

Status Report

Total Records: 584

Top 3 County Records		Top 3 Log Type Records		Top 3 Coal Records		Top 3 Member Records	
Lawrence	584	Electric Log	443	SPRINGFIELD	545	SPRINGFIELD COAL	545
		Drillers Log	79	DANVILLE	535	DANVILLE COAL	535
		Nuclear Log	41	HOUCHIN CREEK	489	HOUCHIN CREEK COAL	489

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 - LOWER		703.0	703.0	703.0	1.0	1.0	1.0
SURVANT - UPPER		696.0	696.0	696.0	1.0	1.0	1.0
MT. CARMEL	SANDSTONE	77.4	20.0	124.0	33.0	2.0	125.0
CARTHAGE	LIMESTONE	178.3	102.0	266.0	7.0	2.0	14.0
WOMAC	COAL	99.5	99.5	99.5	0.5	0.5	0.5
CRAMER	LIMESTONE	130.0	100.0	160.0	3.8	2.0	5.5
CHAPEL	COAL	224.8	210.5	239.0	3.0	3.0	3.0
TRIVOLI	SANDSTONE	163.9	95.0	228.0	49.9	14.0	111.0
WEST FRANKLIN	LIMESTONE	354.2	142.0	767.0	8.3	0.8	30.0
PIRTLE (IN)	COAL	269.7	201.5	416.8	1.3	0.4	2.5
BUSSERON (IN)	SANDSTONE	278.4	235.0	321.0	31.4	9.0	67.0
DANVILLE	COAL	472.2	250.0	925.0	3.1	1.5	5.0
BANKSTON FORK	LIMESTONE	290.8	268.0	319.0	11.0	7.0	13.0
JAMESTOWN	COAL	482.7	288.0	961.0	3.7	1.0	8.6
BRERETON	LIMESTONE	333.6	296.0	383.0	2.5	1.5	4.0
ANNA	SHALE	397.4	335.0	505.0	1.9	0.3	4.7
HERRIN	COAL	527.5	297.0	974.0	2.4	0.5	4.5
BRIAR HILL	COAL	429.4	351.0	616.8	2.1	0.6	4.0
ST. DAVID	LIMESTONE	429.3	375.0	599.7	2.4	1.2	4.0
TURNER MINE	SHALE	433.0	377.0	603.6	2.5	1.0	5.0
SPRINGFIELD	COAL	590.9	370.0	1086.0	3.5	1.5	7.3
EXCELLO	SHALE	560.4	518.0	651.0	2.6	1.0	5.5
HOUCHIN CREEK	COAL	691.5	481.0	1152.0	1.2	0.5	2.5
SURVANT	COAL	612.7	530.5	753.7	3.7	2.0	5.3
MECCA QUARRY	SHALE	682.1	648.0	751.5	11.4	2.0	17.0
COLCHESTER	COAL	792.3	544.0	1250.0	1.3	0.8	2.3
SEELYVILLE	COAL	819.0	556.0	1300.0	3.6	1.5	8.5
				Net Coal	29.3		

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: 10100534000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 3 QUARTERS/FOOTAGES: NW NW SW
QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.629334 GEOLOGIST: C TREWORYG
CONFIDENTIAL: N LATITUDE: 38.634271 DATE COLLECTED:
SURFACE ELEVATION (FT.): 408.0 LOGGED (FT.): 729.5 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
14.0	CARBONDALE	DANVILLE	COAL	2.5	394.0
-3.0	CARBONDALE	JAMESTOWN	COAL	-	411.0
-82.0	CARBONDALE	SPRINGFIELD	COAL	3.0	490.0
-176.0	CARBONDALE	HOUCHIN CREEK	COAL	-	584.0
-292.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-318.0	SPOON	SEELYVILLE	COAL	3.5	726.0

MAPID: 10101941000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 3 QUARTERS/FOOTAGES: SE NE SW

QUADRANGLE: VINCENNES LONGITUDE: -87.622372 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.632215 DATE COLLECTED:

SURFACE ELEVATION (FT.): 408.0 LOGGED (FT.): 724.0 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
36.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	372.0
24.0	CARBONDALE	DANVILLE	COAL	3.5	384.0
7.0	CARBONDALE	JAMESTOWN	COAL	-	401.0
-70.0	CARBONDALE	SPRINGFIELD	COAL	3.0	478.0
-172.0	CARBONDALE	HOUCHIN CREEK	COAL	-	580.0
-287.0	CARBONDALE	COLCHESTER	COAL	-	695.0
-311.0	SPOON	SEELYVILLE	COAL	5.0	719.0

MAPID: 10100533000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 4 QUARTERS/FOOTAGES: SW NW SW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.647855 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.632247 DATE COLLECTED:

SURFACE ELEVATION (FT.): 411.0 LOGGED (FT.): 703.0 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
174.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	237.0
51.0	CARBONDALE	DANVILLE	COAL	3.0	360.0
27.0	CARBONDALE	JAMESTOWN	COAL	-	384.0
-48.0	CARBONDALE	SPRINGFIELD	COAL	3.0	459.0
-143.0	CARBONDALE	HOUCHIN CREEK	COAL	-	554.0
-269.0	CARBONDALE	COLCHESTER	COAL	-	680.0
-289.0	SPOON	SEELYVILLE	COAL	3.0	700.0

MAPID: 10101546000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 4 QUARTERS/FOOTAGES: SE NE NW
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.640916 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.640378 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 407.0 LOGGED (FT.): 723.0 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
146.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	261.0
29.0	CARBONDALE	DANVILLE	COAL	3.5	378.0
9.0	CARBONDALE	JAMESTOWN	COAL	-	398.0
-66.0	CARBONDALE	SPRINGFIELD	COAL	3.0	473.0
-163.0	CARBONDALE	HOUCHIN CREEK	COAL	-	570.0
-288.0	CARBONDALE	COLCHESTER	COAL	-	695.0
-312.0	SPOON	SEELYVILLE	COAL	4.0	719.0

MAPID: 10101630000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 4 QUARTERS/FOOTAGES: 330' N line, 660' W line of SE NW
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.642072 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.63845 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 408.0 LOGGED (FT.): 726.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	256.0
33.0	CARBONDALE	DANVILLE	COAL	3.5	375.0
7.0	CARBONDALE	JAMESTOWN	COAL	-	401.0
-69.0	CARBONDALE	SPRINGFIELD	COAL	2.5	477.0
-162.0	CARBONDALE	HOUCHIN CREEK	COAL	-	570.0
-294.0	CARBONDALE	COLCHESTER	COAL	-	702.0
-314.0	SPOON	SEELYVILLE	COAL	4.0	722.0

MAPID: 10100006000C VERSION: 1

PROJECT: CONTROL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 5 QUARTERS/FOOTAGES: 990' S line, 330' W line of NE
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.657281 GEOLOGIST: HINES
 CONFIDENTIAL: N LATITUDE: 38.638055 DATE COLLECTED:
 SURFACE ELEVATION (FT.): LOGGED (FT.): 1885.0 LOG TYPE: Survey Sample Study
 SOURCE: BAUER, JOSEPH E. 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: 10100527000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 5 QUARTERS/FOOTAGES: NW SE NE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.652559 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.638358 DATE COLLECTED:

SURFACE ELEVATION (FT.): 416.0 LOGGED (FT.): 709.5 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
164.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	252.0
45.0	CARBONDALE	DANVILLE	COAL	2.0	371.0
27.0	CARBONDALE	JAMESTOWN	COAL	4.5	389.0
-56.0	CARBONDALE	SPRINGFIELD	COAL	2.0	472.0
-148.0	CARBONDALE	HOUCHIN CREEK	COAL	-	564.0
-271.0	CARBONDALE	COLCHESTER	COAL	-	687.0
-290.0	SPOON	SEELYVILLE	COAL	3.5	706.0

MAPID: 10101506000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 5 QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.657262 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.64041 DATE COLLECTED:

SURFACE ELEVATION (FT.): 427.0 LOGGED (FT.): 721.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	256.0
45.0	CARBONDALE	DANVILLE	COAL	3.0	382.0
24.0	CARBONDALE	JAMESTOWN	COAL	4.0	403.0
19.0	CARBONDALE	HERRIN	COAL	-	408.0
-54.0	CARBONDALE	SPRINGFIELD	COAL	3.0	481.0
-140.0	CARBONDALE	HOUCHIN CREEK	COAL	-	567.0
-273.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-291.0	SPOON	SEELYVILLE	COAL	3.0	718.0

MAPID: 10102761000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 5 QUARTERS/FOOTAGES: NE NW SW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.664347 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.634326 DATE COLLECTED:

SURFACE ELEVATION (FT.): 421.0 LOGGED (FT.): 692.5 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
190.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	231.0
64.0	CARBONDALE	DANVILLE	COAL	3.0	357.0
41.0	CARBONDALE	JAMESTOWN	COAL	-	380.0
-34.0	CARBONDALE	SPRINGFIELD	COAL	4.0	455.0
-129.0	CARBONDALE	HOUCHIN CREEK	COAL	-	550.0
-249.0	CARBONDALE	COLCHESTER	COAL	-	670.0
-267.0	SPOON	SEELYVILLE	COAL	4.5	688.0

MAPID: 10101799000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 6 QUARTERS/FOOTAGES: 420' S line, 333' W line

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.683825 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.628445 DATE COLLECTED:

SURFACE ELEVATION (FT.): 461.0 LOGGED (FT.): 742.0 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
45.0	CARBONDALE	DANVILLE	COAL	3.5	416.0
25.0	CARBONDALE	JAMESTOWN	COAL	4.5	436.0
18.0	CARBONDALE	HERRIN	COAL	-	443.0
-51.0	CARBONDALE	SPRINGFIELD	COAL	3.5	512.0
-142.0	CARBONDALE	HOUCHIN CREEK	COAL	-	603.0
-269.0	CARBONDALE	COLCHESTER	COAL	-	730.0
-279.0	SPOON	SEELYVILLE	COAL	2.0	740.0

MAPID: 10101967000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.678322 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.636306 DATE COLLECTED:

SURFACE ELEVATION (FT.): 429.0 LOGGED (FT.): 716.5 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
169.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	260.0
51.0	CARBONDALE	DANVILLE	COAL	4.0	378.0
28.0	CARBONDALE	JAMESTOWN	COAL	-	401.0
-49.0	CARBONDALE	SPRINGFIELD	COAL	3.5	478.0
-141.0	CARBONDALE	HOUCHIN CREEK	COAL	-	570.0
-266.0	CARBONDALE	COLCHESTER	COAL	-	695.0
-283.0	SPOON	SEELYVILLE	COAL	4.5	712.0

MAPID: 10102202000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 6 QUARTERS/FOOTAGES: 660' N line, 330' E line of SW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.678343 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.633572 DATE COLLECTED:

SURFACE ELEVATION (FT.): 423.0 LOGGED (FT.): 711.0 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
170.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	253.0
47.0	CARBONDALE	DANVILLE	COAL	4.0	376.0
24.0	CARBONDALE	JAMESTOWN	COAL	-	399.0
-53.0	CARBONDALE	SPRINGFIELD	COAL	3.0	476.0
-145.0	CARBONDALE	HOUCHIN CREEK	COAL	-	568.0
-267.0	CARBONDALE	COLCHESTER	COAL	-	690.0
-284.0	SPOON	SEELYVILLE	COAL	4.0	707.0

MAPID: 10103030000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 6 QUARTERS/FOOTAGES: NE SE SE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.669074 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.630265 DATE COLLECTED:

SURFACE ELEVATION (FT.): 409.0 LOGGED (FT.): 690.0 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
57.0	CARBONDALE	DANVILLE	COAL	3.5	352.0
34.0	CARBONDALE	JAMESTOWN	COAL	-	375.0
-44.0	CARBONDALE	SPRINGFIELD	COAL	3.0	453.0
-136.0	CARBONDALE	HOUCHIN CREEK	COAL	-	545.0
-258.0	CARBONDALE	COLCHESTER	COAL	-	667.0
-278.0	SPOON	SEELYVILLE	COAL	3.0	687.0

MAPID: 10100777000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 7 QUARTERS/FOOTAGES: 1650' S line, 1470' W line of SW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.679934 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.617195 DATE COLLECTED:

SURFACE ELEVATION (FT.): 412.0 LOGGED (FT.): 693.0 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
38.0	CARBONDALE	DANVILLE	COAL	4.0	374.0
16.0	CARBONDALE	JAMESTOWN	COAL	-	396.0
-53.0	CARBONDALE	SPRINGFIELD	COAL	3.0	465.0
-146.0	CARBONDALE	HOUCHIN CREEK	COAL	-	558.0
-268.0	CARBONDALE	COLCHESTER	COAL	-	680.0
-281.0	SPOON	SEELYVILLE	COAL	-	693.0

MAPID: 10101853000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 7 QUARTERS/FOOTAGES: NE NW NE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.673727 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.626312 DATE COLLECTED:

SURFACE ELEVATION (FT.): 415.0 LOGGED (FT.): 693.5 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
60.0	CARBONDALE	DANVILLE	COAL	3.0	355.0
38.0	CARBONDALE	JAMESTOWN	COAL	-	377.0
-39.0	CARBONDALE	SPRINGFIELD	COAL	3.0	454.0
-133.0	CARBONDALE	HOUCHIN CREEK	COAL	-	548.0
-255.0	CARBONDALE	COLCHESTER	COAL	-	670.0
-275.0	SPOON	SEELYVILLE	COAL	3.5	690.0

MAPID: 10100531000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 8 QUARTERS/FOOTAGES: NW NW NW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.666737 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.626276 DATE COLLECTED:

SURFACE ELEVATION (FT.): 465.0 LOGGED (FT.): 727.0 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
68.0	CARBONDALE	DANVILLE	COAL	4.0	397.0
48.0	CARBONDALE	JAMESTOWN	COAL	-	417.0
-31.0	CARBONDALE	SPRINGFIELD	COAL	4.0	496.0
-122.0	CARBONDALE	HOUCHIN CREEK	COAL	-	587.0
-245.0	CARBONDALE	COLCHESTER	COAL	-	710.0
-259.0	SPOON	SEELYVILLE	COAL	3.0	724.0

MAPID: 10101087000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 8 QUARTERS/FOOTAGES: 3630' N line, 990' E line

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.652499 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.617156 DATE COLLECTED:

SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 721.5 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
235.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	193.0
48.0	CARBONDALE	DANVILLE	COAL	4.0	380.0
27.0	CARBONDALE	JAMESTOWN	COAL	-	401.0
-47.0	CARBONDALE	SPRINGFIELD	COAL	2.5	475.0
-142.0	CARBONDALE	HOUCHIN CREEK	COAL	-	570.0
-259.0	CARBONDALE	COLCHESTER	COAL	-	687.0
-288.0	SPOON	SEELYVILLE	COAL	5.5	716.0

MAPID: 10101161000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 8 QUARTERS/FOOTAGES: 2310' N line, 1650' E line

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.654812 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.620804 DATE COLLECTED:

SURFACE ELEVATION (FT.): 457.0 LOGGED (FT.): 727.0 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
173.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	284.0
62.0	CARBONDALE	DANVILLE	COAL	4.5	395.0
38.0	CARBONDALE	JAMESTOWN	COAL	-	419.0
-38.0	CARBONDALE	SPRINGFIELD	COAL	4.0	495.0
-136.0	CARBONDALE	HOUCHIN CREEK	COAL	-	593.0
-249.0	CARBONDALE	COLCHESTER	COAL	-	706.0
-266.0	SPOON	SEELYVILLE	COAL	4.0	723.0

MAPID: 10101658000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 8 QUARTERS/FOOTAGES: 2372' N line, 1001' W line

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.664306 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.620649 DATE COLLECTED:

SURFACE ELEVATION (FT.): 461.0 LOGGED (FT.): 750.0 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
183.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	278.0
51.0	CARBONDALE	DANVILLE	COAL	2.0	410.0
31.0	CARBONDALE	JAMESTOWN	COAL	-	430.0
-44.0	CARBONDALE	SPRINGFIELD	COAL	3.0	505.0
-136.0	CARBONDALE	HOUCHIN CREEK	COAL	-	597.0
-262.0	CARBONDALE	COLCHESTER	COAL	-	723.0
-285.0	SPOON	SEELYVILLE	COAL	4.0	746.0

MAPID: 10100048000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 9 QUARTERS/FOOTAGES: SE NE NE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.63169 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.624297 DATE COLLECTED:

SURFACE ELEVATION (FT.): 406.0 LOGGED (FT.): 716.0 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
26.0	CARBONDALE	DANVILLE	COAL	4.0	380.0
10.0	CARBONDALE	JAMESTOWN	COAL	-	396.0
-67.0	CARBONDALE	SPRINGFIELD	COAL	-	473.0
-162.0	CARBONDALE	HOUCHIN CREEK	COAL	-	568.0
-283.0	CARBONDALE	COLCHESTER	COAL	-	689.0
-305.0	SPOON	SEELYVILLE	COAL	5.0	711.0

MAPID: 10100541000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 9 QUARTERS/FOOTAGES: 330' N line, 408' W line

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.64756 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.626255 DATE COLLECTED:

SURFACE ELEVATION (FT.): 410.0 LOGGED (FT.): 695.5 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
208.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	202.0
52.0	CARBONDALE	DANVILLE	COAL	3.5	358.0
29.0	CARBONDALE	JAMESTOWN	COAL	-	381.0
-50.0	CARBONDALE	SPRINGFIELD	COAL	2.5	460.0
-145.0	CARBONDALE	HOUCHIN CREEK	COAL	-	555.0
-268.0	CARBONDALE	COLCHESTER	COAL	-	678.0
-282.0	SPOON	SEELYVILLE	COAL	3.5	692.0

MAPID: 10102451000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 10 QUARTERS/FOOTAGES: 300' N line, 400' W line of SE SW

QUADRANGLE: DECKER LONGITUDE: -87.624536 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.614999 DATE COLLECTED:

SURFACE ELEVATION (FT.): 409.0 LOGGED (FT.): 703.5 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
174.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	235.0
42.0	CARBONDALE	DANVILLE	COAL	4.0	367.0
27.0	CARBONDALE	JAMESTOWN	COAL	2.5	382.0
-46.0	CARBONDALE	SPRINGFIELD	COAL	3.0	455.0
-145.0	CARBONDALE	HOUCHIN CREEK	COAL	-	554.0
-268.0	CARBONDALE	COLCHESTER	COAL	-	677.0
-290.0	SPOON	SEELYVILLE	COAL	4.5	699.0

MAPID: 10106489000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 15 QUARTERS/FOOTAGES: 330' S line, 990' W line
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.626893 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.59829 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 412.0 LOGGED (FT.): 715.5 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
188.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	224.0
38.0	CARBONDALE	DANVILLE	COAL	5.0	374.0
15.0	CARBONDALE	JAMESTOWN	COAL	-	397.0
-58.0	CARBONDALE	SPRINGFIELD	COAL	2.5	470.0
-156.0	CARBONDALE	HOUCHIN CREEK	COAL	-	568.0
-268.0	CARBONDALE	COLCHESTER	COAL	-	680.0
-300.0	SPOON	SEELYVILLE	COAL	3.5	712.0

MAPID: 10102399000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 16 QUARTERS/FOOTAGES: NE NW NE
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.636346 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.611142 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 407.0 LOGGED (FT.): 706.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
51.0	CARBONDALE	DANVILLE	COAL	4.5	356.0
19.0	CARBONDALE	JAMESTOWN	COAL	3.0	388.0
-50.0	CARBONDALE	SPRINGFIELD	COAL	3.0	457.0
-145.0	CARBONDALE	HOUCHIN CREEK	COAL	-	552.0
-268.0	CARBONDALE	COLCHESTER	COAL	-	675.0
-295.0	SPOON	SEELYVILLE	COAL	4.0	702.0

MAPID: 10100537000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 17 QUARTERS/FOOTAGES: 572' N line, 1276' W line

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.663186 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.610817 DATE COLLECTED:

SURFACE ELEVATION (FT.): 500.0 LOGGED (FT.): 793.0 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
157.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	343.0
28.0	CARBONDALE	DANVILLE	COAL	4.0	472.0
11.0	CARBONDALE	JAMESTOWN	COAL	-	489.0
-54.0	CARBONDALE	SPRINGFIELD	COAL	3.0	554.0
-142.0	CARBONDALE	HOUCHIN CREEK	COAL	-	642.0
-265.0	CARBONDALE	COLCHESTER	COAL	-	765.0
-290.0	SPOON	SEELYVILLE	COAL	3.0	790.0

MAPID: 10100740000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 17 QUARTERS/FOOTAGES: 2310' S line, 330' E line of SW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.659471 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.604211 DATE COLLECTED:

SURFACE ELEVATION (FT.): 448.0 LOGGED (FT.): 753.0 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
180.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	268.0
49.0	CARBONDALE	DANVILLE	COAL	5.0	399.0
28.0	CARBONDALE	JAMESTOWN	COAL	-	420.0
-44.0	CARBONDALE	SPRINGFIELD	COAL	3.0	492.0
-132.0	CARBONDALE	HOUCHIN CREEK	COAL	-	580.0
-246.0	CARBONDALE	COLCHESTER	COAL	-	694.0
-305.0	SPOON	SEELYVILLE	COAL	-	753.0

MAPID: 10103045000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 17 QUARTERS/FOOTAGES: SW SW SW
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.666452 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.598774 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 420.0 LOGGED (FT.): 751.0 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
173.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	247.0
19.0	CARBONDALE	DANVILLE	COAL	3.5	401.0
-3.0	CARBONDALE	JAMESTOWN	COAL	-	423.0
-84.0	CARBONDALE	SPRINGFIELD	COAL	-	504.0
-183.0	CARBONDALE	HOUCHIN CREEK	COAL	-	603.0
-306.0	CARBONDALE	COLCHESTER	COAL	-	726.0
-327.0	SPOON	SEELYVILLE	COAL	4.0	747.0

MAPID: 10100536000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 18 QUARTERS/FOOTAGES: 3926' S line, 990' W line
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.681681 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.608718 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 413.0 LOGGED (FT.): 708.5 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
170.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	243.0
43.0	CARBONDALE	DANVILLE	COAL	3.0	370.0
25.0	CARBONDALE	JAMESTOWN	COAL	-	388.0
-53.0	CARBONDALE	SPRINGFIELD	COAL	3.0	466.0
-143.0	CARBONDALE	HOUCHIN CREEK	COAL	-	556.0
-265.0	CARBONDALE	COLCHESTER	COAL	-	678.0
-291.0	SPOON	SEELYVILLE	COAL	4.5	704.0

