARBONDALE	HERRIN	COAL	-	884.0	LITHOLOGY AND CORRELATION UNCERTAIN
-453.0	CARBONDALE	COLCHESTER	COAL	-	1084.0	

MAPID: 17300451000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 5E SECTION: 33 QUARTERS/FOOTAGES: NE SW SE
 QUADRANGLE: STEWARDSON WEST LONGITUDE: -88.643791 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.261836 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 645.0 LOGGED (FT.): 981.0 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	
65.0	BOND	CARTHAGE	LIMESTONE	8.0	580.0	
-69.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	714.0	
-218.0	CARBONDALE	DANVILLE	COAL	2.5	863.0	
-252.0	CARBONDALE	SPRINGFIELD	COAL	6.0	897.0	
-336.0	CARBONDALE	HOUCHIN CREEK	COAL	-	981.0	

MAPID: 17301091000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 5E SECTION: 34 QUARTERS/FOOTAGES: NW NE NE
 QUADRANGLE: STEWARDSON EAST LONGITUDE: -88.622761 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.272687 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 917.0 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	13.0	728.0	
-227.0	CARBONDALE	DANVILLE	COAL	3.0	877.0	
-261.0	CARBONDALE	SPRINGFIELD	COAL	6.0	911.0	

MAPID: 17300458000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 6E SECTION: 4 QUARTERS/FOOTAGES: SW NE NW
 QUADRANGLE: STEWARDSON EAST LONGITUDE: -88.540065 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.343008 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 630.0 LOGGED (FT.): 882.0 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	
9.0	BOND	CARTHAGE	LIMESTONE	10.0	621.0	
-122.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	752.0	
-249.0	CARBONDALE	DANVILLE	COAL	3.0	879.0	

MAPID: 17300124000C **VERSION:** 2 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 6E **SECTION:** 12 **QUARTERS/FOOTAGES:** NE NE NW
QUADRANGLE: NEOGA **LONGITUDE:** -88.481523 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.329925 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 629.0 **LOGGED (FT.):** 1112.0 **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
-52.0	BOND	CARTHAGE	LIMESTONE	6.0	681.0
-191.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	820.0
-321.0	CARBONDALE	DANVILLE	COAL	-	950.0
-375.0	CARBONDALE	HERRIN	COAL	3.0	1004.0
-393.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1022.0
-483.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1112.0

MAPID: 17300124000C **VERSION:** 3 **PROJECT:** CONTROL
COUNTY: SHELBY **TWP/RNG:** 10N 6E **SECTION:** 12 **QUARTERS/FOOTAGES:** NE NE NW
QUADRANGLE: NEOGA **LONGITUDE:** -88.481523 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 39.329925 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 2369.0 **LOG TYPE:** Survey Sample Study
SOURCE: DUNCAN, N. V., EST. OF **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: 17300462000C **VERSION:** 1 **PROJECT:** NCRDS87
COUNTY: SHELBY **TWP/RNG:** 10N 6E **SECTION:** 12 **QUARTERS/FOOTAGES:** 3825' S line, 1375' E line
QUADRANGLE: NEOGA **LONGITUDE:** -88.475668 **GEOLOGIST:** WEIBEL
CONFIDENTIAL: N **LATITUDE:** 39.327027 **DATE COLLECTED:** 12 / 14 / 1936
SURFACE ELEVATION (FT.): 648.5 **LOGGED (FT.):** 43.3 **LOG TYPE:** Drillers Log
SOURCE: JOSEPH MC CLORY **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
648.5			UNCONSOLIDATED	16.0	0.0
632.5	MATTOON		CLAYSTONE	5.0	16.0
627.5	MATTOON		UNCLASSIFIED	20.0	21.0
607.5	MATTOON	TROWBRIDGE	COAL	2.3	41.0

MAPID: 17301821000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 10N 6E **SECTION:** 12 **QUARTERS/FOOTAGES:** SE NE
QUADRANGLE: NEOGA **LONGITUDE:** -88.473175 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.325396 **DATE COLLECTED:** 2 / 16 / 1972
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 150.0 **LOG TYPE:** Drillers Log
SOURCE: ARCH MINERALS **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	MATTOON	TROWBRIDGE	COAL	2.5	38.2

MAPID: 17321952000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 6E **SECTION:** 14 **QUARTERS/FOOTAGES:** NE SE SW
QUADRANGLE: STEWARDSON EAST **LONGITUDE:** -88.500219 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.304895 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 651.0 **LOGGED (FT.):** 1102.0 **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
-36.0	BOND	CARTHAGE	LIMESTONE	4.0	687.0
-159.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	810.0
-284.0	CARBONDALE	DANVILLE	COAL	-	935.0
-340.0	CARBONDALE	HERRIN	COAL	-	991.0
-354.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1005.0
-451.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1102.0

MAPID: 17300507000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 10N 6E **SECTION:** 15 **QUARTERS/FOOTAGES:** 660' S line, 660' W line of NE
QUADRANGLE: STEWARDSON EAST **LONGITUDE:** -88.515342 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.311321 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 647.0 **LOGGED (FT.):** 1184.0 **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
-163.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	810.0
-297.0	CARBONDALE	DANVILLE	COAL	3.0	944.0
-351.0	CARBONDALE	HERRIN	COAL	2.5	998.0
-371.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1018.0
-457.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1104.0

MAPID: 17300509000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 6E SECTION: 22 QUARTERS/FOOTAGES: 420' N line, 990' E line of SW

QUADRANGLE: STEWARDSON EAST LONGITUDE: -88.521163 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.293895 DATE COLLECTED:

SURFACE ELEVATION (FT.): 638.0 LOGGED (FT.): 1084.0 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
-47.0	BOND	CARTHAGE	LIMESTONE	5.0	685.0
-164.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	802.0
-302.0	CARBONDALE	DANVILLE	COAL	-	940.0
-330.0	CARBONDALE	HERRIN	COAL	-	968.0
-355.0	CARBONDALE	SPRINGFIELD	COAL	4.0	993.0
-446.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1084.0

MAPID: 17301045000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 6E SECTION: 23 QUARTERS/FOOTAGES: SE SW NW

QUADRANGLE: STEWARDSON EAST LONGITUDE: -88.504856 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.295858 DATE COLLECTED:

SURFACE ELEVATION (FT.): 656.0 LOGGED (FT.): 1150.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-24.0	BOND	CARTHAGE	LIMESTONE	-	680.0
-144.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	800.0
-283.0	CARBONDALE	DANVILLE	COAL	-	939.0
-309.0	CARBONDALE	HERRIN	COAL	4.0	965.0
-338.0	CARBONDALE	SPRINGFIELD	COAL	3.5	994.0
-422.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1078.0

MAPID: 17300517000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 6E SECTION: 24 QUARTERS/FOOTAGES: SW SW NE
 QUADRANGLE: NEOGA LONGITUDE: -88.479274 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.295621 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 654.0 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.)		COMMENT
				UNIT	OVERBURDEN	
-156.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	810.0	
-291.0	CARBONDALE	DANVILLE	COAL	-	945.0	
-330.0	CARBONDALE	HERRIN	COAL	-	984.0	
-353.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1007.0	
-421.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1075.0	

MAPID: 17300518000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 6E SECTION: 27 QUARTERS/FOOTAGES: SE SW NW
 QUADRANGLE: STEWARDSON EAST LONGITUDE: -88.523473 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.281458 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 649.0 LOGGED (FT.): 1124.0 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	
-46.0	BOND	CARTHAGE	LIMESTONE	5.0	695.0	
-167.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	816.0	
-314.0	CARBONDALE	DANVILLE	COAL	2.5	963.0	
-365.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1014.0	
-475.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1124.0	

MAPID: 17301063000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 10N 6E SECTION: 32 QUARTERS/FOOTAGES: NE SE NE
 QUADRANGLE: STEWARDSON EAST LONGITUDE: -88.546809 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.268786 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 648.0 LOGGED (FT.): 1093.0 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	
-146.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	794.0	
-300.0	CARBONDALE	DANVILLE	COAL	3.5	948.0	
-330.0	CARBONDALE	HERRIN	COAL	2.0	978.0	
-342.0	CARBONDALE	SPRINGFIELD	COAL	5.0	990.0	
-445.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1093.0	

MAPID: 17300520000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY

TWP/RNG: 10N 6E

SECTION: 35

QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: NEOGA

LONGITUDE: -88.491162

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.259562

DATE COLLECTED:

SURFACE ELEVATION (FT.): 641.0

LOGGED (FT.): 1108.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-65.0	BOND	CARTHAGE	LIMESTONE	7.0	706.0
-190.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	831.0
-343.0	CARBONDALE	DANVILLE	COAL	4.0	984.0
-361.0	CARBONDALE	HERRIN	COAL	4.0	1002.0
-392.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1033.0
-467.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1108.0

MAPID: 17301104000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY

TWP/RNG: 11N 2E

SECTION: 1

QUARTERS/FOOTAGES: NW NW NW

QUADRANGLE: TOWER HILL

LONGITUDE: -88.935222

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.433641

DATE COLLECTED:

SURFACE ELEVATION (FT.): 641.0

LOGGED (FT.): 990.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
197.0	BOND	CARTHAGE	LIMESTONE	12.0	444.0
-85.0	CARBONDALE	DANVILLE	COAL	2.0	726.0
-121.0	CARBONDALE	HERRIN	COAL	3.5	762.0
-149.0	CARBONDALE	SPRINGFIELD	COAL	5.0	790.0
-227.0	CARBONDALE	HOUCHIN CREEK	COAL	-	868.0

MAPID: 17301072000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 11N 2E **SECTION:** 3 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: TOWER HILL **LONGITUDE:** -88.973197 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.433763 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 734.0 **LOGGED (FT.):** 1047.0 **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
234.0	BOND	CARTHAGE	LIMESTONE	11.0	500.0
-64.0	CARBONDALE	DANVILLE	COAL	2.0	798.0
-102.0	CARBONDALE	HERRIN	COAL	5.5	836.0
-128.0	CARBONDALE	SPRINGFIELD	COAL	5.0	862.0
-194.0	CARBONDALE	HOUCHIN CREEK	COAL	-	928.0

MAPID: 17301745000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 11N 2E **SECTION:** 5 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: PANA **LONGITUDE:** -89.009051 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.426024 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 675.0 **LOGGED (FT.):** 770.0 **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
253.0	BOND	CARTHAGE	LIMESTONE	10.0	422.0
-38.0	CARBONDALE	DANVILLE	COAL	-	713.0
-73.0	CARBONDALE	HERRIN	COAL	-	748.0
-95.0	CARBONDALE	SPRINGFIELD	COAL	-	770.0

MAPID: 17300521000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 11N 2E **SECTION:** 9 **QUARTERS/FOOTAGES:** 410' S line, 420' E line
QUADRANGLE: TOWER HILL **LONGITUDE:** -88.974819 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.406074 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 687.0 **LOGGED (FT.):** 1003.0 **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
228.0	BOND	CARTHAGE	LIMESTONE	13.0	459.0
-33.0	MODESTO	PIASA	LIMESTONE	14.0	720.0
-63.0	CARBONDALE	DANVILLE	COAL	4.0	750.0
-97.0	CARBONDALE	HERRIN	COAL	8.0	784.0
-122.0	CARBONDALE	SPRINGFIELD	COAL	6.5	809.0
-193.0	CARBONDALE	HOUCHIN CREEK	COAL	-	880.0

MAPID: 17301120000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 2E SECTION: 11 QUARTERS/FOOTAGES: SW SW SE
 QUADRANGLE: TOWER HILL LONGITUDE: -88.944616 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.406393 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 657.0 LOGGED (FT.): 990.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
189.0	BOND	CARTHAGE	LIMESTONE	14.0	468.0
-40.0	MODESTO	PIASA	LIMESTONE	4.0	697.0
-95.0	CARBONDALE	DANVILLE	COAL	2.0	752.0
-129.0	CARBONDALE	HERRIN	COAL	5.0	786.0
-158.0	CARBONDALE	SPRINGFIELD	COAL	-	815.0
-233.0	CARBONDALE	HOUCHIN CREEK	COAL	-	890.0

MAPID: 17301075000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 2E SECTION: 16 QUARTERS/FOOTAGES: NW SE SW
 QUADRANGLE: TOWER HILL LONGITUDE: -88.9855 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.393015 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 668.0 LOGGED (FT.): 988.0 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
225.0	BOND	CARTHAGE	LIMESTONE	11.0	443.0
-68.0	CARBONDALE	DANVILLE	COAL	2.5	736.0
-102.0	CARBONDALE	HERRIN	COAL	5.0	770.0
-138.0	CARBONDALE	SPRINGFIELD	COAL	-	806.0
-205.0	CARBONDALE	HOUCHIN CREEK	COAL	-	873.0

MAPID: 17301096000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 2E SECTION: 20 QUARTERS/FOOTAGES: SE SE SE
 QUADRANGLE: TOWER HILL LONGITUDE: -88.992279 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.376404 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 661.0 LOGGED (FT.): 970.0 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
-57.0	CARBONDALE	DANVILLE	COAL	2.0	718.0
-89.0	CARBONDALE	HERRIN	COAL	6.0	750.0
-117.0	CARBONDALE	SPRINGFIELD	COAL	-	778.0

MAPID: 1732361000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 11N 2E **SECTION:** 20 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: PANA **LONGITUDE:** -89.008497 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.376128 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 807.4 **LOG TYPE:** Company map
SOURCE: CARTER OIL WF-172 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	7.4	800.0

MAPID: 17300122000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 11N 2E **SECTION:** 21 **QUARTERS/FOOTAGES:** SW SW SE
QUADRANGLE: TOWER HILL **LONGITUDE:** -88.98069 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.376566 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 630.0 **LOGGED (FT.):** 973.0 **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
193.0	BOND	CARTHAGE	LIMESTONE	16.0	437.0
-80.0	MODESTO	PIASA	LIMESTONE	7.0	710.0
-102.0	CARBONDALE	DANVILLE	COAL	-	732.0
-132.0	CARBONDALE	HERRIN	COAL	7.0	762.0
-166.0	CARBONDALE	SPRINGFIELD	COAL	5.0	796.0
-250.0	CARBONDALE	HOUCHIN CREEK	COAL	4.0	880.0

MAPID: 17323611000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 11N 2E **SECTION:** 21 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: TOWER HILL **LONGITUDE:** -88.990077 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.389303 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 800.5 **LOG TYPE:** Company map
SOURCE: CARTER OIL 4A-682 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	HERRIN	COAL	8.5	792.0

MAPID: 17300052000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 2E SECTION: 22 QUARTERS/FOOTAGES: 650' N line, 3025' E line

QUADRANGLE: TOWER HILL LONGITUDE: -88.965819 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.388808 DATE COLLECTED:

SURFACE ELEVATION (FT.): 636.0 LOGGED (FT.): 747.3 LOG TYPE: Survey Core Study

SOURCE: WELL TYPE: Coal Test

COMMENT: GOOD LOG, TD 755'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
217.0	BOND	CARTHAGE	LIMESTONE	11.0	419.0
-104.0	CARBONDALE	HERRIN	COAL	7.3	740.0

MAPID: 17300052000C VERSION: 2

PROJECT: ROOF STUDY

COUNTY: SHELBY TWP/RNG: 11N 2E SECTION: 22 QUARTERS/FOOTAGES: 650' N line, 3025' E line

QUADRANGLE: TOWER HILL LONGITUDE: -88.965819 GEOLOGIST: N

CONFIDENTIAL: N LATITUDE: 39.388808 DATE COLLECTED:

SURFACE ELEVATION (FT.): 636.0 LOGGED (FT.): 747.3 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Coal Test

COMMENT: POOR DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-44.0	MODESTO	PIASA	CALCAREOUS SHALE	3.0	680.0
-47.0	MODESTO		SHALE	14.0	683.0
-61.0	CARBONDALE		SHALE	16.0	697.0
-77.0	CARBONDALE	GALUM	CALCAREOUS SHALE	1.0	713.0
-78.0	CARBONDALE		BLACK SHALE	7.0	714.0
-85.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	721.0
-90.0	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	726.0
-96.0	CARBONDALE	LAWSON	GRAY SHALE	1.0	732.0
-97.0	CARBONDALE	BRERETON	LIMESTONE	2.0	733.0
-99.0	CARBONDALE	ANNA	BLACK SHALE	5.0	735.0
-104.0	CARBONDALE	HERRIN	COAL	7.3	740.0

MAPID: 17300052000C VERSION: 3

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 11N 2E SECTION: 22 QUARTERS/FOOTAGES: 650' N line, 3025' E line

QUADRANGLE: TOWER HILL LONGITUDE: -88.965819 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.388808 DATE COLLECTED:

SURFACE ELEVATION (FT.): 635.5 LOGGED (FT.): 755.0 LOG TYPE: Drillers Log

SOURCE: CENTURY COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
635.5			UNCONSOLIDATED	31.0	0.0
604.5	MATTOON		LIMESTONE	9.0	31.0
595.5	MATTOON		SHALE	44.0	40.0
551.5	MATTOON		DARK SHALE	3.5	84.0
548.0	MATTOON		COAL	0.5	87.5
547.5	MATTOON		BLACK SHALE	17.0	88.0
530.5	MATTOON		SHALE	52.0	105.0
478.5	MATTOON		COAL	1.0	157.0
477.5	MATTOON		CALCAREOUS SHALE	8.0	158.0
469.5	MATTOON		LIMESTONE	12.0	166.0
457.5	MATTOON		DARK SHALE	1.5	178.0
456.0	BOND	MILLERSVILLE	LIMESTONE	34.5	179.5
421.5	BOND		SHALE	77.0	214.0
344.5	BOND		COAL	0.6	291.0
343.9	BOND		SHALE	39.4	291.6
304.5	BOND		BLACK SHALE	3.0	331.0
301.5	BOND		SHALE	26.0	334.0
275.5	BOND		SANDSTONE	14.0	360.0
261.5	BOND		SHALE	26.0	374.0
235.5	BOND		COAL	0.3	400.0
235.2	BOND		DARK SHALE	0.8	400.3
234.5	BOND		SHALE	18.0	401.0
216.5	BOND	CARTHAGE	LIMESTONE	11.0	419.0
205.5	MODESTO		SHALE/COAL	2.5	430.0
203.0	MODESTO		UNDERCLAY	1.5	432.5
201.5	MODESTO		SHALE	58.0	434.0
143.5	MODESTO		BLACK SHALE	2.2	492.0
141.3	MODESTO		COAL	1.0	494.2
140.3	MODESTO		SHALE	17.8	495.2
122.5	MODESTO		SANDSTONE	31.0	513.0
91.5	MODESTO		SHALE	39.0	544.0
52.5	MODESTO		BLACK SHALE	2.0	583.0
50.5	MODESTO		SHALE	6.0	585.0
44.5	MODESTO		SANDSTONE	5.0	591.0
39.5	MODESTO		SHALE	72.0	596.0
-32.5	MODESTO		BLACK SHALE	2.0	668.0
-34.5	MODESTO		SHALE	13.0	670.0
-47.5	MODESTO		SANDSTONE	14.0	683.0
-61.5	MODESTO		SHALE	3.0	697.0

-64.5	MODESTO		SANDSTONE	4.0	700.0
-68.5	MODESTO		DARK SHALE	9.0	704.0
-77.5	MODESTO		CALCAREOUS SHALE	1.0	713.0
-78.5	MODESTO		BLACK SHALE	7.0	714.0
-85.5	CARBONDALE		LIMESTONE	11.0	721.0
-96.5	CARBONDALE		SHALE	1.0	732.0
-97.5	CARBONDALE	BRERETON	LIMESTONE	2.0	733.0
-99.5	CARBONDALE	ANNA	BLACK SHALE	5.0	735.0
-104.5	CARBONDALE	HERRIN	COAL	7.3	740.0
-111.8	CARBONDALE		SHALE	7.7	747.3

MAPID: 17300110000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 2E SECTION: 26 QUARTERS/FOOTAGES: 660' S line, 660' E line of NW

QUADRANGLE: LAKEWOOD LONGITUDE: -88.94795 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.370889 DATE COLLECTED:

SURFACE ELEVATION (FT.): 641.0 LOGGED (FT.): 988.0 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
175.0	BOND	CARTHAGE	LIMESTONE	15.0	466.0
-67.0	MODESTO	PIASA	LIMESTONE	11.0	708.0
-99.0	CARBONDALE	DANVILLE	COAL	3.0	740.0
-136.0	CARBONDALE	HERRIN	COAL	7.0	777.0
-153.0	CARBONDALE	SPRINGFIELD	COAL	6.0	794.0
-219.0	CARBONDALE	HOUCHIN CREEK	COAL	-	860.0

MAPID: 17300552000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 11N 2E SECTION: 30 QUARTERS/FOOTAGES: 827' N line, 1150' W line of SW

QUADRANGLE: OCONEE LONGITUDE: -89.021429 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.365665 DATE COLLECTED:

SURFACE ELEVATION (FT.): 643.0 LOGGED (FT.): 40.5 LOG TYPE: Company Sample Study

SOURCE: DIVISION OF WATERWAYS WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
643.0			UNCONSOLIDATED	18.6	0.0	
624.5	MATTOON		SILTSTONE	9.5	18.5	
615.0	MATTOON		SHALE	2.0	28.0	
613.0	MATTOON		LIMESTONE	2.0	30.0	
611.0	MATTOON		SHALE	1.3	32.0	
609.7	MATTOON		LIMESTONE	3.0	33.3	UNCERTAIN CORRELATION
606.7	MATTOON		SHALE	0.3	36.3	
606.5	MATTOON	SHELBYVILLE	COAL	1.3	36.5	
605.2	MATTOON		UNDERCLAY	1.5	37.8	
603.7			SHALE	1.3	39.3	

MAPID: 17301361000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 2E SECTION: 31 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: OCONEE LONGITUDE: -89.010703 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.34721 DATE COLLECTED:

SURFACE ELEVATION (FT.): 594.0 LOGGED (FT.): 816.0 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	
217.0	BOND	CARTHAGE	LIMESTONE	12.0	377.0	
-67.0	MODESTO	PIASA	LIMESTONE	-	661.0	
-95.0	CARBONDALE	DANVILLE	COAL	2.5	689.0	
-127.0	CARBONDALE	HERRIN	COAL	7.0	721.0	
-149.0	CARBONDALE	SPRINGFIELD	COAL	4.0	743.0	
-222.0	CARBONDALE	HOUCHIN CREEK	COAL	-	816.0	

MAPID: 17323612000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 11N 2E **SECTION:** 32 **QUARTERS/FOOTAGES:** SW SE SW
QUADRANGLE: OCONEE **LONGITUDE:** -89.003798 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.347322 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 800.1 **LOG TYPE:** Company map
SOURCE: CARTER OIL 4A-689 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&D MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	8.1	792.0	

MAPID: 17323613000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 11N 2E **SECTION:** 34 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.971217 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.360443 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 749.6 **LOG TYPE:** Company map
SOURCE: CARTER OIL WF-131 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	7.6	742.0	

MAPID: 17323614000C **VERSION:** 1 **PROJECT:** EIA-DOE
COUNTY: SHELBY **TWP/RNG:** 11N 2E **SECTION:** 36 **QUARTERS/FOOTAGES:** NE NW NW
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.932649 **GEOLOGIST:** E. PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 39.361187 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 798.5 **LOG TYPE:** Company map
SOURCE: CARTER OIL 4A-582 **WELL TYPE:** Coal Test
COMMENT: LOCATION,DATA FROM HERRICK A,B,C,D&E MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	HERRIN	COAL	8.5	790.0	