MAPID: 10100698000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 18 QUARTERS/FOOTAGES: SW NW SE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.675763 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.602464 DATE COLLECTED:

SURFACE ELEVATION (FT.): 446.0 LOGGED (FT.): 768.5 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	
185.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	261.0	
39.0	CARBONDALE	DANVILLE	COAL	4.0	407.0	
19.0	CARBONDALE	JAMESTOWN	COAL	-	427.0	
-59.0	CARBONDALE	SPRINGFIELD	COAL	3.0	505.0	
-148.0	CARBONDALE	HOUCHIN CREEK	COAL	-	594.0	
-264.0	CARBONDALE	COLCHESTER	COAL	-	710.0	
-318.0	SPOON	SEELYVILLE	COAL	4.5	764.0	

MAPID: 10102201000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 18 QUARTERS/FOOTAGES: SW SE SE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.6711 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.598787 DATE COLLECTED:

SURFACE ELEVATION (FT.): 426.0 LOGGED (FT.): 756.0 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	
181.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	245.0	
28.0	CARBONDALE	DANVILLE	COAL	3.5	398.0	
8.0	CARBONDALE	HERRIN	COAL	-	418.0	
-69.0	CARBONDALE	SPRINGFIELD	COAL	3.0	495.0	
-164.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0	
-280.0	CARBONDALE	COLCHESTER	COAL	-	706.0	
-326.0	SPOON	SEELYVILLE	COAL	4.0	752.0	

MAPID: 10103050000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 19 QUARTERS/FOOTAGES: NE NE SW
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.678273 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.589481 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 412.0 LOGGED (FT.): 757.5 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
147.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	265.0
-8.0	CARBONDALE	DANVILLE	COAL	3.5	420.0
-34.0	CARBONDALE	JAMESTOWN	COAL	-	446.0
-120.0	CARBONDALE	SPRINGFIELD	COAL	3.0	532.0
-204.0	CARBONDALE	HOUCHIN CREEK	COAL	-	616.0
-328.0	CARBONDALE	COLCHESTER	COAL	-	740.0
-342.0	SPOON	SEELYVILLE	COAL	3.5	754.0

MAPID: 10103051000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 19 QUARTERS/FOOTAGES: SE NW NE
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.673489 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.595072 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 417.0 LOGGED (FT.): 762.5 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
154.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	263.0
4.0	CARBONDALE	DANVILLE	COAL	4.0	413.0
-20.0	CARBONDALE	JAMESTOWN	COAL	-	437.0
-101.0	CARBONDALE	SPRINGFIELD	COAL	3.0	518.0
-193.0	CARBONDALE	HOUCHIN CREEK	COAL	-	610.0
-316.0	CARBONDALE	COLCHESTER	COAL	-	733.0
-341.0	SPOON	SEELYVILLE	COAL	4.5	758.0

MAPID: 10103052000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 19 QUARTERS/FOOTAGES: NE SW SE
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.673725 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.585729 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 412.0 LOGGED (FT.): 766.0 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
142.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	270.0
-1.0	CARBONDALE	DANVILLE	COAL	3.0	413.0
-32.0	CARBONDALE	JAMESTOWN	COAL	-	444.0
-36.0	CARBONDALE	HERRIN	COAL	-	448.0
-127.0	CARBONDALE	SPRINGFIELD	COAL	5.0	539.0
-213.0	CARBONDALE	HOUCHIN CREEK	COAL	-	625.0
-338.0	CARBONDALE	COLCHESTER	COAL	-	750.0
-351.0	SPOON	SEELYVILLE	COAL	3.0	763.0

MAPID: 10100539000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 20 QUARTERS/FOOTAGES: 245' N line, 330' W line of SW SE
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.657435 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.585915 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 431.0 LOGGED (FT.): 738.0 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
183.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	248.0
52.0	CARBONDALE	DANVILLE	COAL	4.5	379.0
11.0	CARBONDALE	HERRIN	COAL	-	420.0
-75.0	CARBONDALE	SPRINGFIELD	COAL	3.0	506.0
-165.0	CARBONDALE	HOUCHIN CREEK	COAL	-	596.0
-286.0	CARBONDALE	COLCHESTER	COAL	-	717.0
-302.0	SPOON	SEELYVILLE	COAL	5.0	733.0

MAPID: 10100691000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 20 QUARTERS/FOOTAGES: NW NW SE
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.657338 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.589398 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 443.0 LOGGED (FT.): 748.0 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
198.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	245.0
63.0	CARBONDALE	DANVILLE	COAL	-	380.0
23.0	CARBONDALE	HERRIN	COAL	-	420.0
-71.0	CARBONDALE	SPRINGFIELD	COAL	4.0	514.0
-153.0	CARBONDALE	HOUCHIN CREEK	COAL	-	596.0
-282.0	CARBONDALE	COLCHESTER	COAL	-	725.0
-300.0	SPOON	SEELYVILLE	COAL	5.0	743.0

MAPID: 10101533000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 20 QUARTERS/FOOTAGES: NE SE NW
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.659567 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.593153 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 429.0 LOGGED (FT.): 738.5 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
184.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	245.0
39.0	CARBONDALE	DANVILLE	COAL	4.5	390.0
7.0	CARBONDALE	HERRIN	COAL	3.0	422.0
-73.0	CARBONDALE	SPRINGFIELD	COAL	3.0	502.0
-169.0	CARBONDALE	HOUCHIN CREEK	COAL	-	598.0
-286.0	CARBONDALE	COLCHESTER	COAL	-	715.0
-305.0	SPOON	SEELYVILLE	COAL	4.5	734.0

MAPID: 10100044000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 2N 11W

SECTION: 22

QUARTERS/FOOTAGES: NE SE NW

QUADRANGLE: DECKER

LONGITUDE: -87.622144

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.593709

DATE COLLECTED:

SURFACE ELEVATION (FT.): 401.0

LOGGED (FT.): 683.5

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
195.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	206.0
54.0	CARBONDALE	DANVILLE	COAL	4.5	347.0
23.0	CARBONDALE	HERRIN	COAL	-	378.0
-50.0	CARBONDALE	SPRINGFIELD	COAL	3.5	451.0
-143.0	CARBONDALE	HOUCHIN CREEK	COAL	-	544.0
-265.0	CARBONDALE	COLCHESTER	COAL	-	666.0
-278.0	SPOON	SEELYVILLE	COAL	4.5	679.0

MAPID: 10102282000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 2N 11W

SECTION: 22

QUARTERS/FOOTAGES: 150' N line, 95' E line of NW SE

QUADRANGLE: DECKER

LONGITUDE: -87.617

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.591441

DATE COLLECTED:

SURFACE ELEVATION (FT.): 406.0

LOGGED (FT.): 682.5

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
207.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	199.0
71.0	CARBONDALE	DANVILLE	COAL	4.0	335.0
34.0	CARBONDALE	JAMESTOWN	COAL	-	372.0
31.0	CARBONDALE	HERRIN	COAL	-	375.0
-44.0	CARBONDALE	SPRINGFIELD	COAL	3.5	450.0
-137.0	CARBONDALE	HOUCHIN CREEK	COAL	-	543.0
-254.0	CARBONDALE	COLCHESTER	COAL	-	660.0
-274.0	SPOON	SEELYVILLE	COAL	2.5	680.0

MAPID: 10102400000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 22 QUARTERS/FOOTAGES: SE NW NW
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.626688 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.595257 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 408.0 LOGGED (FT.): 714.5 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
187.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	221.0
36.0	CARBONDALE	DANVILLE	COAL	5.0	372.0
-59.0	CARBONDALE	SPRINGFIELD	COAL	3.5	467.0
-159.0	CARBONDALE	HOUCHIN CREEK	COAL	-	567.0
-277.0	CARBONDALE	COLCHESTER	COAL	-	685.0
-302.0	SPOON	SEELYVILLE	COAL	4.5	710.0

MAPID: 10101597000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 28 QUARTERS/FOOTAGES: 2970' S line, 330' W line
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.648322 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.578921 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 409.0 LOGGED (FT.): 725.0 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
184.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	225.0
46.0	CARBONDALE	DANVILLE	COAL	4.0	363.0
-27.0	CARBONDALE	HERRIN	COAL	4.5	436.0
-81.0	CARBONDALE	SPRINGFIELD	COAL	3.0	490.0
-176.0	CARBONDALE	HOUCHIN CREEK	COAL	-	585.0
-299.0	CARBONDALE	COLCHESTER	COAL	-	708.0
-313.0	SPOON	SEELYVILLE	COAL	3.0	722.0

MAPID: 10101598000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 29
QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.66108
CONFIDENTIAL: N LATITUDE: 38.57826
SURFACE ELEVATION (FT.): 427.0 LOGGED (FT.): 743.0
SOURCE:
COMMENT: GOOD LOG

QUARTERS/FOOTAGES: 330' N line, 660' W line of SE NW
GEOLOGIST: C TREWORGY
DATE COLLECTED:
LOG TYPE: Electric Log
WELL TYPE: Oil and Gas Test

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
198.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	229.0
57.0	CARBONDALE	DANVILLE	COAL	5.0	370.0
-3.0	CARBONDALE	HERRIN	COAL	3.5	430.0
-95.0	CARBONDALE	SPRINGFIELD	COAL	4.0	522.0
-171.0	CARBONDALE	HOUCHIN CREEK	COAL	-	598.0
-293.0	CARBONDALE	COLCHESTER	COAL	-	720.0
-312.0	SPOON	SEELYVILLE	COAL	4.0	739.0

MAPID: 10100673000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 11W SECTION: 30
QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.678498
CONFIDENTIAL: N LATITUDE: 38.578329
SURFACE ELEVATION (FT.): 418.0 LOGGED (FT.): 765.0
SOURCE:
COMMENT: GOOD LOG

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
156.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	262.0
4.0	CARBONDALE	DANVILLE	COAL	3.5	414.0
-36.0	CARBONDALE	HERRIN	COAL	-	454.0
-117.0	CARBONDALE	SPRINGFIELD	COAL	3.0	535.0
-211.0	CARBONDALE	HOUCHIN CREEK	COAL	-	629.0
-331.0	CARBONDALE	COLCHESTER	COAL	-	749.0
-342.0	SPOON	SEELYVILLE	COAL	5.0	760.0

MAPID: 10101341000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 1 QUARTERS/FOOTAGES: NW SE NW
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.697536 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.638183 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 445.0 LOGGED (FT.): 729.0 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
157.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	288.0
37.0	CARBONDALE	DANVILLE	COAL	4.0	408.0
12.0	CARBONDALE	JAMESTOWN	COAL	-	433.0
-62.0	CARBONDALE	SPRINGFIELD	COAL	4.0	507.0
-155.0	CARBONDALE	HOUCHIN CREEK	COAL	-	600.0
-268.0	CARBONDALE	COLCHESTER	COAL	-	713.0
-278.0	SPOON	SEELYVILLE	COAL	6.0	723.0

MAPID: 10101380000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 2 QUARTERS/FOOTAGES: NE SW SE
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.709073 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.629758 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 467.0 LOGGED (FT.): 747.0 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
173.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	294.0
49.0	CARBONDALE	DANVILLE	COAL	3.5	418.0
25.0	CARBONDALE	JAMESTOWN	COAL	-	442.0
-46.0	CARBONDALE	SPRINGFIELD	COAL	4.0	513.0
-138.0	CARBONDALE	HOUCHIN CREEK	COAL	-	605.0
-251.0	CARBONDALE	COLCHESTER	COAL	-	718.0
-275.0	SPOON	SEELYVILLE	COAL	5.0	742.0

MAPID: 10106129000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 2 QUARTERS/FOOTAGES: 50' N line, 74' E line of NW NE
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.708139 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.643257 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 514.0 LOGGED (FT.): 760.5 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
-243.0	SPOON	SEELYVILLE	COAL	3.5	757.0

MAPID: 10127586000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 2 QUARTERS/FOOTAGES: 75' N line, 500' E line of SW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.714312 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.634787 DATE COLLECTED:

SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 744.0 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
59.0	CARBONDALE	DANVILLE	COAL	3.0	421.0
39.0	CARBONDALE	JAMESTOWN	COAL	5.0	441.0
31.0	CARBONDALE	HERRIN	COAL	2.0	449.0
-40.0	CARBONDALE	SPRINGFIELD	COAL	3.0	520.0
-141.0	CARBONDALE	HOUCHIN CREEK	COAL	-	621.0
-243.0	CARBONDALE	COLCHESTER	COAL	-	723.0
-258.0	SPOON	SEELYVILLE	COAL	6.0	738.0

MAPID: 10127860000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 2 QUARTERS/FOOTAGES: 360' S line, 660' W line of NW NW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.719435 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.640129 DATE COLLECTED:

SURFACE ELEVATION (FT.): 486.0 LOGGED (FT.): 740.0 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
200.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	286.0
67.0	CARBONDALE	DANVILLE	COAL	3.0	419.0
46.0	CARBONDALE	JAMESTOWN	COAL	5.0	440.0
36.0	CARBONDALE	HERRIN	COAL	1.5	450.0
-32.0	CARBONDALE	SPRINGFIELD	COAL	2.0	518.0
-120.0	CARBONDALE	HOUCHIN CREEK	COAL	-	606.0
-232.0	CARBONDALE	COLCHESTER	COAL	-	718.0
-250.0	SPOON	SEELYVILLE	COAL	4.0	736.0

MAPID: 10105898000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 3 QUARTERS/FOOTAGES: SE NW NE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.72762 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.640133 DATE COLLECTED:

SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 746.5 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
199.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	281.0
59.0	CARBONDALE	DANVILLE	COAL	3.0	421.0
38.0	CARBONDALE	JAMESTOWN	COAL	-	442.0
32.0	CARBONDALE	HERRIN	COAL	-	448.0
-40.0	CARBONDALE	SPRINGFIELD	COAL	3.0	520.0
-126.0	CARBONDALE	HOUCHIN CREEK	COAL	-	606.0
-235.0	CARBONDALE	COLCHESTER	COAL	-	715.0
-261.0	SPOON	SEELYVILLE	COAL	5.5	741.0

MAPID: 10100295000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 4 QUARTERS/FOOTAGES: SE NE SE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.741711 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.631962 DATE COLLECTED:

SURFACE ELEVATION (FT.): 426.0 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
51.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	375.0
-89.0	CARBONDALE	DANVILLE	COAL	3.0	515.0
-111.0	CARBONDALE	JAMESTOWN	COAL	-	537.0
-117.0	CARBONDALE	HERRIN	COAL	-	543.0
-185.0	CARBONDALE	SPRINGFIELD	COAL	2.5	611.0
-272.0	CARBONDALE	HOUCHIN CREEK	COAL	-	698.0
-384.0	CARBONDALE	COLCHESTER	COAL	-	810.0
-410.0	SPOON	SEELYVILLE	COAL	5.0	836.0

MAPID: 10100637000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 4 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW SE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.746391 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.630055 DATE COLLECTED: 1 / 6 / 1950

SURFACE ELEVATION (FT.): 433.0 LOGGED (FT.): 919.5 LOG TYPE: Electric Log

SOURCE: W.O. ALLEN ALLENDER 1 WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-11.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	444.0
-153.0	CARBONDALE	DANVILLE	COAL	2.5	586.0
-175.0	CARBONDALE	JAMESTOWN	COAL	-	608.0
-181.0	CARBONDALE	HERRIN	COAL	-	614.0
-250.0	CARBONDALE	SPRINGFIELD	COAL	3.0	683.0
-336.0	CARBONDALE	HOUCHIN CREEK	COAL	-	769.0
-459.0	CARBONDALE	COLCHESTER	COAL	-	892.0
-482.0	SPOON	SEELYVILLE	COAL	4.5	915.0

MAPID: 10101271000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 4 QUARTERS/FOOTAGES: NW SW SW

QUADRANGLE: SUMNER LONGITUDE: -87.758103 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.630022 DATE COLLECTED:

SURFACE ELEVATION (FT.): 473.0 LOGGED (FT.): 977.0 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
3.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	470.0
-141.0	CARBONDALE	DANVILLE	COAL	3.0	614.0
-163.0	CARBONDALE	JAMESTOWN	COAL	-	636.0
-167.0	CARBONDALE	HERRIN	COAL	-	640.0
-248.0	CARBONDALE	SPRINGFIELD	COAL	3.5	721.0
-334.0	CARBONDALE	HOUCHIN CREEK	COAL	-	807.0
-461.0	CARBONDALE	COLCHESTER	COAL	-	934.0
-498.0	SPOON	SEELYVILLE	COAL	6.0	971.0

MAPID: 10100299000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 5 QUARTERS/FOOTAGES: 1135' N line, 330' E line

QUADRANGLE: SUMNER LONGITUDE: -87.760402 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.639796 DATE COLLECTED:

SURFACE ELEVATION (FT.): 451.0 LOGGED (FT.): 934.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
9.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	442.0
-134.0	CARBONDALE	DANVILLE	COAL	3.0	585.0
-162.0	CARBONDALE	JAMESTOWN	COAL	-	613.0
-167.0	CARBONDALE	HERRIN	COAL	-	618.0
-236.0	CARBONDALE	SPRINGFIELD	COAL	3.0	687.0
-326.0	CARBONDALE	HOUCHIN CREEK	COAL	-	777.0
-455.0	CARBONDALE	COLCHESTER	COAL	-	906.0
-479.0	SPOON	SEELYVILLE	COAL	4.0	930.0

MAPID: 10103147000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 5 QUARTERS/FOOTAGES: NW SW NW

QUADRANGLE: SUMNER LONGITUDE: -87.776547 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.637964 DATE COLLECTED:

SURFACE ELEVATION (FT.): 455.0 LOGGED (FT.): 755.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
51.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	404.0
-91.0	CARBONDALE	DANVILLE	COAL	2.5	546.0
-117.0	CARBONDALE	JAMESTOWN	COAL	2.0	572.0
-119.0	CARBONDALE	HERRIN	COAL	-	574.0
-203.0	CARBONDALE	SPRINGFIELD	COAL	2.5	658.0
-300.0	CARBONDALE	HOUCHIN CREEK	COAL	-	755.0

MAPID: 1010315000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 5 QUARTERS/FOOTAGES: NW SW NE

QUADRANGLE: SUMNER LONGITUDE: -87.767319 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.637967 DATE COLLECTED:

SURFACE ELEVATION (FT.): 456.0 LOGGED (FT.): 935.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	435.0
-127.0	CARBONDALE	DANVILLE	COAL	2.5	583.0
-153.0	CARBONDALE	JAMESTOWN	COAL	-	609.0
-158.0	CARBONDALE	HERRIN	COAL	-	614.0
-238.0	CARBONDALE	SPRINGFIELD	COAL	4.0	694.0
-326.0	CARBONDALE	HOUCHIN CREEK	COAL	-	782.0
-449.0	CARBONDALE	COLCHESTER	COAL	-	905.0
-476.0	SPOON	SEELYVILLE	COAL	3.0	932.0

MAPID: 10100041000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 450' W line of NW SW

QUADRANGLE: SUMNER LONGITUDE: -87.795703 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.636726 DATE COLLECTED: 1 / 24 / 1948

SURFACE ELEVATION (FT.): 470.0 LOGGED (FT.): 929.5 LOG TYPE: Electric Log

SOURCE: AURORA GAS CO. TUCKER #1 WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
66.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	404.0
-72.0	CARBONDALE	DANVILLE	COAL	3.0	542.0
-93.0	CARBONDALE	JAMESTOWN	COAL	-	563.0
-188.0	CARBONDALE	SPRINGFIELD	COAL	3.0	658.0
-280.0	CARBONDALE	HOUCHIN CREEK	COAL	-	750.0
-402.0	CARBONDALE	COLCHESTER	COAL	-	872.0
-456.0	SPOON	SEELYVILLE	COAL	3.5	926.0

MAPID: 10100294000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 6 QUARTERS/FOOTAGES: NW SE NE

QUADRANGLE: SUMNER LONGITUDE: -87.781451 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.637951 DATE COLLECTED:

SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 892.0 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
31.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	399.0
-85.0	CARBONDALE	DANVILLE	COAL	2.0	515.0
-108.0	CARBONDALE	JAMESTOWN	COAL	2.5	538.0
-112.0	CARBONDALE	HERRIN	COAL	-	542.0
-199.0	CARBONDALE	SPRINGFIELD	COAL	3.0	629.0
-291.0	CARBONDALE	HOUCHIN CREEK	COAL	-	721.0
-404.0	CARBONDALE	COLCHESTER	COAL	-	834.0
-459.0	SPOON	SEELYVILLE	COAL	3.0	889.0

MAPID: 10100300000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 6 QUARTERS/FOOTAGES: SE SE NW

QUADRANGLE: SUMNER LONGITUDE: -87.788983 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.635983 DATE COLLECTED:

SURFACE ELEVATION (FT.): 459.0 LOGGED (FT.): 934.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
51.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	408.0
-90.0	CARBONDALE	DANVILLE	COAL	3.0	549.0
-202.0	CARBONDALE	SPRINGFIELD	COAL	3.5	661.0
-295.0	CARBONDALE	HOUCHIN CREEK	COAL	-	754.0
-411.0	CARBONDALE	COLCHESTER	COAL	-	870.0
-471.0	SPOON	SEELYVILLE	COAL	4.0	930.0

MAPID: 10100288000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 7 QUARTERS/FOOTAGES: NE SW NE

QUADRANGLE: LANCASTER LONGITUDE: -87.78415 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.622798 DATE COLLECTED:

SURFACE ELEVATION (FT.): 436.0 LOGGED (FT.): 935.0 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
11.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	425.0
-132.0	CARBONDALE	DANVILLE	COAL	3.0	568.0
-159.0	CARBONDALE	JAMESTOWN	COAL	-	595.0
-163.0	CARBONDALE	HERRIN	COAL	-	599.0
-252.0	CARBONDALE	SPRINGFIELD	COAL	3.0	688.0
-352.0	CARBONDALE	HOUCHIN CREEK	COAL	-	788.0
-436.0	CARBONDALE	COLCHESTER	COAL	-	872.0
-494.0	SPOON	SEELYVILLE	COAL	5.0	930.0

MAPID: 10100297000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 7 QUARTERS/FOOTAGES: SW NW SE

QUADRANGLE: LANCASTER LONGITUDE: -87.786804 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.61737 DATE COLLECTED:

SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 936.5 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
10.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	420.0
-138.0	CARBONDALE	DANVILLE	COAL	2.0	568.0
-161.0	CARBONDALE	JAMESTOWN	COAL	-	591.0
-257.0	CARBONDALE	SPRINGFIELD	COAL	3.0	687.0
-360.0	CARBONDALE	HOUCHIN CREEK	COAL	-	790.0
-442.0	CARBONDALE	COLCHESTER	COAL	-	872.0
-504.0	SPOON	SEELYVILLE	COAL	2.5	934.0

MAPID: 10103157000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 7 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: LANCASTER LONGITUDE: -87.779344 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.613391 DATE COLLECTED:

SURFACE ELEVATION (FT.): 427.0 LOGGED (FT.): 925.0 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
6.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	421.0
-139.0	CARBONDALE	DANVILLE	COAL	2.5	566.0
-164.0	CARBONDALE	JAMESTOWN	COAL	-	591.0
-249.0	CARBONDALE	SPRINGFIELD	COAL	3.0	676.0
-348.0	CARBONDALE	HOUCHIN CREEK	COAL	-	775.0
-442.0	CARBONDALE	COLCHESTER	COAL	-	869.0
-494.0	SPOON	SEELYVILLE	COAL	4.0	921.0

MAPID: 10100298000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 8 QUARTERS/FOOTAGES: NE SE NW

QUADRANGLE: LANCASTER LONGITUDE: -87.769739 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.622537 DATE COLLECTED:

SURFACE ELEVATION (FT.): 443.0 LOGGED (FT.): 934.0 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
2.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	441.0
-145.0	CARBONDALE	DANVILLE	COAL	3.0	588.0
-170.0	CARBONDALE	JAMESTOWN	COAL	-	613.0
-177.0	CARBONDALE	HERRIN	COAL	-	620.0
-251.0	CARBONDALE	SPRINGFIELD	COAL	4.0	694.0
-345.0	CARBONDALE	HOUCHIN CREEK	COAL	-	788.0
-456.0	CARBONDALE	COLCHESTER	COAL	-	899.0
-486.0	SPOON	SEELYVILLE	COAL	5.0	929.0

MAPID: 10103161000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 8 QUARTERS/FOOTAGES: SW NW NW

QUADRANGLE: LANCASTER LONGITUDE: -87.776642 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.624427 DATE COLLECTED:

SURFACE ELEVATION (FT.): 426.0 LOGGED (FT.): 928.0 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
0.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	426.0
-138.0	CARBONDALE	DANVILLE	COAL	2.5	564.0
-164.0	CARBONDALE	JAMESTOWN	COAL	-	590.0
-169.0	CARBONDALE	HERRIN	COAL	-	595.0
-250.0	CARBONDALE	SPRINGFIELD	COAL	3.0	676.0
-344.0	CARBONDALE	HOUCHIN CREEK	COAL	-	770.0
-442.0	CARBONDALE	COLCHESTER	COAL	-	868.0
-498.0	SPOON	SEELYVILLE	COAL	4.0	924.0

MAPID: 10105483000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 8 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: LANCASTER LONGITUDE: -87.760542 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.613309 DATE COLLECTED:

SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 924.0 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
-23.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	451.0
-175.0	CARBONDALE	DANVILLE	COAL	2.0	603.0
-196.0	CARBONDALE	JAMESTOWN	COAL	-	624.0
-202.0	CARBONDALE	HERRIN	COAL	-	630.0
-273.0	CARBONDALE	SPRINGFIELD	COAL	2.0	701.0
-368.0	CARBONDALE	HOUCHIN CREEK	COAL	-	796.0
-468.0	CARBONDALE	COLCHESTER	COAL	-	896.0
-493.0	SPOON	SEELYVILLE	COAL	3.0	921.0

MAPID: 10100287000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 2N 12W

SECTION: 9

QUARTERS/FOOTAGES: NE NW NW

QUADRANGLE: SUMNER

LONGITUDE: -87.755781

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.626105

DATE COLLECTED:

SURFACE ELEVATION (FT.): 456.0

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
-14.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	470.0
-161.0	CARBONDALE	DANVILLE	COAL	2.5	617.0
-184.0	CARBONDALE	JAMESTOWN	COAL	4.0	640.0
-190.0	CARBONDALE	HERRIN	COAL	2.0	646.0
-253.0	CARBONDALE	SPRINGFIELD	COAL	2.5	709.0
-341.0	CARBONDALE	HOUCHIN CREEK	COAL	-	797.0
-469.0	CARBONDALE	COLCHESTER	COAL	-	925.0
-495.0	SPOON	SEELYVILLE	COAL	3.0	951.0

MAPID: 10100672000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 2N 12W

SECTION: 9

QUARTERS/FOOTAGES: SE NW SE

QUADRANGLE: ST. FRANCISVILLE

LONGITUDE: -87.746521

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.616883

DATE COLLECTED:

SURFACE ELEVATION (FT.): 431.0

LOGGED (FT.): 929.5

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
-18.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	449.0
-164.0	CARBONDALE	DANVILLE	COAL	-	595.0
-184.0	CARBONDALE	JAMESTOWN	COAL	4.5	615.0
-190.0	CARBONDALE	HERRIN	COAL	-	621.0
-263.0	CARBONDALE	SPRINGFIELD	COAL	3.5	694.0
-357.0	CARBONDALE	HOUCHIN CREEK	COAL	-	788.0
-469.0	CARBONDALE	COLCHESTER	COAL	-	900.0
-494.0	SPOON	SEELYVILLE	COAL	4.5	925.0

MAPID: 10100293000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 10 QUARTERS/FOOTAGES: SW NE SE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.725515 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 38.616779 DATE COLLECTED:

SURFACE ELEVATION (FT.): 455.0 LOGGED (FT.): 784.5 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
154.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	301.0
1.0	CARBONDALE	DANVILLE	COAL	4.0	454.0
-20.0	CARBONDALE	JAMESTOWN	COAL	3.5	475.0
-25.0	CARBONDALE	HERRIN	COAL	-	480.0
-97.0	CARBONDALE	SPRINGFIELD	COAL	3.5	552.0
-193.0	CARBONDALE	HOUCHIN CREEK	COAL	-	648.0
-301.0	CARBONDALE	COLCHESTER	COAL	-	756.0
-326.0	SPOON	SEELYVILLE	COAL	3.5	781.0

MAPID: 10100005000C VERSION: 1

PROJECT: CONTROL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 11 QUARTERS/FOOTAGES: 975' S line, 872' W line of SW NE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.709571 GEOLOGIST: HINES

CONFIDENTIAL: N LATITUDE: 38.62213 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 1765.0 LOG TYPE: Survey Sample Study

SOURCE: KENDALL C W 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: 10100290000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 11 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.704531 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.613164 DATE COLLECTED:

SURFACE ELEVATION (FT.): 432.0 LOGGED (FT.): 707.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	-	260.0
23.0	CARBONDALE	DANVILLE	COAL	2.5	409.0
2.0	CARBONDALE	JAMESTOWN	COAL	-	430.0
-2.0	CARBONDALE	HERRIN	COAL	-	434.0
-66.0	CARBONDALE	SPRINGFIELD	COAL	2.0	498.0
-156.0	CARBONDALE	HOUCHIN CREEK	COAL	-	588.0
-275.0	CARBONDALE	COLCHESTER	COAL	-	707.0

MAPID: 10100292000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 11 QUARTERS/FOOTAGES: 660' N line, 330' E line of NW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.713787 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.62483 DATE COLLECTED:

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 706.5 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
189.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	251.0
54.0	CARBONDALE	DANVILLE	COAL	3.0	386.0
34.0	CARBONDALE	JAMESTOWN	COAL	3.5	406.0
30.0	CARBONDALE	HERRIN	COAL	-	410.0
-38.0	CARBONDALE	SPRINGFIELD	COAL	3.5	478.0
-130.0	CARBONDALE	HOUCHIN CREEK	COAL	-	570.0
-237.0	CARBONDALE	COLCHESTER	COAL	-	677.0
-262.0	SPOON	SEELYVILLE	COAL	4.5	702.0

MAPID: 10105439000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 11 QUARTERS/FOOTAGES: NE NW SW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.718506 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.618565 DATE COLLECTED:

SURFACE ELEVATION (FT.): 446.0 LOGGED (FT.): 757.0 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
161.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	285.0
21.0	CARBONDALE	DANVILLE	COAL	2.5	425.0
0.0	CARBONDALE	JAMESTOWN	COAL	4.0	446.0
-5.0	CARBONDALE	HERRIN	COAL	-	451.0
-74.0	CARBONDALE	SPRINGFIELD	COAL	3.5	520.0
-164.0	CARBONDALE	HOUCHIN CREEK	COAL	-	610.0
-280.0	CARBONDALE	COLCHESTER	COAL	-	726.0
-307.0	SPOON	SEELYVILLE	COAL	4.0	753.0

MAPID: 10101034000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 12 QUARTERS/FOOTAGES: NE NW SE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.690781 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.618456 DATE COLLECTED:

SURFACE ELEVATION (FT.): 451.0 LOGGED (FT.): 733.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	295.0
39.0	CARBONDALE	DANVILLE	COAL	3.5	412.0
14.0	CARBONDALE	JAMESTOWN	COAL	-	437.0
9.0	CARBONDALE	HERRIN	COAL	-	442.0
-56.0	CARBONDALE	SPRINGFIELD	COAL	4.0	507.0
-149.0	CARBONDALE	HOUCHIN CREEK	COAL	-	600.0
-269.0	CARBONDALE	COLCHESTER	COAL	-	720.0
-282.0	SPOON	SEELYVILLE	COAL	-	733.0

MAPID: 10102851000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 12 QUARTERS/FOOTAGES: 1215' S line, 330' W line of SE SE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.688514 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.615532 DATE COLLECTED:

SURFACE ELEVATION (FT.): 439.0 LOGGED (FT.): 727.5 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
163.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	276.0
40.0	CARBONDALE	DANVILLE	COAL	3.0	399.0
22.0	CARBONDALE	JAMESTOWN	COAL	-	417.0
15.0	CARBONDALE	HERRIN	COAL	-	424.0
-49.0	CARBONDALE	SPRINGFIELD	COAL	3.0	488.0
-141.0	CARBONDALE	HOUCHIN CREEK	COAL	-	580.0
-261.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-285.0	SPOON	SEELYVILLE	COAL	3.5	724.0

MAPID: 10105505000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 12 QUARTERS/FOOTAGES: NW SW NW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.702114 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.622089 DATE COLLECTED:

SURFACE ELEVATION (FT.): 444.0 LOGGED (FT.): 759.0 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
164.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	280.0
18.0	CARBONDALE	DANVILLE	COAL	3.5	426.0
0.0	CARBONDALE	JAMESTOWN	COAL	-	444.0
-6.0	CARBONDALE	HERRIN	COAL	-	450.0
-77.0	CARBONDALE	SPRINGFIELD	COAL	4.0	521.0
-171.0	CARBONDALE	HOUCHIN CREEK	COAL	-	615.0
-288.0	CARBONDALE	COLCHESTER	COAL	-	732.0
-311.0	SPOON	SEELYVILLE	COAL	4.0	755.0

MAPID: 10100285000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 13 QUARTERS/FOOTAGES: 330' N line, 330' W line

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.702219 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.611352 DATE COLLECTED:

SURFACE ELEVATION (FT.): 435.0 LOGGED (FT.): 738.5 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
171.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	264.0
21.0	CARBONDALE	DANVILLE	COAL	3.0	414.0
2.0	CARBONDALE	JAMESTOWN	COAL	-	433.0
-4.0	CARBONDALE	HERRIN	COAL	-	439.0
-67.0	CARBONDALE	SPRINGFIELD	COAL	3.0	502.0
-160.0	CARBONDALE	HOUCHIN CREEK	COAL	-	595.0
-285.0	CARBONDALE	COLCHESTER	COAL	-	720.0
-299.0	SPOON	SEELYVILLE	COAL	4.5	734.0

MAPID: 10103225000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 13 QUARTERS/FOOTAGES: NE NE NW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.69541 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.611313 DATE COLLECTED:

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 743.0 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
45.0	CARBONDALE	DANVILLE	COAL	4.0	405.0
25.0	CARBONDALE	JAMESTOWN	COAL	-	425.0
-50.0	CARBONDALE	SPRINGFIELD	COAL	-	500.0
-145.0	CARBONDALE	HOUCHIN CREEK	COAL	-	595.0
-265.0	CARBONDALE	COLCHESTER	COAL	-	715.0
-290.0	SPOON	SEELYVILLE	COAL	3.0	740.0

MAPID: 10100643000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 14 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW SW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.720911 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.602164 DATE COLLECTED:

SURFACE ELEVATION (FT.): 418.0 LOGGED (FT.): 761.0 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
123.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	295.0
-14.0	CARBONDALE	DANVILLE	COAL	3.0	432.0
-34.0	CARBONDALE	JAMESTOWN	COAL	-	452.0
-39.0	CARBONDALE	HERRIN	COAL	-	457.0
-108.0	CARBONDALE	SPRINGFIELD	COAL	3.0	526.0
-192.0	CARBONDALE	HOUCHIN CREEK	COAL	-	610.0
-307.0	CARBONDALE	COLCHESTER	COAL	-	725.0
-343.0	SPOON	SEELYVILLE	COAL	-	761.0

MAPID: 10101355000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 14 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.713877 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.605814 DATE COLLECTED:

SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 772.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	285.0
-6.0	CARBONDALE	DANVILLE	COAL	3.5	436.0
-27.0	CARBONDALE	JAMESTOWN	COAL	3.0	457.0
-33.0	CARBONDALE	HERRIN	COAL	-	463.0
-102.0	CARBONDALE	SPRINGFIELD	COAL	3.0	532.0
-189.0	CARBONDALE	HOUCHIN CREEK	COAL	-	619.0
-310.0	CARBONDALE	COLCHESTER	COAL	-	740.0
-338.0	SPOON	SEELYVILLE	COAL	4.0	768.0

MAPID: 10106478000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 14 QUARTERS/FOOTAGES: 660' N line, 660' E line of NW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.715017 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.610429 DATE COLLECTED:

SURFACE ELEVATION (FT.): 435.0 LOGGED (FT.): 751.0 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
17.0	CARBONDALE	DANVILLE	COAL	3.0	418.0
-5.0	CARBONDALE	JAMESTOWN	COAL	2.0	440.0
-9.0	CARBONDALE	HERRIN	COAL	2.0	444.0
-79.0	CARBONDALE	SPRINGFIELD	COAL	3.0	514.0
-165.0	CARBONDALE	HOUCHIN CREEK	COAL	-	600.0
-295.0	CARBONDALE	COLCHESTER	COAL	-	730.0
-313.0	SPOON	SEELYVILLE	COAL	3.0	748.0

MAPID: 10101601000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 15 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE NE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.723181 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.609492 DATE COLLECTED:

SURFACE ELEVATION (FT.): 432.0 LOGGED (FT.): 767.5 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
146.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	286.0
-3.0	CARBONDALE	DANVILLE	COAL	3.0	435.0
-22.0	CARBONDALE	JAMESTOWN	COAL	-	454.0
-28.0	CARBONDALE	HERRIN	COAL	-	460.0
-99.0	CARBONDALE	SPRINGFIELD	COAL	3.0	531.0
-188.0	CARBONDALE	HOUCHIN CREEK	COAL	-	620.0
-308.0	CARBONDALE	COLCHESTER	COAL	-	740.0
-332.0	SPOON	SEELYVILLE	COAL	3.5	764.0

MAPID: 10100037000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 2N 12W

SECTION: 16

QUARTERS/FOOTAGES: SW SW NE

QUADRANGLE: LANCASTER

LONGITUDE: -87.748931

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.605905

DATE COLLECTED:

SURFACE ELEVATION (FT.): 429.0

LOGGED (FT.): 770.0

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
0.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	429.0
-149.0	CARBONDALE	DANVILLE	COAL	2.5	578.0
-169.0	CARBONDALE	JAMESTOWN	COAL	-	598.0
-251.0	CARBONDALE	SPRINGFIELD	COAL	3.5	680.0
-341.0	CARBONDALE	HOUCHIN CREEK	COAL	-	770.0

MAPID: 10100312000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 2N 12W

SECTION: 16

QUARTERS/FOOTAGES: 330' S line, 330' W line of SE SE

QUADRANGLE: ST. FRANCISVILLE

LONGITUDE: -87.744291

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.598528

DATE COLLECTED:

SURFACE ELEVATION (FT.): 486.0

LOGGED (FT.): 890.5

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
77.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	409.0
-72.0	CARBONDALE	DANVILLE	COAL	2.5	558.0
-94.0	CARBONDALE	JAMESTOWN	COAL	-	580.0
-100.0	CARBONDALE	HERRIN	COAL	-	586.0
-172.0	CARBONDALE	SPRINGFIELD	COAL	2.5	658.0
-256.0	CARBONDALE	HOUCHIN CREEK	COAL	-	742.0
-367.0	CARBONDALE	COLCHESTER	COAL	-	853.0
-402.0	SPOON	SEELYVILLE	COAL	2.5	888.0

MAPID: 10101111000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 16 QUARTERS/FOOTAGES: 1020' S line, 330' W line

QUADRANGLE: LANCASTER LONGITUDE: -87.758338 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.600524 DATE COLLECTED:

SURFACE ELEVATION (FT.): 451.0 LOGGED (FT.): 976.5 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
-32.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	483.0
-187.0	CARBONDALE	DANVILLE	COAL	3.5	638.0
-207.0	CARBONDALE	JAMESTOWN	COAL	-	658.0
-213.0	CARBONDALE	HERRIN	COAL	-	664.0
-289.0	CARBONDALE	SPRINGFIELD	COAL	4.0	740.0
-382.0	CARBONDALE	HOUCHIN CREEK	COAL	-	833.0
-488.0	CARBONDALE	COLCHESTER	COAL	-	939.0
-521.0	SPOON	SEELYVILLE	COAL	4.5	972.0

MAPID: 10100308000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 17 QUARTERS/FOOTAGES: 330' N line, 330' W line of NE SW

QUADRANGLE: LANCASTER LONGITUDE: -87.772296 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.604204 DATE COLLECTED:

SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 953.5 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
-42.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	467.0
-195.0	CARBONDALE	DANVILLE	COAL	3.0	620.0
-216.0	CARBONDALE	JAMESTOWN	COAL	-	641.0
-221.0	CARBONDALE	HERRIN	COAL	-	646.0
-303.0	CARBONDALE	SPRINGFIELD	COAL	3.0	728.0
-395.0	CARBONDALE	HOUCHIN CREEK	COAL	-	820.0
-499.0	CARBONDALE	COLCHESTER	COAL	-	924.0
-525.0	SPOON	SEELYVILLE	COAL	3.5	950.0

MAPID: 10103243000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 17 QUARTERS/FOOTAGES: 330' S line, 330' E line of NW NW
 QUADRANGLE: LANCASTER LONGITUDE: -87.774598 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.609678 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 426.0 LOGGED (FT.): 912.0 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
-10.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	436.0
-155.0	CARBONDALE	DANVILLE	COAL	3.0	581.0
-180.0	CARBONDALE	JAMESTOWN	COAL	-	606.0
-260.0	CARBONDALE	SPRINGFIELD	COAL	4.0	686.0
-358.0	CARBONDALE	HOUCHIN CREEK	COAL	-	784.0
-454.0	CARBONDALE	COLCHESTER	COAL	-	880.0
-482.0	SPOON	SEELYVILLE	COAL	4.0	908.0

MAPID: 10106212000C VERSION: 1

PROJECT: CONF

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 17 QUARTERS/FOOTAGES:
 QUADRANGLE: LANCASTER LONGITUDE: -87.768787 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 38.605099 DATE COLLECTED: 6 / 25 / 1957
 SURFACE ELEVATION (FT.): 418.0 LOGGED (FT.): 55.0 LOG TYPE: Drillers Log
 SOURCE: HANNA COAL CO. 24 FR 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: 10100309000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 18 QUARTERS/FOOTAGES: 393' S line, 330' W line of SE SE
 QUADRANGLE: LANCASTER LONGITUDE: -87.78206 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.599109 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 447.0 LOGGED (FT.): 922.0 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
12.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	435.0
-139.0	CARBONDALE	DANVILLE	COAL	3.0	586.0
-261.0	CARBONDALE	SPRINGFIELD	COAL	2.5	708.0
-347.0	CARBONDALE	HOUCHIN CREEK	COAL	-	794.0
-448.0	CARBONDALE	COLCHESTER	COAL	-	895.0
-472.0	SPOON	SEELYVILLE	COAL	3.0	919.0

MAPID: 1010325000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 18 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW

QUADRANGLE: LANCASTER LONGITUDE: -87.789421 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.604677 DATE COLLECTED:

SURFACE ELEVATION (FT.): 463.0 LOGGED (FT.): 900.0 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
31.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	432.0
-109.0	CARBONDALE	DANVILLE	COAL	3.0	572.0
-240.0	CARBONDALE	SPRINGFIELD	COAL	3.0	703.0
-325.0	CARBONDALE	HOUCHIN CREEK	COAL	-	788.0
-416.0	CARBONDALE	COLCHESTER	COAL	-	879.0
-437.0	SPOON	SEELYVILLE	COAL	-	900.0

MAPID: 10103251000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 18 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NE

QUADRANGLE: LANCASTER LONGITUDE: -87.779275 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.607915 DATE COLLECTED:

SURFACE ELEVATION (FT.): 441.0 LOGGED (FT.): 922.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
9.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	432.0
-139.0	CARBONDALE	DANVILLE	COAL	3.0	580.0
-163.0	CARBONDALE	JAMESTOWN	COAL	-	604.0
-256.0	CARBONDALE	SPRINGFIELD	COAL	3.0	697.0
-345.0	CARBONDALE	HOUCHIN CREEK	COAL	-	786.0
-449.0	CARBONDALE	COLCHESTER	COAL	-	890.0
-477.0	SPOON	SEELYVILLE	COAL	4.0	918.0

MAPID: 10100316000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 19 QUARTERS/FOOTAGES: SW SE NW
 QUADRANGLE: LANCASTER LONGITUDE: -87.792278 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.592042 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 442.0 LOGGED (FT.): 909.0 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
7.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	435.0
-146.0	CARBONDALE	DANVILLE	COAL	3.0	588.0
-171.0	CARBONDALE	HERRIN	COAL	3.0	613.0
-270.0	CARBONDALE	SPRINGFIELD	COAL	3.5	712.0
-358.0	CARBONDALE	HOUCHIN CREEK	COAL	-	800.0
-444.0	CARBONDALE	COLCHESTER	COAL	-	886.0
-462.0	SPOON	SEELYVILLE	COAL	5.0	904.0