MAPID: 17300085000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 3E SECTION: 4 QUARTERS/FOOTAGES: SE SE SE
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.863418 GEOLOGIST: C TREWORYG
 CONFIDENTIAL: N LATITUDE: 39.421231 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 616.0 LOGGED (FT.): 763.0 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
156.0	BOND	CARTHAGE	LIMESTONE	9.0	460.0
-49.0	MODESTO	PIASA	LIMESTONE	18.0	665.0
-82.0	CARBONDALE	DANVILLE	COAL	2.0	698.0
-118.0	CARBONDALE	HERRIN	COAL	4.0	734.0
-141.0	CARBONDALE	SPRINGFIELD	COAL	6.0	757.0

MAPID: 17300085000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 3E SECTION: 4 QUARTERS/FOOTAGES: SE SE SE
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.863418 GEOLOGIST: TREWORYG,J
 CONFIDENTIAL: N LATITUDE: 39.421231 DATE COLLECTED: 0 / 0 / 1938
 SURFACE ELEVATION (FT.): 616.0 LOGGED (FT.): 763.0 LOG TYPE: Electric Log
 SOURCE: CLINT MILAN ET AL. WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
616.0			UNKNOWN	698.0	0.0
-82.0	CARBONDALE	DANVILLE	COAL	2.0	698.0
-84.0	CARBONDALE		ROCK	34.0	700.0
-118.0	CARBONDALE	HERRIN	COAL	4.0	734.0
-122.0	CARBONDALE		ROCK	19.0	738.0
-141.0	CARBONDALE	SPRINGFIELD	COAL	6.0	757.0

MAPID: 17300567000C **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 4 **QUARTERS/FOOTAGES:** SW SW NE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.870444 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.42841 **DATE COLLECTED:** 0 / 0 / 1946
SURFACE ELEVATION (FT.): 622.0 **LOGGED (FT.):** 150.0 **LOG TYPE:** Drillers Log
SOURCE: EARL BAKER & SONS **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
622.0			UNCONSOLIDATED	42.0	0.0
580.0			SHALE	41.0	42.0
539.0	MATTOON	SHELBYVILLE	COAL	2.0	83.0
537.0	MATTOON		ROCK	50.0	85.0
487.0	MATTOON	OCONEE	COAL	2.0	135.0
485.0			ROCK	13.0	137.0

MAPID: 17322244000C **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 9 **QUARTERS/FOOTAGES:** 50' S line, 1980' W line
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.873549 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.405838 **DATE COLLECTED:** 0 / 0 / 1960
SURFACE ELEVATION (FT.): 610.0 **LOGGED (FT.):** 74.5 **LOG TYPE:** Drillers Log
SOURCE: E. C. BAKER & SONS **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
610.0			UNCONSOLIDATED	24.0	0.0
586.0			ROCK	41.0	24.0
545.0	MATTOON	SHELBYVILLE	COAL	1.0	65.0
544.0			ROCK	8.5	66.0

MAPID: 17300345901M **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 13 **QUARTERS/FOOTAGES:** 500' S line, 1920' E line
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.81364 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.392588 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 605.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Measured section
SOURCE: MINE NOTES-ARCH TALLMAN C. C. # 2 **WELL TYPE:** Underground mine
COMMENT:

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

MAPID: 17300346001M **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 13 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.824394 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.391944 **DATE COLLECTED:** 0 / 0 / 1937
SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Measured section
SOURCE: MINE NOTES-J. G. ROOT & CO. # 3 **WELL TYPE:** Underground mine
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
590.0			UNKNOWN	68.0	0.0
522.0	MATTOON	SHELBYVILLE	COAL	1.8	68.0

MAPID: 17300346201M **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 13 **QUARTERS/FOOTAGES:** 2040' N line, 2040' E line
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.814227 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.399899 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 610.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Measured section
SOURCE: MINE NOTES-J. G. ROOT & CO # 1 **WELL TYPE:** Underground mine
COMMENT:

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

MAPID: 17300346101M **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 13 **QUARTERS/FOOTAGES:** NW SE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.813918 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.396579 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Measured section
SOURCE: MINE NOTES-J. G. ROOT & CO. # 2 **WELL TYPE:** Underground mine
COMMENT:

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

MAPID: 17300415501M **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 13 **QUARTERS/FOOTAGES:** SW SW NE SE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.810967 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.395275 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 608.0 **LOGGED (FT.):** 72.7 **LOG TYPE:** Measured section
SOURCE: MINE NOTES **WELL TYPE:** Underground mine
COMMENT: LOCATION QUESTIONABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
608.0			UNKNOWN	71.0	0.0	
537.0	MATTOON	SHELBYVILLE	COAL	1.7	71.0	

MAPID: 17300423101M **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 13 **QUARTERS/FOOTAGES:** SE SE NW SE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.812138 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.39526 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 69.0 **LOG TYPE:** Measured section
SOURCE: MINE NOTES-ARCH TALLMAN C. C. **WELL TYPE:** Underground mine
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0			UNKNOWN	67.0	0.0	
533.0	MATTOON	SHELBYVILLE	COAL	2.0	67.0	

MAPID: 173187A0003F **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 13 **QUARTERS/FOOTAGES:** SW SE SE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.810321 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.392152 **DATE COLLECTED:** 7 / 28 / 1957
SURFACE ELEVATION (FT.): 610.0 **LOGGED (FT.):** 71.8 **LOG TYPE:** Measured section
SOURCE: FLD NOTES-NEWTON **WELL TYPE:** Underground mine
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.0			UNCONSOLIDATED	30.0	0.0	
580.0			SANDSTONE	34.0	30.0	
546.0	MATTOON	SHELBYVILLE	COAL	1.8	64.0	
544.2			ROCK	6.0	65.8	

MAPID: 17300584000C VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 3E SECTION: 14 QUARTERS/FOOTAGES: 1350' N line, 1950' W line
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.836921 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 39.401749 DATE COLLECTED: 0 / 0 / 1937
 SURFACE ELEVATION (FT.): 605.0 LOGGED (FT.): 93.0 LOG TYPE: Drillers Log
 SOURCE: E. C. BAKER & SONS WELL TYPE: Water Well
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
605.0			UNCONSOLIDATED	45.0	0.0
560.0			ROCK	46.0	45.0
514.0	MATTOON	SHELBYVILLE	COAL	2.0	91.0

MAPID: 17300588000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 3E SECTION: 17 QUARTERS/FOOTAGES: SW SW NE
 QUADRANGLE: TOWER HILL LONGITUDE: -88.888799 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.399423 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 1016.0 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
190.0	BOND	CARTHAGE	LIMESTONE	10.0	430.0
-22.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	642.0
-71.0	CARBONDALE	DANVILLE	COAL	-	691.0

MAPID: 17301401000C VERSION: 1

PROJECT: CONF

COUNTY: SHELBY TWP/RNG: 11N 3E SECTION: 20 QUARTERS/FOOTAGES: 105' N line, 10' E line of SE NE
 QUADRANGLE: TOWER HILL LONGITUDE: -88.88075 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 39.387273 DATE COLLECTED: 7 / 1 / 1958
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 58.2 LOG TYPE: Drillers Log
 SOURCE: PEABODY COAL CO. C23 WELL TYPE: Coal Test
 COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
545.2	MATTOON	SHELBYVILLE	COAL	1.4	54.8

MAPID: 17300098000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.868004 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.388447 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 627.0 **LOGGED (FT.):** 1005.0 **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
212.0	BOND	CARTHAGE	LIMESTONE	11.0	415.0
11.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	616.0
-48.0	CARBONDALE	DANVILLE	COAL	2.0	675.0

MAPID: 17300098000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.868004 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.388447 **DATE COLLECTED:** 9 / 0 / 1942
SURFACE ELEVATION (FT.): 627.0 **LOGGED (FT.):** 1005.0 **LOG TYPE:** Electric Log
SOURCE: HARVEY H. SIMS **WELL TYPE:** Oil and Gas Test
COMMENT: CORRELATIONS BY C. TREWORGY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
627.0			UNKNOWN	675.0	0.0
-48.0	CARBONDALE	DANVILLE	COAL	2.0	675.0
-50.0	CARBONDALE		ROCK	328.0	677.0
-378.0	CARBONDALE	COLCHESTER	COAL	-	1005.0

MAPID: 17300098000C **VERSION:** 4 **PROJECT:** CONTROL
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.868004 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 39.388447 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 1938.0 **LOG TYPE:** Survey Sample Study
SOURCE: SIMS HARVEY H **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: 17300576000C **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 21 **QUARTERS/FOOTAGES:** NE NE NE SE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.862737 **GEOLOGIST:** TREWORYG,J
CONFIDENTIAL: N **LATITUDE:** 39.383472 **DATE COLLECTED:** 0 / 0 / 1947
SURFACE ELEVATION (FT.): 580.0 **LOGGED (FT.):** 94.0 **LOG TYPE:** Drillers Log
SOURCE: E. C. BAKER & SONS **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
580.0			UNCONSOLIDATED	40.0	0.0
540.0			ROCK	38.0	40.0
502.0	MATTOON	SHELBYVILLE	COAL	2.0	78.0
500.0			ROCK	14.0	80.0

MAPID: 17301296000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 21 **QUARTERS/FOOTAGES:** SE SE NE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.86333 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.384822 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 595.0 **LOGGED (FT.):** 990.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG, 5'LS@665

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
209.0	BOND	CARTHAGE	LIMESTONE	8.0	386.0
10.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	585.0
-51.0	CARBONDALE	DANVILLE	COAL	-	646.0

MAPID: 17301296000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 21 **QUARTERS/FOOTAGES:** SE SE NE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.86333 **GEOLOGIST:** TREWORYG,J
CONFIDENTIAL: N **LATITUDE:** 39.384822 **DATE COLLECTED:** 5 / 0 / 1962
SURFACE ELEVATION (FT.): 595.0 **LOGGED (FT.):** 990.0 **LOG TYPE:** Electric Log
SOURCE: NATIONAL ASSOC. PETROLEUM CO. **WELL TYPE:** Oil and Gas Test
COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
595.0			UNKNOWN	646.0	0.0
-51.0	CARBONDALE	DANVILLE	COAL	0.0	646.0
-51.0	CARBONDALE		ROCK	344.0	646.0
-395.0	CARBONDALE	COLCHESTER	COAL	-	990.0

MAPID: 173187A0008F **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 21 **QUARTERS/FOOTAGES:** NE NW SE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.867953 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.38302 **DATE COLLECTED:** 9 / 2 / 1949
SURFACE ELEVATION (FT.): 575.0 **LOGGED (FT.):** 10.2 **LOG TYPE:** Measured section
SOURCE: FLD NOTES-WILLIAMS & WILLIAMS **WELL TYPE:** Underground mine
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
575.0			ROCK	8.4	0.0
-	MATTOON	SHELBYVILLE	COAL	1.8	

MAPID: 173187A0007F **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 21 **QUARTERS/FOOTAGES:** NW SE SE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.865609 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.379413 **DATE COLLECTED:** 1 / 16 / 1942
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 4.3 **LOG TYPE:** Measured section
SOURCE: TAYLOR **WELL TYPE:** Underground mine
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			SANDSTONE	-	
-			BLACK SHALE	2.0	
-	MATTOON	SHELBYVILLE	COAL	2.3	

MAPID: 173187A0005F **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 21 **QUARTERS/FOOTAGES:** SW SE NE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.865646 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.384824 **DATE COLLECTED:** 8 / 8 / 1938
SURFACE ELEVATION (FT.): 620.0 **LOGGED (FT.):** 45.0 **LOG TYPE:** Measured section
SOURCE: FLD NOTES-NEWTON **WELL TYPE:** Underground mine
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
620.0			UNKNOWN	45.0	0.0
575.0	MATTOON	SHELBYVILLE	COAL	-	45.0

MAPID: 173187A0006F **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 21 **QUARTERS/FOOTAGES:** NW NW SE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.870272 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.383021 **DATE COLLECTED:** 8 / 8 / 1938
SURFACE ELEVATION (FT.): 610.0 **LOGGED (FT.):** 3.3 **LOG TYPE:** Measured section
SOURCE: FLD NOTES-NEWTON **WELL TYPE:** Outcrop
COMMENT: INFO. FROM LANDOWNER

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
610.0			UNCONSOLIDATED	-	0.0
-	MATTOON	SHELBYVILLE	COAL	3.3	
-			ROCK	-	

MAPID: 173187A0004F **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 21 **QUARTERS/FOOTAGES:** NW NE SE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.865633 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.383021 **DATE COLLECTED:** 8 / 8 / 1938
SURFACE ELEVATION (FT.): 615.0 **LOGGED (FT.):** 13.5 **LOG TYPE:** Measured section
SOURCE: FLD NOTES-NEWTON **WELL TYPE:** Outcrop
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
615.0			UNCONSOLIDATED	-	0.0
-			ROCK	6.1	
-	MATTOON	SHELBYVILLE	COAL	1.7	
-			ROCK	5.8	

MAPID: 17322083000C **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.860998 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.383015 **DATE COLLECTED:** 4 / 11 / 1976
SURFACE ELEVATION (FT.): 580.0 **LOGGED (FT.):** 23.0 **LOG TYPE:** Drillers Log
SOURCE: EUGENE BEASLEY **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
580.0			UNCONSOLIDATED	17.0	0.0
563.0			COAL	4.0	17.0
559.0			ROCK	2.0	21.0

MAPID: 17322382000C **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.861061 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.390218 **DATE COLLECTED:** 10 / 27 / 1977
SURFACE ELEVATION (FT.): 580.0 **LOGGED (FT.):** 26.0 **LOG TYPE:** Drillers Log
SOURCE: EUGENE BEASLEY **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
580.0			UNCONSOLIDATED	19.0	0.0
561.0	MATTOON		COAL	2.0	19.0
559.0			ROCK	5.0	21.0

MAPID: 17300346301M **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:** NE NE SE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.826504 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.382954 **DATE COLLECTED:** 0 / 0 / 1936
SURFACE ELEVATION (FT.): 580.0 **LOGGED (FT.):** 42.2 **LOG TYPE:** Measured section
SOURCE: MINE NOTES-JAMES CRUITT CO. # 1 **WELL TYPE:** Underground mine
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
580.0			UNKNOWN	40.0	0.0
540.0	MATTOON	SHELBYVILLE	COAL	2.2	40.0

MAPID: 17300346401M **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:** 400' S line, 650' E line of NE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.827723 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.384954 **DATE COLLECTED:** 0 / 0 / 1937
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 42.0 **LOG TYPE:** Measured section
SOURCE: MINE NOTES-HOMER DONELSON # 1 **WELL TYPE:** Underground mine
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
555.0			UNKNOWN	40.0	0.0
515.0	MATTOON	SHELBYVILLE	COAL	2.0	40.0

MAPID: 17300423201M **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:** NE SE NE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.826587 **GEOLOGIST:** TREWORY,J
CONFIDENTIAL: N **LATITUDE:** 39.386543 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 570.0 **LOGGED (FT.):** 40.0 **LOG TYPE:** Measured section
SOURCE: MINE NOTES-NESS & REEVES MINE **WELL TYPE:** Underground mine
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
570.0			UNKNOWN	38.0	0.0
532.0	MATTOON	SHELBYVILLE	COAL	2.0	38.0

MAPID: 17300600000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 24 **QUARTERS/FOOTAGES:** SW SW NW
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.824235 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.38476 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 601.0 **LOGGED (FT.):** 1042.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG, 5'LS@710

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
177.0	BOND	CARTHAGE	LIMESTONE	9.0	424.0
-13.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	614.0
-95.0	CARBONDALE	DANVILLE	COAL	-	696.0

MAPID: 17300600000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 24 **QUARTERS/FOOTAGES:** SW SW NW
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.824235 **GEOLOGIST:** TREWORYG,J
CONFIDENTIAL: N **LATITUDE:** 39.38476 **DATE COLLECTED:** 5 / 0 / 1951
SURFACE ELEVATION (FT.): 601.0 **LOGGED (FT.):** 1042.0 **LOG TYPE:** Electric Log
SOURCE: TEXAS COMPANY, THE **WELL TYPE:** Oil and Gas Test
COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
601.0			UNKNOWN	696.0	0.0
-95.0	CARBONDALE	DANVILLE	COAL	-	696.0
-95.0	CARBONDALE		ROCK	346.0	696.0
-441.0	CARBONDALE	COLCHESTER	COAL	-	1042.0

MAPID: 17300608000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 31 **QUARTERS/FOOTAGES:** NW NE SE
QUADRANGLE: LAKEWOOD **LONGITUDE:** -88.902257 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.354121 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 614.0 **LOGGED (FT.):** 759.5 **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
162.0	BOND	CARTHAGE	LIMESTONE	13.0	452.0
-143.0	CARBONDALE	DANVILLE	COAL	2.5	757.0

MAPID: 17301403000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 11N 3E **SECTION:** 33 **QUARTERS/FOOTAGES:** 27' N line, 335' E line of NW
QUADRANGLE: FANCHER **LONGITUDE:** -88.872506 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.36215 **DATE COLLECTED:** 7 / 1 / 1958
SURFACE ELEVATION (FT.): 598.0 **LOGGED (FT.):** 63.7 **LOG TYPE:** Drillers Log
SOURCE: PEABODY COAL CO. C24 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
538.1	MATTOON	SHELBYVILLE	COAL	1.8	59.9

MAPID: 17300622000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 11N 4E **SECTION:** 2 **QUARTERS/FOOTAGES:** SW SW NW
QUADRANGLE: MIDDLESWORTH **LONGITUDE:** -88.73258 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.427675 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 1009.0 **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
119.0	BOND	CARTHAGE	LIMESTONE	10.0	481.0
16.0	MODESTO	TRIVOLI	SANDSTONE	32.0	584.0
-52.0	MODESTO	WEST FRANKLIN	LIMESTONE	21.0	652.0
-154.0	CARBONDALE	DANVILLE	COAL	-	754.0
-252.0	CARBONDALE	HERRIN	COAL	6.0	852.0
-308.0	CARBONDALE	HOUCHIN CREEK	COAL	-	908.0

MAPID: 17300622000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 2 QUARTERS/FOOTAGES: SW SW NW

QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.73258 GEOLOGIST: TREWORY,J

CONFIDENTIAL: N LATITUDE: 39.427675 DATE COLLECTED: 2 / 0 / 1948

SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 1009.0 LOG TYPE: Electric Log

SOURCE: J. W. REYNOLDS WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0			UNKNOWN	754.0	0.0	
-154.0	CARBONDALE	DANVILLE	COAL	-	754.0	
-154.0	CARBONDALE		ROCK	98.0	754.0	
-252.0	CARBONDALE	HERRIN	COAL	6.0	852.0	
-258.0	CARBONDALE		ROCK	50.0	858.0	
-308.0	CARBONDALE	HOUCHIN CREEK	COAL	-	908.0	
-308.0	CARBONDALE		ROCK	101.0	908.0	
-409.0	CARBONDALE	COLCHESTER	COAL	-	1009.0	

MAPID: 173187A0009F VERSION: 1

PROJECT: BLM

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

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.769553 GEOLOGIST: TREWORY,J

CONFIDENTIAL: N LATITUDE: 39.420779 DATE COLLECTED: 10 / 9 / 1931

SURFACE ELEVATION (FT.): 558.0 LOGGED (FT.): 75.0 LOG TYPE: Measured section

SOURCE: FLD NOTES-EKBLAW WELL TYPE: Underground mine

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
558.0			UNKNOWN	75.0	0.0	
483.0	MATTOON	SHELBYVILLE	COAL	-	75.0	

MAPID: 17300072001M VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 5 QUARTERS/FOOTAGES: 810' S line, 50' E line
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.770909 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 39.422118 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 560.0 LOGGED (FT.): 98.3 LOG TYPE: Measured section
 SOURCE: MINE NOTES-AULD & CURTIS-RIVERDALE WELL TYPE: Underground mine
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.0			UNCONSOLIDATED	50.0	0.0	
510.0			LIMESTONE	4.0	50.0	
506.0			SHALE	32.0	54.0	
474.0				6.0	86.0	
468.0	MATTOON	SHELBYVILLE	COAL	1.8	92.0	
466.3			UNDERCLAY	4.5	93.7	

MAPID: 17300072002M VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 5 QUARTERS/FOOTAGES:
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.780232 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 39.427258 DATE COLLECTED: 5 / 23 / 1930
 SURFACE ELEVATION (FT.): LOGGED (FT.): 1.7 LOG TYPE: Measured section
 SOURCE: MINE NOTES-AULD & CURTIS-RIVERDALE WELL TYPE: Underground mine
 COMMENT: 3RD RM. E FROM MAIN W ENTRY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			SHALE	-		
-	MATTOON	SHELBYVILLE	COAL	1.7		
-			UNDERCLAY	-		

MAPID: 17300630000C VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 5 QUARTERS/FOOTAGES:
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.780232 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 39.427258 DATE COLLECTED: 0 / 0 / 1943
 SURFACE ELEVATION (FT.): LOGGED (FT.): 50.0 LOG TYPE: Drillers Log
 SOURCE: E. C. BAKER & SONS WELL TYPE: Water Well
 COMMENT: 300' S, 215' E OF GOV'T. TEST HOLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	35.0	0.0	
-			ROCK	11.0	35.0	
-	MATTOON		COAL	2.0	46.0	
-			ROCK	2.0	48.0	

MAPID: 173187A0010F VERSION: 1

PROJECT: BLM

COUNTY: SHELBY

TWP/RNG: 11N 4E

SECTION: 5

QUARTERS/FOOTAGES: SE NE SE

QUADRANGLE: SHELBYVILLE

LONGITUDE: -88.771953

GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N

LATITUDE: 39.424452

DATE COLLECTED: 10 / 9 / 1931

SURFACE ELEVATION (FT.): 570.0

LOGGED (FT.): 86.0

LOG TYPE: Measured section

SOURCE: FLD NOTES-EKBLAW

WELL TYPE: Underground mine

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
570.0			UNKNOWN	86.0	0.0
484.0	MATTOON	SHELBYVILLE	COAL	-	86.0

MAPID: 17301708000C VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 7 QUARTERS/FOOTAGES:

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.798202

GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.412767

DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 854.2

LOG TYPE: Drillers Log

SOURCE: SULLIVAN MACHINE CO

WELL TYPE: Water Well

COMMENT: TOWN OF SHELBYVILLE-LOCATION UNCERTAIN

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			UNCONSOLIDATED	27.5	0.0
-			ROCK	59.5	27.5
-	MATTOON	SHELBYVILLE	COAL	1.2	87.0
-			ROCK	57.4	88.2
-			COAL	1.4	145.6
-			ROCK	27.5	147.0
-			COAL	0.5	174.5
-			ROCK	39.4	175.0
-			COAL	1.2	214.4
-			ROCK	54.6	215.6
-			COAL	0.1	270.2
-			ROCK	72.6	270.2
-			COAL	0.8	342.8
-			ROCK	47.8	343.6
-			COAL	0.8	391.4
-			ROCK	151.3	392.2
-			COAL	0.7	543.5
-			ROCK	83.3	544.2
-			COAL	0.8	627.5
-			ROCK	116.0	628.3
-			BLACK SHALE	5.0	744.3
-			SHALE	5.0	749.3
-			CALCAREOUS SHALE	4.0	754.3
-			SHALE	12.7	758.3
-	CARBONDALE	DANVILLE	COAL	4.0	770.9
-	CARBONDALE		UNDERCLAY	4.3	774.9
-	CARBONDALE		SHALE	2.5	779.3
-	CARBONDALE		BLACK SHALE	1.3	781.8
-	CARBONDALE		COAL	0.9	783.1
-	CARBONDALE		SHALE	0.5	784.0
-	CARBONDALE		COAL	0.5	784.5
-	CARBONDALE		SHALE	2.0	785.0
-	CARBONDALE		LIMESTONE	15.9	787.0
-	CARBONDALE		BLACK SHALE	2.3	802.9
-	CARBONDALE	HERRIN	COAL	3.3	805.3
-	CARBONDALE		SHALE	4.8	808.5
-			COAL	1.9	813.3
-			COAL WITH SHALE	15.3	815.2
-			COAL	3.3	830.5

-	COAL WITH SHALE	2.3	833.8
-	ROCK	18.0	836.2

MAPID: 17300346801M **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 4E **SECTION:** 8 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.788006 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.406453 **DATE COLLECTED:** 0 / 0 / 1936
SURFACE ELEVATION (FT.): 610.0 **LOGGED (FT.):** 72.8 **LOG TYPE:** Measured section
SOURCE: MINE NOTES-ARCH TALLMAN # 3 **WELL TYPE:** Underground mine
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
610.0			UNKNOWN	71.0	0.0
539.0	MATTOON	SHELBYVILLE	COAL	1.8	71.0

MAPID: 17300346901M **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 4E **SECTION:** 8 **QUARTERS/FOOTAGES:** NW SE NE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.774096 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.415397 **DATE COLLECTED:** 0 / 0 / 1936
SURFACE ELEVATION (FT.): 570.0 **LOGGED (FT.):** 76.8 **LOG TYPE:** Measured section
SOURCE: MINE NOTES-ARCH TALLMAN # 1 **WELL TYPE:** Underground mine
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
570.0			UNKNOWN	75.0	0.0
495.0	MATTOON	SHELBYVILLE	COAL	1.8	75.0

MAPID: 17300639000C **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 4E **SECTION:** 8 **QUARTERS/FOOTAGES:** 2400' S line, 650' E line
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.772806 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.412098 **DATE COLLECTED:** 0 / 0 / 1941
SURFACE ELEVATION (FT.): 562.0 **LOGGED (FT.):** 116.0 **LOG TYPE:** Survey Core Study
SOURCE: U.S. CORPS OF ENGINEERS **WELL TYPE:** Engineering Test Holes
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
562.0			UNKNOWN	8.9	0.0
553.1			ROCK	51.7	8.9
501.4	MATTOON	SHELBYVILLE	COAL	1.3	60.6
500.1			ROCK	54.1	61.9

MAPID: 17300641000C VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 2950' S line, 925' E line
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.773823 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 39.41362 DATE COLLECTED: 0 / 0 / 1941
 SURFACE ELEVATION (FT.): 570.0 LOGGED (FT.): 91.5 LOG TYPE: Survey Core Study
 SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Engineering Test Holes
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
570.0			UNCONSOLIDATED	11.8	0.0
558.2			ROCK	53.6	11.8
504.6	MATTOON	SHELBYVILLE	COAL	1.5	65.4
503.1			ROCK	24.6	66.9

MAPID: 17300642000C VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 2650' S line, 1800' E line
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.776916 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 39.412808 DATE COLLECTED: 0 / 0 / 1941
 SURFACE ELEVATION (FT.): 590.0 LOGGED (FT.): 100.5 LOG TYPE: Survey Core Study
 SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Engineering Test Holes
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
590.0			UNCONSOLIDATED	29.0	0.0
561.0			ROCK	47.6	29.0
513.4	MATTOON	SHELBYVILLE	COAL	1.3	76.6
512.1			ROCK	22.6	77.9

MAPID: 17300647000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 800' S line, 1200' E line
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.774656 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.40769 DATE COLLECTED: 0 / 0 / 1941
 SURFACE ELEVATION (FT.): 653.5 LOGGED (FT.): 169.2 LOG TYPE: Other Core Study
 SOURCE: U.S. ENGINEERING DEPT. WELL TYPE: Engineering Test Holes
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
653.5			UNCONSOLIDATED	104.1	0.0
549.4	MATTOON		SANDSTONE	10.3	104.1
539.1	MATTOON		DARK SHALE	39.4	114.4
499.7	MATTOON	SHELBYVILLE	COAL	1.6	153.8
498.1	MATTOON		SHALE	12.3	155.4
485.8	MATTOON		SANDSTONE	2.0	167.7

MAPID: 17300647000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 800' S line, 1200' E line

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.774656 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.40769 DATE COLLECTED: 0 / 0 / 1941

SURFACE ELEVATION (FT.): 654.0 LOGGED (FT.): 169.7 LOG TYPE: Survey Core Study

SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
654.0			UNKNOWN	90.6	0.0
563.4			ROCK	62.5	90.6
500.9			COAL	1.6	153.1
499.3			ROCK	15.0	154.7

MAPID: 17300648000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 1000' S line, 1300' E line

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.775024 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.408245 DATE COLLECTED:

SURFACE ELEVATION (FT.): 568.6 LOGGED (FT.): 174.9 LOG TYPE: Other Core Study

SOURCE: U.S. ENGINEERING DEPT. WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
568.6			UNCONSOLIDATED	8.8	0.0
559.8	MATTOON		GRAY SHALE	5.0	8.8
554.8	MATTOON		DARK SHALE	1.8	13.8
553.0	MATTOON		SANDY SHALE	4.9	15.6
548.1	MATTOON		SANDSTONE	11.2	20.5
536.9	MATTOON		DARK SHALE	33.5	31.7
503.4	MATTOON		GRAY SHALE	2.2	65.2
501.2	MATTOON	SHELBYVILLE	COAL	2.4	67.4
498.8	MATTOON		GRAY SHALE	6.9	69.8
491.9			DARK SHALE	1.3	76.7
490.6			SANDSTONE	9.3	78.0
481.3			DARK SHALE	37.5	87.3
443.8			SHALE	3.8	124.8
440.0			COAL	1.2	128.6
438.8			DARK SHALE	4.7	129.8
434.1			SANDSTONE	0.6	134.5
433.5			DARK SHALE	8.6	135.1
424.9			SANDSTONE	0.5	143.7
424.4			DARK SHALE	8.0	144.2
416.4			SANDSTONE/SHALE	2.1	152.2
414.3			COAL	1.0	154.3
413.3			SHALE	3.6	155.3
409.7			SANDSTONE	8.0	158.9
401.7			SHALE	8.0	166.9

MAPID: 17300648000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 1000' S line, 1300' E line

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.775024 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.408245 DATE COLLECTED: 0 / 0 / 1941

SURFACE ELEVATION (FT.): 569.0 LOGGED (FT.): 174.7 LOG TYPE: Survey Core Study

SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
569.0			UNKNOWN	15.6	0.0
553.4			ROCK	51.9	15.6
501.6	MATTOON	SHELBYVILLE	COAL	2.8	67.4
498.7			ROCK	56.9	70.3
441.9			COAL	1.7	127.1
440.2			ROCK	25.0	128.8
415.2			COAL	0.9	153.8
414.3			ROCK	20.0	154.7

MAPID: 17300650000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 1450' S line, 2000' E line

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.777545 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.4095 DATE COLLECTED: 0 / 0 / 1941

SURFACE ELEVATION (FT.): 558.3 LOGGED (FT.): 124.2 LOG TYPE: Other Core Study

SOURCE: U.S. ENGINEERING DEPT. WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
558.3			UNCONSOLIDATED	20.0	0.0
538.3	MATTOON		GRAY SHALE	18.5	20.0
519.8	MATTOON		BLACK SHALE	6.0	38.5
513.8	MATTOON		GRAY SHALE	7.7	44.5
506.1	MATTOON	SHELBYVILLE	COAL	2.0	52.2
504.1	MATTOON		GRAY SHALE	4.2	54.2
499.9	MATTOON		SANDY SHALE	10.3	58.4
489.6	MATTOON		GRAY SHALE	40.8	68.7
448.8	MATTOON		BLACK SHALE	5.0	109.5
443.8	MATTOON		COAL	1.1	114.5
442.7	MATTOON		SANDSTONE	7.6	115.6
435.1	MATTOON		SANDSTONE/SHALE	1.0	123.2

MAPID: 17300651000C VERSION: 1

PROJECT: ISGS88

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 1750' S line, 2100' E line

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.77792 GEOLOGIST: SROKA

CONFIDENTIAL: N LATITUDE: 39.41033 DATE COLLECTED: 0 / 0 / 1941

SURFACE ELEVATION (FT.): 586.5 LOGGED (FT.): 110.5 LOG TYPE: Survey Sample Study

SOURCE: U.S. ARMY CORPS OF ENGINEERS WELL TYPE: Coal Test

COMMENT: CORE DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
586.5			UNCONSOLIDATED	22.5	0.0	
564.0	MATTOON		SANDSTONE	1.6	22.5	
562.4	MATTOON		SHALE	0.7	24.1	
561.7	MATTOON		SILTSTONE	4.1	24.8	
557.6	MATTOON		SHALE	14.1	28.9	
543.5	MATTOON		CORE LOSS	2.4	43.0	
541.1	MATTOON		SHALE	5.7	45.4	
535.4	MATTOON		CORE LOSS	2.6	51.1	
532.8	MATTOON		SHALE	6.8	53.7	
526.0	MATTOON		CORE LOSS	4.0	60.5	
522.0	MATTOON		SHALE	6.4	64.5	
515.6	MATTOON		BLACK SHALE	0.2	70.9	
515.4	MATTOON		CORE LOSS	0.8	71.1	
514.6	MATTOON	SHELBYVILLE	CAVITY	4.1	71.9	REPRESENTED BY MINE CAVITY AND CORE LOSS
510.5	MATTOON		UNCONSOLIDATED	0.9	76.0	
509.6	MATTOON		CLAYSTONE & SILTSTONE	3.0	76.9	
506.6	MATTOON		SANDSTONE	2.0	79.9	MICACEOUS
504.6	MATTOON		CORE LOSS	5.4	81.9	
499.2	MATTOON		SANDSTONE	2.3	87.3	MICACEOUS
496.9	MATTOON		CORE LOSS	0.7	89.6	
496.2	MATTOON		SANDSTONE	0.9	90.3	
495.3	MATTOON		SHALE	7.0	91.2	SILTY SH
488.3	MATTOON		CORE LOSS	1.9	98.2	
486.4	MATTOON		SHALE	10.4	100.1	

MAPID: 17300653000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 2150' S line, 2400' E line

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.779016 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.411438 DATE COLLECTED: 0 / 0 / 1941

SURFACE ELEVATION (FT.): 620.5 LOGGED (FT.): 127.2 LOG TYPE: Other Core Study

SOURCE: U.S. ENGINEERING DEPT. WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
620.5			UNCONSOLIDATED	57.1	0.0
563.4	MATTOON		SANDSTONE	13.9	57.1
549.5	MATTOON		GRAY SHALE	4.4	71.0
545.1	MATTOON		BLACK SHALE	24.1	75.4
521.0	MATTOON		DARK SHALE	6.3	99.5
514.7	MATTOON	SHELBYVILLE	COAL	1.4	105.8
513.3	MATTOON		GRAY SHALE	7.0	107.2
506.3	MATTOON		SANDSTONE	8.8	114.2
497.5	MATTOON		DARK SHALE	0.3	123.0
497.2	MATTOON		SANDSTONE	3.9	123.3

MAPID: 17300653000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 2150' S line, 2400' E line

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.779016 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.411438 DATE COLLECTED: 0 / 0 / 1941

SURFACE ELEVATION (FT.): 621.0 LOGGED (FT.): 127.2 LOG TYPE: Survey Core Study

SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
621.0			UNCONSOLIDATED	57.1	0.0
563.9			ROCK	48.7	57.1
515.2	MATTOON	SHELBYVILLE	COAL	1.4	105.8
513.8			ROCK	0.0	107.2

MAPID: 17300654000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 1650' S line, 1700' E line

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.776493 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.410045 DATE COLLECTED: 0 / 0 / 1941

SURFACE ELEVATION (FT.): 553.7 LOGGED (FT.): 54.1 LOG TYPE: Other Core Study

SOURCE: U.S. ENGINEERING DEPT. WELL TYPE: Engineering Test Holes

COMMENT: MANY MORE SIMILAR NEARBY CORES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
553.7			UNCONSOLIDATED	13.6	0.0
540.1	MATTOON		GRAY SHALE	32.5	13.6
507.6	MATTOON	SHELBYVILLE	COAL	1.2	46.1
506.4	MATTOON		GRAY SHALE	6.8	47.3

MAPID: 17301284000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 230' N line, 205' E line of SE SW

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.780544 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.408486 DATE COLLECTED: 0 / 0 / 1965

SURFACE ELEVATION (FT.): 592.0 LOGGED (FT.): 84.0 LOG TYPE: Drillers Log

SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Diamond Drill

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
592.0			UNCONSOLIDATED	41.0	0.0
551.0	MATTOON		SILTSTONE	3.0	41.0
548.0	MATTOON		SHALE	14.0	44.0
533.9	MATTOON		CORE LOSS	0.2	58.1
533.7	MATTOON		SHALE	12.9	58.3
520.8	MATTOON	SHELBYVILLE	CAVITY	7.0	71.2
513.9	MATTOON		SHALE	3.0	78.1
510.9	MATTOON		CLAYSTONE & SILTSTONE	2.3	81.1
508.6	MATTOON		SILTSTONE	0.6	83.4

MAPID: 17301285000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 670' N line, 990' W line of SW SE

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.776265

GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.407247

DATE COLLECTED: 0 / 0 / 1965

SURFACE ELEVATION (FT.): 622.4

LOGGED (FT.): 136.5

LOG TYPE: Drillers Log

SOURCE: U.S. CORPS OF ENGINEERS

WELL TYPE: Diamond Drill

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
622.4			UNCONSOLIDATED	65.0	0.0
557.4	MATTOON		CLAYSTONE & SILTSTONE	4.7	65.0
552.7	MATTOON		SHALE	16.1	69.7
536.6	MATTOON		CORE LOSS	1.1	85.8
535.5	MATTOON		SHALE	31.6	86.9
503.9	MATTOON		BLACK SHALE	1.1	118.5
502.9	MATTOON	SHELBYVILLE	COAL	2.2	119.5
500.7	MATTOON		CLAYSTONE & SILTSTONE	1.2	121.7
499.6	MATTOON		SHALE	13.7	122.8

MAPID: 17301285000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 670' N line, 990' W line of SW SE

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.776265

GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.407247

DATE COLLECTED: 0 / 0 / 1965

SURFACE ELEVATION (FT.): 622.0

LOGGED (FT.): 136.5

LOG TYPE: Survey Core Study

SOURCE: U.S. CORPS OF ENGINEERS

WELL TYPE: Engineering Test Holes

COMMENT: NUMEROUS OTHER CORES IN THIS AREA

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
622.0			UNKNOWN	65.0	0.0
557.0			ROCK	54.5	65.0
502.5	MATTOON	SHELBYVILLE	COAL	2.2	119.5
500.3			ROCK	14.9	121.7

MAPID: 17301327000C VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 24' N line, 300' E line of NE SW
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.780971 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 39.412668 DATE COLLECTED: 10 / 9 / 1963
 SURFACE ELEVATION (FT.): 607.0 LOGGED (FT.): 90.5 LOG TYPE: Survey Core Study
 SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Engineering Test Holes
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
607.0			UNKNOWN	41.8	0.0	
565.2			ROCK	45.8	41.8	
519.4	MATTOON	SHELBYVILLE	COAL	1.9	87.6	
517.5			ROCK	1.0	89.5	

MAPID: 17301367000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 230' S line, 745' E line of NE SW
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.782492 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.409767 DATE COLLECTED: 0 / 0 / 1965
 SURFACE ELEVATION (FT.): 609.6 LOGGED (FT.): 99.9 LOG TYPE: Drillers Log
 SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Diamond Drill
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
609.6			UNCONSOLIDATED	38.8	0.0	
570.8	MATTOON		SHALE	19.8	38.8	
551.0	MATTOON		SHALE	28.6	58.6	
522.4	MATTOON		LIMESTONE	1.2	87.2	UNCERTAIN CORRELATION
521.2	MATTOON	SHELBYVILLE	COAL	2.0	88.4	
519.2	MATTOON		SHALE	1.3	90.4	
517.9	MATTOON		CLAYSTONE & SILTSTONE	1.2	91.7	
516.7	MATTOON		CLAYSTONE & SILTSTONE	2.2	92.9	
514.5	MATTOON		SANDSTONE	4.8	95.1	

MAPID: 17301367000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 230' S line, 745' E line of NE SW

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.782492 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.409767 DATE COLLECTED: 0 / 0 / 1965

SURFACE ELEVATION (FT.): 610.0 LOGGED (FT.): 99.9 LOG TYPE: Survey Core Study

SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
610.0			UNKNOWN	38.8	0.0
571.2			ROCK	49.6	38.8
521.6	MATTOON	SHELBYVILLE	COAL	2.0	88.4
519.6			ROCK	9.5	90.4

MAPID: 17301368000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 166' S line, 365' E line of NE SW

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.781134 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.409582 DATE COLLECTED: 0 / 0 / 1965

SURFACE ELEVATION (FT.): 598.1 LOGGED (FT.): 80.9 LOG TYPE: Drillers Log

SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Diamond Drill

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
598.1			UNCONSOLIDATED	41.0	0.0
557.1	MATTOON		SILTSTONE	0.7	41.0
556.4	MATTOON		SANDSTONE	0.9	41.7
555.5	MATTOON		SHALE	36.5	42.6
519.0	MATTOON		BLACK SHALE	0.8	79.1
518.2	MATTOON	SHELBYVILLE	COAL	0.1	79.9
518.1	MATTOON		CLAYSTONE & SILTSTONE	0.9	80.0
517.2	MATTOON		UNCLASSIFIED	0.0	80.9

MAPID: 17301368000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 166' S line, 365' E line of NE SW

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.781134 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.409582 DATE COLLECTED: 0 / 0 / 1965

SURFACE ELEVATION (FT.): 598.0 LOGGED (FT.): 80.9 LOG TYPE: Survey Core Study

SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
598.0			UNKNOWN	41.0	0.0
557.0			ROCK	38.9	41.0
518.1	MATTOON	SHELBYVILLE	COAL	0.1	79.9
518.0			ROCK	0.9	80.0

MAPID: 17301369000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 152' N line, 222' E line of SE SW

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.780606 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.408701 DATE COLLECTED: 0 / 0 / 1965

SURFACE ELEVATION (FT.): 567.9 LOGGED (FT.): 75.9 LOG TYPE: Other Core Study

SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
567.9			UNCONSOLIDATED	9.0	0.0
558.9	MATTOON		SILTSTONE	0.3	9.0
558.6	MATTOON		SHALE	4.5	9.3
554.1	MATTOON		SILTSTONE	1.1	13.8
553.0	MATTOON		SHALE	12.9	14.9
540.2	MATTOON		CORE LOSS	3.6	27.7
536.6	MATTOON		SHALE	2.7	31.3
533.9	MATTOON		CORE LOSS	2.4	34.0
531.5	MATTOON		SHALE	2.1	36.4
529.4	MATTOON		CORE LOSS	5.0	38.5
524.4	MATTOON		SHALE	0.5	43.5
523.9	MATTOON		CORE LOSS	2.3	44.0
521.6	MATTOON		SHALE	1.9	46.3
519.7	MATTOON		CORE LOSS	2.4	48.2
517.3	MATTOON		SHALE	0.7	50.6
516.6	MATTOON	SHELBYVILLE	COAL	0.4	51.3
516.2	MATTOON	SHELBYVILLE	BLACK SHALE	0.4	51.7
515.8	MATTOON	SHELBYVILLE	COAL	1.0	52.1
514.8	MATTOON		UNDERCLAY	0.7	53.1
514.1	MATTOON		CLAYSTONE & SILTSTONE	2.5	53.8
511.6	MATTOON		CORE LOSS	1.6	56.3
510.0	MATTOON		CLAYSTONE & SILTSTONE	0.8	57.9
509.2	MATTOON		CORE LOSS	2.4	58.7
506.8	MATTOON		SANDSTONE	0.2	61.1
506.6	MATTOON		CORE LOSS	3.7	61.3
502.9	MATTOON		SANDSTONE	5.8	65.0
497.1	MATTOON		CORE LOSS	4.5	70.8
492.6	MATTOON		SHALE	0.6	75.3

MAPID: 17301369000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 152' N line, 222' E line of SE SW

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.780606 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.408701 DATE COLLECTED: 0 / 0 / 1965

SURFACE ELEVATION (FT.): 568.0 LOGGED (FT.): 75.9 LOG TYPE: Survey Core Study

SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
568.0			UNKNOWN	9.0	0.0
559.0			ROCK	42.3	9.0
516.7	MATTOON	SHELBYVILLE	COAL	1.8	51.3
514.9			ROCK	22.8	53.1

MAPID: 17301370000C VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 149' N line, 165' E line of SE SW

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.780407 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.408708 DATE COLLECTED: 0 / 0 / 1965

SURFACE ELEVATION (FT.): 562.0 LOGGED (FT.): 70.5 LOG TYPE: Survey Core Study

SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Engineering Test Holes

COMMENT: NUMEROUS OTHER CORES IN THIS AREA

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
562.0			UNKNOWN	10.5	0.0
551.5			ROCK	35.9	10.5
515.6	MATTOON	SHELBYVILLE	COAL	1.4	46.4
514.2			UNKNOWN	2.2	47.8
512.0			ROCK	20.5	50.0

MAPID: 17301371000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 35' N line, 213' E line of SE SW

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.780581

GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.409024

DATE COLLECTED: 0 / 0 / 1965

SURFACE ELEVATION (FT.): 592.0

LOGGED (FT.): 85.7

LOG TYPE: Drillers Log

SOURCE: U.S. CORPS OF ENGINEERS

WELL TYPE: Diamond Drill

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
592.0			UNCONSOLIDATED	40.7	0.0
551.3	MATTOON		SHALE	0.7	40.7
550.6	MATTOON		SILTSTONE	0.3	41.4
550.3	MATTOON		SHALE	33.9	41.7
516.4	MATTOON	SHELBYVILLE	COAL	1.4	75.6
515.0	MATTOON		CLAYSTONE & SILTSTONE	2.8	77.0
512.2	MATTOON		SHALE	3.7	79.8
508.5	MATTOON		SANDSTONE	2.2	83.5
506.3	MATTOON		UNCLASSIFIED	0.0	85.7

MAPID: 17301371000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 35' N line, 213' E line of SE SW

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.780581

GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.409024

DATE COLLECTED: 0 / 0 / 1965

SURFACE ELEVATION (FT.): 592.0

LOGGED (FT.): 85.7

LOG TYPE: Survey Core Study

SOURCE: U.S. CORPS OF ENGINEERS

WELL TYPE: Engineering Test Holes

COMMENT: NUMEROUS OTHER CORES IN THIS AREA

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
592.0			UNKNOWN	40.7	0.0
551.3			ROCK	34.9	40.7
516.4	MATTOON	SHELBYVILLE	COAL	1.4	75.6
515.0			ROCK	8.7	77.0

MAPID: 17301372000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 93' S line, 340' E line of NE SW

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.781044 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.40938 DATE COLLECTED:

SURFACE ELEVATION (FT.): 598.5 LOGGED (FT.): 91.4 LOG TYPE: Drillers Log

SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Diamond Drill

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
598.5			UNCONSOLIDATED	41.0	0.0
557.5	MATTOON		SILTSTONE	0.4	41.0
557.1	MATTOON		SANDSTONE	0.2	41.4
556.9	MATTOON		SILTSTONE	3.5	41.6
553.4	MATTOON		SHALE	33.8	45.1
519.6	MATTOON	SHELBYVILLE	COAL	2.0	78.9
517.6	MATTOON		CLAYSTONE & SILTSTONE	8.2	80.9
509.4	MATTOON		SANDSTONE	2.3	89.1
507.1	MATTOON		UNCLASSIFIED	0.0	91.4

MAPID: 17301372000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 93' S line, 340' E line of NE SW

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.781044 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.40938 DATE COLLECTED: 0 / 0 / 1965

SURFACE ELEVATION (FT.): 599.0 LOGGED (FT.): 91.4 LOG TYPE: Survey Core Study

SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Engineering Test Holes

COMMENT: NUMEROUS OTHER CORES IN THIS AREA

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
599.0			UNKNOWN	41.0	0.0
558.0			ROCK	38.0	41.0
520.0	MATTOON	SHELBYVILLE	COAL	1.9	79.0
518.1			ROCK	10.5	80.9