MAPID: 10105864000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 19 QUARTERS/FOOTAGES: NE SW SE
 QUADRANGLE: LANCASTER LONGITUDE: -87.784701 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.58643 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 1014.5 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
-63.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	491.0
-227.0	CARBONDALE	DANVILLE	COAL	3.5	655.0
-243.0	CARBONDALE	JAMESTOWN	COAL	-	671.0
-352.0	CARBONDALE	SPRINGFIELD	COAL	4.0	780.0
-430.0	CARBONDALE	HOUCHIN CREEK	COAL	-	858.0
-539.0	CARBONDALE	COLCHESTER	COAL	-	967.0
-584.0	SPOON	SEELYVILLE	COAL	2.5	1012.0

MAPID: 10100315000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 20 QUARTERS/FOOTAGES: NE SW NE
 QUADRANGLE: LANCASTER LONGITUDE: -87.765401 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.593247 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 427.0 LOGGED (FT.): 1082.0 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
-58.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	485.0
-216.0	CARBONDALE	DANVILLE	COAL	2.5	643.0
-238.0	CARBONDALE	JAMESTOWN	COAL	-	665.0
-243.0	CARBONDALE	HERRIN	COAL	3.0	670.0
-323.0	CARBONDALE	SPRINGFIELD	COAL	3.0	750.0
-408.0	CARBONDALE	HOUCHIN CREEK	COAL	-	835.0
-510.0	CARBONDALE	COLCHESTER	COAL	-	937.0
-655.0	SPOON	SEELYVILLE	COAL	-	1082.0

MAPID: 10100742000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 20 QUARTERS/FOOTAGES: NW SE SW
 QUADRANGLE: LANCASTER LONGITUDE: -87.772483 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.586168 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 1017.0 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
-68.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	496.0
-233.0	CARBONDALE	DANVILLE	COAL	3.0	661.0
-252.0	CARBONDALE	HERRIN	COAL	-	680.0
-361.0	CARBONDALE	SPRINGFIELD	COAL	3.0	789.0
-444.0	CARBONDALE	HOUCHIN CREEK	COAL	-	872.0
-547.0	CARBONDALE	COLCHESTER	COAL	-	975.0
-586.0	SPOON	SEELYVILLE	COAL	3.0	1014.0

MAPID: 10100697000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 21 QUARTERS/FOOTAGES: SW SE SE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.744536 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.584002 DATE COLLECTED:

SURFACE ELEVATION (FT.): 424.0 LOGGED (FT.): 833.5 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
88.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	336.0
-79.0	CARBONDALE	DANVILLE	COAL	3.0	503.0
-98.0	CARBONDALE	JAMESTOWN	COAL	-	522.0
-101.0	CARBONDALE	HERRIN	COAL	2.5	525.0
-186.0	CARBONDALE	SPRINGFIELD	COAL	3.5	610.0
-266.0	CARBONDALE	HOUCHIN CREEK	COAL	-	690.0
-376.0	CARBONDALE	COLCHESTER	COAL	-	800.0
-406.0	SPOON	SEELYVILLE	COAL	3.5	830.0

MAPID: 10103268000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 21 QUARTERS/FOOTAGES: SW NE SW

QUADRANGLE: LANCASTER LONGITUDE: -87.753814 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.58768 DATE COLLECTED:

SURFACE ELEVATION (FT.): 444.0 LOGGED (FT.): 897.0 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
41.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	403.0
-116.0	CARBONDALE	DANVILLE	COAL	3.5	560.0
-134.0	CARBONDALE	JAMESTOWN	COAL	-	578.0
-140.0	CARBONDALE	HERRIN	COAL	-	584.0
-221.0	CARBONDALE	SPRINGFIELD	COAL	3.0	665.0
-306.0	CARBONDALE	HOUCHIN CREEK	COAL	-	750.0
-418.0	CARBONDALE	COLCHESTER	COAL	-	862.0
-450.0	SPOON	SEELYVILLE	COAL	3.0	894.0

MAPID: 10100257000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 22 QUARTERS/FOOTAGES: SE SE NW
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.73271 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.591209 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 429.0 LOGGED (FT.): 788.0 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
113.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	316.0
-39.0	CARBONDALE	DANVILLE	COAL	3.0	468.0
-65.0	CARBONDALE	HERRIN	COAL	3.5	494.0
-137.0	CARBONDALE	SPRINGFIELD	COAL	3.0	566.0
-225.0	CARBONDALE	HOUCHIN CREEK	COAL	-	654.0
-322.0	CARBONDALE	COLCHESTER	COAL	-	751.0
-357.0	SPOON	SEELYVILLE	COAL	2.0	786.0

MAPID: 10100314000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 22 QUARTERS/FOOTAGES: SW NE NE
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.725643 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.594845 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 463.0 LOGGED (FT.): 807.0 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
142.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	321.0
-10.0	CARBONDALE	DANVILLE	COAL	3.0	473.0
-30.0	CARBONDALE	JAMESTOWN	COAL	-	493.0
-101.0	CARBONDALE	SPRINGFIELD	COAL	3.0	564.0
-182.0	CARBONDALE	HOUCHIN CREEK	COAL	-	645.0
-287.0	CARBONDALE	COLCHESTER	COAL	-	750.0
-340.0	SPOON	SEELYVILLE	COAL	4.0	803.0

MAPID: 10100716000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 22 QUARTERS/FOOTAGES: 330' S line, 430' E line of NE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.723704 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.591159 DATE COLLECTED:

SURFACE ELEVATION (FT.): 448.0 LOGGED (FT.): 794.0 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
-19.0	CARBONDALE	DANVILLE	COAL	3.0	467.0
-40.0	CARBONDALE	JAMESTOWN	COAL	-	488.0
-46.0	CARBONDALE	HERRIN	COAL	-	494.0
-115.0	CARBONDALE	SPRINGFIELD	COAL	3.5	563.0
-204.0	CARBONDALE	HOUCHIN CREEK	COAL	-	652.0
-312.0	CARBONDALE	COLCHESTER	COAL	-	760.0
-339.0	SPOON	SEELYVILLE	COAL	7.0	787.0

MAPID: 10100260000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 23 QUARTERS/FOOTAGES: SE SE NW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.714012 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.591123 DATE COLLECTED:

SURFACE ELEVATION (FT.): 439.0 LOGGED (FT.): 740.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	294.0
-14.0	CARBONDALE	DANVILLE	COAL	3.5	453.0
-34.0	CARBONDALE	JAMESTOWN	COAL	-	473.0
-108.0	CARBONDALE	SPRINGFIELD	COAL	2.5	547.0
-195.0	CARBONDALE	HOUCHIN CREEK	COAL	-	634.0
-301.0	CARBONDALE	COLCHESTER	COAL	-	740.0

MAPID: 10100319000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 23
QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.720999
CONFIDENTIAL: N LATITUDE: 38.592992
SURFACE ELEVATION (FT.): 452.0 LOGGED (FT.): 792.0
SOURCE:
COMMENT: GOOD LOG

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-12.0	CARBONDALE	DANVILLE	COAL	3.5	464.0
-33.0	CARBONDALE	JAMESTOWN	COAL	-	485.0
-105.0	CARBONDALE	SPRINGFIELD	COAL	2.5	557.0
-190.0	CARBONDALE	HOUCHIN CREEK	COAL	-	642.0
-295.0	CARBONDALE	COLCHESTER	COAL	-	747.0
-338.0	SPOON	SEELYVILLE	COAL	2.0	790.0

MAPID: 10100320000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 23
QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.712334
CONFIDENTIAL: N LATITUDE: 38.584393
SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 778.5
SOURCE:
COMMENT: GOOD LOG

QUARTERS/FOOTAGES: 561' S line, 172' W line of SE
GEOLOGIST: C TREWORY
DATE COLLECTED:
LOG TYPE: Electric Log
WELL TYPE: Oil and Gas Test

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-22.0	CARBONDALE	DANVILLE	COAL	3.5	452.0
-42.0	CARBONDALE	JAMESTOWN	COAL	-	472.0
-47.0	CARBONDALE	HERRIN	COAL	-	477.0
-121.0	CARBONDALE	SPRINGFIELD	COAL	2.0	551.0
-202.0	CARBONDALE	HOUCHIN CREEK	COAL	-	632.0
-320.0	CARBONDALE	COLCHESTER	COAL	-	750.0
-346.0	SPOON	SEELYVILLE	COAL	2.5	776.0

MAPID: 10100034000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 24 QUARTERS/FOOTAGES: NW NW NW
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.702281 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.596605 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 426.0 LOGGED (FT.): 774.5 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
158.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	268.0
2.0	CARBONDALE	DANVILLE	COAL	4.0	424.0
-18.0	CARBONDALE	JAMESTOWN	COAL	-	444.0
-24.0	CARBONDALE	HERRIN	COAL	3.0	450.0
-88.0	CARBONDALE	SPRINGFIELD	COAL	3.5	514.0
-174.0	CARBONDALE	HOUCHIN CREEK	COAL	-	600.0
-284.0	CARBONDALE	COLCHESTER	COAL	-	710.0
-345.0	SPOON	SEELYVILLE	COAL	3.5	771.0

MAPID: 10100033000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 25 QUARTERS/FOOTAGES: SE SE NW
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.69569 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.576505 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 420.0 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.)	
				UNIT	OVERBURDEN COMMENT
117.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	303.0
-52.0	CARBONDALE	DANVILLE	COAL	3.5	472.0
-72.0	CARBONDALE	JAMESTOWN	COAL	-	492.0
-159.0	CARBONDALE	SPRINGFIELD	COAL	3.0	579.0
-256.0	CARBONDALE	HOUCHIN CREEK	COAL	-	676.0
-384.0	CARBONDALE	COLCHESTER	COAL	-	804.0
-396.0	SPOON	SEELYVILLE	COAL	-	816.0

MAPID: 10100321000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 25 QUARTERS/FOOTAGES: SE NE NE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.686492 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.580208 DATE COLLECTED:

SURFACE ELEVATION (FT.): 420.0 LOGGED (FT.): 789.5 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
112.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	308.0
-14.0	CARBONDALE	DANVILLE	COAL	3.5	434.0
-38.0	CARBONDALE	JAMESTOWN	COAL	-	458.0
-125.0	CARBONDALE	SPRINGFIELD	COAL	3.5	545.0
-220.0	CARBONDALE	HOUCHIN CREEK	COAL	-	640.0
-342.0	CARBONDALE	COLCHESTER	COAL	-	762.0
-367.0	SPOON	SEELYVILLE	COAL	2.5	787.0

MAPID: 10101474000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 25 QUARTERS/FOOTAGES: SE SE SW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.695772 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.569208 DATE COLLECTED:

SURFACE ELEVATION (FT.): 400.0 LOGGED (FT.): 797.0 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	CARBONDALE	DANVILLE	COAL	3.5	447.0
-75.0	CARBONDALE	JAMESTOWN	COAL	3.0	475.0
-80.0	CARBONDALE	HERRIN	COAL	3.0	480.0
-159.0	CARBONDALE	SPRINGFIELD	COAL	2.5	559.0
-250.0	CARBONDALE	HOUCHIN CREEK	COAL	-	650.0
-370.0	CARBONDALE	COLCHESTER	COAL	-	770.0
-394.0	SPOON	SEELYVILLE	COAL	3.0	794.0

MAPID: 10102181000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 26 QUARTERS/FOOTAGES: 30' S line, 660' W line of NW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.720192 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.575708 DATE COLLECTED:

SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 782.5 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
158.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	270.0
2.0	CARBONDALE	DANVILLE	COAL	3.5	426.0
-32.0	CARBONDALE	HERRIN	COAL	-	460.0
-115.0	CARBONDALE	SPRINGFIELD	COAL	3.0	543.0
-211.0	CARBONDALE	HOUCHIN CREEK	COAL	-	639.0
-320.0	CARBONDALE	COLCHESTER	COAL	-	748.0
-352.0	SPOON	SEELYVILLE	COAL	2.5	780.0

MAPID: 10102541000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 26 QUARTERS/FOOTAGES: 530' S line, 600' W line of SE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.711151 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.569831 DATE COLLECTED:

SURFACE ELEVATION (FT.): 408.0 LOGGED (FT.): 779.0 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
133.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	275.0
-25.0	CARBONDALE	DANVILLE	COAL	3.5	433.0
-56.0	CARBONDALE	JAMESTOWN	COAL	2.0	464.0
-60.0	CARBONDALE	HERRIN	COAL	-	468.0
-143.0	CARBONDALE	SPRINGFIELD	COAL	2.0	551.0
-232.0	CARBONDALE	HOUCHIN CREEK	COAL	-	640.0
-347.0	CARBONDALE	COLCHESTER	COAL	-	755.0
-367.0	SPOON	SEELYVILLE	COAL	4.0	775.0

MAPID: 10103326000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 26
QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.721419
CONFIDENTIAL: N LATITUDE: 38.572908
SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 779.0
SOURCE:
COMMENT: GOOD LOG

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
132.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	293.0
-36.0	CARBONDALE	DANVILLE	COAL	3.5	461.0
-58.0	CARBONDALE	JAMESTOWN	COAL	-	483.0
-142.0	CARBONDALE	SPRINGFIELD	COAL	4.0	567.0
-203.0	CARBONDALE	HOUCHIN CREEK	COAL	-	628.0
-319.0	CARBONDALE	COLCHESTER	COAL	-	744.0
-351.0	SPOON	SEELYVILLE	COAL	3.0	776.0

MAPID: 10105240000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 26
QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.706972
CONFIDENTIAL: N LATITUDE: 38.581913
SURFACE ELEVATION (FT.): 429.0 LOGGED (FT.): 778.0
SOURCE:
COMMENT: GOOD LOG

QUARTERS/FOOTAGES: 330' N line, 380' W line of NE NE
GEOLOGIST: C TREWORY
DATE COLLECTED:
LOG TYPE: Electric Log
WELL TYPE: Oil and Gas Test

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
142.0	MODESTO	WEST FRANKLIN	LIMESTONE	20.0	287.0
-35.0	CARBONDALE	DANVILLE	COAL	3.5	464.0
-50.0	CARBONDALE	JAMESTOWN	COAL	-	479.0
-57.0	CARBONDALE	HERRIN	COAL	3.5	486.0
-142.0	CARBONDALE	SPRINGFIELD	COAL	4.0	571.0
-201.0	CARBONDALE	HOUCHIN CREEK	COAL	-	630.0
-321.0	CARBONDALE	COLCHESTER	COAL	-	750.0
-346.0	SPOON	SEELYVILLE	COAL	3.0	775.0

MAPID: 10100002000C **VERSION:** 1 **PROJECT:** CONTROL
COUNTY: LAWRENCE **TWP/RNG:** 2N 12W **SECTION:** 27 **QUARTERS/FOOTAGES:** 530' N line, 330' E line of SW
QUADRANGLE: ST. FRANCISVILLE **LONGITUDE:** -87.733052 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.574265 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 2025.0 **LOG TYPE:** Survey Sample Study
SOURCE: RYAN OIL CO., ETAL **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: 10101334000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 2N 12W **SECTION:** 27 **QUARTERS/FOOTAGES:** SE SE NW
QUADRANGLE: ST. FRANCISVILLE **LONGITUDE:** -87.733004 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.576636 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 430.0 **LOGGED (FT.):** 834.0 **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	
110.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	320.0	
-58.0	CARBONDALE	DANVILLE	COAL	3.5	488.0	
-76.0	CARBONDALE	JAMESTOWN	COAL	-	506.0	
-80.0	CARBONDALE	HERRIN	COAL	-	510.0	
-166.0	CARBONDALE	SPRINGFIELD	COAL	2.5	596.0	
-257.0	CARBONDALE	HOUCHIN CREEK	COAL	-	687.0	
-372.0	CARBONDALE	COLCHESTER	COAL	-	802.0	
-401.0	SPOON	SEELYVILLE	COAL	3.0	831.0	

MAPID: 10103373000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 27 QUARTERS/FOOTAGES: NE SE SE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.72381 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.571105 DATE COLLECTED:

SURFACE ELEVATION (FT.): 427.0 LOGGED (FT.): 800.5 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
143.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	284.0
-30.0	CARBONDALE	DANVILLE	COAL	2.5	457.0
-52.0	CARBONDALE	JAMESTOWN	COAL	-	479.0
-56.0	CARBONDALE	HERRIN	COAL	-	483.0
-141.0	CARBONDALE	SPRINGFIELD	COAL	3.5	568.0
-225.0	CARBONDALE	HOUCHIN CREEK	COAL	-	652.0
-341.0	CARBONDALE	COLCHESTER	COAL	-	768.0
-371.0	SPOON	SEELYVILLE	COAL	2.5	798.0

MAPID: 10103383000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 27 QUARTERS/FOOTAGES: SE NE NW

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.732918 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.580269 DATE COLLECTED:

SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 802.5 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
123.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	302.0
-42.0	CARBONDALE	DANVILLE	COAL	4.5	467.0
-61.0	CARBONDALE	JAMESTOWN	COAL	-	486.0
-151.0	CARBONDALE	SPRINGFIELD	COAL	4.0	576.0
-235.0	CARBONDALE	HOUCHIN CREEK	COAL	-	660.0
-348.0	CARBONDALE	COLCHESTER	COAL	-	773.0
-375.0	SPOON	SEELYVILLE	COAL	2.5	800.0

MAPID: 10100325000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 28 QUARTERS/FOOTAGES: NE NW SE
 QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.747053 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.574928 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 429.0 LOGGED (FT.): 855.0 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
88.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	341.0
-81.0	CARBONDALE	DANVILLE	COAL	3.0	510.0
-99.0	CARBONDALE	JAMESTOWN	COAL	-	528.0
-103.0	CARBONDALE	HERRIN	COAL	-	532.0
-185.0	CARBONDALE	SPRINGFIELD	COAL	2.5	614.0
-276.0	CARBONDALE	HOUCHIN CREEK	COAL	-	705.0
-394.0	CARBONDALE	COLCHESTER	COAL	-	823.0
-423.0	SPOON	SEELYVILLE	COAL	3.0	852.0

MAPID: 10101387000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 28 QUARTERS/FOOTAGES: NW SW SW
 QUADRANGLE: LANCASTER LONGITUDE: -87.758797 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.571361 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 447.0 LOGGED (FT.): 907.5 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
70.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	377.0
-109.0	CARBONDALE	DANVILLE	COAL	3.0	556.0
-133.0	CARBONDALE	HERRIN	COAL	4.0	580.0
-216.0	CARBONDALE	SPRINGFIELD	COAL	2.0	663.0
-316.0	CARBONDALE	HOUCHIN CREEK	COAL	-	763.0
-428.0	CARBONDALE	COLCHESTER	COAL	-	875.0
-458.0	SPOON	SEELYVILLE	COAL	2.5	905.0

MAPID: 10103391000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 28 QUARTERS/FOOTAGES: NW NW NE

QUADRANGLE: ST. FRANCISVILLE LONGITUDE: -87.749235 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.582207 DATE COLLECTED:

SURFACE ELEVATION (FT.): 415.0 LOGGED (FT.): 846.5 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
62.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	353.0
-108.0	CARBONDALE	DANVILLE	COAL	3.5	523.0
-126.0	CARBONDALE	JAMESTOWN	COAL	-	541.0
-134.0	CARBONDALE	HERRIN	COAL	-	549.0
-202.0	CARBONDALE	SPRINGFIELD	COAL	3.0	617.0
-290.0	CARBONDALE	HOUCHIN CREEK	COAL	-	705.0
-405.0	CARBONDALE	COLCHESTER	COAL	-	820.0
-428.0	SPOON	SEELYVILLE	COAL	3.5	843.0

MAPID: 10100326000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 29 QUARTERS/FOOTAGES: 330' N line, 339' E line of SW SE

QUADRANGLE: LANCASTER LONGITUDE: -87.765794 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.571466 DATE COLLECTED:

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 941.5 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
46.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	404.0
-127.0	CARBONDALE	DANVILLE	COAL	3.0	577.0
-150.0	CARBONDALE	HERRIN	COAL	-	600.0
-259.0	CARBONDALE	SPRINGFIELD	COAL	-	709.0
-345.0	CARBONDALE	HOUCHIN CREEK	COAL	-	795.0
-460.0	CARBONDALE	COLCHESTER	COAL	-	910.0
-489.0	SPOON	SEELYVILLE	COAL	2.5	939.0

MAPID: 10100327000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 12W SECTION: 30 QUARTERS/FOOTAGES: SE SW NW
 QUADRANGLE: LANCASTER LONGITUDE: -87.795129 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.577438 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 454.0 LOGGED (FT.): 1028.5 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
-31.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	485.0
-191.0	CARBONDALE	DANVILLE	COAL	2.0	645.0
-223.0	CARBONDALE	HERRIN	COAL	-	677.0
-338.0	CARBONDALE	SPRINGFIELD	COAL	3.0	792.0
-422.0	CARBONDALE	HOUCHIN CREEK	COAL	-	876.0
-506.0	CARBONDALE	COLCHESTER	COAL	-	960.0
-572.0	SPOON	SEELYVILLE	COAL	2.5	1026.0

MAPID: 10100342000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 1 QUARTERS/FOOTAGES: SE SW NE
 QUADRANGLE: SUMNER LONGITUDE: -87.803573 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.636364 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 462.0 LOGGED (FT.): 892.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	425.0
-105.0	CARBONDALE	DANVILLE	COAL	3.0	567.0
-128.0	CARBONDALE	JAMESTOWN	COAL	-	590.0
-133.0	CARBONDALE	HERRIN	COAL	3.0	595.0
-230.0	CARBONDALE	SPRINGFIELD	COAL	3.0	692.0
-333.0	CARBONDALE	HOUCHIN CREEK	COAL	-	795.0
-430.0	CARBONDALE	COLCHESTER	COAL	-	892.0

MAPID: 10100343000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 2N 13W

SECTION: 1

QUARTERS/FOOTAGES: SW NE SW

QUADRANGLE: SUMNER

LONGITUDE: -87.810646

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.632781

DATE COLLECTED:

SURFACE ELEVATION (FT.): 480.0

LOGGED (FT.): 835.0

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
18.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	462.0
-124.0	CARBONDALE	DANVILLE	COAL	2.5	604.0
-247.0	CARBONDALE	SPRINGFIELD	COAL	3.0	727.0
-349.0	CARBONDALE	HOUCHIN CREEK	COAL	-	829.0
-455.0	CARBONDALE	COLCHESTER	COAL	-	935.0

MAPID: 10100374000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 2N 13W

SECTION: 1

QUARTERS/FOOTAGES: SW SE SW

QUADRANGLE: SUMNER

LONGITUDE: -87.810726

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.629104

DATE COLLECTED:

SURFACE ELEVATION (FT.): 468.0

LOGGED (FT.): 920.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
8.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	460.0
-140.0	CARBONDALE	DANVILLE	COAL	3.5	608.0
-161.0	CARBONDALE	JAMESTOWN	COAL	2.0	629.0
-167.0	CARBONDALE	HERRIN	COAL	3.0	635.0
-257.0	CARBONDALE	SPRINGFIELD	COAL	3.0	725.0
-452.0	CARBONDALE	HOUCHIN CREEK	COAL	-	920.0

MAPID: 10100340000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 2 QUARTERS/FOOTAGES: NW NW SE
 QUADRANGLE: SUMNER LONGITUDE: -87.824641 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.634787 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 487.0 LOGGED (FT.): 955.0 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
-17.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	504.0
-169.0	CARBONDALE	DANVILLE	COAL	3.0	656.0
-191.0	CARBONDALE	JAMESTOWN	COAL	2.5	678.0
-199.0	CARBONDALE	HERRIN	COAL	3.0	686.0
-273.0	CARBONDALE	SPRINGFIELD	COAL	2.5	760.0
-361.0	CARBONDALE	HOUCHIN CREEK	COAL	-	848.0
-468.0	CARBONDALE	COLCHESTER	COAL	-	955.0

MAPID: 10102396000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 3 QUARTERS/FOOTAGES: NW SE SE
 QUADRANGLE: SUMNER LONGITUDE: -87.838783 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.631291 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 517.0 LOGGED (FT.): 1067.0 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
-53.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	570.0
-209.0	CARBONDALE	DANVILLE	COAL	3.0	726.0
-229.0	CARBONDALE	JAMESTOWN	COAL	-	746.0
-238.0	CARBONDALE	HERRIN	COAL	2.5	755.0
-326.0	CARBONDALE	SPRINGFIELD	COAL	3.0	843.0
-413.0	CARBONDALE	HOUCHIN CREEK	COAL	-	930.0
-520.0	CARBONDALE	COLCHESTER	COAL	-	1037.0
-548.0	SPOON	SEELYVILLE	COAL	2.0	1065.0

MAPID: 10100344000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 4 QUARTERS/FOOTAGES: SW SE SE
 QUADRANGLE: SUMNER LONGITUDE: -87.857665 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.629746 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 477.0 LOGGED (FT.): 1119.5 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
-127.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	604.0
-286.0	CARBONDALE	DANVILLE	COAL	3.0	763.0
-318.0	CARBONDALE	HERRIN	COAL	-	795.0
-409.0	CARBONDALE	SPRINGFIELD	COAL	-	886.0
-485.0	CARBONDALE	HOUCHIN CREEK	COAL	-	962.0
-593.0	CARBONDALE	COLCHESTER	COAL	-	1070.0
-638.0	SPOON	SEELYVILLE	COAL	4.5	1115.0

MAPID: 10106210000C VERSION: 1

PROJECT: CONF

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 4 QUARTERS/FOOTAGES:
 QUADRANGLE: SUMNER LONGITUDE: -87.863407 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 38.636029 DATE COLLECTED: 6 / 26 / 1957
 SURFACE ELEVATION (FT.): 457.0 LOGGED (FT.): 125.0 LOG TYPE: Drillers Log
 SOURCE: HANNA COAL CO. 14 FR WELL TYPE: Coal Test
 COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
407.1			COAL	0.1	49.9
373.0			COAL	0.5	84.0

MAPID: 10106209000C VERSION: 1

PROJECT: CONF

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 5 QUARTERS/FOOTAGES:
 QUADRANGLE: CLAREMONT LONGITUDE: -87.886746 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 38.636078 DATE COLLECTED: 6 / 25 / 1957
 SURFACE ELEVATION (FT.): 489.0 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log
 SOURCE: HANNA COAL CO. 13 FR WELL TYPE: Coal Test
 COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
437.3			COAL	0.7	51.7
388.2			COAL	3.1	100.8

MAPID: 10106211000C VERSION: 1

PROJECT: CONF

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 5 QUARTERS/FOOTAGES:

QUADRANGLE: CLAREMONT LONGITUDE: -87.886746

GEOLOGIST: LOG BOOK

CONFIDENTIAL: N LATITUDE: 38.636078

DATE COLLECTED: 6 / 27 / 1957

SURFACE ELEVATION (FT.): 489.0 LOGGED (FT.): 205.0

LOG TYPE: Drillers Log

SOURCE: HANNA COAL CO. 16 FR

WELL TYPE: Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
371.7			COAL	0.3	117.3
353.9			COAL	0.2	135.1

MAPID: 10100345000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 6 QUARTERS/FOOTAGES: SE SE NE

QUADRANGLE: CLAREMONT LONGITUDE: -87.891969

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.637037

DATE COLLECTED:

SURFACE ELEVATION (FT.): 525.0 LOGGED (FT.): 1290.5

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
-222.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	747.0
-394.0	CARBONDALE	DANVILLE	COAL	3.0	919.0
-435.0	CARBONDALE	HERRIN	COAL	4.0	960.0
-535.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1060.0
-620.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1145.0
-712.0	CARBONDALE	COLCHESTER	COAL	-	1237.0
-761.0	SPOON	SEELYVILLE	COAL	4.5	1286.0

MAPID: 10100029000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 7 QUARTERS/FOOTAGES: SW SW

QUADRANGLE: BERRYVILLE LONGITUDE: -87.907622

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.615881

DATE COLLECTED:

SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 1148.0

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
-205.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	745.0
-385.0	CARBONDALE	DANVILLE	COAL	3.5	925.0
-418.0	CARBONDALE	HERRIN	COAL	3.5	958.0
-546.0	CARBONDALE	SPRINGFIELD	COAL	-	1086.0
-608.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1148.0

MAPID: 10100028000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 10 QUARTERS/FOOTAGES: NE SE NE

QUADRANGLE: LANCASTER LONGITUDE: -87.836578 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.62395 DATE COLLECTED:

SURFACE ELEVATION (FT.): 497.0 LOGGED (FT.): 1049.0 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
-48.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	545.0
-213.0	CARBONDALE	DANVILLE	COAL	3.5	710.0
-233.0	CARBONDALE	JAMESTOWN	COAL	-	730.0
-244.0	CARBONDALE	HERRIN	COAL	3.0	741.0
-324.0	CARBONDALE	SPRINGFIELD	COAL	4.0	821.0
-409.0	CARBONDALE	HOUCHIN CREEK	COAL	-	906.0
-516.0	CARBONDALE	COLCHESTER	COAL	-	1013.0
-552.0	SPOON	SEELYVILLE	COAL	-	1049.0

MAPID: 10100339000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 10 QUARTERS/FOOTAGES: SW SW NE

QUADRANGLE: LANCASTER LONGITUDE: -87.84369 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.622224 DATE COLLECTED:

SURFACE ELEVATION (FT.): 479.0 LOGGED (FT.): 1028.0 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	12.0	552.0
-241.0	CARBONDALE	DANVILLE	COAL	3.5	720.0
-272.0	CARBONDALE	HERRIN	COAL	3.5	751.0
-356.0	CARBONDALE	SPRINGFIELD	COAL	4.0	835.0
-437.0	CARBONDALE	HOUCHIN CREEK	COAL	-	916.0
-549.0	CARBONDALE	COLCHESTER	COAL	-	1028.0

MAPID: 10100027000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 11 QUARTERS/FOOTAGES: SE SE NW
 QUADRANGLE: LANCASTER LONGITUDE: -87.82724 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.622004 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 470.0 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
-33.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	503.0
-182.0	CARBONDALE	DANVILLE	COAL	4.0	652.0
-210.0	CARBONDALE	HERRIN	COAL	2.5	680.0
-296.0	CARBONDALE	SPRINGFIELD	COAL	3.5	766.0
-380.0	CARBONDALE	HOUCHIN CREEK	COAL	-	850.0
-480.0	CARBONDALE	COLCHESTER	COAL	-	950.0

MAPID: 10100337000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 11 QUARTERS/FOOTAGES: SE SW SE
 QUADRANGLE: LANCASTER LONGITUDE: -87.822701 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.614632 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 472.0 LOGGED (FT.): 945.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-31.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	503.0
-186.0	CARBONDALE	DANVILLE	COAL	2.5	658.0
-298.0	CARBONDALE	SPRINGFIELD	COAL	4.0	770.0
-383.0	CARBONDALE	HOUCHIN CREEK	COAL	-	855.0
-473.0	CARBONDALE	COLCHESTER	COAL	-	945.0

MAPID: 10100334000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 12 QUARTERS/FOOTAGES: SW SW SE

QUADRANGLE: LANCASTER LONGITUDE: -87.806353 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.614339 DATE COLLECTED:

SURFACE ELEVATION (FT.): 445.0 LOGGED (FT.): 931.0 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
-48.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	493.0
-197.0	CARBONDALE	DANVILLE	COAL	3.0	642.0
-225.0	CARBONDALE	HERRIN	COAL	2.5	670.0
-311.0	CARBONDALE	SPRINGFIELD	COAL	3.5	756.0
-400.0	CARBONDALE	HOUCHIN CREEK	COAL	-	845.0
-486.0	CARBONDALE	COLCHESTER	COAL	-	931.0

MAPID: 10100336000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 12 QUARTERS/FOOTAGES: NE SW NW

QUADRANGLE: LANCASTER LONGITUDE: -87.813161 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.623642 DATE COLLECTED:

SURFACE ELEVATION (FT.): 462.0 LOGGED (FT.): 933.0 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
-28.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	490.0
-174.0	CARBONDALE	DANVILLE	COAL	3.0	636.0
-200.0	CARBONDALE	HERRIN	COAL	3.0	662.0
-297.0	CARBONDALE	SPRINGFIELD	COAL	3.5	759.0
-394.0	CARBONDALE	HOUCHIN CREEK	COAL	-	856.0
-471.0	CARBONDALE	COLCHESTER	COAL	-	933.0

MAPID: 10103410000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 12 QUARTERS/FOOTAGES: SW SW NE

QUADRANGLE: LANCASTER LONGITUDE: -87.80621 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.621685 DATE COLLECTED:

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 920.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	475.0
-177.0	CARBONDALE	DANVILLE	COAL	3.5	627.0
-210.0	CARBONDALE	HERRIN	COAL	2.5	660.0
-295.0	CARBONDALE	SPRINGFIELD	COAL	4.5	745.0
-405.0	CARBONDALE	HOUCHIN CREEK	COAL	-	855.0
-470.0	CARBONDALE	COLCHESTER	COAL	-	920.0

MAPID: 10103424000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 12 QUARTERS/FOOTAGES: NW NE NE

QUADRANGLE: SUMNER LONGITUDE: -87.801438 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.627118 DATE COLLECTED:

SURFACE ELEVATION (FT.): 462.0 LOGGED (FT.): 777.0 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
38.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	424.0
-103.0	CARBONDALE	DANVILLE	COAL	2.0	565.0
-126.0	CARBONDALE	JAMESTOWN	COAL	-	588.0
-131.0	CARBONDALE	HERRIN	COAL	2.0	593.0
-221.0	CARBONDALE	SPRINGFIELD	COAL	3.0	683.0
-315.0	CARBONDALE	HOUCHIN CREEK	COAL	-	777.0

MAPID: 10100348000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 2N 13W

SECTION: 13

QUARTERS/FOOTAGES: SW SW NE

QUADRANGLE: LANCASTER

LONGITUDE: -87.80651

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.606999

DATE COLLECTED:

SURFACE ELEVATION (FT.): 458.0

LOGGED (FT.): 989.5

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
-39.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	497.0
-203.0	CARBONDALE	DANVILLE	COAL	3.0	661.0
-225.0	CARBONDALE	JAMESTOWN	COAL	-	683.0
-229.0	CARBONDALE	HERRIN	COAL	-	687.0
-319.0	CARBONDALE	SPRINGFIELD	COAL	3.5	777.0
-412.0	CARBONDALE	HOUCHIN CREEK	COAL	-	870.0
-494.0	CARBONDALE	COLCHESTER	COAL	-	952.0
-529.0	SPOON	SEELYVILLE	COAL	2.5	987.0

MAPID: 10103432000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 2N 13W

SECTION: 13

QUARTERS/FOOTAGES: NE SE SW

QUADRANGLE: LANCASTER

LONGITUDE: -87.808955

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.601529

DATE COLLECTED:

SURFACE ELEVATION (FT.): 458.0

LOGGED (FT.): 1011.5

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
-49.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	507.0
-215.0	CARBONDALE	DANVILLE	COAL	4.0	673.0
-239.0	CARBONDALE	JAMESTOWN	COAL	-	697.0
-246.0	CARBONDALE	HERRIN	COAL	3.0	704.0
-335.0	CARBONDALE	SPRINGFIELD	COAL	4.0	793.0
-427.0	CARBONDALE	HOUCHIN CREEK	COAL	-	885.0
-508.0	CARBONDALE	COLCHESTER	COAL	-	966.0
-551.0	SPOON	SEELYVILLE	COAL	2.5	1009.0

MAPID: 1010035000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 14 QUARTERS/FOOTAGES: NW NW SE

QUADRANGLE: LANCASTER LONGITUDE: -87.825243 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.605424 DATE COLLECTED:

SURFACE ELEVATION (FT.): 479.0 LOGGED (FT.): 1024.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-23.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	502.0	
-198.0	CARBONDALE	DANVILLE	COAL	3.0	677.0	
-229.0	CARBONDALE	HERRIN	COAL	3.0	708.0	
-301.0	CARBONDALE	SPRINGFIELD	COAL	4.0	780.0	
-382.0	CARBONDALE	HOUCHIN CREEK	COAL	-	861.0	
-491.0	CARBONDALE	COLCHESTER	COAL	-	970.0	
-545.0	SPOON	SEELYVILLE	COAL	-	1024.0	

MAPID: 10100355000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 14 QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: LANCASTER LONGITUDE: -87.818033 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.612742 DATE COLLECTED:

SURFACE ELEVATION (FT.): 472.0 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.)		COMMENT
				UNIT	OVERBURDEN	
-200.0	CARBONDALE	DANVILLE	COAL	2.5	672.0	
-219.0	CARBONDALE	JAMESTOWN	COAL	3.0	691.0	
-229.0	CARBONDALE	HERRIN	COAL	2.5	701.0	
-315.0	CARBONDALE	SPRINGFIELD	COAL	4.0	787.0	
-411.0	CARBONDALE	HOUCHIN CREEK	COAL	-	883.0	
-483.0	CARBONDALE	COLCHESTER	COAL	-	955.0	
-549.0	SPOON	SEELYVILLE	COAL	2.0	1021.0	

MAPID: 10100696000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 14 QUARTERS/FOOTAGES: SE SW NW

QUADRANGLE: LANCASTER LONGITUDE: -87.832257 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.607348 DATE COLLECTED:

SURFACE ELEVATION (FT.): 502.0 LOGGED (FT.): 1050.0 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	
-32.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	534.0	
-192.0	CARBONDALE	DANVILLE	COAL	3.0	694.0	
-218.0	CARBONDALE	HERRIN	COAL	3.0	720.0	
-304.0	CARBONDALE	SPRINGFIELD	COAL	3.5	806.0	
-383.0	CARBONDALE	HOUCHIN CREEK	COAL	-	885.0	
-484.0	CARBONDALE	COLCHESTER	COAL	-	986.0	
-548.0	SPOON	SEELYVILLE	COAL	-	1050.0	

MAPID: 10100351000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 15 QUARTERS/FOOTAGES: NE SW SE

QUADRANGLE: LANCASTER LONGITUDE: -87.841762 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.601899 DATE COLLECTED:

SURFACE ELEVATION (FT.): 539.0 LOGGED (FT.): 1097.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-33.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	572.0	
-205.0	CARBONDALE	DANVILLE	COAL	3.5	744.0	
-232.0	CARBONDALE	HERRIN	COAL	2.5	771.0	
-313.0	CARBONDALE	SPRINGFIELD	COAL	3.5	852.0	
-397.0	CARBONDALE	HOUCHIN CREEK	COAL	-	936.0	
-505.0	CARBONDALE	COLCHESTER	COAL	-	1044.0	
-556.0	SPOON	SEELYVILLE	COAL	2.0	1095.0	

MAPID: 10127658000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 15 QUARTERS/FOOTAGES: SW SW NW
 QUADRANGLE: LANCASTER LONGITUDE: -87.853393 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.607615 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 457.0 LOGGED (FT.): 1039.0 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
-54.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	511.0
-223.0	CARBONDALE	DANVILLE	COAL	-	680.0
-251.0	CARBONDALE	HERRIN	COAL	-	708.0
-333.0	CARBONDALE	SPRINGFIELD	COAL	3.5	790.0
-413.0	CARBONDALE	HOUCHIN CREEK	COAL	-	870.0
-529.0	CARBONDALE	COLCHESTER	COAL	-	986.0
-582.0	SPOON	SEELYVILLE	COAL	-	1039.0

MAPID: 10100352000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 16 QUARTERS/FOOTAGES: NW NW NW
 QUADRANGLE: LANCASTER LONGITUDE: -87.872048 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.613431 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 458.0 LOGGED (FT.): 1095.0 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
-87.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	545.0
-252.0	CARBONDALE	DANVILLE	COAL	3.0	710.0
-279.0	CARBONDALE	HERRIN	COAL	-	737.0
-386.0	CARBONDALE	SPRINGFIELD	COAL	3.5	844.0
-461.0	CARBONDALE	HOUCHIN CREEK	COAL	-	919.0
-589.0	CARBONDALE	COLCHESTER	COAL	-	1047.0
-634.0	SPOON	SEELYVILLE	COAL	3.0	1092.0

MAPID: 1012757000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 16 QUARTERS/FOOTAGES: 600' S line, 330' E line of SE

QUADRANGLE: LANCASTER LONGITUDE: -87.855873 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.600926 DATE COLLECTED:

SURFACE ELEVATION (FT.): 470.0 LOGGED (FT.): 1052.5 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
-30.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	500.0
-202.0	CARBONDALE	DANVILLE	COAL	3.0	672.0
-231.0	CARBONDALE	HERRIN	COAL	2.0	701.0
-324.0	CARBONDALE	SPRINGFIELD	COAL	4.0	794.0
-405.0	CARBONDALE	HOUCHIN CREEK	COAL	1.5	875.0
-581.0	SPOON	SEELYVILLE	COAL	1.5	1051.0

MAPID: 10100023000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 17 QUARTERS/FOOTAGES: SW SW SE

QUADRANGLE: BERRYVILLE LONGITUDE: -87.881614 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.600395 DATE COLLECTED:

SURFACE ELEVATION (FT.): 461.0 LOGGED (FT.): 1087.5 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
-81.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	542.0
-246.0	CARBONDALE	DANVILLE	COAL	3.5	707.0
-377.0	CARBONDALE	SPRINGFIELD	COAL	3.5	838.0
-459.0	CARBONDALE	HOUCHIN CREEK	COAL	-	920.0
-589.0	CARBONDALE	COLCHESTER	COAL	-	1050.0
-624.0	SPOON	SEELYVILLE	COAL	2.5	1085.0

MAPID: 10100353000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 18 QUARTERS/FOOTAGES: NE NW NE
 QUADRANGLE: BERRYVILLE LONGITUDE: -87.897036 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.613065 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 507.0 LOGGED (FT.): 1242.0 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	
-173.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	680.0	
-338.0	CARBONDALE	DANVILLE	COAL	3.5	845.0	
-368.0	CARBONDALE	HERRIN	COAL	-	875.0	
-477.0	CARBONDALE	SPRINGFIELD	COAL	4.0	984.0	
-554.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1061.0	
-683.0	CARBONDALE	COLCHESTER	COAL	-	1190.0	
-733.0	SPOON	SEELYVILLE	COAL	2.0	1240.0	

MAPID: 10101652000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 18 QUARTERS/FOOTAGES: SE SW NW
 QUADRANGLE: BERRYVILLE LONGITUDE: -87.906328 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.607649 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 525.0 LOGGED (FT.): 1303.0 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	
-181.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	706.0	
-356.0	CARBONDALE	DANVILLE	COAL	3.0	881.0	
-390.0	CARBONDALE	HERRIN	COAL	2.5	915.0	
-511.0	CARBONDALE	SPRINGFIELD	COAL	-	1036.0	
-578.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1103.0	
-711.0	CARBONDALE	COLCHESTER	COAL	-	1236.0	
-775.0	SPOON	SEELYVILLE	COAL	3.0	1300.0	

MAPID: 10100354000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 19 QUARTERS/FOOTAGES: NW SW NE

QUADRANGLE: BERRYVILLE LONGITUDE: -87.90036 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.594915 DATE COLLECTED:

SURFACE ELEVATION (FT.): 482.0 LOGGED (FT.): 1202.5 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	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	614.0	
-295.0	CARBONDALE	DANVILLE	COAL	2.0	777.0	
-328.0	CARBONDALE	HERRIN	COAL	-	810.0	
-443.0	CARBONDALE	SPRINGFIELD	COAL	3.5	925.0	
-527.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1009.0	
-661.0	CARBONDALE	COLCHESTER	COAL	-	1143.0	
-717.0	SPOON	SEELYVILLE	COAL	3.5	1199.0	

MAPID: 10103450000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 21 QUARTERS/FOOTAGES: SW SE SE

QUADRANGLE: LANCASTER LONGITUDE: -87.858353 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.585518 DATE COLLECTED:

SURFACE ELEVATION (FT.): 484.0 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	
-29.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	513.0	
-191.0	CARBONDALE	DANVILLE	COAL	3.5	675.0	
-215.0	CARBONDALE	HERRIN	COAL	-	699.0	
-328.0	CARBONDALE	SPRINGFIELD	COAL	3.5	812.0	
-410.0	CARBONDALE	HOUCHIN CREEK	COAL	-	894.0	
-534.0	CARBONDALE	COLCHESTER	COAL	-	1018.0	
-586.0	SPOON	SEELYVILLE	COAL	-	1070.0	