MAPID: 17301373000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 482' N line, 410' E line of SE SW

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.781256 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.407794 DATE COLLECTED:

SURFACE ELEVATION (FT.): 546.2 LOGGED (FT.): 44.1 LOG TYPE: Other Core Study

SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
546.2			UNCONSOLIDATED	21.8	0.0	
524.4	MATTOON		GRAY SHALE	7.1	21.8	
517.3	MATTOON	SHELBYVILLE	COAL	2.1	28.9	
515.2	MATTOON		CLAYSTONE & SILTSTONE	7.0	31.0	
508.2	MATTOON		SANDSTONE	6.1	38.0	

MAPID: 17301373000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 482' N line, 410' E line of SE SW

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.781256 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.407794 DATE COLLECTED: 0 / 0 / 1965

SURFACE ELEVATION (FT.): 546.0 LOGGED (FT.): 44.1 LOG TYPE: Survey Core Study

SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
546.0			UNKNOWN	21.8	0.0	
524.2			ROCK	7.1	21.8	
517.1	MATTOON	SHELBYVILLE	COAL	2.1	28.9	
515.0			ROCK	13.1	31.0	

MAPID: 173187A0001F VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 8 QUARTERS/FOOTAGES: 1100' S line, 2250' W line

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.781216 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.408551 DATE COLLECTED: 5 / 6 / 1967

SURFACE ELEVATION (FT.): 522.0 LOGGED (FT.): 1.9 LOG TYPE: Measured section

SOURCE: MINE NOTES-SHELBYVILLE DAM EXCAVATION WELL TYPE: Outcrop

COMMENT: SAMPLE # C14512, C14514

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			SHALE	-		
-			COAL	1.9		

MAPID: 173187A0002F **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 4E **SECTION:** 8 **QUARTERS/FOOTAGES:** 1150' S line, 2500' E line
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.779304 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.40868 **DATE COLLECTED:** 5 / 6 / 1967
SURFACE ELEVATION (FT.): 516.0 **LOGGED (FT.):** 1.7 **LOG TYPE:** Measured section
SOURCE: MINE NOTES-SHELBYVILLE DAM EXCAVATION **WELL TYPE:** Outcrop
COMMENT: SAMPLE # C14513, C14514

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			SHALE	-	
-	MATTOON	SHELBYVILLE	COAL	1.7	

MAPID: 173187A0018F **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 4E **SECTION:** 8 **QUARTERS/FOOTAGES:** SE SE NW NE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.775887 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.416761 **DATE COLLECTED:** 0 / 0 / 1928
SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 65.0 **LOG TYPE:** Measured section
SOURCE: FLD NOTES-WELLER **WELL TYPE:** Underground mine
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
590.0			UNKNOWN	65.0	0.0
525.0	MATTOON	SHELBYVILLE	COAL	-	65.0

MAPID: 173187A0011F **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 4E **SECTION:** 8 **QUARTERS/FOOTAGES:** NE SW SW
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.785689 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.408247 **DATE COLLECTED:** 8 / 2 / 1938
SURFACE ELEVATION (FT.): 620.0 **LOGGED (FT.):** 29.0 **LOG TYPE:** Drillers Log
SOURCE: FLD NOTES-NEWTON **WELL TYPE:**
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
620.0			UNKNOWN	29.0	0.0
591.0	MATTOON	SHELBYVILLE	COAL	-	29.0

MAPID: 17300626000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.761257

GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.412572

DATE COLLECTED: 0 / 0 / 1937

SURFACE ELEVATION (FT.): 630.0 LOGGED (FT.): 128.0

LOG TYPE: Drillers Log

SOURCE: E.C. BAKER AND SONS

WELL TYPE: Water Well

COMMENT: ELEVATION AND LOCATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
630.0			UNCONSOLIDATED	117.0	0.0
513.0	MATTOON		SHALE	9.0	117.0
504.0	MATTOON	SHELBYVILLE	COAL	2.0	126.0
502.0	MATTOON		SHALE	0.0	128.0

MAPID: 17300626000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.761257

GEOLOGIST: TREWORY,J

CONFIDENTIAL: N LATITUDE: 39.412572

DATE COLLECTED: 0 / 0 / 1937

SURFACE ELEVATION (FT.): LOGGED (FT.): 0.0

LOG TYPE: Drillers Log

SOURCE: E. C. BAKER

WELL TYPE: Water Well

COMMENT: "APPROX. .75 MI. N. OF HWY 16"

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			UNCONSOLIDATED	117.0	0.0
-			ROCK	9.0	117.0
-	MATTOON	SHELBYVILLE	COAL	2.0	126.0

MAPID: 17300659000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 9 QUARTERS/FOOTAGES: NE NW NW

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.767205

GEOLOGIST: C TREWORYJ

CONFIDENTIAL: N LATITUDE: 39.41894

DATE COLLECTED:

SURFACE ELEVATION (FT.): 550.0 LOGGED (FT.): 987.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
119.0	BOND	CARTHAGE	LIMESTONE	10.0	431.0
-60.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	610.0
-194.0	CARBONDALE	DANVILLE	COAL	-	744.0
-269.0	CARBONDALE	HERRIN	COAL	3.5	819.0
-318.0	CARBONDALE	HOUCHIN CREEK	COAL	-	868.0

MAPID: 17300659000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY

TWP/RNG: 11N 4E

SECTION: 9

QUARTERS/FOOTAGES: NE NW NW

QUADRANGLE: SHELBYVILLE

LONGITUDE: -88.767205

GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N

LATITUDE: 39.41894

DATE COLLECTED: 10 / 0 / 1946

SURFACE ELEVATION (FT.): 550.0

LOGGED (FT.): 987.0

LOG TYPE: Electric Log

SOURCE: C. G. DAVIS

WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORGY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.0			UNKNOWN	744.0	0.0	
-194.0	CARBONDALE	DANVILLE	COAL	-	744.0	
-194.0	CARBONDALE		ROCK	75.0	744.0	
-269.0	CARBONDALE	HERRIN	COAL	3.5	819.0	
-272.5	CARBONDALE		ROCK	45.5	822.5	
-318.0	CARBONDALE	HOUCHIN CREEK	COAL	-	868.0	
-318.0	CARBONDALE		ROCK	119.0	868.0	
-437.0	CARBONDALE	COLCHESTER	COAL	-	987.0	

MAPID: 17300660000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY

TWP/RNG: 11N 4E

SECTION: 9

QUARTERS/FOOTAGES: 2200' S line, 150' W line

QUADRANGLE: SHELBYVILLE

LONGITUDE: -88.769947

GEOLOGIST: R. SMITH

CONFIDENTIAL: N

LATITUDE: 39.411531

DATE COLLECTED: 0 / 0 / 1941

SURFACE ELEVATION (FT.): 550.4

LOGGED (FT.): 71.4

LOG TYPE: Other Core Study

SOURCE: U.S. ENGINEERING DEPT.

WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.4			UNCONSOLIDATED	13.7	0.0	
536.7	MATTOON		SHALE	1.8	13.7	
534.9	MATTOON		GRAY SHALE	14.6	15.5	
520.3	MATTOON		SANDSTONE	0.4	30.1	
519.9	MATTOON		DARK SHALE	20.3	30.5	
499.6	MATTOON		GRAY SHALE	7.1	50.8	
492.5	MATTOON		BLACK SHALE	1.4	57.9	
491.1	MATTOON	SHELBYVILLE	COAL	1.2	59.3	
489.9	MATTOON		GRAY SHALE	10.9	60.5	

MAPID: 1730066000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 9 QUARTERS/FOOTAGES: 2200' S line, 150' W line

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.769947 GEOLOGIST: TREWORY,J

CONFIDENTIAL: N LATITUDE: 39.411531 DATE COLLECTED: 0 / 0 / 1941

SURFACE ELEVATION (FT.): 550.0 LOGGED (FT.): 71.4 LOG TYPE: Survey Core Study

SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.0			UNCONSOLIDATED	15.5	0.0	
534.5			ROCK	43.8	15.5	
490.7	MATTOON	SHELBYVILLE	COAL	1.2	59.3	
489.5			ROCK	10.9	60.5	

MAPID: 17300661000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 9 QUARTERS/FOOTAGES: 2000' S line, 525' W line

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.768597 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.410965 DATE COLLECTED: 0 / 0 / 1941

SURFACE ELEVATION (FT.): 661.6 LOGGED (FT.): 192.5 LOG TYPE: Other Core Study

SOURCE: U.S. ENGINEERING DEPT. WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.6			UNCONSOLIDATED	105.5	0.0	
556.1	MATTOON		SHALE	16.0	105.5	
540.1	MATTOON		SANDSTONE	3.3	121.5	
536.8	MATTOON		CLAYSTONE	3.2	124.8	
533.6	MATTOON		SANDSTONE	8.2	128.0	
525.4	MATTOON		DARK SHALE	19.7	136.2	
505.7	MATTOON		BLACK SHALE	15.7	155.9	
490.0	MATTOON	SHELBYVILLE	COAL	2.1	171.6	
487.9	MATTOON		DARK SHALE	7.9	173.7	
480.0	MATTOON		SHALE & SANDSTONE	2.4	181.6	
477.6	MATTOON		GRAY SHALE	8.5	184.0	

MAPID: 17300661000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 9 QUARTERS/FOOTAGES: 2000' S line, 525' W line
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.768597 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 39.410965 DATE COLLECTED: 0 / 0 / 1941
 SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 192.5 LOG TYPE: Survey Core Study
 SOURCE: U.S. CORPS OF ENGINEERS WELL TYPE: Engineering Test Holes
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
662.0			UNCONSOLIDATED	105.5	0.0
556.5			ROCK	66.1	105.5
490.4	MATTOON	SHELBYVILLE	COAL	2.1	171.6
488.3			ROCK	0.0	173.7

MAPID: 173187A0012F VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 9 QUARTERS/FOOTAGES: SE SE NE
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.753187 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 39.413388 DATE COLLECTED: 8 / 0 / 1938
 SURFACE ELEVATION (FT.): 622.0 LOGGED (FT.): 126.0 LOG TYPE:
 SOURCE: FLD NOTES-NEWTON WELL TYPE: Strip Mine
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
622.0			ROCK	126.0	0.0
496.0	MATTOON	SHELBYVILLE	COAL	-	126.0

MAPID: 17301118000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 10 QUARTERS/FOOTAGES: SW SE NE
 QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.736887 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.413172 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 686.0 LOGGED (FT.): 988.0 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
129.0	BOND	CARTHAGE	LIMESTONE	9.0	557.0
33.0	MODESTO	TRIVOLI	SANDSTONE	75.0	653.0
-44.0	MODESTO	WEST FRANKLIN	LIMESTONE	22.0	730.0
-155.0	CARBONDALE	DANVILLE	COAL	-	841.0
-224.0	CARBONDALE	HERRIN	COAL	4.0	910.0
-235.0	CARBONDALE	SPRINGFIELD	COAL	2.5	921.0
-302.0	CARBONDALE	HOUCHIN CREEK	COAL	-	988.0

MAPID: 17301118000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 10 QUARTERS/FOOTAGES: SW SE NE

QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.736887 GEOLOGIST: TREWORY,J

CONFIDENTIAL: N LATITUDE: 39.413172 DATE COLLECTED: 8 / 0 / 1957

SURFACE ELEVATION (FT.): 686.0 LOGGED (FT.): 988.0 LOG TYPE: Electric Log

SOURCE: H. F. ROBISON WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
686.0			UNKNOWN	841.0	0.0	
-155.0	CARBONDALE	DANVILLE	COAL	-	841.0	
-155.0	CARBONDALE		ROCK	69.0	841.0	
-224.0	CARBONDALE	HERRIN	COAL	4.0	910.0	
-228.0	CARBONDALE		ROCK	7.0	914.0	
-235.0	CARBONDALE	SPRINGFIELD	COAL	2.5	921.0	
-237.5	CARBONDALE		ROCK	64.5	923.5	
-302.0	CARBONDALE	HOUCHIN CREEK	COAL	-	988.0	

MAPID: 17300119000C VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 12 QUARTERS/FOOTAGES: SW SW SE

QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.704497 GEOLOGIST: TREWORY,J

CONFIDENTIAL: N LATITUDE: 39.405583 DATE COLLECTED: 0 / 0 / 1937

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 250.0 LOG TYPE: Drillers Log

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

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNKNOWN	116.0	0.0	
554.0			ROCK	99.0	116.0	
455.0			COAL/SANDSTONE	2.0	215.0	
453.0			ROCK	33.0	217.0	

MAPID: 17300666000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY

TWP/RNG: 11N 4E

SECTION: 12

QUARTERS/FOOTAGES: NW SW SW

QUADRANGLE: MIDDLESWORTH

LONGITUDE: -88.714201

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.407545

DATE COLLECTED:

SURFACE ELEVATION (FT.): 703.0

LOGGED (FT.): 1117.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG, SPLIT 6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
108.0	BOND	CARTHAGE	LIMESTONE	9.0	595.0	
-43.0	MODESTO	WEST FRANKLIN	LIMESTONE	19.0	746.0	
-160.0	CARBONDALE	DANVILLE	COAL	2.0	863.0	
-222.0	CARBONDALE	HERRIN	COAL	7.0	925.0	
-305.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1008.0	

MAPID: 17300666000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY

TWP/RNG: 11N 4E

SECTION: 12

QUARTERS/FOOTAGES: NW SW SW

QUADRANGLE: MIDDLESWORTH

LONGITUDE: -88.714201

GEOLOGIST: TREWORYG,J

CONFIDENTIAL: N

LATITUDE: 39.407545

DATE COLLECTED: 0 / 0 / 1946

SURFACE ELEVATION (FT.): 703.0

LOGGED (FT.): 1117.0

LOG TYPE: Electric Log

SOURCE: T. BLAKE DIRICKSON

WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.0			UNKNOWN	863.0	0.0	
-160.0	CARBONDALE	DANVILLE	COAL	2.0	863.0	
-162.0	CARBONDALE		ROCK	60.0	865.0	
-222.0	CARBONDALE	HERRIN	COAL	7.0	925.0	
-229.0	CARBONDALE		ROCK	76.0	932.0	
-305.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1008.0	
-305.0	CARBONDALE		ROCK	109.0	1008.0	
-414.0	CARBONDALE	COLCHESTER	COAL	-	1117.0	

MAPID: 17300671000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY

TWP/RNG: 11N 4E

SECTION: 14

QUARTERS/FOOTAGES: NE NW SW

QUADRANGLE: MIDDLESWORTH

LONGITUDE: -88.729621

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.396705

DATE COLLECTED:

SURFACE ELEVATION (FT.): 662.0

LOGGED (FT.): 1057.0

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
140.0	BOND	CARTHAGE	LIMESTONE	9.0	522.0
-16.0	MODESTO	WEST FRANKLIN	LIMESTONE	19.0	678.0
-131.0	CARBONDALE	DANVILLE	COAL	2.0	793.0
-273.0	CARBONDALE	HOUCHIN CREEK	COAL	-	935.0

MAPID: 17300671000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY

TWP/RNG: 11N 4E

SECTION: 14

QUARTERS/FOOTAGES: NE NW SW

QUADRANGLE: MIDDLESWORTH

LONGITUDE: -88.729621

GEOLOGIST: TREWORYG,J

CONFIDENTIAL: N

LATITUDE: 39.396705

DATE COLLECTED: 9 / 0 / 1947

SURFACE ELEVATION (FT.): 662.0

LOGGED (FT.): 1057.0

LOG TYPE: Electric Log

SOURCE: PAUL DORAN

WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
662.0			UNKNOWN	793.0	0.0
-131.0	CARBONDALE	DANVILLE	COAL	2.0	793.0
-133.0	CARBONDALE		ROCK	140.0	795.0
-273.0	CARBONDALE	HOUCHIN CREEK	COAL	-	935.0
-273.0	CARBONDALE		ROCK	122.0	935.0
-395.0	CARBONDALE	COLCHESTER	COAL	-	1057.0

MAPID: 17300674000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 14 QUARTERS/FOOTAGES: NW NW SE
 QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.722897 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.396672 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 677.0 LOGGED (FT.): 1075.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: FAIR LOG, SPLIT 6?

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
122.0	BOND	CARTHAGE	LIMESTONE	11.0	555.0
-27.0	MODESTO	WEST FRANKLIN	LIMESTONE	19.0	704.0
-151.0	CARBONDALE	DANVILLE	COAL	2.5	828.0
-205.0	CARBONDALE	HERRIN	COAL	2.5	882.0
-216.0	CARBONDALE	SPRINGFIELD	COAL	-	893.0
-280.0	CARBONDALE	HOUCHIN CREEK	COAL	-	957.0

MAPID: 17300674000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 14 QUARTERS/FOOTAGES: NW NW SE
 QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.722897 GEOLOGIST: TREWORY,J
 CONFIDENTIAL: N LATITUDE: 39.396672 DATE COLLECTED: 12 / 0 / 1947
 SURFACE ELEVATION (FT.): 677.0 LOGGED (FT.): 1075.0 LOG TYPE: Electric Log
 SOURCE: SHULMAN BROS. WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATIONS BY C. TREWORY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
677.0			UNKNOWN	828.0	0.0
-151.0	CARBONDALE	DANVILLE	COAL	2.5	828.0
-153.5	CARBONDALE		ROCK	51.5	830.5
-205.0	CARBONDALE	HERRIN	COAL	2.5	882.0
-207.5	CARBONDALE		ROCK	8.5	884.5
-216.0	CARBONDALE	SPRINGFIELD	COAL	-	893.0
-216.0	CARBONDALE		ROCK	64.0	893.0
-280.0	CARBONDALE	HOUCHIN CREEK	COAL	-	957.0
-280.0	CARBONDALE		ROCK	118.0	957.0
-398.0	CARBONDALE	COLCHESTER	COAL	-	1075.0

MAPID: 17301184000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 15 QUARTERS/FOOTAGES: SW NE SE
 QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.736446 GEOLOGIST: C TREWORYG
 CONFIDENTIAL: N LATITUDE: 39.394942 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 674.0 LOGGED (FT.): 1073.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG, SPLIT 6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
136.0	BOND	CARTHAGE	LIMESTONE	8.0	538.0
-26.0	MODESTO	WEST FRANKLIN	LIMESTONE	23.0	700.0
-136.0	CARBONDALE	DANVILLE	COAL	-	810.0
-217.0	CARBONDALE	HERRIN	COAL	-	891.0
-277.0	CARBONDALE	HOUCHIN CREEK	COAL	-	951.0

MAPID: 17301184000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 15 QUARTERS/FOOTAGES: SW NE SE
 QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.736446 GEOLOGIST: TREWORYG,J
 CONFIDENTIAL: N LATITUDE: 39.394942 DATE COLLECTED: 10 / 0 / 1960
 SURFACE ELEVATION (FT.): 674.0 LOGGED (FT.): 1073.0 LOG TYPE: Electric Log
 SOURCE: KUYKENDALL DRLG. CO. WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
674.0			UNKNOWN	810.0	0.0
-136.0	CARBONDALE	DANVILLE	COAL	-	810.0
-136.0	CARBONDALE		ROCK	81.0	810.0
-217.0	CARBONDALE	HERRIN	COAL	-	891.0
-217.0	CARBONDALE		ROCK	60.0	891.0
-277.0	CARBONDALE	HOUCHIN CREEK	COAL	-	951.0
-277.0	CARBONDALE		ROCK	122.0	951.0
-399.0	CARBONDALE	COLCHESTER	COAL	-	1073.0

MAPID: 17300680000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 16 QUARTERS/FOOTAGES: SW NE NE
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.755223 GEOLOGIST: C TREWORYG
 CONFIDENTIAL: N LATITUDE: 39.402558 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 676.0 LOGGED (FT.): 1102.0 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
109.0	BOND	CARTHAGE	LIMESTONE	11.0	567.0
-44.0	MODESTO	WEST FRANKLIN	LIMESTONE	21.0	720.0
-154.0	CARBONDALE	DANVILLE	COAL	-	830.0
-244.0	CARBONDALE	HERRIN	COAL	2.5	920.0
-305.0	CARBONDALE	HOUCHIN CREEK	COAL	-	981.0

MAPID: 17300680000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 16 QUARTERS/FOOTAGES: SW NE NE
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.755223 GEOLOGIST: TREWORYG,J
 CONFIDENTIAL: N LATITUDE: 39.402558 DATE COLLECTED: 11 / 0 / 1946
 SURFACE ELEVATION (FT.): 676.0 LOGGED (FT.): 1102.0 LOG TYPE: Electric Log
 SOURCE: E. P. JARVIS WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
676.0			UNKNOWN	830.0	0.0
-154.0	CARBONDALE	DANVILLE	COAL	-	830.0
-154.0	CARBONDALE		ROCK	90.0	830.0
-244.0	CARBONDALE	HERRIN	COAL	2.5	920.0
-246.5	CARBONDALE		ROCK	58.5	922.5
-305.0	CARBONDALE	HOUCHIN CREEK	COAL	-	981.0
-305.0	CARBONDALE		ROCK	121.0	981.0
-426.0	CARBONDALE	COLCHESTER	COAL	-	1102.0

MAPID: 17300003000C VERSION: 1

PROJECT: NCRDS87

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 18 QUARTERS/FOOTAGES: SE SE NW NE
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.79438 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.402389 DATE COLLECTED: 0 / 0 / 1887
 SURFACE ELEVATION (FT.): 590.0 LOGGED (FT.): 1116.6 LOG TYPE: Drillers Log
 SOURCE: SHELBY COAL & NATURAL GAS WELL TYPE: Coal Test
 COMMENT: LOCATION AND ELEVATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
590.0			UNCONSOLIDATED	19.0	0.0
571.0	MATTOON		SHALE	20.4	19.0
550.6	MATTOON	SHELBYVILLE	COAL	1.1	39.4
549.5	MATTOON		UNDERCLAY	3.5	40.5
546.0	MATTOON		UNCLASSIFIED	12.0	44.0
534.0	MATTOON		SANDSTONE	1.0	56.0
533.0	MATTOON		SHALE	41.5	57.0
491.5	MATTOON		BLACK SHALE	1.5	98.5
490.0	MATTOON		COAL	0.8	100.0
489.2	MATTOON		UNDERCLAY	1.2	100.8
488.0	MATTOON		SHALE	7.0	102.0
481.0	MATTOON		SANDSTONE	4.0	109.0
477.0	MATTOON		SHALE	14.4	113.0
462.6	MATTOON		COAL	0.2	127.4
462.4	MATTOON		SHALE	11.4	127.6
451.0	MATTOON		SANDSTONE	3.0	139.0
448.0	MATTOON		SHALE	19.8	142.0
428.2	MATTOON		COAL	0.9	161.8
427.3	MATTOON		SHALE	10.3	162.7
417.0	BOND	MILLERSVILLE	LIMESTONE	7.0	173.0
410.0	BOND	MILLERSVILLE	SHALE	3.0	180.0
407.0	BOND	MILLERSVILLE	LIMESTONE	31.5	183.0
375.5	BOND		SHALE	54.5	214.5
321.0	BOND		SANDSTONE	5.0	269.0
316.0	BOND		SHALE	10.5	274.0
305.5	BOND		COAL	0.5	284.5
305.0	BOND		SHALE	5.0	285.0
300.0	BOND		SANDSTONE	9.0	290.0
291.0	BOND		SHALE	37.0	299.0
254.0	BOND		UNCLASSIFIED	2.5	336.0
251.5	BOND		COAL	0.8	338.5
250.7	BOND		UNDERCLAY	1.7	339.3
249.0	BOND		SHALE	10.0	341.0
239.0	BOND		SANDSTONE	7.0	351.0
232.0	BOND		SHALE	27.0	358.0
205.0	BOND		COAL	1.2	385.0
203.8	BOND		SHALE	6.8	386.2
197.0	BOND		UNDERCLAY	4.0	393.0
193.0	BOND		LIMESTONE	1.0	397.0