MAPID: 10100021000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 22 QUARTERS/FOOTAGES: NE SW NW
 QUADRANGLE: LANCASTER LONGITUDE: -87.851258 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.594634 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 483.0 LOGGED (FT.): 1056.0 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	
-38.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	521.0	
-207.0	CARBONDALE	DANVILLE	COAL	3.5	690.0	
-233.0	CARBONDALE	HERRIN	COAL	-	716.0	
-327.0	CARBONDALE	SPRINGFIELD	COAL	3.0	810.0	
-412.0	CARBONDALE	HOUCHIN CREEK	COAL	-	895.0	
-521.0	CARBONDALE	COLCHESTER	COAL	-	1004.0	
-573.0	SPOON	SEELYVILLE	COAL	-	1056.0	

MAPID: 10100357000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 23 QUARTERS/FOOTAGES: SE NE NE
 QUADRANGLE: LANCASTER LONGITUDE: -87.818397 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.596127 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 465.0 LOGGED (FT.): 1015.0 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	
-27.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	492.0	
-194.0	CARBONDALE	DANVILLE	COAL	3.0	659.0	
-225.0	CARBONDALE	HERRIN	COAL	3.0	690.0	
-305.0	CARBONDALE	SPRINGFIELD	COAL	3.0	770.0	
-386.0	CARBONDALE	HOUCHIN CREEK	COAL	-	851.0	
-492.0	CARBONDALE	COLCHESTER	COAL	-	957.0	
-550.0	SPOON	SEELYVILLE	COAL	-	1015.0	

MAPID: 10100361000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 2N 13W **SECTION:** 24 **QUARTERS/FOOTAGES:** SE SW SE
QUADRANGLE: LANCASTER **LONGITUDE:** -87.804648 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.584954 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 435.0 **LOGGED (FT.):** 977.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-42.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	477.0
-212.0	CARBONDALE	DANVILLE	COAL	3.0	647.0
-349.0	CARBONDALE	SPRINGFIELD	COAL	5.0	784.0
-445.0	CARBONDALE	HOUCHIN CREEK	COAL	-	880.0
-514.0	CARBONDALE	COLCHESTER	COAL	-	949.0
-539.0	SPOON	SEELYVILLE	COAL	3.0	974.0

MAPID: 10103451000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 2N 13W **SECTION:** 24 **QUARTERS/FOOTAGES:** NE SW NE
QUADRANGLE: LANCASTER **LONGITUDE:** -87.804455 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.594126 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 457.0 **LOGGED (FT.):** 971.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-204.0	CARBONDALE	DANVILLE	COAL	3.0	661.0
-232.0	CARBONDALE	HERRIN	COAL	3.0	689.0
-323.0	CARBONDALE	SPRINGFIELD	COAL	3.5	780.0
-418.0	CARBONDALE	HOUCHIN CREEK	COAL	-	875.0
-500.0	CARBONDALE	COLCHESTER	COAL	-	957.0
-510.0	SPOON	SEELYVILLE	COAL	4.0	967.0

MAPID: 10106208000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: LAWRENCE **TWP/RNG:** 2N 13W **SECTION:** 24 **QUARTERS/FOOTAGES:**
QUADRANGLE: LANCASTER **LONGITUDE:** -87.808006 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.591414 **DATE COLLECTED:** 6 / 24 / 1957
SURFACE ELEVATION (FT.): 449.0 **LOGGED (FT.):** 76.0 **LOG TYPE:** Drillers Log
SOURCE: HANNA COAL CO. 12 FR **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
381.2			COAL	1.2	67.8

MAPID: 10100359000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 25 QUARTERS/FOOTAGES: SE SW SW
 QUADRANGLE: LANCASTER LONGITUDE: -87.814297 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.57025 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 477.0 LOGGED (FT.): 1079.0 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
-49.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	526.0
-231.0	CARBONDALE	DANVILLE	COAL	3.0	708.0
-263.0	CARBONDALE	HERRIN	COAL	2.5	740.0
-367.0	CARBONDALE	SPRINGFIELD	COAL	4.0	844.0
-470.0	CARBONDALE	HOUCHIN CREEK	COAL	-	947.0
-538.0	CARBONDALE	COLCHESTER	COAL	-	1015.0
-600.0	SPOON	SEELYVILLE	COAL	2.0	1077.0

MAPID: 10100364000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 25 QUARTERS/FOOTAGES: SW SW NE
 QUADRANGLE: LANCASTER LONGITUDE: -87.807141 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.577582 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 464.0 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
-32.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	496.0
-207.0	CARBONDALE	DANVILLE	COAL	3.0	671.0
-234.0	CARBONDALE	HERRIN	COAL	-	698.0
-361.0	CARBONDALE	SPRINGFIELD	COAL	5.0	825.0
-445.0	CARBONDALE	HOUCHIN CREEK	COAL	-	909.0
-519.0	CARBONDALE	COLCHESTER	COAL	-	983.0
-563.0	SPOON	SEELYVILLE	COAL	-	1027.0

MAPID: 10100019000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 26 QUARTERS/FOOTAGES: NE SE NE

QUADRANGLE: LANCASTER LONGITUDE: -87.818759 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.579557 DATE COLLECTED:

SURFACE ELEVATION (FT.): 469.0 LOGGED (FT.): 1034.0 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
-26.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	495.0
-197.0	CARBONDALE	DANVILLE	COAL	3.0	666.0
-226.0	CARBONDALE	HERRIN	COAL	3.0	695.0
-330.0	CARBONDALE	SPRINGFIELD	COAL	2.5	799.0
-430.0	CARBONDALE	HOUCHIN CREEK	COAL	-	899.0
-523.0	CARBONDALE	COLCHESTER	COAL	-	992.0
-565.0	SPOON	SEELYVILLE	COAL	-	1034.0

MAPID: 10100362000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 26 QUARTERS/FOOTAGES: SW NE SW

QUADRANGLE: LANCASTER LONGITUDE: -87.830579 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.574117 DATE COLLECTED:

SURFACE ELEVATION (FT.): 505.0 LOGGED (FT.): 930.0 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
-33.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	538.0
-213.0	CARBONDALE	DANVILLE	COAL	2.5	718.0
-235.0	CARBONDALE	HERRIN	COAL	-	740.0
-336.0	CARBONDALE	SPRINGFIELD	COAL	3.0	841.0
-425.0	CARBONDALE	HOUCHIN CREEK	COAL	-	930.0

MAPID: 10100018000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 27 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE

QUADRANGLE: LANCASTER LONGITUDE: -87.837551 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.576059 DATE COLLECTED:

SURFACE ELEVATION (FT.): 524.0 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
-24.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	548.0
-202.0	CARBONDALE	DANVILLE	COAL	3.0	726.0
-226.0	CARBONDALE	HERRIN	COAL	2.5	750.0
-325.0	CARBONDALE	SPRINGFIELD	COAL	3.5	849.0
-421.0	CARBONDALE	HOUCHIN CREEK	COAL	-	945.0
-514.0	CARBONDALE	COLCHESTER	COAL	-	1038.0
-566.0	SPOON	SEELYVILLE	COAL	-	1090.0

MAPID: 10100365000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 27 QUARTERS/FOOTAGES: NE NW NE

QUADRANGLE: LANCASTER LONGITUDE: -87.842049 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.58351 DATE COLLECTED:

SURFACE ELEVATION (FT.): 522.0 LOGGED (FT.): 1091.0 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
-23.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	545.0
-190.0	CARBONDALE	DANVILLE	COAL	4.0	712.0
-214.0	CARBONDALE	HERRIN	COAL	3.0	736.0
-314.0	CARBONDALE	SPRINGFIELD	COAL	4.0	836.0
-413.0	CARBONDALE	HOUCHIN CREEK	COAL	-	935.0
-506.0	CARBONDALE	COLCHESTER	COAL	-	1028.0
-564.0	SPOON	SEELYVILLE	COAL	5.0	1086.0

MAPID: 10106529000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 27 QUARTERS/FOOTAGES: SE NE SW

QUADRANGLE: LANCASTER LONGITUDE: -87.846933 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.574338 DATE COLLECTED:

SURFACE ELEVATION (FT.): 509.0 LOGGED (FT.): 1078.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-20.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	529.0
-194.0	CARBONDALE	DANVILLE	COAL	2.5	703.0
-220.0	CARBONDALE	HERRIN	COAL	-	729.0
-319.0	CARBONDALE	SPRINGFIELD	COAL	3.0	828.0
-415.0	CARBONDALE	HOUCHIN CREEK	COAL	-	924.0
-513.0	CARBONDALE	COLCHESTER	COAL	-	1022.0
-569.0	SPOON	SEELYVILLE	COAL	-	1078.0

MAPID: 10100376000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 28 QUARTERS/FOOTAGES: 330' N line, 370' E line of SW NE

QUADRANGLE: LANCASTER LONGITUDE: -87.860938 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.580024 DATE COLLECTED:

SURFACE ELEVATION (FT.): 458.0 LOGGED (FT.): 1062.5 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
-45.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	503.0
-214.0	CARBONDALE	DANVILLE	COAL	3.0	672.0
-243.0	CARBONDALE	HERRIN	COAL	-	701.0
-335.0	CARBONDALE	SPRINGFIELD	COAL	3.5	793.0
-427.0	CARBONDALE	HOUCHIN CREEK	COAL	-	885.0
-544.0	CARBONDALE	COLCHESTER	COAL	-	1002.0
-602.0	SPOON	SEELYVILLE	COAL	2.5	1060.0

MAPID: 10103456000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 28 QUARTERS/FOOTAGES: SE SW SE
 QUADRANGLE: LANCASTER LONGITUDE: -87.861006 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.570805 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 471.0 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
-53.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	524.0
-235.0	CARBONDALE	DANVILLE	COAL	3.5	706.0
-264.0	CARBONDALE	HERRIN	COAL	3.0	735.0
-352.0	CARBONDALE	SPRINGFIELD	COAL	4.0	823.0
-447.0	CARBONDALE	HOUCHIN CREEK	COAL	-	918.0
-555.0	CARBONDALE	COLCHESTER	COAL	-	1026.0
-617.0	SPOON	SEELYVILLE	COAL	2.0	1088.0

MAPID: 10103457000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 28 QUARTERS/FOOTAGES: NE NE SW
 QUADRANGLE: LANCASTER LONGITUDE: -87.865553 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.576351 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 1068.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-62.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	502.0
-238.0	CARBONDALE	DANVILLE	COAL	2.0	678.0
-266.0	CARBONDALE	HERRIN	COAL	2.0	706.0
-354.0	CARBONDALE	SPRINGFIELD	COAL	3.0	794.0
-450.0	CARBONDALE	HOUCHIN CREEK	COAL	-	890.0
-626.0	SPOON	SEELYVILLE	COAL	2.0	1066.0

MAPID: 10100371000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 29 QUARTERS/FOOTAGES: SW SW NE
 QUADRANGLE: BERRYVILLE LONGITUDE: -87.881915 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.578282 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 1092.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-74.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	514.0
-241.0	CARBONDALE	DANVILLE	COAL	3.0	681.0
-266.0	CARBONDALE	HERRIN	COAL	-	706.0
-375.0	CARBONDALE	SPRINGFIELD	COAL	4.0	815.0
-470.0	CARBONDALE	HOUCHIN CREEK	COAL	-	910.0
-584.0	CARBONDALE	COLCHESTER	COAL	-	1024.0
-650.0	SPOON	SEELYVILLE	COAL	2.0	1090.0

MAPID: 10100766000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 29 QUARTERS/FOOTAGES: NW NE NE
 QUADRANGLE: BERRYVILLE LONGITUDE: -87.877146 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.583801 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 454.0 LOGGED (FT.): 1101.0 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
-71.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	525.0
-236.0	CARBONDALE	DANVILLE	COAL	3.0	690.0
-260.0	CARBONDALE	HERRIN	COAL	-	714.0
-361.0	CARBONDALE	SPRINGFIELD	COAL	2.5	815.0
-456.0	CARBONDALE	HOUCHIN CREEK	COAL	-	910.0
-580.0	CARBONDALE	COLCHESTER	COAL	-	1034.0
-643.0	SPOON	SEELYVILLE	COAL	4.0	1097.0

MAPID: 10100372000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 30 QUARTERS/FOOTAGES: 330' N line, 330' W line

QUADRANGLE: BERRYVILLE LONGITUDE: -87.908827 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.583675 DATE COLLECTED:

SURFACE ELEVATION (FT.): 469.0 LOGGED (FT.): 1177.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	600.0	
-305.0	CARBONDALE	DANVILLE	COAL	3.0	774.0	
-342.0	CARBONDALE	HERRIN	COAL	-	811.0	
-430.0	CARBONDALE	SPRINGFIELD	COAL	3.5	899.0	
-511.0	CARBONDALE	HOUCHIN CREEK	COAL	-	980.0	
-645.0	CARBONDALE	COLCHESTER	COAL	-	1114.0	
-704.0	SPOON	SEELYVILLE	COAL	4.0	1173.0	

MAPID: 10100373000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 2N 13W SECTION: 30 QUARTERS/FOOTAGES: NW NW NE

QUADRANGLE: BERRYVILLE LONGITUDE: -87.900508 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.583775 DATE COLLECTED:

SURFACE ELEVATION (FT.): 467.0 LOGGED (FT.): 1163.0 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	
-113.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	580.0	
-276.0	CARBONDALE	DANVILLE	COAL	3.5	743.0	
-308.0	CARBONDALE	HERRIN	COAL	3.0	775.0	
-417.0	CARBONDALE	SPRINGFIELD	COAL	4.5	884.0	
-504.0	CARBONDALE	HOUCHIN CREEK	COAL	-	971.0	
-625.0	CARBONDALE	COLCHESTER	COAL	-	1092.0	
-694.0	SPOON	SEELYVILLE	COAL	2.0	1161.0	

MAPID: 10100057000C VERSION: 1

PROJECT: NCRDS88

COUNTY: LAWRENCE TWP/RNG: 3N 10W SECTION: 3 QUARTERS/FOOTAGES: E2 NW

QUADRANGLE: VINCENNES LONGITUDE: -87.513089 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.729381 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 579.5 LOG TYPE: Drillers Log

SOURCE: MIAMI COAL CO. NO. 8 WELL TYPE: Coal Test

COMMENT: LOCATION UNSURE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	67.0	0.0	
-	BOND	MT. CARMEL	SANDSTONE	17.0	67.0	
-	BOND		BLACK SHALE	5.0	84.0	
-	BOND		BLUE SHALE	36.0	89.0	APPROXIMATE BASE OF BOND FM
-	MODESTO		BLACK SHALE	5.6	125.0	
-	MODESTO		COAL	0.4	130.6	WOMAC COAL?
-	MODESTO		UNDERCLAY	5.0	131.0	
-	MODESTO		SHALE	67.0	136.0	
-	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	203.0	
-	MODESTO		BLUE SHALE	57.0	208.0	
-	MODESTO	PIRTLE (IN)	COAL	2.0	265.0	UNCERTAIN CORRELATION
-	MODESTO		UNDERCLAY	1.0	267.0	
-	MODESTO		SHALE	55.8	268.0	
-	CARBONDALE	DANVILLE	COAL	3.5	323.8	
-	CARBONDALE		UNDERCLAY	2.8	327.3	
-	CARBONDALE		GRAY SHALE	10.0	330.0	
-	CARBONDALE		BLACK SHALE	4.0	340.0	
-	CARBONDALE	JAMESTOWN	COAL	3.5	344.0	
-	CARBONDALE		COAL WITH SHALE	2.0	347.5	
-	CARBONDALE	ANNA	SHALE	4.7	349.5	
-	CARBONDALE	HERRIN	COAL	2.5	354.2	
-	CARBONDALE		UNDERCLAY	0.7	356.7	
-	CARBONDALE		SHALE	62.7	357.3	
-	CARBONDALE		BLACK SHALE	2.0	420.0	
-	CARBONDALE	BRIAR HILL	COAL	1.0	422.0	
-	CARBONDALE		UNDERCLAY	1.0	423.0	
-	CARBONDALE		BLUE SHALE	6.0	424.0	
-	CARBONDALE	ST. DAVID	LIMESTONE	2.5	430.0	
-	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	432.5	
-	CARBONDALE	SPRINGFIELD	COAL	4.6	434.5	
-	CARBONDALE		UNDERCLAY	0.9	439.1	
-	CARBONDALE		SHALE	108.0	440.0	
-	CARBONDALE		BLACK SHALE	0.8	548.0	
-	CARBONDALE		UNCLASSIFIED	1.7	548.8	BLACK ROCK
-	CARBONDALE	EXCELLO	BLACK SHALE	2.2	550.5	
-	CARBONDALE	HOUCHIN CREEK	COAL	0.5	552.7	
-	CARBONDALE		UNDERCLAY	0.8	553.2	
-	CARBONDALE		UNCLASSIFIED	20.3	554.0	BROWN ROCK
-	CARBONDALE	SURVANT	COAL	4.1	574.3	

- CARBONDALE

GRAY SHALE

1.1 578.4

MAPID: 10106773000C VERSION: 1

PROJECT: NCRDS88

COUNTY: LAWRENCE TWP/RNG: 3N 10W SECTION: 3 QUARTERS/FOOTAGES: 150' N line, 450' W line of NE

QUADRANGLE: VINCENNES LONGITUDE: -87.509144 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.732776 DATE COLLECTED: 8 / 27 / 1921

SURFACE ELEVATION (FT.): 414.0 LOGGED (FT.): 592.0 LOG TYPE: Drillers Log

SOURCE: MIAMI COAL CO. NO. 21 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
414.0			UNCONSOLIDATED	25.0	0.0	
389.0	BOND		SANDSTONE	30.0	25.0	
359.0	BOND		BLACK SHALE	2.0	55.0	
357.0	BOND		CLAYSTONE	1.0	57.0	
356.0	BOND		BLUE SHALE	4.0	58.0	
352.0	BOND	MT. CARMEL	SANDSTONE	42.0	62.0	APPROXIMATE BASE OF BOND FM.
310.0	MODESTO		BLUE SHALE	28.0	104.0	
282.0	MODESTO		COAL	2.0	132.0	WOMAC?
280.0	MODESTO		UNDERCLAY	1.5	134.0	
278.5	MODESTO		BLUE SHALE	10.5	135.5	
268.0	MODESTO	TRIVOLI	SANDSTONE	48.0	146.0	
220.0	MODESTO		SHALE	1.0	194.0	
219.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	195.0	
215.0	MODESTO	WEST FRANKLIN	SHALE	8.0	199.0	
207.0	MODESTO		LIMESTONE	7.0	207.0	
200.0	MODESTO		SHALE	22.0	214.0	
178.0	MODESTO		SANDSTONE	16.0	236.0	
162.0	MODESTO		BLUE SHALE	11.5	252.0	
150.5	MODESTO	PIRTLE (IN)	COAL	0.8	263.5	
149.7	MODESTO		UNDERCLAY	0.7	264.3	
149.0	MODESTO	BUSSERON (IN)	SANDSTONE	67.0	265.0	
82.0	CARBONDALE	DANVILLE	COAL	4.0	332.0	
78.0	CARBONDALE		UNDERCLAY	14.0	336.0	
64.0	CARBONDALE		GRAY SHALE	4.0	350.0	
60.0	CARBONDALE	JAMESTOWN	COAL	5.0	354.0	
55.0	CARBONDALE		SHALE	1.0	359.0	
54.0	CARBONDALE	HERRIN	COAL	1.2	360.0	
52.8	CARBONDALE		UNDERCLAY	1.8	361.2	
51.0	CARBONDALE		SHALE	13.0	363.0	
38.0	CARBONDALE		LIMESTONE	2.0	376.0	
36.0	CARBONDALE		SHALE	9.0	378.0	
27.0	CARBONDALE		SANDSTONE	10.0	387.0	
17.0	CARBONDALE		BLUE SHALE	24.3	397.0	
-7.3	CARBONDALE		BLACK SHALE	0.7	421.3	
-8.0	CARBONDALE	BRIAR HILL	COAL	1.3	422.0	
-9.3	CARBONDALE		UNDERCLAY	0.7	423.3	
-10.0	CARBONDALE		BLUE SHALE	6.0	424.0	
-16.0	CARBONDALE	TURNER MINE	BLACK SHALE	4.0	430.0	
-20.0	CARBONDALE	SPRINGFIELD	COAL	3.2	434.0	

-23.2	CARBONDALE		UNDERCLAY	2.8	437.2	
-26.0	CARBONDALE		LIMESTONE	2.0	440.0	
-28.0	CARBONDALE		BLUE SHALE	12.0	442.0	
-40.0	CARBONDALE		SANDSTONE	104.0	454.0	
-144.0	CARBONDALE		BLACK SHALE	2.0	558.0	
-146.0	CARBONDALE		UNCLASSIFIED	2.0	560.0	BLACK ROCK
-148.0	CARBONDALE	EXCELLO	BLACK SHALE	1.0	562.0	
-149.0	CARBONDALE	HOUCHIN CREEK	COAL	1.5	563.0	
-150.5	CARBONDALE		UNDERCLAY	0.5	564.5	
-151.0	CARBONDALE		SANDSTONE	17.0	565.0	
-168.0	CARBONDALE		BROWN SHALE	4.4	582.0	
-172.4	CARBONDALE	SURVANT	COAL	5.3	586.4	
-177.7	CARBONDALE		GRAY SHALE	0.3	591.7	

MAPID: 10106781000C VERSION: 1

PROJECT: NCRDS88

COUNTY: LAWRENCE TWP/RNG: 3N 10W SECTION: 3 QUARTERS/FOOTAGES: NW NW SW

QUADRANGLE: VINCENNES LONGITUDE: -87.518862 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.724619 DATE COLLECTED: 0 / 0 / 1922

SURFACE ELEVATION (FT.): 414.0 LOGGED (FT.): 558.0 LOG TYPE: Drillers Log

SOURCE: MIAMI COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
414.0			UNCONSOLIDATED	42.0	0.0	
372.0	BOND	MT. CARMEL	SANDSTONE	29.0	42.0	
343.0	BOND		BLUE SHALE	77.0	71.0	
266.0	BOND	CARTHAGE	LIMESTONE	4.0	148.0	
262.0	MODESTO		SHALE	6.0	152.0	
256.0	MODESTO		SHALE/COAL	35.0	158.0	LIME ROCK AND COAL
221.0	MODESTO		UNDERCLAY	4.0	193.0	
217.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	197.0	
209.0	MODESTO		SHALE	47.0	205.0	
162.0	MODESTO		SANDSTONE	3.0	252.0	
159.0	MODESTO		SHALE	60.0	255.0	
99.0	MODESTO	BUSSERON (IN)	SANDSTONE	9.0	315.0	
90.0	MODESTO		BLUE SHALE	6.7	324.0	
83.3	CARBONDALE	DANVILLE	COAL	3.0	330.7	
80.3	CARBONDALE		UNDERCLAY	5.3	333.7	
75.0	CARBONDALE		BLUE SHALE	14.0	339.0	
61.0	CARBONDALE		BLACK SHALE	2.0	353.0	
59.0	CARBONDALE	JAMESTOWN	COAL	5.5	355.0	
53.5	CARBONDALE	ANNA	BLACK SHALE	0.5	360.5	
53.0	CARBONDALE	HERRIN	COAL	1.5	361.0	
51.6	CARBONDALE		UNDERCLAY	1.1	362.4	
50.5	CARBONDALE		SHALE	56.5	363.5	
-6.0	CARBONDALE		BLACK SHALE	2.0	420.0	
-8.0	CARBONDALE	BRIAR HILL	COAL	1.0	422.0	
-9.0	CARBONDALE		UNDERCLAY	5.0	423.0	
-14.0	CARBONDALE	ST. DAVID	LIMESTONE	2.0	428.0	
-16.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	430.0	
-17.5	CARBONDALE		BLUE SHALE	5.8	431.5	
-23.3	CARBONDALE	SPRINGFIELD	COAL	4.6	437.3	
-27.9	CARBONDALE		UNDERCLAY	0.1	441.9	
-28.0	CARBONDALE		LIMESTONE	4.0	442.0	
-32.0	CARBONDALE		SHALE	84.4	446.0	
-116.4	CARBONDALE		BLACK SHALE	1.0	530.4	
-117.4	CARBONDALE		UNCLASSIFIED	2.6	531.4	BLACK ROCK
-120.0	CARBONDALE	EXCELLO	BLACK SHALE	1.5	534.0	
-121.5	CARBONDALE	HOUCHIN CREEK	COAL	1.8	535.5	
-123.3	CARBONDALE		UNDERCLAY	1.7	537.3	
-125.0	CARBONDALE		UNCLASSIFIED	13.5	539.0	BROWN ROCK
-138.5	CARBONDALE	SURVANT	COAL	4.6	552.5	

MAPID: 10106774000C VERSION: 1

PROJECT: NCRDS88

COUNTY: LAWRENCE TWP/RNG: 3N 10W SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: VINCENNES LONGITUDE: -87.52916 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.710435 DATE COLLECTED: 0 / 0 / 1922

SURFACE ELEVATION (FT.): LOGGED (FT.): 611.0 LOG TYPE: Drillers Log

SOURCE: MIAMI COAL CO. NO. 25 WELL TYPE: Coal Test

COMMENT: EXACT LOCATION UNKNOWN

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	78.0	0.0	
-	BOND	MT. CARMEL	SANDSTONE	11.0	78.0	
-	MODESTO		BLACK SHALE	3.0	89.0	
-	MODESTO		SHALE	48.5	92.0	
-	MODESTO		BLACK SHALE	1.5	140.5	
-	MODESTO		COAL	0.7	142.0	
-	MODESTO		UNDERCLAY	4.3	142.7	
-	MODESTO	TRIVOLI	SANDSTONE	69.5	147.0	
-	MODESTO	TRIVOLI	SHALE	4.0	216.5	
-	MODESTO	TRIVOLI	SANDSTONE	1.0	220.5	
-	MODESTO		SHALE	3.0	221.5	
-	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	224.5	
-	MODESTO		SHALE	12.5	227.5	
-	MODESTO		SANDSTONE	4.0	240.0	
-	MODESTO		SHALE	16.0	244.0	
-	MODESTO		SANDSTONE	25.0	260.0	
-	MODESTO		GRAY SHALE	22.0	285.0	
-	MODESTO	BUSSERON (IN)	SANDSTONE	15.0	307.0	
-	MODESTO	BUSSERON (IN)	SANDY SHALE	27.0	322.0	
-	CARBONDALE	DANVILLE	COAL	1.0	349.0	
-	CARBONDALE	DANVILLE	SHALE	0.5	350.0	"DIRTY BAND"
-	CARBONDALE	DANVILLE	COAL	1.5	350.5	
-	CARBONDALE		UNDERCLAY	4.5	352.0	
-	CARBONDALE		SHALE	10.5	356.5	
-	CARBONDALE		SANDSTONE	3.0	367.0	
-	CARBONDALE		BLUE SHALE	5.0	370.0	
-	CARBONDALE	JAMESTOWN	COAL	3.8	375.0	
-	CARBONDALE	JAMESTOWN	SHALE	0.1	378.8	
-	CARBONDALE	JAMESTOWN	COAL	0.2	378.8	
-	CARBONDALE		GRAY SHALE	1.0	379.0	
-	CARBONDALE		SANDSTONE	2.0	380.0	
-	CARBONDALE	HERRIN	COAL	3.0	382.0	
-	CARBONDALE		UNDERCLAY	4.0	385.0	
-	CARBONDALE		SANDSTONE	33.0	389.0	
-	CARBONDALE		SHALE	15.0	422.0	
-	CARBONDALE		BLACK SHALE	7.7	437.0	
-	CARBONDALE	BRIAR HILL	COAL	1.0	444.7	
-	CARBONDALE		SHALE	10.3	445.7	
-	CARBONDALE		LIMESTONE	2.5	456.0	

-	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	458.5
-	CARBONDALE	SPRINGFIELD	COAL	0.5	461.0
-	CARBONDALE	SPRINGFIELD	GRAY SHALE	1.0	461.5
-	CARBONDALE	SPRINGFIELD	COAL	1.5	462.5
-	CARBONDALE		SHALE	102.0	464.0
-	CARBONDALE	EXCELLO	BLACK SHALE	2.0	566.0
-	CARBONDALE	HOUCHIN CREEK	COAL	1.0	568.0
-	CARBONDALE		BLUE SHALE	5.0	569.0
-	CARBONDALE		UNCLASSIFIED	0.5	574.0
-	CARBONDALE		SANDSTONE	31.0	574.5
-	CARBONDALE	SURVANT	COAL	3.5	605.5
-	CARBONDALE		GRAY SHALE	2.0	609.0

MAPID: 10106778000C VERSION: 1

PROJECT: NCRDS88

COUNTY: LAWRENCE TWP/RNG: 3N 10W SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: VINCENNES LONGITUDE: -87.52916 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.710435 DATE COLLECTED: 7 / 21 / 1922

SURFACE ELEVATION (FT.): LOGGED (FT.): 617.0 LOG TYPE: Drillers Log

SOURCE: MIAMI COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			UNCONSOLIDATED	20.0	0.0
-	BOND	MT. CARMEL	SANDSTONE	125.0	20.0
-	MODESTO		BLUE SHALE	23.0	145.0
-	MODESTO		BLACK SHALE	2.0	168.0
-	MODESTO		COAL	0.5	170.0
-	MODESTO		BLUE SHALE	57.5	170.5
-	MODESTO	TRIVOLI	SANDSTONE	14.0	228.0
-	MODESTO		SHALE	4.0	242.0
-	MODESTO		UNCLASSIFIED	6.5	246.0
-	MODESTO		BLUE SHALE	2.5	252.5
-	MODESTO		UNCLASSIFIED	2.0	255.0
-	MODESTO		BLUE SHALE	3.0	257.0
-	MODESTO		UNCLASSIFIED	23.0	260.0
-	MODESTO		SHALE	101.0	283.0
-	CARBONDALE	DANVILLE	COAL	5.0	384.0
-	CARBONDALE		UNDERCLAY	3.0	389.0
-	CARBONDALE		BLUE SHALE	4.0	392.0
-	CARBONDALE	JAMESTOWN	COAL WITH SHALE	1.0	396.0
-	CARBONDALE		BLUE SHALE	2.0	397.0
-	CARBONDALE	HERRIN	COAL	2.5	399.0
-	CARBONDALE		SHALE	12.5	401.5
-	CARBONDALE		LIMESTONE	8.0	414.0
-	CARBONDALE		SHALE	37.0	422.0
-	CARBONDALE		BLACK SHALE	2.0	459.0
-	CARBONDALE	BRIAR HILL	COAL	1.0	461.0
-	CARBONDALE		UNDERCLAY	0.5	462.0
-	CARBONDALE		BLUE SHALE	8.5	462.5
-	CARBONDALE		BLACK SHALE	3.5	471.0
-	CARBONDALE	SPRINGFIELD	COAL	1.5	474.5
-	CARBONDALE		UNDERCLAY	3.0	476.0
-	CARBONDALE		SANDSTONE	4.0	479.0
-	CARBONDALE		SHALE	108.0	483.0
-	CARBONDALE		BLACK SHALE	2.0	591.0
-	CARBONDALE		UNCLASSIFIED	1.0	593.0
-	CARBONDALE	EXCELLO	BLACK SHALE	3.0	594.0
-	CARBONDALE	HOUCHIN CREEK	COAL	1.5	597.0
-	CARBONDALE		LIMESTONE	5.5	598.5
-	CARBONDALE		SANDSTONE	9.0	604.0
-	CARBONDALE	SURVANT	COAL	2.2	613.0

- CARBONDALE

GRAY SHALE

1.8 615.2

MAPID: 10106775000C VERSION: 1

PROJECT: NCRDS88

COUNTY: LAWRENCE TWP/RNG: 3N 10W SECTION: 10 QUARTERS/FOOTAGES: NW NW NW

QUADRANGLE: VINCENNES LONGITUDE: -87.518868 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.716923 DATE COLLECTED: 6 / 19 / 1922

SURFACE ELEVATION (FT.): 415.0 LOGGED (FT.): 660.0 LOG TYPE: Drillers Log

SOURCE: MIAMI COAL CO. NO. 23 WELL TYPE: Coal Test

COMMENT: WEST OF WABASH RIVER

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
415.0			UNCONSOLIDATED	11.0	0.0	
404.0	BOND		BLUE SHALE	53.0	11.0	
351.0	BOND	MT. CARMEL	SANDSTONE	69.0	64.0	
282.0	MODESTO		SHALE	2.0	133.0	
280.0	MODESTO		COAL	0.5	135.0	
279.5	MODESTO		SHALE	48.5	135.5	
231.0	MODESTO		COAL	1.0	184.0	
230.0	MODESTO		UNDERCLAY	2.0	185.0	
228.0	MODESTO		SHALE	81.0	187.0	
147.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	268.0	
140.0	MODESTO	WEST FRANKLIN	SHALE	11.0	275.0	
129.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	286.0	
121.0	MODESTO		SHALE	74.0	294.0	
47.0	MODESTO		LIMESTONE	5.0	368.0	
42.0	MODESTO		BLUE SHALE	12.0	373.0	
30.0	CARBONDALE	DANVILLE	COAL	3.0	385.0	CORRELATION UNCERTAIN
27.0	CARBONDALE		UNDERCLAY	3.0	388.0	
24.0	CARBONDALE		BROWN SHALE	13.0	391.0	
11.0	CARBONDALE		LIMESTONE	9.0	404.0	
2.0	CARBONDALE		BROWN SHALE	4.0	413.0	
-2.0	CARBONDALE	HERRIN	COAL WITH SHALE	2.0	417.0	CORRELATION UNCERTAIN
-4.0	CARBONDALE		UNDERCLAY	4.0	419.0	
-8.0	CARBONDALE		LIMESTONE	2.0	423.0	
-10.0	CARBONDALE		SHALE	52.0	425.0	
-62.0	CARBONDALE		BLACK SHALE	1.5	477.0	
-63.5	CARBONDALE	BRIAR HILL	COAL	0.7	478.5	CORRELATION UNCERTAIN
-64.2	CARBONDALE		UNDERCLAY	0.8	479.2	
-65.0	CARBONDALE		LIMESTONE	1.0	480.0	
-66.0	CARBONDALE		BROWN SHALE	10.0	481.0	
-76.0	CARBONDALE	SPRINGFIELD	COAL	2.0	491.0	UNCERTAIN CORRELATION
-78.0	CARBONDALE		UNDERCLAY	3.0	493.0	
-81.0	CARBONDALE		LIMESTONE	22.0	496.0	
-103.0	CARBONDALE		BLUE SHALE	72.0	518.0	
-175.0	CARBONDALE	EXCELLO	BLACK SHALE	1.3	590.0	
-176.3	CARBONDALE	HOUCHIN CREEK	COAL	1.7	591.3	CORRELATION UNCERTAIN
-178.0	CARBONDALE		UNDERCLAY	1.0	593.0	
-179.0	CARBONDALE		SANDSTONE	58.0	594.0	
-237.0	CARBONDALE	SURVANT	COAL & ROCK	3.0	652.0	3' INTERVAL OF COAL AND ROCK
-240.0	CARBONDALE		BROWN SHALE	5.0	655.0	

MAPID: 10100601000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 3N 10W **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' N line, 860' E line of SE
QUADRANGLE: VINCENNES **LONGITUDE:** -87.55912 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.694408 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 416.0 **LOGGED (FT.):** 719.0 **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
12.0	CARBONDALE	DANVILLE	COAL	-	404.0
-11.0	CARBONDALE	JAMESTOWN	COAL	5.0	427.0
-93.0	CARBONDALE	SPRINGFIELD	COAL	-	509.0
-210.0	CARBONDALE	HOUCHIN CREEK	COAL	-	626.0
-303.0	CARBONDALE	COLCHESTER	COAL	-	719.0

MAPID: 10130647000C **VERSION:** 1 **PROJECT:** VINCENNES
COUNTY: LAWRENCE **TWP/RNG:** 3N 10W **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW
QUADRANGLE: VINCENNES **LONGITUDE:** -87.57364 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.696246 **DATE COLLECTED:** 6 / 22 / 1994
SURFACE ELEVATION (FT.): 414.0 **LOGGED (FT.):** 2570.0 **LOG TYPE:** Nuclear Log
SOURCE: PESSINA MAHRENHOLZ 1 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
28.0	CARBONDALE	DANVILLE	COAL	4.0	386.0
4.0	CARBONDALE	JAMESTOWN	COAL	4.5	410.0
-0.5	CARBONDALE	ANNA	BLACK SHALE	2.5	414.5
-3.0	CARBONDALE	HERRIN	COAL	1.0	417.0
-56.0	CARBONDALE	BRIAR HILL	COAL	2.0	470.0
-74.5	CARBONDALE	SPRINGFIELD	COAL	2.5	488.5
-180.5	CARBONDALE	HOUCHIN CREEK	COAL	1.0	594.5
-227.5	CARBONDALE	SURVANT	COAL	3.0	641.5
-285.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	9.0	699.0

MAPID: 10130648000C VERSION: 1

PROJECT: VINCENNES

COUNTY: LAWRENCE TWP/RNG: 3N 10W SECTION: 18 QUARTERS/FOOTAGES: 330' S line, 330' W line of SW

QUADRANGLE: VINCENNES LONGITUDE: -87.573763 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.688588 DATE COLLECTED: 6 / 15 / 1994

SURFACE ELEVATION (FT.): 413.0 LOGGED (FT.): 2750.0 LOG TYPE: Nuclear Log

SOURCE: PESSINA PRINCETON MINING 1 WELL TYPE: Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
51.0	CARBONDALE	DANVILLE	COAL	2.0	362.0	TOP ERODED BY SANDSTONE
28.0	CARBONDALE	JAMESTOWN	COAL	5.0	385.0	
-37.0	CARBONDALE	BRIAR HILL	COAL	1.5	450.0	
-49.0	CARBONDALE	SPRINGFIELD	COAL	3.5	462.0	
-154.0	CARBONDALE	HOUCHIN CREEK	COAL	-	567.0	COAL THIN OR MISSING
-201.0	CARBONDALE	SURVANT	COAL	4.7	614.0	
-235.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	12.0	648.0	
-384.0			COAL	1.7	797.0	

MAPID: 10100600000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 10W SECTION: 19 QUARTERS/FOOTAGES: 3963' N line, 2320' E line

QUADRANGLE: VINCENNES LONGITUDE: -87.563547 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.676853 DATE COLLECTED:

SURFACE ELEVATION (FT.): 415.0 LOGGED (FT.): 711.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
38.0	CARBONDALE	DANVILLE	COAL	4.5	377.0	
19.0	CARBONDALE	JAMESTOWN	COAL	-	396.0	
-58.0	CARBONDALE	SPRINGFIELD	COAL	4.0	473.0	
-160.0	CARBONDALE	HOUCHIN CREEK	COAL	-	575.0	
-265.0	CARBONDALE	COLCHESTER	COAL	-	680.0	
-290.0	SPOON	SEELYVILLE	COAL	6.5	705.0	

MAPID: 10103463000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 3N 10W **SECTION:** 19 **QUARTERS/FOOTAGES:** 3110' N line, 1351' E line
QUADRANGLE: VINCENNES **LONGITUDE:** -87.56028 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.679243 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 417.0 **LOGGED (FT.):** 706.0 **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	CARBONDALE	DANVILLE	COAL	4.5	370.0
29.0	CARBONDALE	JAMESTOWN	COAL	4.0	388.0
-47.0	CARBONDALE	SPRINGFIELD	COAL	4.5	464.0
-153.0	CARBONDALE	HOUCHIN CREEK	COAL	-	570.0
-257.0	CARBONDALE	COLCHESTER	COAL	-	674.0
-283.0	SPOON	SEELYVILLE	COAL	6.0	700.0

MAPID: 10129739000C **VERSION:** 1 **PROJECT:** VINCENNES
COUNTY: LAWRENCE **TWP/RNG:** 3N 10W **SECTION:** 19 **QUARTERS/FOOTAGES:** 3630' N line, 2601' E line
QUADRANGLE: VINCENNES **LONGITUDE:** -87.564587 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.677763 **DATE COLLECTED:** 9 / 20 / 1987
SURFACE ELEVATION (FT.): 417.0 **LOGGED (FT.):** 1930.0 **LOG TYPE:** Nuclear Log
SOURCE: NEVCO SYSTEMS MAHRENHOLZ 3 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-397.0			COAL	2.0	814.0
-445.0			COAL	2.0	862.0
-465.0			COAL	4.0	882.0

MAPID: 10129740000C **VERSION:** 1 **PROJECT:** VINCENNES
COUNTY: LAWRENCE **TWP/RNG:** 3N 10W **SECTION:** 19 **QUARTERS/FOOTAGES:** 2970' N line, 2601' E line
QUADRANGLE: VINCENNES **LONGITUDE:** -87.564696 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.679582 **DATE COLLECTED:** 8 / 22 / 1988
SURFACE ELEVATION (FT.): 411.0 **LOGGED (FT.):** 1930.0 **LOG TYPE:** Nuclear Log
SOURCE: NEVCO SYSTEMS MAHRENHOLZ 1 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-404.0			COAL	2.0	815.0
-444.5			COAL	2.0	855.5
-467.5			COAL	3.5	878.5

MAPID: 10129741000C VERSION: 1

PROJECT: VINCENNES

COUNTY: LAWRENCE TWP/RNG: 3N 10W SECTION: 19 QUARTERS/FOOTAGES: 2310' N line, 2011' E line

QUADRANGLE: VINCENNES LONGITUDE: -87.562729 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.681424 DATE COLLECTED: 2 / 12 / 1988

SURFACE ELEVATION (FT.): 418.0 LOGGED (FT.): 708.0 LOG TYPE: Nuclear Log

SOURCE: NEVCO SYSTEMS (MAHRENHOLZ) 5 WELL TYPE: Dry Hole

COMMENT: GAMMA & INDUCTION LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
54.5	CARBONDALE	DANVILLE	COAL	2.0	363.5	TOP ERODED
36.5	CARBONDALE	JAMESTOWN	UNKNOWN	4.5	381.5	MEASURED FROM INDUCTION LOG
32.0	CARBONDALE	ANNA	BLACK SHALE	2.0	386.0	MEASURED FROM INDUCTION LOG
30.0	CARBONDALE	HERRIN	COAL	2.0	388.0	MEASURED FROM INDUCTION LOG
-44.0	CARBONDALE	SPRINGFIELD	COAL	3.5	462.0	MEASURED FROM GAMMA LOG
-146.0	CARBONDALE	EXCELLO	BLACK SHALE	5.5	564.0	MEASURED FROM GAMMA LOG
-201.0	CARBONDALE	SURVANT	COAL	4.0	619.0	MEASURED FROM GAMMA LOG
-238.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	17.0	656.0	MEASURED FROM GAMMA LOG
-282.0	SPOON	SEELYVILLE	COAL	2.0	700.0	MEASURED FROM GAMMA LOG
-284.0	SPOON	SEELYVILLE	COAL	4.0	702.0	MEASURED FROM GAMMA LOG
-288.0	SPOON	SEELYVILLE	COAL	2.0	706.0	MEASURED FROM GAMMA LOG

MAPID: 10129741000C VERSION: 2

PROJECT: VINCENNES

COUNTY: LAWRENCE TWP/RNG: 3N 10W SECTION: 19 QUARTERS/FOOTAGES: 2310' N line, 2011' E line

QUADRANGLE: VINCENNES LONGITUDE: -87.562729 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.681424 DATE COLLECTED: 2 / 12 / 1988

SURFACE ELEVATION (FT.): 418.0 LOGGED (FT.): 708.0 LOG TYPE: Nuclear Log

SOURCE: NEVCO SYSTEMS WELL TYPE: Dry Hole

COMMENT: GAMMA & INDUCTION LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
54.5	CARBONDALE	DANVILLE	COAL	2.0	363.5	TOP ERODED
36.5	CARBONDALE	JAMESTOWN	UNCLASSIFIED	4.5	381.5	MEASURED FROM INDUCTION LOG
32.0	CARBONDALE	ANNA	BLACK SHALE	2.0	386.0	MEASURED FROM INDUCTION LOG
30.0	CARBONDALE	HERRIN	COAL	2.0	388.0	MEASURED FROM INDUCTION LOG
-44.0	CARBONDALE	SPRINGFIELD	COAL	3.5	462.0	MEASURED FROM GAMMA LOG
-146.0	CARBONDALE	EXCELLO	BLACK SHALE	5.5	564.0	MEASURED FROM GAMMA LOG
-201.0	CARBONDALE	SURVANT	COAL	4.0	619.0	MEASURED FROM GAMMA LOG
-238.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	17.0	656.0	MEASURED FROM GAMMA LOG
-282.0	SPOON	SEELYVILLE	COAL	2.0	700.0	MEASURED FROM GAMMA LOG
-284.0	SPOON	SEELYVILLE	SHALE	4.0	702.0	MEASURED FROM GAMMA LOG
-288.0	SPOON	SEELYVILLE	COAL	2.0	706.0	MEASURED FROM GAMMA LOG