192.0	BOND		GRAY SHALE	9.0	398.0	
183.0	BOND		SANDSTONE	5.0	407.0	
178.0	BOND	CARTHAGE	LIMESTONE	10.5	412.0	UNCERTAIN CORRELATION
167.5	MODESTO		BLACK SHALE	1.5	422.5	
166.0	MODESTO		COAL	0.2	424.0	
165.8	MODESTO		SHALE	10.8	424.2	
155.0	MODESTO		SANDSTONE	4.0	435.0	
151.0	MODESTO		LIMESTONE	1.5	439.0	
149.5	MODESTO		GRAY SHALE	30.5	440.5	
119.0	MODESTO		UNCLASSIFIED	2.0	471.0	
117.0	MODESTO		UNDERCLAY	6.0	473.0	
111.0	MODESTO		SHALE	4.0	479.0	
107.0	MODESTO		SANDSTONE	6.0	483.0	
101.0	MODESTO		SHALE	46.0	489.0	
55.0	MODESTO		BLACK SHALE	1.0	535.0	
54.0	MODESTO		SHALE	6.0	536.0	
48.0	MODESTO		UNCLASSIFIED	0.8	542.0	
47.2	MODESTO		BLACK SHALE	1.0	542.8	
46.2	MODESTO		COAL	0.5	543.8	
45.7	MODESTO		UNDERCLAY	2.7	544.3	
43.0	MODESTO		SHALE	25.0	547.0	
18.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	572.0	
9.0	MODESTO	WEST FRANKLIN	SHALE	2.5	581.0	
6.5	MODESTO	WEST FRANKLIN	LIMESTONE	5.5	583.5	
1.0	MODESTO		SHALE	46.0	589.0	
-45.0	CARBONDALE	DANVILLE	COAL	3.0	635.0	
-48.0	CARBONDALE		SHALE	8.0	638.0	
-56.0	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	646.0	
-59.0	CARBONDALE	ENERGY	SHALE	50.0	649.0	
-109.0	CARBONDALE	ENERGY	SANDSTONE	3.0	699.0	
-112.0	CARBONDALE	ENERGY	SHALE & SANDSTONE	20.0	702.0	
-132.0	CARBONDALE	ENERGY	SANDSTONE	22.9	722.0	
-154.9	CARBONDALE		COAL	1.1	744.9	
-156.0	CARBONDALE	ENERGY	SANDSTONE	132.8	746.0	
-288.8	CARBONDALE		COAL	0.1	878.8	
-288.8	CARBONDALE		SHALE	25.8	878.8	
-314.7	CARBONDALE	SURVANT - UPPER	COAL	1.3	904.7	
-316.0	CARBONDALE		SHALE & SANDSTONE	30.0	906.0	
-346.0	CARBONDALE		SHALE	2.0	936.0	
-348.0	CARBONDALE	SURVANT - LOWER	COAL	0.8	938.0	UNCERTAIN CORRELATION
-348.8	CARBONDALE		SANDSTONE	15.3	938.8	
-364.0	CARBONDALE		SHALE	27.7	954.0	
-391.7	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.5	981.7	
-393.2	CARBONDALE	COLCHESTER	COAL	2.8	983.2	
-396.0	SPOON		SHALE	2.0	986.0	
-398.0	SPOON		SANDSTONE	6.0	988.0	
-404.0	SPOON		BLACK SHALE	3.0	994.0	

-407.0	SPOON	SHALE	2.0	997.0	
-409.0	SPOON	COAL	0.7	999.0	
-409.7	SPOON	SHALE	9.8	999.7	
-419.4	SPOON	COAL	2.7	1009.4	
-422.1	SPOON	UNDERCLAY	1.3	1012.1	
-423.3	SPOON	SANDSTONE	2.0	1013.3	
-425.3	SPOON	GRAY SHALE	4.0	1015.3	
-429.3	SPOON	LIMESTONE	2.8	1019.3	
-432.2	SPOON	GRAY SHALE	6.7	1022.2	
-438.8	SPOON	BLACK SHALE	2.5	1028.8	UNCERTAIN CORRELATION
-441.3	SPOON	COAL	1.0	1031.3	UNCERTAIN CORRELATION
-442.3	SPOON	SHALE	6.5	1032.3	
-448.8	SPOON	LIMESTONE	1.5	1038.8	
-450.3	SPOON	SHALE	6.0	1040.3	
-456.3	SPOON	LIMESTONE	2.0	1046.3	
-458.3	SPOON	BLACK SHALE	3.0	1048.3	
-461.3	SPOON	SHALE	14.0	1051.3	
-475.3	SPOON	COAL	3.0	1065.3	
-478.3	SPOON	UNDERCLAY	0.8	1068.3	
-479.1	SPOON	GRAY SHALE	11.0	1069.1	
-490.1	SPOON	BLACK SHALE	4.0	1080.1	
-494.1	SPOON	LIMESTONE	1.0	1084.1	
-495.1	SPOON	COAL	1.8	1085.1	
-496.8	SPOON	UNDERCLAY	3.3	1086.8	
-500.1	SPOON	BLACK SHALE	1.8	1090.1	UNCERTAIN CORRELATION
-501.9	SPOON	COAL	1.2	1091.9	UNCERTAIN CORRELATION
-503.1	SPOON	UNDERCLAY	4.0	1093.1	
-507.1	SPOON	SHALE	9.0	1097.1	
-516.1	SPOON	COAL	1.8	1106.1	
-517.8	SPOON	GRAY SHALE	8.8	1107.8	

MAPID: 17300003000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 18
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.79438
 CONFIDENTIAL: N LATITUDE: 39.402389
 SURFACE ELEVATION (FT.): 580.0 LOGGED (FT.): 116.6
 SOURCE: SHELBY COAL & NATURAL GAS
 COMMENT: CORRELATIONS FROM CADY'S B78 WORKMAP

QUARTERS/FOOTAGES: SE SE NW NE
 GEOLOGIST: TREWORGY,J
 DATE COLLECTED: 0 / 0 / 1887
 LOG TYPE: Drillers Log
 WELL TYPE: Coal Test

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
580.0			UNCONSOLIDATED	19.0	0.0
561.0			SHALE	20.4	19.0
540.6	MATTOON	SHELBYVILLE	COAL	1.1	39.4
539.5			ROCK	59.5	40.5
480.0			COAL	0.8	100.0
479.2			ROCK	26.6	100.8
452.6			COAL	0.2	127.4
452.4			ROCK	34.2	127.6
418.2			COAL	0.9	161.8
417.3			ROCK	121.8	162.7
295.5			COAL	0.5	284.5
295.0			ROCK	53.5	285.0
241.5			COAL	0.8	338.5
240.7			ROCK	45.7	339.3
195.0			COAL	1.2	385.0
193.8			ROCK	37.8	386.2
156.0			COAL	0.2	424.0
155.8			ROCK	119.7	424.2
36.2			COAL	0.5	543.8
35.7			ROCK	64.7	544.3
-29.0			SHALE	26.0	609.0
-55.0	CARBONDALE	DANVILLE	COAL	3.0	635.0
-58.0			ROCK	106.9	638.0
-164.9			COAL	1.1	744.9
-166.0			ROCK	132.8	746.0
-298.8			COAL	0.1	878.8
-298.8			ROCK	25.8	878.8
-324.7			COAL	1.3	904.7
-326.0			ROCK	32.0	906.0
-358.0			COAL	0.8	938.0
-358.8			ROCK	44.4	938.8
-403.2			COAL	2.8	983.2
-406.0			ROCK	13.0	986.0
-419.0			COAL	0.7	999.0
-419.7			ROCK	9.7	999.7
-429.4			COAL	2.7	1009.4
-432.1			ROCK	19.3	1012.1
-451.3			COAL	1.0	1031.3
-452.3			ROCK	33.0	1032.3

-485.3	COAL	2.8	1065.3
-488.1	ROCK	17.0	1068.1
-505.1	COAL	1.8	1085.1
-506.8	ROCK	5.1	1086.8
-511.9	COAL	1.2	1091.9
-513.1	ROCK	13.0	1093.1
-526.1	COAL	1.8	1106.1
-527.8	ROCK	8.8	1107.8

MAPID: 17300347001M **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 4E **SECTION:** 18 **QUARTERS/FOOTAGES:** 320' S line, 300' W line
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.805729 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.391735 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 604.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Measured section
SOURCE: MINE NOTES-AMOS TUBB **WELL TYPE:** Underground mine
COMMENT:

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

MAPID: 17301274000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 11N 4E **SECTION:** 19 **QUARTERS/FOOTAGES:** NW SW NW
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.805608 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.386324 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 604.0 **LOGGED (FT.):** 1057.0 **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
152.0	BOND	CARTHAGE	LIMESTONE	11.0	452.0
-14.0	MODESTO	WEST FRANKLIN	LIMESTONE	27.0	618.0
-110.0	CARBONDALE	DANVILLE	COAL	2.5	714.0

MAPID: 17301274000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 19 QUARTERS/FOOTAGES: NW SW NW
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.805608 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 39.386324 DATE COLLECTED: 12 / 0 / 1961
 SURFACE ELEVATION (FT.): 604.0 LOGGED (FT.): 1057.0 LOG TYPE: Electric Log
 SOURCE: NATIONAL ASSOC. PETROLEUM CO. WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATIONS BY C. TREWORGY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
604.0			UNKNOWN	714.0	0.0	
-110.0	CARBONDALE	DANVILLE	COAL	2.5	714.0	
-112.5	CARBONDALE		ROCK	340.5	716.5	
-453.0	CARBONDALE	COLCHESTER	COAL	0.0	1057.0	

MAPID: 173187A0013F VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 19 QUARTERS/FOOTAGES: SE NE SE
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.789862 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 39.381081 DATE COLLECTED: 7 / 27 / 1937
 SURFACE ELEVATION (FT.): 550.0 LOGGED (FT.): 0.0 LOG TYPE: Measured section
 SOURCE: FLD NOTES-NEWTON WELL TYPE: Outcrop
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.0			ROCK	11.1	0.0	
538.9	MATTOON	SHELBYVILLE	COAL	1.8	11.1	

MAPID: 173187A0015F VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 19 QUARTERS/FOOTAGES: SE NW SE SE
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.791585 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 39.378789 DATE COLLECTED: 1 / 16 / 1942
 SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 0.0 LOG TYPE: Measured section
 SOURCE: FLD NOTES-TAYLOR WELL TYPE: Underground mine
 COMMENT: SMALL MINES IN AREA; DEPTH COAL 30-75'

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

MAPID: 173187A0014F **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 4E **SECTION:** 19 **QUARTERS/FOOTAGES:** NW NW NE NE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.79295 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.390579 **DATE COLLECTED:** 8 / 2 / 1938
SURFACE ELEVATION (FT.): 583.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Measured section
SOURCE: FLD NOTES-NEWTON **WELL TYPE:** Outcrop
COMMENT: COAL AT HIGH WATER LEVEL-ELEV. 536'

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

MAPID: 173187A0016F **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 4E **SECTION:** 20 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.787545 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.382895 **DATE COLLECTED:** 6 / 30 / 1937
SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Measured section
SOURCE: FLD NAMES-NEWTON **WELL TYPE:** Underground mine
COMMENT: SEVERAL SMALL MINES IN AREA

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

MAPID: 17300087000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 11N 4E **SECTION:** 22 **QUARTERS/FOOTAGES:** NE NE SE
QUADRANGLE: MIDDLESWORTH **LONGITUDE:** -88.733806 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.38219 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 654.0 **LOGGED (FT.):** 920.0 **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
153.0	BOND	CARTHAGE	LIMESTONE	10.0	501.0
-1.0	MODESTO	WEST FRANKLIN	LIMESTONE	18.0	655.0
-116.0	CARBONDALE	DANVILLE	COAL	-	770.0
-186.0	CARBONDALE	HERRIN	COAL	-	840.0
-266.0	CARBONDALE	HOUCHIN CREEK	COAL	-	920.0

MAPID: 17300087000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 22 QUARTERS/FOOTAGES: NE NE SE

QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.733806 GEOLOGIST: TREWORY,J

CONFIDENTIAL: N LATITUDE: 39.38219 DATE COLLECTED: 4 / 0 / 1941

SURFACE ELEVATION (FT.): 654.0 LOGGED (FT.): 920.0 LOG TYPE: Electric Log

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

COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.0			UNKNOWN	770.0	0.0	
-116.0	CARBONDALE	DANVILLE	COAL	-	770.0	
-116.0	CARBONDALE		ROCK	70.0	770.0	
-186.0	CARBONDALE	HERRIN	COAL	-	840.0	
-186.0	CARBONDALE		ROCK	80.0	840.0	
-266.0	CARBONDALE	HOUCHIN CREEK	COAL	-	920.0	

MAPID: 17300125000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 22 QUARTERS/FOOTAGES: NW NW SW

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.750296 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.382364 DATE COLLECTED:

SURFACE ELEVATION (FT.): 621.0 LOGGED (FT.): 885.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
147.0	BOND	CARTHAGE	LIMESTONE	9.0	474.0	
-5.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	626.0	
-113.0	CARBONDALE	DANVILLE	COAL	-	734.0	
-185.0	CARBONDALE	HERRIN	COAL	-	806.0	
-264.0	CARBONDALE	HOUCHIN CREEK	COAL	-	885.0	

MAPID: 17300125000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 4E **SECTION:** 22 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.750296 **GEOLOGIST:** TREWORY,J
CONFIDENTIAL: N **LATITUDE:** 39.382364 **DATE COLLECTED:** 7 / 0 / 1946
SURFACE ELEVATION (FT.): 621.0 **LOGGED (FT.):** 885.0 **LOG TYPE:** Electric Log
SOURCE: W. R. BRITTON **WELL TYPE:** Oil and Gas Test
COMMENT: CORRELATIONS BY C. TREWORY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
621.0			UNKNOWN	734.0	0.0	
-113.0	CARBONDALE	DANVILLE	COAL	-	734.0	
-113.0	CARBONDALE		ROCK	72.0	734.0	
-185.0	CARBONDALE	HERRIN	COAL	-	806.0	
-185.0	CARBONDALE		ROCK	79.0	806.0	
-264.0	CARBONDALE	HOUCHIN CREEK	COAL	-	885.0	

MAPID: 17300125000C **VERSION:** 4 **PROJECT:** CONTROL
COUNTY: SHELBY **TWP/RNG:** 11N 4E **SECTION:** 22 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.750296 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 39.382364 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 2002.0 **LOG TYPE:** Survey Sample Study
SOURCE: BRITTON, W. R. **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: 17300699000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 11N 4E **SECTION:** 24 **QUARTERS/FOOTAGES:** NE NW NW
QUADRANGLE: MIDDLESWORTH **LONGITUDE:** -88.711195 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.3893 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 641.0 **LOGGED (FT.):** 1068.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG, SPLIT 6?

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
105.0	BOND	CARTHAGE	LIMESTONE	10.0	536.0	
-52.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	693.0	
-164.0	CARBONDALE	DANVILLE	COAL	-	805.0	
-226.0	CARBONDALE	HERRIN	COAL	2.5	867.0	
-305.0	CARBONDALE	HOUCHIN CREEK	COAL	-	946.0	

MAPID: 17300699000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY

TWP/RNG: 11N 4E

SECTION: 24

QUARTERS/FOOTAGES: NE NW NW

QUADRANGLE: MIDDLESWORTH

LONGITUDE: -88.711195

GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N

LATITUDE: 39.3893

DATE COLLECTED: 7 / 0 / 1950

SURFACE ELEVATION (FT.): 641.0

LOGGED (FT.): 946.0

LOG TYPE: Electric Log

SOURCE: M. H. RICHARDSON

WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORGY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
641.0			UNKNOWN	805.0	0.0	
-164.0	CARBONDALE	DANVILLE	COAL	-	805.0	
-164.0	CARBONDALE		ROCK	62.0	805.0	
-226.0	CARBONDALE	HERRIN	COAL	2.5	867.0	
-228.0	CARBONDALE		ROCK	77.0	869.0	
-305.0	CARBONDALE	HOUCHIN CREEK	COAL	-	946.0	
-305.0	CARBONDALE		ROCK	122.0	946.0	
-427.0	CARBONDALE	COLCHESTER	COAL	-	1068.0	

MAPID: 17300707000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY

TWP/RNG: 11N 4E

SECTION: 27

QUARTERS/FOOTAGES: NW NE NW

QUADRANGLE: STEWARDSON WEST

LONGITUDE: -88.745425

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 39.375067

DATE COLLECTED:

SURFACE ELEVATION (FT.): 631.0

LOGGED (FT.): 1006.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG, SPLIT 6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
156.0	BOND	CARTHAGE	LIMESTONE	8.0	475.0	
-7.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	638.0	
-103.0	CARBONDALE	DANVILLE	COAL	-	734.0	
-179.0	CARBONDALE	HERRIN	COAL	4.0	810.0	
-255.0	CARBONDALE	HOUCHIN CREEK	COAL	-	886.0	

MAPID: 17300710000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 27 QUARTERS/FOOTAGES: NW NW SE
 QUADRANGLE: STEWARDSON WEST LONGITUDE: -88.740588 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.367756 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 613.0 LOGGED (FT.): 984.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG, SPLIT 6?

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
155.0	BOND	CARTHAGE	LIMESTONE	12.0	458.0
-8.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	621.0
-106.0	CARBONDALE	DANVILLE	COAL	-	719.0
-180.0	CARBONDALE	HERRIN	COAL	4.0	793.0
-194.0	CARBONDALE	SPRINGFIELD	COAL	-	807.0
-251.0	CARBONDALE	HOUCHIN CREEK	COAL	-	864.0

MAPID: 17300712000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 29 QUARTERS/FOOTAGES: 98' N line, 153' W line of SE
 QUADRANGLE: FANCHER LONGITUDE: -88.778536 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.368843 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 601.0 LOGGED (FT.): 994.0 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
154.0	BOND	CARTHAGE	LIMESTONE	9.0	447.0
-3.0	MODESTO	WEST FRANKLIN	LIMESTONE	24.0	604.0
-99.0	CARBONDALE	DANVILLE	COAL	-	700.0
-287.0	CARBONDALE	HOUCHIN CREEK	COAL	-	888.0

MAPID: 17301299000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 4E SECTION: 33 QUARTERS/FOOTAGES: 330' N line, 430' E line of SW NE
 QUADRANGLE: FANCHER LONGITUDE: -88.756985 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.357103 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 576.0 LOGGED (FT.): 965.0 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
148.0	BOND	CARTHAGE	LIMESTONE	9.0	428.0
-10.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	586.0
-106.0	CARBONDALE	DANVILLE	COAL	-	682.0
-184.0	CARBONDALE	HERRIN	COAL	-	760.0
-262.0	CARBONDALE	HOUCHIN CREEK	COAL	-	838.0

MAPID: 17300723000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 11N 4E **SECTION:** 34 **QUARTERS/FOOTAGES:** NW SE NW
QUADRANGLE: STEWARDSON WEST **LONGITUDE:** -88.74495 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.356963 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 613.0 **LOGGED (FT.):** 882.0 **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
141.0	BOND	CARTHAGE	LIMESTONE	8.0	472.0
-9.0	MODESTO	WEST FRANKLIN	LIMESTONE	21.0	622.0
-123.0	CARBONDALE	DANVILLE	COAL	-	736.0
-217.0	CARBONDALE	HERRIN	COAL	3.0	830.0
-269.0	CARBONDALE	HOUCHIN CREEK	COAL	-	882.0

MAPID: 173186B0001F **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 11N 5E **SECTION:** 7 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: MIDDLESWORTH **LONGITUDE:** -88.694848 **GEOLOGIST:** TREWORYG,J
CONFIDENTIAL: N **LATITUDE:** 39.405161 **DATE COLLECTED:** 8 / 2 / 1938
SURFACE ELEVATION (FT.): 705.0 **LOGGED (FT.):** 217.0 **LOG TYPE:** Drillers Log
SOURCE: FLD NOTES-NEWTON **WELL TYPE:**
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
705.0			UNKNOWN	215.0	0.0
490.0	MATTOON	SHELBYVILLE	COAL	2.0	215.0

MAPID: 17301047000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 11N 5E **SECTION:** 8 **QUARTERS/FOOTAGES:** SW SE NE
QUADRANGLE: MIDDLESWORTH **LONGITUDE:** -88.662054 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.412577 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 694.0 **LOGGED (FT.):** 1137.0 **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
72.0	BOND	CARTHAGE	LIMESTONE	9.0	622.0
-73.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	767.0
-202.0	CARBONDALE	DANVILLE	COAL	2.0	896.0
-269.0	CARBONDALE	HERRIN	COAL	4.5	963.0
-286.0	CARBONDALE	SPRINGFIELD	COAL	-	980.0
-345.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1039.0

MAPID: 17301047000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY

TWP/RNG: 11N 5E

SECTION: 8

QUARTERS/FOOTAGES: SW SE NE

QUADRANGLE: MIDDLESWORTH

LONGITUDE: -88.662054

GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N

LATITUDE: 39.412577

DATE COLLECTED: 6 / 0 / 1956

SURFACE ELEVATION (FT.): 694.0

LOGGED (FT.): 1137.0

LOG TYPE: Electric Log

SOURCE: HENRY P. SMITH

WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORGY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.0			UNKNOWN	896.0	0.0	
-202.0	CARBONDALE	DANVILLE	COAL	2.0	896.0	
-204.0	CARBONDALE		ROCK	65.0	898.0	
-269.0	CARBONDALE	HERRIN	COAL	4.5	963.0	
-273.5	CARBONDALE		ROCK	12.5	967.5	
-286.0	CARBONDALE	SPRINGFIELD	COAL	-	980.0	
-286.0	CARBONDALE		ROCK	59.0	980.0	
-345.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1039.0	
-345.0	CARBONDALE		ROCK	98.0	1039.0	
-443.0	CARBONDALE	COLCHESTER	COAL	-	1137.0	

MAPID: 17300748000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY

TWP/RNG: 11N 5E

SECTION: 13

QUARTERS/FOOTAGES: NE NW NW

QUADRANGLE: WINDSOR

LONGITUDE: -88.598778

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 39.403275

DATE COLLECTED:

SURFACE ELEVATION (FT.): 708.0

LOGGED (FT.): 1120.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG, SPLIT 6?

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
35.0	BOND	CARTHAGE	LIMESTONE	18.0	673.0	
-114.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	822.0	
-254.0	CARBONDALE	DANVILLE	COAL	3.5	962.0	
-310.0	CARBONDALE	HERRIN	COAL	3.0	1018.0	
-329.0	CARBONDALE	SPRINGFIELD	COAL	-	1037.0	
-412.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1120.0	

MAPID: 17300750000C VERSION: 1

PROJECT: BLM

COUNTY: SHELBY

TWP/RNG: 11N 5E

SECTION: 15

QUARTERS/FOOTAGES: SE SE SW SW

QUADRANGLE: MIDDLESWORTH

LONGITUDE: -88.635249

GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N

LATITUDE: 39.39011

DATE COLLECTED: 0 / 0 / 1936

SURFACE ELEVATION (FT.): 705.0

LOGGED (FT.): 246.0

LOG TYPE: Drillers Log

SOURCE: E. C. BAKER & SONS

WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.0			UNCONSOLIDATED	85.0	0.0	
620.0			PEAT	6.0	85.0	
614.0			UNDERCLAY	9.0	91.0	
605.0			ROCK	145.0	100.0	
460.0			COAL	1.0	245.0	

MAPID: 17300762000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY

TWP/RNG: 11N 5E

SECTION: 21

QUARTERS/FOOTAGES: SE SW NE

QUADRANGLE: MIDDLESWORTH

LONGITUDE: -88.645072

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 39.383377

DATE COLLECTED:

SURFACE ELEVATION (FT.): 699.0

LOGGED (FT.): 1026.0

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	
82.0	BOND	CARTHAGE	LIMESTONE	8.0	617.0	
-54.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	753.0	
-191.0	CARBONDALE	DANVILLE	COAL	-	890.0	
-243.0	CARBONDALE	HERRIN	COAL	3.0	942.0	
-327.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1026.0	

MAPID: 17300762000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY

TWP/RNG: 11N 5E

SECTION: 21

QUARTERS/FOOTAGES: SE SW NE

QUADRANGLE: MIDDLESWORTH

LONGITUDE: -88.645072

GEOLOGIST: TREWORY,J

CONFIDENTIAL: N

LATITUDE: 39.383377

DATE COLLECTED: 4 / 0 / 1955

SURFACE ELEVATION (FT.): 699.0

LOGGED (FT.): 1026.0

LOG TYPE: Electric Log

SOURCE: D. B. LESH DRLG. CO.

WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
699.0			UNKNOWN	890.0	0.0	
-191.0	CARBONDALE	DANVILLE	COAL	0.0	890.0	
-191.0	CARBONDALE		ROCK	52.0	890.0	
-243.0	CARBONDALE	HERRIN	COAL	3.0	942.0	
-246.0	CARBONDALE		ROCK	81.0	945.0	
-327.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1026.0	

MAPID: 17300763000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY

TWP/RNG: 11N 5E

SECTION: 24

QUARTERS/FOOTAGES: SE SE SW

QUADRANGLE: WINDSOR

LONGITUDE: -88.593554

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.375886

DATE COLLECTED:

SURFACE ELEVATION (FT.): 649.0

LOGGED (FT.): 1116.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
45.0	BOND	CARTHAGE	LIMESTONE	9.0	604.0	
-93.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	742.0	
-231.0	CARBONDALE	DANVILLE	COAL	3.0	880.0	
-281.0	CARBONDALE	HERRIN	COAL	3.5	930.0	
-291.0	CARBONDALE	SPRINGFIELD	COAL	-	940.0	
-364.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1013.0	

MAPID: 17300768000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 11N 5E **SECTION:** 27 **QUARTERS/FOOTAGES:** NE NW NE
QUADRANGLE: STEWARDSON WEST **LONGITUDE:** -88.626252 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.374261 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 644.0 **LOGGED (FT.):** 1107.0 **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	
58.0	BOND	CARTHAGE	LIMESTONE	7.0	586.0	
-81.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	725.0	
-221.0	CARBONDALE	DANVILLE	COAL	2.0	865.0	
-270.0	CARBONDALE	HERRIN	COAL	3.5	914.0	
-358.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1002.0	

MAPID: 17300779000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 11N 6E **SECTION:** 2 **QUARTERS/FOOTAGES:** SW SW NE
QUADRANGLE: MATTOON WEST **LONGITUDE:** -88.498909 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.426447 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 719.0 **LOGGED (FT.):** 1345.0 **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	12.0	804.0	
-212.0	MODESTO	WEST FRANKLIN	LIMESTONE	19.0	931.0	
-338.0	CARBONDALE	DANVILLE	COAL	2.0	1057.0	
-418.0	CARBONDALE	HERRIN	COAL	4.0	1137.0	

MAPID: 17300788000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 11N 6E **SECTION:** 10 **QUARTERS/FOOTAGES:** SE NE NE
QUADRANGLE: WINDSOR **LONGITUDE:** -88.510216 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.415697 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 667.0 **LOGGED (FT.):** 1255.0 **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	BOND	CARTHAGE	LIMESTONE	15.0	745.0	
-197.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	864.0	
-330.0	CARBONDALE	DANVILLE	COAL	2.5	997.0	
-405.0	CARBONDALE	HERRIN	COAL	5.0	1072.0	

MAPID: 17321994000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 11N 6E **SECTION:** 15 **QUARTERS/FOOTAGES:** NE SE SW
QUADRANGLE: WINDSOR **LONGITUDE:** -88.519523 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.392147 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 645.0 **LOGGED (FT.):** 1209.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-44.0	BOND	CARTHAGE	LIMESTONE	13.0	689.0	
-178.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	823.0	
-308.0	CARBONDALE	DANVILLE	COAL	-	953.0	
-369.0	CARBONDALE	HERRIN	COAL	4.0	1014.0	
-456.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1101.0	

MAPID: 17300797000C **VERSION:** 1 **PROJECT:** IBC XSECT
COUNTY: SHELBY **TWP/RNG:** 11N 6E **SECTION:** 18 **QUARTERS/FOOTAGES:** NW SW NE
QUADRANGLE: WINDSOR **LONGITUDE:** -88.572925 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.399308 **DATE COLLECTED:** 11 / 0 / 1943
SURFACE ELEVATION (FT.): 679.0 **LOGGED (FT.):** 1188.0 **LOG TYPE:** Survey Core Study
SOURCE: **WELL TYPE:** Producer-Oil
COMMENT: TOPS PICKED FOR ISGS 11:30 X-SECTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-316.0	CARBONDALE	HERRIN	COAL	-	995.0	
-509.0	CARBONDALE	COLCHESTER	COAL	-	1188.0	

MAPID: 17300797000C **VERSION:** 2 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 11N 6E **SECTION:** 18 **QUARTERS/FOOTAGES:** NW SW NE
QUADRANGLE: WINDSOR **LONGITUDE:** -88.572925 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.399308 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 679.0 **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	
13.0	BOND	CARTHAGE	LIMESTONE	8.0	666.0	
-130.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	809.0	
-261.0	CARBONDALE	DANVILLE	COAL	2.0	940.0	
-411.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1090.0	

MAPID: 1730080000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 6E SECTION: 24 QUARTERS/FOOTAGES: NE NW SW
 QUADRANGLE: MATTOON WEST LONGITUDE: -88.486644 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.380808 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 1250.0 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	
-65.0	BOND	CARTHAGE	LIMESTONE	9.0	720.0	
-198.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	853.0	
-337.0	CARBONDALE	DANVILLE	COAL	2.5	992.0	
-405.0	CARBONDALE	HERRIN	COAL	5.0	1060.0	
-421.0	CARBONDALE	SPRINGFIELD	COAL	-	1076.0	
-505.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1160.0	

MAPID: 17300805000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 6E SECTION: 28 QUARTERS/FOOTAGES: NE NW SW
 QUADRANGLE: STEWARDSON EAST LONGITUDE: -88.542508 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.366634 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 636.0 LOGGED (FT.): 1124.0 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	
16.0	BOND	CARTHAGE	LIMESTONE	10.0	620.0	
-120.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	756.0	
-246.0	CARBONDALE	DANVILLE	COAL	-	882.0	
-304.0	CARBONDALE	HERRIN	COAL	5.0	940.0	
-388.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1024.0	

MAPID: 17300806000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 6E SECTION: 29 QUARTERS/FOOTAGES: SE SW NW
 QUADRANGLE: STEWARDSON EAST LONGITUDE: -88.561066 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.368491 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 625.0 LOGGED (FT.): 1117.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG, SPLIT#6?

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
33.0	BOND	CARTHAGE	LIMESTONE	10.0	592.0
-109.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	734.0
-240.0	CARBONDALE	DANVILLE	COAL	2.0	865.0
-296.0	CARBONDALE	HERRIN	COAL	4.0	921.0
-317.0	CARBONDALE	SPRINGFIELD	COAL	-	942.0
-388.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1013.0

MAPID: 17300809000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 11N 6E SECTION: 31 QUARTERS/FOOTAGES: SE SE NW
 QUADRANGLE: STEWARDSON EAST LONGITUDE: -88.574842 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.353992 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 621.0 LOGGED (FT.): 1107.0 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
21.0	BOND	CARTHAGE	LIMESTONE	12.0	600.0
-113.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	734.0
-247.0	CARBONDALE	DANVILLE	COAL	2.5	868.0
-284.0	CARBONDALE	HERRIN	COAL	5.0	905.0
-305.0	CARBONDALE	SPRINGFIELD	COAL	4.0	926.0
-395.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1016.0

MAPID: 17300814000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 2E SECTION: 8 QUARTERS/FOOTAGES: NW NE NE
 QUADRANGLE: OBED LONGITUDE: -88.996262 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.506933 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 647.0 LOGGED (FT.): 894.5 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
277.0	BOND	CARTHAGE	LIMESTONE	8.0	370.0
-86.0	CARBONDALE	SPRINGFIELD	COAL	4.0	733.0
-161.0	CARBONDALE	HOUCHIN CREEK	COAL	-	808.0

MAPID: 17300815000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 12N 2E **SECTION:** 9 **QUARTERS/FOOTAGES:** SE SW NE
QUADRANGLE: OBED **LONGITUDE:** -88.97999 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.501393 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 637.0 **LOGGED (FT.):** 955.0 **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
261.0	BOND	CARTHAGE	LIMESTONE	9.0	376.0
6.0	CARBONDALE	DANVILLE	COAL	-	631.0
-62.0	CARBONDALE	HERRIN	COAL	-	699.0
-94.0	CARBONDALE	SPRINGFIELD	COAL	4.0	731.0
-171.0	CARBONDALE	HOUCHIN CREEK	COAL	-	808.0

MAPID: 17300816000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 12N 2E **SECTION:** 20 **QUARTERS/FOOTAGES:** NE NE NW
QUADRANGLE: PANA **LONGITUDE:** -89.002828 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.477888 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 654.0 **LOGGED (FT.):** 806.0 **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
290.0	BOND	CARTHAGE	LIMESTONE	12.0	364.0
18.0	MODESTO	PIASA	LIMESTONE	7.0	636.0
-75.0	CARBONDALE	SPRINGFIELD	COAL	4.0	729.0
-152.0	CARBONDALE	HOUCHIN CREEK	COAL	-	806.0

MAPID: 17300817000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 12N 2E **SECTION:** 21 **QUARTERS/FOOTAGES:** SW SW NW
QUADRANGLE: TOWER HILL **LONGITUDE:** -88.991227 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.472295 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 659.0 **LOGGED (FT.):** 631.0 **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
277.0	BOND	CARTHAGE	LIMESTONE	10.0	382.0
28.0	CARBONDALE	DANVILLE	COAL	-	631.0

MAPID: 17301174000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 2E SECTION: 23 QUARTERS/FOOTAGES: SE SE NE
 QUADRANGLE: TOWER HILL LONGITUDE: -88.937983 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.471903 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 639.0 LOGGED (FT.): 954.0 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
254.0	BOND	CARTHAGE	LIMESTONE	10.0	385.0
-17.0	CARBONDALE	DANVILLE	COAL	2.5	656.0

MAPID: 17300113000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 2E SECTION: 26 QUARTERS/FOOTAGES: 660' S line, 660' E line of NE SW
 QUADRANGLE: TOWER HILL LONGITUDE: -88.948215 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.454616 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 837.0 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
220.0	BOND	CARTHAGE	LIMESTONE	10.0	420.0
-8.0	MODESTO	PIASA	LIMESTONE	6.0	648.0
-57.0	CARBONDALE	DANVILLE	COAL	4.0	697.0
-138.0	CARBONDALE	SPRINGFIELD	COAL	2.5	778.0
-197.0	CARBONDALE	HOUCHIN CREEK	COAL	-	837.0

MAPID: 17301195000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 2E SECTION: 28 QUARTERS/FOOTAGES: NE NW NW
 QUADRANGLE: TOWER HILL LONGITUDE: -88.988814 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.463178 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 657.0 LOGGED (FT.): 932.0 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
290.0	BOND	CARTHAGE	LIMESTONE	10.0	367.0

MAPID: 17300819000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 2E SECTION: 29 QUARTERS/FOOTAGES: SE SE NW
 QUADRANGLE: PANA LONGITUDE: -89.002606 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.457783 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 671.0 LOGGED (FT.): 632.0 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
301.0	BOND	CARTHAGE	LIMESTONE	10.0	370.0
39.0	CARBONDALE	DANVILLE	COAL	-	632.0

MAPID: 17301736000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 2E SECTION: 36 QUARTERS/FOOTAGES: SW SW NW
 QUADRANGLE: TOWER HILL LONGITUDE: -88.935228 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.442695 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 601.0 LOGGED (FT.): 929.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG, SPLIT 6?

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
209.0	BOND	CARTHAGE	LIMESTONE	10.0	392.0
-73.0	CARBONDALE	DANVILLE	COAL	-	674.0
-107.0	CARBONDALE	HERRIN	COAL	2.5	708.0
-136.0	CARBONDALE	SPRINGFIELD	COAL	4.5	737.0
-205.0	CARBONDALE	HOUCHIN CREEK	COAL	-	806.0

MAPID: 17300822000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 3E SECTION: 1 QUARTERS/FOOTAGES: SE SW NW
 QUADRANGLE: FINDLAY LONGITUDE: -88.823489 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.515596 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 644.0 LOGGED (FT.): 1008.0 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
178.0	BOND	CARTHAGE	LIMESTONE	9.0	466.0
24.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	620.0
-114.0	CARBONDALE	DANVILLE	COAL	2.0	758.0
-172.0	CARBONDALE	SPRINGFIELD	COAL	3.0	816.0
-232.0	CARBONDALE	HOUCHIN CREEK	COAL	-	876.0

MAPID: 17300824000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY

TWP/RNG: 12N 3E

SECTION: 4

QUARTERS/FOOTAGES: SE NE SE

QUADRANGLE: FINDLAY

LONGITUDE: -88.865765

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.511546

DATE COLLECTED:

SURFACE ELEVATION (FT.): 690.0

LOGGED (FT.): 950.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
166.0	BOND	CARTHAGE	LIMESTONE	10.0	524.0
8.0	MODESTO	WEST FRANKLIN	LIMESTONE	19.0	682.0
-130.0	CARBONDALE	DANVILLE	COAL	3.0	820.0
-194.0	CARBONDALE	SPRINGFIELD	COAL	5.0	884.0
-260.0	CARBONDALE	HOUCHIN CREEK	COAL	-	950.0

MAPID: 17300090000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY

TWP/RNG: 12N 3E

SECTION: 6

QUARTERS/FOOTAGES: SW SW SE

QUADRANGLE: OBED

LONGITUDE: -88.910363

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.50792

DATE COLLECTED:

SURFACE ELEVATION (FT.): 647.0

LOGGED (FT.): 860.0

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
210.0	BOND	CARTHAGE	LIMESTONE	-	437.0
52.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	595.0
-83.0	CARBONDALE	DANVILLE	COAL	-	730.0
-116.0	CARBONDALE	HERRIN	COAL	-	763.0
-148.0	CARBONDALE	SPRINGFIELD	COAL	-	795.0
-213.0	CARBONDALE	HOUCHIN CREEK	COAL	-	860.0

MAPID: 17301332000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 3E SECTION: 9 QUARTERS/FOOTAGES: NW NW SW
 QUADRANGLE: TOWER HILL LONGITUDE: -88.881848 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.499022 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 710.0 LOGGED (FT.): 952.0 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
178.0	BOND	CARTHAGE	LIMESTONE	10.0	532.0
5.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	705.0
-114.0	CARBONDALE	DANVILLE	COAL	2.5	824.0
-140.0	CARBONDALE	HERRIN	COAL	-	850.0
-177.0	CARBONDALE	SPRINGFIELD	COAL	-	887.0
-242.0	CARBONDALE	HOUCHIN CREEK	COAL	-	952.0

MAPID: 17301438000C VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 3E SECTION: 10 QUARTERS/FOOTAGES: 25' S line, 25' E line
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.845366 GEOLOGIST: TREWORY,J
 CONFIDENTIAL: N LATITUDE: 39.492762 DATE COLLECTED: 4 / 9 / 1954
 SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 160.0 LOG TYPE: Drillers Log
 SOURCE: SUN OIL CO. WELL TYPE: Engineering Test Holes
 COMMENT: STRUCTURE TEST

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
640.0			UNCONSOLIDATED	135.0	0.0
505.0			ROCK	22.0	135.0
483.0	MATTOON	SHELBYVILLE	COAL	1.0	157.0
482.0			ROCK	2.0	158.0

MAPID: 17300821000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 12N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.836091

GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.50008

DATE COLLECTED: 0 / 0 / 1934

SURFACE ELEVATION (FT.): LOGGED (FT.): 176.0

LOG TYPE: Drillers Log

SOURCE: E.C. BAKER AND SONS

WELL TYPE: Water Well

COMMENT: 1 MI. N, 1 MI. E OF WESTERVELT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	69.0	0.0	
-	MATTOON		GREEN SHALE	13.0	69.0	
-	MATTOON		DARK SHALE	19.0	82.0	
-	MATTOON		COAL	3.0	101.0	
-	MATTOON		SHALE	8.0	104.0	
-	MATTOON		SANDSTONE	6.0	112.0	
-	MATTOON		DARK SHALE	47.0	118.0	
-	MATTOON		SHALE	11.0	165.0	

MAPID: 17301439000C VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 3E SECTION: 11 QUARTERS/FOOTAGES: 25' S line, 50' E line of NE SE

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.826906

GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.496635

DATE COLLECTED: 4 / 13 / 1954

SURFACE ELEVATION (FT.): 663.0 LOGGED (FT.): 200.0

LOG TYPE: Drillers Log

SOURCE: SUN OIL CO.

WELL TYPE: Engineering Test Holes

COMMENT: STRUCTURE TEST

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.0			UNCONSOLIDATED	165.0	0.0	
498.0			ROCK	27.0	165.0	
471.0	MATTOON	SHELBYVILLE	COAL	2.0	192.0	
469.0			ROCK	6.0	194.0	

MAPID: 17301078000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 3E SECTION: 15 QUARTERS/FOOTAGES: SW NW SE
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.853445 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.482756 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 642.0 LOGGED (FT.): 1023.0 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
155.0	BOND	CARTHAGE	LIMESTONE	10.0	487.0
-59.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	701.0
-138.0	CARBONDALE	DANVILLE	COAL	3.0	780.0
-175.0	CARBONDALE	HERRIN	COAL	-	817.0
-201.0	CARBONDALE	SPRINGFIELD	COAL	2.5	843.0
-269.0	CARBONDALE	HOUCHIN CREEK	COAL	-	911.0

MAPID: 17301078000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 3E SECTION: 15 QUARTERS/FOOTAGES: SW NW SE
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.853445 GEOLOGIST: TREWORY,J
 CONFIDENTIAL: N LATITUDE: 39.482756 DATE COLLECTED: 1 / 14 / 1957
 SURFACE ELEVATION (FT.): 642.0 LOGGED (FT.): 1023.0 LOG TYPE: Electric Log
 SOURCE: NATIONAL ASSOC. PETROLEUM CO. WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATIONS BY C. TREWORY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
642.0			UNKNOWN	780.0	0.0
-138.0	CARBONDALE	DANVILLE	COAL	3.0	780.0
-141.0	CARBONDALE		ROCK	34.0	783.0
-175.0	CARBONDALE	HERRIN	COAL	-	817.0
-175.0	CARBONDALE		ROCK	26.0	817.0
-201.0	CARBONDALE	SPRINGFIELD	COAL	2.5	843.0
-203.5	CARBONDALE		ROCK	65.5	845.5
-269.0	CARBONDALE	HOUCHIN CREEK	COAL	-	911.0
-269.0	CARBONDALE		ROCK	112.0	911.0
-381.0	CARBONDALE	COLCHESTER	COAL	-	1023.0

MAPID: 17301440000C VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 3E SECTION: 15 QUARTERS/FOOTAGES: 25' N line, 50' W line of NE NW
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.859226 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 39.492648 DATE COLLECTED: 4 / 12 / 1954
 SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 205.0 LOG TYPE: Drillers Log
 SOURCE: SUN OIL CO. WELL TYPE: Engineering Test Holes
 COMMENT: STRUCTURE TEST

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
670.0			UNCONSOLIDATED	90.0	0.0
580.0			ROCK	92.0	90.0
488.0			COAL	1.0	182.0
487.0			ROCK	22.0	183.0

MAPID: 17300842000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 3E SECTION: 21 QUARTERS/FOOTAGES: NE NW SW
 QUADRANGLE: TOWER HILL LONGITUDE: -88.879102 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.470032 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 656.0 LOGGED (FT.): 1030.0 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
189.0	BOND	CARTHAGE	LIMESTONE	11.0	467.0
16.0	MODESTO	WEST FRANKLIN	LIMESTONE	28.0	640.0
-84.0	CARBONDALE	DANVILLE	COAL	3.0	740.0
-193.0	CARBONDALE	SPRINGFIELD	COAL	4.5	849.0
-258.0	CARBONDALE	HOUCHIN CREEK	COAL	-	914.0

MAPID: 17301442000C VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 3E SECTION: 22 QUARTERS/FOOTAGES: 75' S line, 360' W line of NE NE
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.848581 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 39.47484 DATE COLLECTED: 4 / 7 / 1954
 SURFACE ELEVATION (FT.): 632.0 LOGGED (FT.): 233.0 LOG TYPE: Drillers Log
 SOURCE: SUN OIL CO. WELL TYPE: Engineering Test Holes
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
632.0			UNCONSOLIDATED	148.0	0.0
484.0			BLACK SHALE	1.0	148.0
483.0			COAL	1.0	149.0
482.0			ROCK	59.0	150.0
423.0			COAL	1.0	209.0
422.0			ROCK	23.0	210.0

MAPID: 17300847000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 3E SECTION: 23 QUARTERS/FOOTAGES: NW SE NW
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.83928 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.473786 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 659.0 LOGGED (FT.): 880.0 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
172.0	BOND	CARTHAGE	LIMESTONE	10.0	487.0
10.0	MODESTO	WEST FRANKLIN	LIMESTONE	22.0	649.0
-109.0	CARBONDALE	DANVILLE	COAL	3.0	768.0
-140.0	CARBONDALE	HERRIN	COAL	-	799.0
-168.0	CARBONDALE	SPRINGFIELD	COAL	-	827.0
-221.0	CARBONDALE	HOUCHIN CREEK	COAL	-	880.0

MAPID: 17300847000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 3E SECTION: 23 QUARTERS/FOOTAGES: NW SE NW
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.83928 GEOLOGIST: TREWORY,J
 CONFIDENTIAL: N LATITUDE: 39.473786 DATE COLLECTED: 10 / 29 / 1951
 SURFACE ELEVATION (FT.): 659.0 LOGGED (FT.): 880.0 LOG TYPE: Electric Log
 SOURCE: JAMES G. BROWN WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATIONS BY C. TREWORY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
659.0			UNKNOWN	768.0	0.0
-109.0	CARBONDALE	DANVILLE	COAL	3.0	768.0
-112.0	CARBONDALE		ROCK	28.0	771.0
-140.0	CARBONDALE	HERRIN	COAL	-	799.0
-140.0	CARBONDALE		ROCK	28.0	799.0
-168.0	CARBONDALE	SPRINGFIELD	COAL	-	827.0
-168.0	CARBONDALE		ROCK	53.0	827.0
-221.0	CARBONDALE	HOUCHIN CREEK	COAL	-	880.0

MAPID: 17300848000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 3E SECTION: 23 QUARTERS/FOOTAGES: SE NE SE
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.827506 GEOLOGIST: C TREWORYG
 CONFIDENTIAL: N LATITUDE: 39.468432 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 678.0 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.)	
				UNIT	OVERBURDEN COMMENT
134.0	BOND	CARTHAGE	LIMESTONE	9.0	544.0
-51.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	729.0
-164.0	CARBONDALE	DANVILLE	COAL	2.0	842.0
-189.0	CARBONDALE	HERRIN	COAL	-	867.0
-230.0	CARBONDALE	SPRINGFIELD	COAL	2.5	908.0
-296.0	CARBONDALE	HOUCHIN CREEK	COAL	-	974.0

MAPID: 17300848000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 3E SECTION: 23 QUARTERS/FOOTAGES: SE NE SE
 QUADRANGLE: SHELBYVILLE LONGITUDE: -88.827506 GEOLOGIST: TREWORYG,J
 CONFIDENTIAL: N LATITUDE: 39.468432 DATE COLLECTED: 3 / 13 / 1952
 SURFACE ELEVATION (FT.): 678.0 LOGGED (FT.): 1090.0 LOG TYPE: Electric Log
 SOURCE: JAMES G. BROWN WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
678.0			UNKNOWN	842.0	0.0
-164.0	CARBONDALE	DANVILLE	COAL	2.0	842.0
-166.0	CARBONDALE		ROCK	23.0	844.0
-189.0	CARBONDALE	HERRIN	COAL	0.0	867.0
-189.0	CARBONDALE		ROCK	41.0	867.0
-230.0	CARBONDALE	SPRINGFIELD	COAL	2.5	908.0
-232.5	CARBONDALE		ROCK	63.5	910.5
-296.0	CARBONDALE	HOUCHIN CREEK	COAL	0.0	974.0
-296.0	CARBONDALE		ROCK	116.0	974.0
-412.0	CARBONDALE	COLCHESTER	COAL	0.0	1090.0

MAPID: 17300852000C VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 3E SECTION: 26 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.827347 GEOLOGIST: TREWORY,J

CONFIDENTIAL: N LATITUDE: 39.450279 DATE COLLECTED: 0 / 0 / 1947

SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 169.0 LOG TYPE: Drillers Log

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

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.0			UNCONSOLIDATED	75.0	0.0	
605.0			ROCK	73.0	75.0	
532.0	MATTOON	SHELBYVILLE	COAL	2.0	148.0	
530.0			ROCK	19.0	150.0	

MAPID: 17301114000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 3E SECTION: 26 QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.832044 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.450248 DATE COLLECTED:

SURFACE ELEVATION (FT.): 641.0 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	
97.0	BOND	CARTHAGE	LIMESTONE	10.0	544.0	
-102.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	743.0	
-203.0	CARBONDALE	DANVILLE	COAL	2.5	844.0	
-236.0	CARBONDALE	HERRIN	COAL	2.0	877.0	
-269.0	CARBONDALE	SPRINGFIELD	COAL	3.0	910.0	
-340.0	CARBONDALE	HOUCHIN CREEK	COAL	-	981.0	

MAPID: 17301114000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 3E SECTION: 26 QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.832044 GEOLOGIST: TREWORY,J

CONFIDENTIAL: N LATITUDE: 39.450248 DATE COLLECTED: 6 / 0 / 1957

SURFACE ELEVATION (FT.): 641.0 LOGGED (FT.): 1096.0 LOG TYPE: Electric Log

SOURCE: LAWRENCE POTTER WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
641.0			UNKNOWN	844.0	0.0	
-203.0	CARBONDALE	DANVILLE	COAL	2.5	844.0	
-205.5	CARBONDALE		ROCK	30.5	846.5	
-236.0	CARBONDALE	HERRIN	COAL	2.0	877.0	
-238.0	CARBONDALE		ROCK	31.0	879.0	
-269.0	CARBONDALE	SPRINGFIELD	COAL	3.0	910.0	
-272.0	CARBONDALE		ROCK	68.0	913.0	
-340.0	CARBONDALE	HOUCHIN CREEK	COAL	-	981.0	
-340.0	CARBONDALE		ROCK	115.0	981.0	
-455.0	CARBONDALE	COLCHESTER	COAL	-	1096.0	

MAPID: 17301311000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 3E SECTION: 32 QUARTERS/FOOTAGES: NW NE SW

QUADRANGLE: TOWER HILL LONGITUDE: -88.895197 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.440913 DATE COLLECTED:

SURFACE ELEVATION (FT.): 615.0 LOGGED (FT.): 974.0 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	
222.0	BOND	CARTHAGE	LIMESTONE	9.0	393.0	
27.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	588.0	
-30.0	CARBONDALE	DANVILLE	COAL	-	645.0	

MAPID: 17301473000C **VERSION:** 1 **PROJECT:** BLM
COUNTY: SHELBY **TWP/RNG:** 12N 4E **SECTION:** 2 **QUARTERS/FOOTAGES:** 600' N line, 40' E line
QUADRANGLE: KIRKSVILLE **LONGITUDE:** -88.716121 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 39.520006 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 660.0 **LOGGED (FT.):** 722.0 **LOG TYPE:** Drillers Log
SOURCE: PHILLIPS PETROLEUM CO. **WELL TYPE:** Engineering Test Holes
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
660.0			UNCONSOLIDATED	88.0	0.0
572.0			ROCK	18.0	88.0
554.0			COAL	2.0	106.0
552.0			ROCK	614.0	108.0

MAPID: 17300092000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 12N 4E **SECTION:** 17 **QUARTERS/FOOTAGES:** SE NE NE
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.77305 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.489815 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 680.0 **LOGGED (FT.):** 698.0 **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
150.0	BOND	CARTHAGE	LIMESTONE	9.0	530.0
-12.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	692.0

MAPID: 17301379000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 12N 4E **SECTION:** 22 **QUARTERS/FOOTAGES:** SW SW NW
QUADRANGLE: SHELBYVILLE **LONGITUDE:** -88.751756 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.471338 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 684.0 **LOGGED (FT.):** 1129.0 **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
94.0	BOND	CARTHAGE	LIMESTONE	8.0	590.0
-81.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	765.0
-208.0	CARBONDALE	DANVILLE	COAL	2.0	892.0
-328.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1012.0

MAPID: 17301379000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 4E SECTION: 22 QUARTERS/FOOTAGES: SW SW NW

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.751756 GEOLOGIST: TREWORY,J

CONFIDENTIAL: N LATITUDE: 39.471338 DATE COLLECTED: 5 / 31 / 1966

SURFACE ELEVATION (FT.): 684.0 LOGGED (FT.): 1129.0 LOG TYPE: Electric Log

SOURCE: NATIONAL ASSOC. PETROLEUM CO. WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.0			UNKNOWN	892.0	0.0	
-208.0	CARBONDALE	DANVILLE	COAL	2.0	892.0	
-210.0	CARBONDALE		ROCK	118.0	894.0	
-328.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1012.0	
-328.0	CARBONDALE		ROCK	117.0	1012.0	
-445.0	CARBONDALE	COLCHESTER	COAL	-	1129.0	

MAPID: 17301297000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 4E SECTION: 26 QUARTERS/FOOTAGES: SE NW NW

QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.730627 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.460269 DATE COLLECTED:

SURFACE ELEVATION (FT.): 667.0 LOGGED (FT.): 1107.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG, SH RF #6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
101.0	BOND	CARTHAGE	LIMESTONE	10.0	566.0	
-76.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	743.0	
-193.0	CARBONDALE	DANVILLE	COAL	2.0	860.0	
-238.0	CARBONDALE	HERRIN	COAL	2.0	905.0	
-260.0	CARBONDALE	SPRINGFIELD	COAL	2.5	927.0	
-330.0	CARBONDALE	HOUCHIN CREEK	COAL	-	997.0	

MAPID: 17301297000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 4E SECTION: 26 QUARTERS/FOOTAGES: SE NW NW

QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.730627 GEOLOGIST: TREWORYG,J

CONFIDENTIAL: N LATITUDE: 39.460269 DATE COLLECTED: 5 / 0 / 1962

SURFACE ELEVATION (FT.): 667.0 LOGGED (FT.): 1107.0 LOG TYPE: Electric Log

SOURCE: NATIONAL ASSOC. PETROLEUM CO. WELL TYPE: Oil and Gas Test

COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
667.0			UNKNOWN	860.0	0.0
-193.0	CARBONDALE	DANVILLE	COAL	2.0	860.0
-195.0	CARBONDALE		ROCK	43.0	862.0
-238.0	CARBONDALE	HERRIN	COAL	2.0	905.0
-240.0	CARBONDALE		ROCK	20.0	907.0
-260.0	CARBONDALE	SPRINGFIELD	COAL	2.5	927.0
-262.5	CARBONDALE		ROCK	67.5	929.5
-330.0	CARBONDALE	HOUCHIN CREEK	COAL	-	997.0
-330.0	CARBONDALE		ROCK	110.0	997.0
-440.0	CARBONDALE	COLCHESTER	COAL	-	1107.0

MAPID: 17300072101M VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 4E SECTION: 33 QUARTERS/FOOTAGES: SW SE SE

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.756047 GEOLOGIST: TREWORYG,J

CONFIDENTIAL: N LATITUDE: 39.435198 DATE COLLECTED: 0 / 0 / 1936

SURFACE ELEVATION (FT.): 651.0 LOGGED (FT.): 159.2 LOG TYPE: Measured section

SOURCE: MINE NOTES-RAY KINGSTON, OKAW # 2 WELL TYPE: Underground mine

COMMENT: SEE ALSO FLD NOTES OF EKBLAW ?DIFF SPOT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
651.0			UNKNOWN	35.7	0.0
615.3			CLAYSTONE	7.0	35.7
608.3			SHALE	10.0	42.7
598.3			CLAYSTONE	7.0	52.7
591.3			SANDSTONE	2.0	59.7
589.3			SHALE	12.5	61.7
576.8			LIMESTONE	7.0	74.2
569.8			SANDSTONE	65.0	81.2
504.8			SANDSTONE/SHALE	3.0	146.2
501.8			SHALE	0.8	149.2
501.0	MATTOON	SHELBYVILLE	COAL	2.2	150.0
498.8			UNDERCLAY	2.0	152.2
496.8			LIMESTONE	5.0	154.2

MAPID: 17300072102M VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 4E SECTION: 33 QUARTERS/FOOTAGES:

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.761865

GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.441592

DATE COLLECTED: 5 / 23 / 1930

SURFACE ELEVATION (FT.): LOGGED (FT.): 6.6

LOG TYPE: Measured section

SOURCE: MINE NOTES-RAY KINGSTON, OKAW # 2

WELL TYPE: Underground mine

COMMENT: 2ND RM. N. OFF MAIN E. ENTRY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			SHALE	2.5	
-	MATTOON	SHELBYVILLE	COAL	2.1	
-			UNDERCLAY	2.0	

MAPID: 17300882000C VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 4E SECTION: 33 QUARTERS/FOOTAGES: NE SE SE NE

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.752984

GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.442808

DATE COLLECTED: 0 / 0 / 1934

SURFACE ELEVATION (FT.): 627.0 LOGGED (FT.): 159.0

LOG TYPE: Drillers Log

SOURCE: RAY KINGSTON MINE

WELL TYPE: Coal Test

COMMENT: FLD NOTES OF EKBLWAW SHOW DEPTH OF 127'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
627.0			UNCONSOLIDATED	35.0	0.0
592.0			ROCK	117.0	35.0
475.0	MATTOON	SHELBYVILLE	COAL	2.3	152.0
472.7			ROCK	4.7	154.3

MAPID: 173187A0017F VERSION: 1

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 4E SECTION: 33 QUARTERS/FOOTAGES: SE SE SW

QUADRANGLE: SHELBYVILLE LONGITUDE: -88.76307

GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.435286

DATE COLLECTED: 4 / 12 / 1965

SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 0.0

LOG TYPE: Measured section

SOURCE: FLD NOTES-HOPKINS, CLEGG

WELL TYPE: Outcrop

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
650.0			UNCONSOLIDATED	-	0.0
-			SHALE	15.0	
-			ROCK	1.0	
-			COAL	0.3	
-			UNDERCLAY	3.0	

MAPID: 17300883000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 4E SECTION: 34 QUARTERS/FOOTAGES: NE SE SE
 QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.735026 GEOLOGIST: C TREWORYG
 CONFIDENTIAL: N LATITUDE: 39.436765 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 673.0 LOGGED (FT.): 1105.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: FAIR LOG, 5 CUTOUT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
103.0	BOND	CARTHAGE	LIMESTONE	8.0	570.0
-80.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	753.0
-119.0	MODESTO	PIASA	LIMESTONE	3.0	792.0
-171.0	CARBONDALE	DANVILLE	COAL	2.0	844.0
-246.0	CARBONDALE	HERRIN	COAL	4.0	919.0
-267.0	CARBONDALE	SPRINGFIELD	COAL	2.5	940.0
-331.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1004.0

MAPID: 17300883000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 4E SECTION: 34 QUARTERS/FOOTAGES: NE SE SE
 QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.735026 GEOLOGIST: TREWORYG,J
 CONFIDENTIAL: N LATITUDE: 39.436765 DATE COLLECTED: 5 / 0 / 1951
 SURFACE ELEVATION (FT.): 673.0 LOGGED (FT.): 1105.0 LOG TYPE: Electric Log
 SOURCE: J. F. JONES WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATIONS BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
673.0			UNKNOWN	844.0	0.0
-171.0	CARBONDALE	DANVILLE	COAL	2.0	844.0
-173.0	CARBONDALE		ROCK	73.0	846.0
-246.0	CARBONDALE	HERRIN	COAL	4.0	919.0
-250.0	CARBONDALE		ROCK	17.0	923.0
-267.0	CARBONDALE	SPRINGFIELD	COAL	2.5	940.0
-269.5	CARBONDALE		ROCK	61.5	942.5
-331.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1004.0
-331.0	CARBONDALE		ROCK	101.0	1004.0
-432.0	CARBONDALE	COLCHESTER	COAL	-	1105.0

MAPID: 17301067000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 4E SECTION: 36 QUARTERS/FOOTAGES: 1650' N line, 330' E line of NE
 QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.697976 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.443691 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 685.0 LOGGED (FT.): 1132.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG, SH RF #6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
78.0	BOND	CARTHAGE	LIMESTONE	8.0	607.0
-194.0	CARBONDALE	DANVILLE	COAL	-	879.0
-250.0	CARBONDALE	HERRIN	COAL	2.0	935.0
-268.0	CARBONDALE	SPRINGFIELD	COAL	3.5	953.0
-342.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1027.0

MAPID: 17301067000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 4E SECTION: 36 QUARTERS/FOOTAGES: 1650' N line, 330' E line of NE
 QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.697976 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 39.443691 DATE COLLECTED: 12 / 0 / 1956
 SURFACE ELEVATION (FT.): 685.0 LOGGED (FT.): 1132.0 LOG TYPE: Electric Log
 SOURCE: M. H. RICHARDSON WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATIONS BY C. TREWORGY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
685.0			UNKNOWN	879.0	0.0
-194.0	CARBONDALE	DANVILLE	COAL	-	879.0
-194.0	CARBONDALE		ROCK	56.0	879.0
-250.0	CARBONDALE	HERRIN	COAL	2.0	935.0
-252.0	CARBONDALE		ROCK	16.0	937.0
-268.0	CARBONDALE	SPRINGFIELD	COAL	3.5	953.0
-271.5	CARBONDALE		ROCK	70.5	956.5
-342.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1027.0
-342.0	CARBONDALE		ROCK	105.0	1027.0
-447.0	CARBONDALE	COLCHESTER	COAL	-	1132.0

MAPID: 17301474000C VERSION: 1

PROJECT: BLM

COUNTY: SHELBY

TWP/RNG: 12N 4E

SECTION: 36

QUARTERS/FOOTAGES: SE SE SE SE

QUADRANGLE: MIDDLESWORTH

LONGITUDE: -88.697251

GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N

LATITUDE: 39.434165

DATE COLLECTED:

SURFACE ELEVATION (FT.): 690.0

LOGGED (FT.): 790.0

LOG TYPE: Multiple log types

SOURCE: PHILLIPS PETROLEUM CO.

WELL TYPE: Engineering Test Holes

COMMENT: 4,1

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.0			UNCONSOLIDATED	120.0	0.0	
570.0			ROCK	218.0	120.0	
352.0			ROCK	396.7	338.0	
-44.7			COAL	0.8	734.7	
-45.5			ROCK	54.5	735.5	

MAPID: 17301447000C VERSION: 1

PROJECT: BLM

COUNTY: SHELBY

TWP/RNG: 12N 5E

SECTION: 15

QUARTERS/FOOTAGES: 50' S line, 50' W line of SE SE

QUADRANGLE: MIDDLESWORTH

LONGITUDE: -88.626557

GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N

LATITUDE: 39.477421

DATE COLLECTED: 6 / 12 / 1951

SURFACE ELEVATION (FT.): 667.0

LOGGED (FT.): 365.0

LOG TYPE: Survey Core Study

SOURCE: SUN OIL CO.

WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.0			UNCONSOLIDATED	135.0	0.0	
532.0			ROCK	95.0	135.0	
437.0			COAL/CLAYSTONE	1.0	230.0	
436.0			ROCK	119.0	231.0	
317.0			COAL WITH SHALE	3.0	350.0	
314.0			ROCK	12.0	353.0	

MAPID: 17300890000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 5E SECTION: 16 QUARTERS/FOOTAGES: 230' S line, 330' W line of NW SE

QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.648928 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.481779 DATE COLLECTED:

SURFACE ELEVATION (FT.): 664.0 LOGGED (FT.): 1124.0 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
70.0	BOND	CARTHAGE	LIMESTONE	9.0	594.0
-100.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	764.0
-208.0	CARBONDALE	DANVILLE	COAL	2.5	872.0
-266.0	CARBONDALE	HERRIN	COAL	3.0	930.0
-282.0	CARBONDALE	SPRINGFIELD	COAL	-	946.0
-352.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1016.0

MAPID: 17300890000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 5E SECTION: 16 QUARTERS/FOOTAGES: 230' S line, 330' W line of NW SE

QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.648928 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 39.481779 DATE COLLECTED: 9 / 0 / 1946

SURFACE ELEVATION (FT.): 664.0 LOGGED (FT.): 1124.0 LOG TYPE: Electric Log

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

COMMENT: CORRELATION BY C. TREWORGY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
664.0			UNKNOWN	872.0	0.0
-208.0	CARBONDALE	DANVILLE	COAL	2.5	872.0
-210.5	CARBONDALE		ROCK	55.5	874.5
-266.0	CARBONDALE	HERRIN	COAL	3.0	930.0
-269.0	CARBONDALE		ROCK	13.0	933.0
-282.0	CARBONDALE	SPRINGFIELD	COAL	-	946.0
-282.0	CARBONDALE		ROCK	70.0	946.0
-352.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1016.0
-352.0	CARBONDALE		ROCK	108.0	1016.0
-460.0	CARBONDALE	COLCHESTER	COAL	-	1124.0

MAPID: 17321964000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 5E SECTION: 33 QUARTERS/FOOTAGES: NW NE SE
 QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.643911 GEOLOGIST: C TREWORYG
 CONFIDENTIAL: N LATITUDE: 39.440142 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 683.0 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.)		COMMENT
				UNIT	OVERBURDEN	
77.0	BOND	CARTHAGE	LIMESTONE	7.0	606.0	
-74.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	757.0	
-197.0	CARBONDALE	DANVILLE	COAL	-	880.0	
-257.0	CARBONDALE	HERRIN	COAL	-	940.0	
-270.0	CARBONDALE	SPRINGFIELD	COAL	-	953.0	
-342.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1025.0	

MAPID: 17321964000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 5E SECTION: 33 QUARTERS/FOOTAGES: NW NE SE
 QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.643911 GEOLOGIST: TREWORYG,J
 CONFIDENTIAL: N LATITUDE: 39.440142 DATE COLLECTED: 10 / 25 / 1974
 SURFACE ELEVATION (FT.): 683.0 LOGGED (FT.): 1130.0 LOG TYPE: Electric Log
 SOURCE: SCHAEFER OIL COMPANY WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATION BY C. TREWORYG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.0			UNKNOWN	880.0	0.0	
-197.0	CARBONDALE	DANVILLE	COAL	-	880.0	
-197.0	CARBONDALE		ROCK	60.0	880.0	
-257.0	CARBONDALE	HERRIN	COAL	-	940.0	
-257.0	CARBONDALE		ROCK	13.0	940.0	
-270.0	CARBONDALE	SPRINGFIELD	COAL	-	953.0	
-270.0	CARBONDALE		ROCK	72.0	953.0	
-342.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1025.0	
-342.0	CARBONDALE		ROCK	105.0	1025.0	
-447.0	CARBONDALE	COLCHESTER	COAL	-	1130.0	

MAPID: 17301291000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 5E SECTION: 34 QUARTERS/FOOTAGES: SE SE NW
 QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.632266 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.441872 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 684.0 LOGGED (FT.): 1140.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
74.0	BOND	CARTHAGE	LIMESTONE	7.0	610.0	
-73.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	757.0	
-192.0	CARBONDALE	DANVILLE	COAL	-	876.0	
-251.0	CARBONDALE	HERRIN	COAL	2.0	935.0	
-266.0	CARBONDALE	SPRINGFIELD	COAL	2.0	950.0	
-332.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1016.0	

MAPID: 17301291000C VERSION: 2

PROJECT: BLM

COUNTY: SHELBY TWP/RNG: 12N 5E SECTION: 34 QUARTERS/FOOTAGES: SE SE NW
 QUADRANGLE: MIDDLESWORTH LONGITUDE: -88.632266 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 39.441872 DATE COLLECTED: 4 / 20 / 1962
 SURFACE ELEVATION (FT.): 684.0 LOGGED (FT.): 1140.0 LOG TYPE: Electric Log
 SOURCE: ROMAN D. MILLER WELL TYPE: Oil and Gas Test
 COMMENT: CORRELATION BY C. TREWORGY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.0			UNKNOWN	876.0	0.0	
-192.0	CARBONDALE	DANVILLE	COAL	-	876.0	
-192.0	CARBONDALE		ROCK	59.0	876.0	
-251.0	CARBONDALE	HERRIN	COAL	2.0	935.0	
-253.0	CARBONDALE		ROCK	13.0	937.0	
-266.0	CARBONDALE	SPRINGFIELD	COAL	2.0	950.0	
-268.0	CARBONDALE		ROCK	64.0	952.0	
-332.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1016.0	
-332.0	CARBONDALE		ROCK	124.0	1016.0	
-456.0	CARBONDALE	COLCHESTER	COAL	-	1140.0	

MAPID: 17300924000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 5E SECTION: 36 QUARTERS/FOOTAGES: NE NE NE
 QUADRANGLE: WINDSOR LONGITUDE: -88.585482 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.44683 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 697.0 LOGGED (FT.): 1091.0 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
17.0	BOND	CARTHAGE	LIMESTONE	9.0	680.0
-136.0	MODESTO	WEST FRANKLIN	LIMESTONE	26.0	833.0
-249.0	CARBONDALE	DANVILLE	COAL	-	946.0
-312.0	CARBONDALE	HERRIN	COAL	3.5	1009.0
-325.0	CARBONDALE	SPRINGFIELD	COAL	-	1022.0
-394.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1091.0

MAPID: 17300949000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 6E SECTION: 32 QUARTERS/FOOTAGES: NW SW SW
 QUADRANGLE: WINDSOR LONGITUDE: -88.563289 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.435786 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 737.0 LOGGED (FT.): 1102.0 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
27.0	BOND	CARTHAGE	LIMESTONE	12.0	710.0
-115.0	MODESTO	WEST FRANKLIN	LIMESTONE	19.0	852.0
-235.0	CARBONDALE	DANVILLE	COAL	3.0	972.0
-293.0	CARBONDALE	HERRIN	COAL	3.5	1030.0
-365.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1102.0

MAPID: 17300951000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 12N 6E SECTION: 34 QUARTERS/FOOTAGES: SE SW NE
 QUADRANGLE: WINDSOR LONGITUDE: -88.513851 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.441064 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 755.0 LOGGED (FT.): 1341.0 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	15.0	840.0	
-203.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	958.0	
-333.0	CARBONDALE	DANVILLE	COAL	3.0	1088.0	
-406.0	CARBONDALE	HERRIN	COAL	3.5	1161.0	
-417.0	CARBONDALE	SPRINGFIELD	COAL	-	1172.0	
-501.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1256.0	

MAPID: 17300954000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 13N 2E SECTION: 2 QUARTERS/FOOTAGES: NW SE NW
 QUADRANGLE: OBED LONGITUDE: -88.951621 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.605246 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 666.0 LOGGED (FT.): 895.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
276.0	BOND	CARTHAGE	LIMESTONE	9.0	390.0	
146.0	MODESTO	WEST FRANKLIN	LIMESTONE	19.0	520.0	
9.0	CARBONDALE	DANVILLE	COAL	2.0	657.0	
-26.0	CARBONDALE	HERRIN	COAL	2.0	692.0	
-61.0	CARBONDALE	SPRINGFIELD	COAL	4.0	727.0	
-121.0	CARBONDALE	HOUCHIN CREEK	COAL	-	787.0	

MAPID: 17300955000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 13N 2E SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 1' W line of NW SE
 QUADRANGLE: ASSUMPTION LONGITUDE: -89.023536 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.600366 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 618.0 LOGGED (FT.): 676.0 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
322.0	BOND	CARTHAGE	LIMESTONE	9.0	296.0
69.0	CARBONDALE	DANVILLE	COAL	2.0	549.0
40.0	CARBONDALE	HERRIN	COAL	-	578.0
4.0	CARBONDALE	SPRINGFIELD	COAL	5.0	614.0
-58.0	CARBONDALE	HOUCHIN CREEK	COAL	-	676.0

MAPID: 17300956000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 13N 2E SECTION: 7 QUARTERS/FOOTAGES: 330' S line, 360' E line
 QUADRANGLE: ASSUMPTION LONGITUDE: -89.015235 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.582095 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 624.0 LOGGED (FT.): 798.0 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
311.0	BOND	CARTHAGE	LIMESTONE	10.0	313.0
146.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	478.0
46.0	CARBONDALE	DANVILLE	COAL	3.0	578.0
25.0	CARBONDALE	HERRIN	COAL	5.0	599.0
-8.0	CARBONDALE	SPRINGFIELD	COAL	4.0	632.0
-67.0	CARBONDALE	HOUCHIN CREEK	COAL	-	691.0

MAPID: 17322459000C VERSION: 1

PROJECT: CONF

COUNTY: SHELBY TWP/RNG: 13N 2E SECTION: 8 QUARTERS/FOOTAGES: 140' S line, 1452' E line of SW SE
 QUADRANGLE: ASSUMPTION LONGITUDE: -89.004776 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 39.581604 DATE COLLECTED: 0 / 0 / 1979
 SURFACE ELEVATION (FT.): 603.0 LOGGED (FT.): 658.1 LOG TYPE: Survey Core Study
 SOURCE: NICOR MINERALS, INC. M-1 WELL TYPE: Coal Test
 COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-6.2	CARBONDALE	HERRIN	COAL	5.5	609.2
-40.3	CARBONDALE	SPRINGFIELD	COAL	4.8	643.3

MAPID: 17300957000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 13N 2E SECTION: 9 QUARTERS/FOOTAGES: SW SW NE

QUADRANGLE: OBED LONGITUDE: -88.984147 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.589288 DATE COLLECTED:

SURFACE ELEVATION (FT.): 627.0 LOGGED (FT.): 851.0 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
276.0	BOND	CARTHAGE	LIMESTONE	10.0	351.0
139.0	MODESTO	WEST FRANKLIN	LIMESTONE	22.0	488.0
-1.0	CARBONDALE	DANVILLE	COAL	2.0	628.0
-27.0	CARBONDALE	HERRIN	COAL	4.5	654.0
-65.0	CARBONDALE	SPRINGFIELD	COAL	4.0	692.0
-121.0	CARBONDALE	HOUCHIN CREEK	COAL	-	748.0

MAPID: 17300959000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 13N 2E SECTION: 12 QUARTERS/FOOTAGES: SE SW SW

QUADRANGLE: OBED LONGITUDE: -88.934627 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.581474 DATE COLLECTED:

SURFACE ELEVATION (FT.): 675.0 LOGGED (FT.): 914.0 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
273.0	BOND	CARTHAGE	LIMESTONE	10.0	402.0
138.0	MODESTO	WEST FRANKLIN	LIMESTONE	21.0	537.0
-7.0	CARBONDALE	DANVILLE	COAL	2.0	682.0
-40.0	CARBONDALE	HERRIN	COAL	3.5	715.0
-74.0	CARBONDALE	SPRINGFIELD	COAL	3.0	749.0
-144.0	CARBONDALE	HOUCHIN CREEK	COAL	-	819.0

MAPID: 17300961000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 13N 2E SECTION: 17 QUARTERS/FOOTAGES: SE NW SE
 QUADRANGLE: ASSUMPTION LONGITUDE: -89.000634 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.571147 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 625.0 LOGGED (FT.): 841.0 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
294.0	BOND	CARTHAGE	LIMESTONE	10.0	331.0
149.0	MODESTO	WEST FRANKLIN	LIMESTONE	25.0	476.0
21.0	CARBONDALE	DANVILLE	COAL	2.0	604.0
-13.0	CARBONDALE	HERRIN	COAL	3.5	638.0
-47.0	CARBONDALE	SPRINGFIELD	COAL	4.0	672.0
-101.0	CARBONDALE	HOUCHIN CREEK	COAL	-	726.0

MAPID: 17300964000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 13N 2E SECTION: 17 QUARTERS/FOOTAGES: SE SE SE
 QUADRANGLE: OBED LONGITUDE: -88.995742 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.567493 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 630.0 LOGGED (FT.): 835.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG, SPIT 6?

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
133.0	BOND	CARTHAGE	LIMESTONE	4.0	497.0
25.0	CARBONDALE	DANVILLE	COAL	3.0	605.0
-15.0	CARBONDALE	HERRIN	COAL	3.0	645.0
-42.0	CARBONDALE	SPRINGFIELD	COAL	6.0	672.0
-104.0	CARBONDALE	HOUCHIN CREEK	COAL	-	734.0

MAPID: 17301755000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 13N 2E SECTION: 19 QUARTERS/FOOTAGES: 330' N line, 330' W line
 QUADRANGLE: ASSUMPTION LONGITUDE: -89.023234 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.565621 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 635.0 LOGGED (FT.): 795.0 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
321.0	BOND	CARTHAGE	LIMESTONE	10.0	314.0
147.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	488.0
66.0	CARBONDALE	DANVILLE	COAL	-	569.0
31.0	CARBONDALE	HERRIN	COAL	3.0	604.0
-1.0	CARBONDALE	SPRINGFIELD	COAL	5.0	636.0
-58.0	CARBONDALE	HOUCHIN CREEK	COAL	-	693.0

MAPID: 17301106000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 13N 2E SECTION: 22 QUARTERS/FOOTAGES: NW NW NW
 QUADRANGLE: OBED LONGITUDE: -88.974311 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.565472 DATE COLLECTED:
 SURFACE ELEVATION (FT.): LOGGED (FT.): 77.0 LOG TYPE: Drillers Log
 SOURCE: E.C. BAKER AND SONS WELL TYPE: Water Well
 COMMENT: LOCATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			UNCONSOLIDATED	46.0	0.0
-	MATTOON		DARK SHALE	26.0	46.0
-	MATTOON		COAL	0.5	72.0
-	MATTOON		SHALE	4.5	72.5

MAPID: 17300968000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY

TWP/RNG: 13N 2E

SECTION: 28

QUARTERS/FOOTAGES: NW NE NW

QUADRANGLE: OBED

LONGITUDE: -88.988274

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.550722

DATE COLLECTED:

SURFACE ELEVATION (FT.): 628.0

LOGGED (FT.): 852.0

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
290.0	BOND	CARTHAGE	LIMESTONE	9.0	338.0
138.0	MODESTO	WEST FRANKLIN	LIMESTONE	23.0	490.0
14.0	CARBONDALE	DANVILLE	COAL	-	614.0
-20.0	CARBONDALE	HERRIN	COAL	4.0	648.0
-52.0	CARBONDALE	SPRINGFIELD	COAL	3.0	680.0
-111.0	CARBONDALE	HOUCHIN CREEK	COAL	-	739.0

MAPID: 17300969000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY

TWP/RNG: 13N 2E

SECTION: 30

QUARTERS/FOOTAGES: 330' S line, 673' E line of NW NE

QUADRANGLE: ASSUMPTION

LONGITUDE: -89.020722

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.549156

DATE COLLECTED:

SURFACE ELEVATION (FT.): 629.0

LOGGED (FT.): 802.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG, SPLIT 6?

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
305.0	BOND	CARTHAGE	LIMESTONE	9.0	324.0
140.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	489.0
72.0	CARBONDALE	DANVILLE	COAL	2.0	557.0
10.0	CARBONDALE	HERRIN	COAL	3.0	619.0
-23.0	CARBONDALE	SPRINGFIELD	COAL	4.0	652.0
-91.0	CARBONDALE	HOUCHIN CREEK	COAL	-	720.0

MAPID: 17300971000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 13N 2E SECTION: 34 QUARTERS/FOOTAGES: NW NW NE
 QUADRANGLE: OBED LONGITUDE: -88.964481 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.536173 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 638.0 LOGGED (FT.): 844.0 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
292.0	BOND	CARTHAGE	LIMESTONE	8.0	346.0
145.0	MODESTO	WEST FRANKLIN	LIMESTONE	20.0	493.0
23.0	CARBONDALE	DANVILLE	COAL	2.0	615.0
-12.0	CARBONDALE	HERRIN	COAL	5.0	650.0
-42.0	CARBONDALE	SPRINGFIELD	COAL	5.0	680.0
-98.0	CARBONDALE	HOUCHIN CREEK	COAL	-	736.0

MAPID: 17300096000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 13N 3E SECTION: 12 QUARTERS/FOOTAGES: 660' S line, 330' E line
 QUADRANGLE: FINDLAY LONGITUDE: -88.811063 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.581961 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 667.0 LOGGED (FT.): 980.0 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
214.0	BOND	CARTHAGE	LIMESTONE	10.0	453.0
67.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	600.0
-72.0	CARBONDALE	DANVILLE	COAL	3.5	739.0
-87.0	CARBONDALE	HERRIN	COAL	5.0	754.0
-131.0	CARBONDALE	SPRINGFIELD	COAL	4.0	798.0
-198.0	CARBONDALE	HOUCHIN CREEK	COAL	-	865.0

MAPID: 17300978000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY

TWP/RNG: 13N 3E

SECTION: 15

QUARTERS/FOOTAGES: SW NE NE

QUADRANGLE: FINDLAY

LONGITUDE: -88.850191

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.577108

DATE COLLECTED:

SURFACE ELEVATION (FT.): 709.0

LOGGED (FT.): 916.0

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
205.0	BOND	CARTHAGE	LIMESTONE	10.0	504.0
55.0	MODESTO	WEST FRANKLIN	LIMESTONE	20.0	654.0
-78.0	CARBONDALE	DANVILLE	COAL	3.0	787.0
-143.0	CARBONDALE	SPRINGFIELD	COAL	5.0	852.0
-207.0	CARBONDALE	HOUCHIN CREEK	COAL	-	916.0

MAPID: 17300097000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY

TWP/RNG: 13N 3E

SECTION: 36

QUARTERS/FOOTAGES: SW NW NW

QUADRANGLE: FINDLAY

LONGITUDE: -88.826395

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.533683

DATE COLLECTED:

SURFACE ELEVATION (FT.): 671.0

LOGGED (FT.): 906.0

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
179.0	BOND	CARTHAGE	LIMESTONE	10.0	492.0
21.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	650.0
-115.0	CARBONDALE	DANVILLE	COAL	3.0	786.0
-141.0	CARBONDALE	HERRIN	COAL	4.0	812.0
-170.0	CARBONDALE	SPRINGFIELD	COAL	3.0	841.0
-235.0	CARBONDALE	HOUCHIN CREEK	COAL	-	906.0

MAPID: 17300120000C VERSION: 1

PROJECT: NCRDS88

COUNTY: SHELBY TWP/RNG: 13N 4E SECTION: 16 QUARTERS/FOOTAGES: NE NW

QUADRANGLE: FINDLAY LONGITUDE: -88.766965 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.578508 DATE COLLECTED: 0 / 0 / 1937

SURFACE ELEVATION (FT.): LOGGED (FT.): 265.0 LOG TYPE: Drillers Log

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

COMMENT: LOCATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			UNCONSOLIDATED	92.0	0.0
-	MATTOON		SHALE	70.0	92.0
-	MATTOON		BLACK SHALE	8.0	162.0
-	MATTOON		SHALE	35.0	170.0
-	MATTOON		COAL	2.0	205.0
-	MATTOON		SANDSTONE	58.0	207.0

MAPID: 17301307000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 13N 4E SECTION: 17 QUARTERS/FOOTAGES: NE NE SW

QUADRANGLE: FINDLAY LONGITUDE: -88.784373 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.572156 DATE COLLECTED:

SURFACE ELEVATION (FT.): 669.0 LOGGED (FT.): 1038.0 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
212.0	BOND	CARTHAGE	LIMESTONE	9.0	457.0
69.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	600.0
-46.0	CARBONDALE	DANVILLE	COAL	2.0	715.0

MAPID: 17301126000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 13N 4E SECTION: 21 QUARTERS/FOOTAGES: SE SE NE

QUADRANGLE: FINDLAY LONGITUDE: -88.755939 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.559303 DATE COLLECTED:

SURFACE ELEVATION (FT.): 668.0 LOGGED (FT.): 1070.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
137.0	BOND	CARTHAGE	LIMESTONE	7.0	531.0
-10.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	678.0
-154.0	CARBONDALE	DANVILLE	COAL	3.0	822.0
-182.0	CARBONDALE	HERRIN	COAL	3.0	850.0
-219.0	CARBONDALE	SPRINGFIELD	COAL	4.0	887.0
-289.0	CARBONDALE	HOUCHIN CREEK	COAL	-	957.0

MAPID: 17322460000C VERSION: 1

PROJECT: CONF

COUNTY: SHELBY TWP/RNG: 14N 2E SECTION: 27 QUARTERS/FOOTAGES: 1384' S line, 385' E line of NE SE

QUADRANGLE: MACON EAST LONGITUDE: -88.959617 GEOLOGIST: LOG BOOK

CONFIDENTIAL: N LATITUDE: 39.631785 DATE COLLECTED: 9 / 28 / 1979

SURFACE ELEVATION (FT.): 682.0 LOGGED (FT.): 740.0 LOG TYPE: Survey Core Study

SOURCE: NICOR M-2 WELL TYPE: Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-6.0	CARBONDALE	HERRIN	COAL	2.3	688.0
-41.0	CARBONDALE	SPRINGFIELD	COAL	1.5	723.0

MAPID: 17300116000C VERSION: 1

PROJECT: NCRDS87

COUNTY: SHELBY TWP/RNG: 14N 2E SECTION: 31 QUARTERS/FOOTAGES: 1600' N line, 860' W line

QUADRANGLE: ASSUMPTION LONGITUDE: -89.021901 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 39.620438 DATE COLLECTED:

SURFACE ELEVATION (FT.): 626.0 LOGGED (FT.): 580.0 LOG TYPE: Drillers Log

SOURCE: MOWEAQUA WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
626.0			UNCONSOLIDATED	52.0	0.0	
574.0	BOND	MILLERSVILLE	LIMESTONE	6.0	52.0	UNCERTAIN CORRELATION
568.0	BOND	MILLERSVILLE	SHALE	0.3	58.0	
567.7	BOND	MILLERSVILLE	LIMESTONE	3.8	58.3	UNCERTAIN CORRELATION
563.9	BOND	MILLERSVILLE	BLACK SHALE	2.5	62.1	
561.4	BOND	MILLERSVILLE	LIMESTONE	2.0	64.6	UNCERTAIN CORRELATION
559.4	BOND		SHALE	1.0	66.6	
558.4	BOND		BLACK SHALE	2.0	67.6	
556.4	BOND		SHALE	1.1	69.6	
555.3	BOND		BLACK SHALE	0.7	70.7	
554.7	BOND		SHALE	7.5	71.3	
547.2	BOND		SHALE	33.8	78.8	
513.3	BOND		BLACK SHALE	0.3	112.7	
513.0	BOND		SHALE	17.0	113.0	
496.0	BOND		BLACK SHALE	1.5	130.0	
494.5	BOND		COAL	0.3	131.5	
494.2	BOND		UNDERCLAY	6.3	131.8	
487.9	BOND		SHALE	19.0	138.1	
468.9	BOND		GRAY SHALE	10.0	157.1	
458.9	BOND		BLACK SHALE	1.0	167.1	
457.9	BOND		LIMESTONE	3.0	168.1	
454.9	BOND		GRAY SHALE	0.6	171.1	
454.3	BOND		COAL	0.4	171.7	
454.0	BOND		UNDERCLAY	5.2	172.0	
448.8	BOND		SANDSTONE	63.9	177.2	
384.9	BOND		SHALE	11.3	241.1	
373.6	BOND		LIMESTONE	0.2	252.4	
373.5	BOND		GRAY SHALE	2.5	252.5	
371.0	BOND		SHALE	0.4	255.0	
370.5	BOND		LIMESTONE	1.0	255.5	
369.5	BOND		GRAY SHALE	6.7	256.5	
362.9	BOND		LIMESTONE	0.3	263.1	
362.5	BOND		GRAY SHALE	2.0	263.5	
360.5	BOND	CARTHAGE	LIMESTONE	9.2	265.5	UNCERTAIN CORRELATION
351.4	MODESTO		GRAY SHALE	0.5	274.6	
350.9	MODESTO		BLACK SHALE	2.2	275.1	
348.7	MODESTO		SHALE	0.1	277.3	
348.6	MODESTO		GRAY SHALE	8.0	277.4	
340.6	MODESTO		BONE COAL	0.3	285.4	

340.4	MODESTO		SHALE	5.0	285.6	
335.4	MODESTO		LIMESTONE	3.5	290.6	
331.9	MODESTO		SHALE	5.5	294.1	
326.4	MODESTO		LIMESTONE	0.5	299.6	
325.9	MODESTO		SHALE	4.8	300.1	
321.1	MODESTO		SHALE	0.8	304.9	
320.4	MODESTO		SHALE	2.8	305.6	
317.6	MODESTO		SHALE	2.5	308.4	
315.1	MODESTO		SHALE	35.7	310.9	
279.5	MODESTO		SHALE	25.0	346.5	
254.5	MODESTO		LIMESTONE	0.5	371.5	
254.0	MODESTO		BLACK SHALE	2.5	372.0	
251.5	MODESTO		COAL	0.5	374.5	
251.0	MODESTO		SHALE	4.0	375.0	
247.0	MODESTO		LIMESTONE	6.5	379.0	
240.5	MODESTO		SANDSTONE	9.5	385.5	
231.0	MODESTO		SHALE	3.8	395.0	
227.1	MODESTO		LIMESTONE	0.2	398.9	
227.0	MODESTO		SHALE	20.2	399.0	
206.8	MODESTO		LIMESTONE	0.2	419.2	
206.6	MODESTO		SHALE	4.6	419.4	
202.0	MODESTO		SHALE	0.7	424.0	
201.4	MODESTO		SHALE	1.0	424.6	
200.4	MODESTO	WEST FRANKLIN	LIMESTONE	2.5	425.6	UNCERTAIN CORRELATION
197.9	MODESTO		SHALE	1.3	428.1	
196.6	MODESTO		LIMESTONE	0.5	429.4	UNCERTAIN CORRELATION
196.1	MODESTO		SHALE	7.7	429.9	
188.4	MODESTO		SHALE	9.0	437.6	
179.4	MODESTO		SHALE	40.0	446.6	
139.4	MODESTO		SHALE	21.5	486.6	
117.9	MODESTO		BLACK SHALE	3.5	508.1	
114.4	MODESTO		SHALE	5.5	511.6	
108.9	CARBONDALE	DANVILLE	COAL	4.2	517.1	
104.8	CARBONDALE		UNDERCLAY	2.0	521.2	
102.8	CARBONDALE		SHALE	0.3	523.2	
102.4	CARBONDALE		COAL	0.8	523.6	
101.6	CARBONDALE		SHALE	2.9	524.4	
98.7	CARBONDALE		LIMESTONE	2.3	527.3	
96.4	CARBONDALE		DARK SHALE	1.0	529.6	
95.4	CARBONDALE		SANDSTONE	5.3	530.6	
90.2	CARBONDALE		GRAY SHALE	0.8	535.8	
89.4	CARBONDALE		LIMESTONE	1.3	536.6	
88.2	CARBONDALE		SHALE	0.4	537.8	
87.8	CARBONDALE	BRERETON	LIMESTONE	4.5	538.2	
83.3	CARBONDALE	ANNA	BLACK SHALE	0.3	542.7	
82.9	CARBONDALE	HERRIN	COAL	6.3	543.1	
76.6	CARBONDALE		UNDERCLAY	4.0	549.4	

MAPID: 17300116000C **VERSION:** 2 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 14N 2E **SECTION:** 31 **QUARTERS/FOOTAGES:** 1600' N line, 860' W line
QUADRANGLE: ASSUMPTION **LONGITUDE:** -89.021901 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.620438 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 628.0 **LOGGED (FT.):** 625.2 **LOG TYPE:** Survey Core Study
SOURCE: **WELL TYPE:** Coal Test
COMMENT: SEE P8 RI 156, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
339.0	BOND	CARTHAGE	LIMESTONE	9.0	289.0	
88.0	CARBONDALE	DANVILLE	COAL	5.0	540.0	
62.0	CARBONDALE	HERRIN	COAL	6.3	566.0	
8.0	CARBONDALE	SPRINGFIELD	COAL	5.2	620.0	

MAPID: 17322461000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: SHELBY **TWP/RNG:** 14N 2E **SECTION:** 34 **QUARTERS/FOOTAGES:** 117' N line, 31' E line of NE NE
QUADRANGLE: OBED **LONGITUDE:** -88.958114 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 39.624008 **DATE COLLECTED:** 10 / 25 / 1979
SURFACE ELEVATION (FT.): 666.0 **LOGGED (FT.):** 740.0 **LOG TYPE:** Survey Core Study
SOURCE: NICOR M-6 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-46.8	CARBONDALE	SPRINGFIELD	COAL	4.7	712.8	REMOVED BY CO.

MAPID: 17301013000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: SHELBY **TWP/RNG:** 14N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:** SW SE SE
QUADRANGLE: FINDLAY **LONGITUDE:** -88.850496 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 39.610096 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 710.0 **LOGGED (FT.):** 982.0 **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	
239.0	BOND	CARTHAGE	LIMESTONE	10.0	471.0	
106.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	604.0	
-35.0	CARBONDALE	DANVILLE	COAL	3.0	745.0	
-54.0	CARBONDALE	HERRIN	COAL	3.0	764.0	
-94.0	CARBONDALE	SPRINGFIELD	COAL	4.0	804.0	
-160.0	CARBONDALE	HOUCHIN CREEK	COAL	-	870.0	

MAPID: 17301083000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: SHELBY TWP/RNG: 14N 3E SECTION: 36 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: FINDLAY LONGITUDE: -88.810781 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.610402 DATE COLLECTED:

SURFACE ELEVATION (FT.): 673.0 LOGGED (FT.): 970.0 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
228.0	BOND	CARTHAGE	LIMESTONE	9.0	445.0
78.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	595.0
-51.0	CARBONDALE	DANVILLE	COAL	4.0	724.0
-95.0	CARBONDALE	HERRIN	COAL	4.0	768.0
-123.0	CARBONDALE	SPRINGFIELD	COAL	4.0	796.0
-193.0	CARBONDALE	HOUCHIN CREEK	COAL	-	866.0