MAPID: 10102414000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 10W SECTION: 20 QUARTERS/FOOTAGES: 3612' N line, 400' W line

QUADRANGLE: VINCENNES LONGITUDE: -87.554039 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.677898 DATE COLLECTED:

SURFACE ELEVATION (FT.): 414.0 LOGGED (FT.): 694.5 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
46.0	CARBONDALE	DANVILLE	COAL	4.0	368.0
-40.0	CARBONDALE	SPRINGFIELD	COAL	4.0	454.0
-146.0	CARBONDALE	HOUCHIN CREEK	COAL	-	560.0
-239.0	CARBONDALE	COLCHESTER	COAL	-	653.0
-274.0	SPOON	SEELYVILLE	COAL	6.5	688.0

MAPID: 10100584000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 1 QUARTERS/FOOTAGES: NE NE NW

QUADRANGLE: VINCENNES LONGITUDE: -87.585938 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.731741 DATE COLLECTED:

SURFACE ELEVATION (FT.): 424.0 LOGGED (FT.): 620.0 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
201.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	223.0
93.0	CARBONDALE	DANVILLE	COAL	4.0	331.0
63.0	CARBONDALE	JAMESTOWN	COAL	-	361.0
-11.0	CARBONDALE	SPRINGFIELD	COAL	3.0	435.0
-130.0	CARBONDALE	HOUCHIN CREEK	COAL	-	554.0
-196.0	CARBONDALE	COLCHESTER	COAL	-	620.0

MAPID: 10100585000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 1 QUARTERS/FOOTAGES: SE SE SW

QUADRANGLE: VINCENNES LONGITUDE: -87.585875 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.71851 DATE COLLECTED:

SURFACE ELEVATION (FT.): 420.0 LOGGED (FT.): 592.0 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
176.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	244.0
54.0	CARBONDALE	DANVILLE	COAL	5.0	366.0
28.0	CARBONDALE	JAMESTOWN	COAL	4.5	392.0
-50.0	CARBONDALE	SPRINGFIELD	COAL	3.0	470.0
-172.0	CARBONDALE	HOUCHIN CREEK	COAL	-	592.0

MAPID: 10100586000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 2 QUARTERS/FOOTAGES: NW NW NW

QUADRANGLE: VINCENNES LONGITUDE: -87.611668 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.731685 DATE COLLECTED:

SURFACE ELEVATION (FT.): 418.0 LOGGED (FT.): 574.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	243.0
56.0	CARBONDALE	DANVILLE	COAL	5.0	362.0
29.0	CARBONDALE	JAMESTOWN	COAL	6.0	389.0
-48.0	CARBONDALE	SPRINGFIELD	COAL	3.5	466.0
-156.0	CARBONDALE	HOUCHIN CREEK	COAL	-	574.0

MAPID: 10100062000C VERSION: 1

PROJECT: NCRDS88

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: LAWRENCEVILLE

LONGITUDE: -87.676961

GEOLOGIST: R. SMITH

CONFIDENTIAL: N

LATITUDE: 38.725172

DATE COLLECTED:

SURFACE ELEVATION (FT.): 420.0

LOGGED (FT.): 591.0

LOG TYPE: Drillers Log

SOURCE: "COAL BORING"

WELL TYPE: Coal Test

COMMENT: APPROXIMATE SECTION & ELEVATION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
420.0			UNCONSOLIDATED	39.5	0.0
380.5	BOND		SANDSTONE	9.5	39.5
371.0	BOND		GRAY SHALE	3.0	49.0
368.0	BOND		SANDSTONE	3.5	52.0
364.5	BOND		SANDY SHALE	5.0	55.5
359.5	BOND		SANDSTONE	0.7	60.5
358.8	BOND		SANDY SHALE	9.8	61.2
349.0	BOND		SANDSTONE	17.0	71.0
332.0	BOND		SANDY SHALE	31.5	88.0
300.5	BOND		CALCAREOUS SHALE	0.5	119.5
300.0	BOND		COAL	0.3	120.0
299.7	BOND		SANDSTONE/SHALE	2.7	120.3
297.0	BOND		BROWN SHALE	1.0	123.0
296.0	BOND	MT. CARMEL	SANDSTONE	17.5	124.0
278.5	MODESTO		BLUE SHALE	0.5	141.5
278.0	MODESTO		BLACK SHALE	1.7	142.0
276.3	MODESTO		COAL	0.4	143.7
275.9	MODESTO		UNDERCLAY	0.9	144.1
275.0	MODESTO		CLAYSTONE & SHALE	13.0	145.0
262.0	MODESTO		SANDY SHALE	4.0	158.0
258.0	MODESTO		SANDSTONE/SHALE	43.0	162.0
215.0	MODESTO	TRIVOLI	SANDSTONE	22.0	205.0
193.0	MODESTO	TRIVOLI	SANDSTONE/COAL	2.5	227.0
190.5	MODESTO	TRIVOLI	CLAYSTONE & SHALE	2.5	229.5
188.0	MODESTO	TRIVOLI	SANDSTONE	7.0	232.0
181.0	MODESTO		SANDY SHALE	6.0	239.0
175.0	MODESTO	WEST FRANKLIN	LIMESTONE	1.5	245.0
173.5	MODESTO	WEST FRANKLIN	SANDY SHALE	1.5	246.5
172.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	248.0
166.0	MODESTO		CLAYSTONE & SHALE	11.0	254.0
155.0	MODESTO		SANDY SHALE	2.0	265.0
153.0	MODESTO		SANDSTONE	3.0	267.0
150.0			SANDY SHALE	26.0	270.0
124.0			SHALE	13.6	296.0
110.4	MODESTO	PIRTLE (IN)	COAL	0.4	309.6
110.0	MODESTO		GRAY SHALE	4.0	310.0
106.0	MODESTO		SANDY SHALE	7.0	314.0
99.0	MODESTO	BUSSERON (IN)	SANDSTONE	20.0	321.0
79.0	MODESTO		GRAY SHALE	32.7	341.0

46.3	CARBONDALE	DANVILLE	COAL	3.0	373.7
43.3	CARBONDALE		UNDERCLAY	6.3	376.7
37.0	CARBONDALE		LIMESTONE W/ SHALE	2.0	383.0
35.0	CARBONDALE		GRAY SHALE	9.0	385.0
26.0	CARBONDALE		CLAYSTONE & SHALE	2.1	394.0
23.9	CARBONDALE	JAMESTOWN	COAL	2.8	396.1
21.1	CARBONDALE		UNDERCLAY	1.0	398.9
20.1	CARBONDALE	HERRIN	COAL	2.1	399.9
18.0	CARBONDALE		CLAYSTONE & SHALE	7.0	402.0
11.0	CARBONDALE		SANDY SHALE	18.0	409.0
-7.0	CARBONDALE		SANDSTONE/SHALE	4.0	427.0
-11.0	CARBONDALE		SANDY SHALE	9.0	431.0
-20.0	CARBONDALE		BLUE SHALE	5.5	440.0
-25.5	CARBONDALE	BRIAR HILL	COAL	2.2	445.5
-27.7	CARBONDALE		SANDY SHALE	3.3	447.7
-31.0	CARBONDALE		SANDSTONE	4.0	451.0
-35.0	CARBONDALE		BLUE SHALE	8.0	455.0
-43.0	CARBONDALE	SPRINGFIELD	COAL	3.0	463.0
-46.0	CARBONDALE		UNDERCLAY	4.0	466.0
-50.0	CARBONDALE		GRAY SHALE	10.0	470.0
-60.0	CARBONDALE		SANDSTONE	11.0	480.0
-71.0	CARBONDALE		GRAY SHALE	52.0	491.0
-123.0	CARBONDALE	EXCELLO	BLACK SHALE	3.0	543.0
-126.0	CARBONDALE	HOUCHIN CREEK	COAL	0.5	546.0
-126.5	CARBONDALE		SANDSTONE	27.5	546.5
-154.0	CARBONDALE		SANDY SHALE	5.0	574.0
-159.0	CARBONDALE		SANDSTONE	7.0	579.0
-166.0	CARBONDALE		SANDSTONE/SHALE	5.0	586.0

MAPID: 10102353000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 7 QUARTERS/FOOTAGES: SW SW SE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.677333

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 38.703606

DATE COLLECTED:

SURFACE ELEVATION (FT.): 416.0 LOGGED (FT.): 649.0

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
183.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	233.0
49.0	CARBONDALE	DANVILLE	COAL	3.5	367.0
26.0	CARBONDALE	JAMESTOWN	COAL	-	390.0
-44.0	CARBONDALE	SPRINGFIELD	COAL	-	460.0
-124.0	CARBONDALE	HOUCHIN CREEK	COAL	-	540.0
-233.0	CARBONDALE	COLCHESTER	COAL	-	649.0

MAPID: 10100572000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 8 QUARTERS/FOOTAGES: 330' S line, 430' W line of NW SW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.667734 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.707304 DATE COLLECTED:

SURFACE ELEVATION (FT.): 418.0 LOGGED (FT.): 660.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	264.0
42.0	CARBONDALE	DANVILLE	COAL	2.5	376.0
20.0	CARBONDALE	JAMESTOWN	COAL	4.0	398.0
-50.0	CARBONDALE	SPRINGFIELD	COAL	2.5	468.0
-130.0	CARBONDALE	HOUCHIN CREEK	COAL	-	548.0
-242.0	CARBONDALE	COLCHESTER	COAL	-	660.0

MAPID: 10102249000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 8 QUARTERS/FOOTAGES: NE SE NW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.661249 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.712931 DATE COLLECTED:

SURFACE ELEVATION (FT.): 425.0 LOGGED (FT.): 685.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	273.0
24.0	CARBONDALE	DANVILLE	COAL	3.0	401.0
1.0	CARBONDALE	JAMESTOWN	COAL	5.0	424.0
-5.0	CARBONDALE	HERRIN	COAL	-	430.0
-71.0	CARBONDALE	SPRINGFIELD	COAL	3.5	496.0
-155.0	CARBONDALE	HOUCHIN CREEK	COAL	-	580.0
-260.0	CARBONDALE	COLCHESTER	COAL	-	685.0

MAPID: 10103479000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 8 QUARTERS/FOOTAGES: SE SE SW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.661128 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.703582 DATE COLLECTED:

SURFACE ELEVATION (FT.): 413.0 LOGGED (FT.): 708.0 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
158.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	255.0
30.0	CARBONDALE	DANVILLE	COAL	2.5	383.0
8.0	CARBONDALE	JAMESTOWN	COAL	4.5	405.0
2.0	CARBONDALE	HERRIN	COAL	-	411.0
-66.0	CARBONDALE	SPRINGFIELD	COAL	2.0	479.0
-147.0	CARBONDALE	HOUCHIN CREEK	COAL	-	560.0
-270.0	CARBONDALE	COLCHESTER	COAL	-	683.0
-293.0	SPOON	SEELYVILLE	COAL	2.0	706.0

MAPID: 10103480000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 8 QUARTERS/FOOTAGES: NW NE NW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.663609 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.716671 DATE COLLECTED:

SURFACE ELEVATION (FT.): 429.0 LOGGED (FT.): 687.0 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
31.0	CARBONDALE	DANVILLE	COAL	3.0	398.0
7.0	CARBONDALE	JAMESTOWN	COAL	-	422.0
-68.0	CARBONDALE	SPRINGFIELD	COAL	3.0	497.0
-156.0	CARBONDALE	HOUCHIN CREEK	COAL	-	585.0
-258.0	CARBONDALE	COLCHESTER	COAL	-	687.0

MAPID: 10100582000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 10 QUARTERS/FOOTAGES: SE NE SW
 QUADRANGLE: VINCENNES LONGITUDE: -87.623836 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.707237 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 412.0 LOGGED (FT.): 722.0 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
151.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	261.0
25.0	CARBONDALE	DANVILLE	COAL	5.0	387.0
0.0	CARBONDALE	JAMESTOWN	COAL	-	412.0
-80.0	CARBONDALE	SPRINGFIELD	COAL	-	492.0
-185.0	CARBONDALE	HOUCHIN CREEK	COAL	-	597.0
-284.0	CARBONDALE	COLCHESTER	COAL	-	696.0
-308.0	SPOON	SEELYVILLE	COAL	2.0	720.0

MAPID: 10100580000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 11 QUARTERS/FOOTAGES: 230' N line, 330' W line of SW NE NE
 QUADRANGLE: VINCENNES LONGITUDE: -87.59793 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.715027 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 416.0 LOGGED (FT.): 742.0 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
130.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	286.0
6.0	CARBONDALE	DANVILLE	COAL	4.0	410.0
-20.0	CARBONDALE	JAMESTOWN	COAL	5.0	436.0
-28.0	CARBONDALE	HERRIN	COAL	-	444.0
-100.0	CARBONDALE	SPRINGFIELD	COAL	4.0	516.0
-224.0	CARBONDALE	HOUCHIN CREEK	COAL	-	640.0
-306.0	CARBONDALE	COLCHESTER	COAL	-	722.0
-320.0	SPOON	SEELYVILLE	COAL	6.0	736.0

MAPID: 10100009000C **VERSION:** 2 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 3N 11W **SECTION:** 13 **QUARTERS/FOOTAGES:** SW NW NE
QUADRANGLE: VINCENNES **LONGITUDE:** -87.58332 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.699751 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 413.0 **LOGGED (FT.):** 726.0 **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
17.0	CARBONDALE	DANVILLE	COAL	4.0	396.0
-9.0	CARBONDALE	JAMESTOWN	COAL	-	422.0
-87.0	CARBONDALE	SPRINGFIELD	COAL	-	500.0
-189.0	CARBONDALE	HOUCHIN CREEK	COAL	-	602.0
-290.0	CARBONDALE	COLCHESTER	COAL	-	703.0
-311.0	SPOON	SEELYVILLE	COAL	2.0	724.0

MAPID: 10100009000C **VERSION:** 3 **PROJECT:** CONTROL
COUNTY: LAWRENCE **TWP/RNG:** 3N 11W **SECTION:** 13 **QUARTERS/FOOTAGES:** SW NW NE
QUADRANGLE: VINCENNES **LONGITUDE:** -87.58332 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.699751 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 1904.0 **LOG TYPE:** Survey Sample Study
SOURCE: YOUNG J S JR ETAL **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: 10100576000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 3N 11W **SECTION:** 14 **QUARTERS/FOOTAGES:** SW SE SW
QUADRANGLE: VINCENNES **LONGITUDE:** -87.6074 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.688692 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 415.0 **LOGGED (FT.):** 680.0 **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	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	244.0
37.0	CARBONDALE	DANVILLE	COAL	5.0	378.0
10.0	CARBONDALE	JAMESTOWN	COAL	-	405.0
-63.0	CARBONDALE	SPRINGFIELD	COAL	3.5	478.0
-157.0	CARBONDALE	HOUCHIN CREEK	COAL	-	572.0
-265.0	CARBONDALE	COLCHESTER	COAL	-	680.0

MAPID: 10105697000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 14 QUARTERS/FOOTAGES: SW NE SE
 QUADRANGLE: VINCENNES LONGITUDE: -87.59797 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.692299 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 416.0 LOGGED (FT.): 711.0 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
146.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	270.0
34.0	CARBONDALE	DANVILLE	COAL	5.0	382.0
7.0	CARBONDALE	JAMESTOWN	COAL	-	409.0
-67.0	CARBONDALE	SPRINGFIELD	COAL	4.0	483.0
-168.0	CARBONDALE	HOUCHIN CREEK	COAL	-	584.0
-274.0	CARBONDALE	COLCHESTER	COAL	-	690.0
-295.0	SPOON	SEELYVILLE	COAL	-	711.0

MAPID: 10101274000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 17 QUARTERS/FOOTAGES: NW SE NW
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.663411 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.697966 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 416.0 LOGGED (FT.): 717.0 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
162.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	254.0
26.0	CARBONDALE	DANVILLE	COAL	3.0	390.0
2.0	CARBONDALE	JAMESTOWN	COAL	-	414.0
-3.0	CARBONDALE	HERRIN	COAL	-	419.0
-71.0	CARBONDALE	SPRINGFIELD	COAL	3.0	487.0
-155.0	CARBONDALE	HOUCHIN CREEK	COAL	-	571.0
-274.0	CARBONDALE	COLCHESTER	COAL	-	690.0
-298.0	SPOON	SEELYVILLE	COAL	3.0	714.0

MAPID: 1010350000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 17 QUARTERS/FOOTAGES: NE SW SE
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.65648 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.690494 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 414.0 LOGGED (FT.): 708.0 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
164.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	250.0
35.0	CARBONDALE	DANVILLE	COAL	3.0	379.0
11.0	CARBONDALE	JAMESTOWN	COAL	-	403.0
-60.0	CARBONDALE	SPRINGFIELD	COAL	3.0	474.0
-154.0	CARBONDALE	HOUCHIN CREEK	COAL	-	568.0
-268.0	CARBONDALE	COLCHESTER	COAL	-	682.0
-294.0	SPOON	SEELYVILLE	COAL	-	708.0

MAPID: 10103502000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 17 QUARTERS/FOOTAGES: 175' S line, 423' W line
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.667667 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.688128 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 431.0 LOGGED (FT.): 736.0 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
158.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	273.0
31.0	CARBONDALE	DANVILLE	COAL	2.5	400.0
8.0	CARBONDALE	JAMESTOWN	COAL	3.5	423.0
-66.0	CARBONDALE	SPRINGFIELD	COAL	3.0	497.0
-159.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0
-271.0	CARBONDALE	COLCHESTER	COAL	-	702.0
-301.0	SPOON	SEELYVILLE	COAL	4.0	732.0

MAPID: 10102319000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 18 QUARTERS/FOOTAGES: NE NW NE
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.674992 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.701725 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 415.0 LOGGED (FT.): 658.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	243.0
43.0	CARBONDALE	DANVILLE	COAL	2.5	372.0
20.0	CARBONDALE	JAMESTOWN	COAL	4.5	395.0
-53.0	CARBONDALE	SPRINGFIELD	COAL	3.5	468.0
-135.0	CARBONDALE	HOUCHIN CREEK	COAL	-	550.0
-243.0	CARBONDALE	COLCHESTER	COAL	-	658.0

MAPID: 10103509000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 18 QUARTERS/FOOTAGES: 330' S line, 1650' W line
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.679041 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.688512 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 495.0 LOGGED (FT.): 811.5 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
145.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	350.0
19.0	CARBONDALE	DANVILLE	COAL	2.5	476.0
-2.0	CARBONDALE	JAMESTOWN	COAL	4.0	497.0
-9.0	CARBONDALE	HERRIN	COAL	2.5	504.0
-80.0	CARBONDALE	SPRINGFIELD	COAL	2.0	575.0
-165.0	CARBONDALE	HOUCHIN CREEK	COAL	-	660.0
-295.0	CARBONDALE	COLCHESTER	COAL	-	790.0
-313.0	SPOON	SEELYVILLE	COAL	3.5	808.0

MAPID: 10103530000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 19 QUARTERS/FOOTAGES: SE NE NW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.679649 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.684838 DATE COLLECTED:

SURFACE ELEVATION (FT.): 513.0 LOGGED (FT.): 800.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	357.0
34.0	CARBONDALE	DANVILLE	COAL	4.0	479.0
12.0	CARBONDALE	JAMESTOWN	COAL	4.5	501.0
-62.0	CARBONDALE	SPRINGFIELD	COAL	-	575.0
-152.0	CARBONDALE	HOUCHIN CREEK	COAL	-	665.0
-262.0	CARBONDALE	COLCHESTER	COAL	-	775.0
-287.0	SPOON	SEELYVILLE	COAL	-	800.0

MAPID: 10130889000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 19 QUARTERS/FOOTAGES: 290' S line, 330' E line of NW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.680715 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.681861 DATE COLLECTED: 3 / 14 / 1956

SURFACE ELEVATION (FT.): 490.0 LOGGED (FT.): 779.0 LOG TYPE: Electric Log

SOURCE: ILLINOIS MID-CONTINENT CO. GEE #3 WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
156.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	334.0
26.0	CARBONDALE	DANVILLE	COAL	3.0	464.0
3.0	CARBONDALE	JAMESTOWN	COAL	-	487.0
-4.0	CARBONDALE	HERRIN	COAL	-	494.0
-70.0	CARBONDALE	SPRINGFIELD	COAL	3.5	560.0
-162.0	CARBONDALE	HOUCHIN CREEK	COAL	-	652.0
-270.0	CARBONDALE	COLCHESTER	COAL	-	760.0
-289.0	SPOON	SEELYVILLE	COAL	-	779.0

MAPID: 10100565000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 20 QUARTERS/FOOTAGES: 900' N line, 900' E line

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.653862 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.68522 DATE COLLECTED:

SURFACE ELEVATION (FT.): 416.0 LOGGED (FT.): 726.5 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
168.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	248.0
42.0	CARBONDALE	DANVILLE	COAL	-	374.0
14.0	CARBONDALE	JAMESTOWN	COAL	4.0	402.0
8.0	CARBONDALE	HERRIN	COAL	-	408.0
-61.0	CARBONDALE	SPRINGFIELD	COAL	4.0	477.0
-156.0	CARBONDALE	HOUCHIN CREEK	COAL	-	572.0
-274.0	CARBONDALE	COLCHESTER	COAL	-	690.0
-308.0	SPOON	SEELYVILLE	COAL	2.5	724.0

MAPID: 10103540000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 20 QUARTERS/FOOTAGES: 160' N line, 170' E line of SE NW SW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.665214 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.678212 DATE COLLECTED:

SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 773.0 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
153.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	327.0
20.0	CARBONDALE	DANVILLE	COAL	4.0	460.0
-1.0	CARBONDALE	JAMESTOWN	COAL	4.5	481.0
-10.0	CARBONDALE	HERRIN	COAL	2.5	490.0
-80.0	CARBONDALE	SPRINGFIELD	COAL	4.0	560.0
-178.0	CARBONDALE	HOUCHIN CREEK	COAL	-	658.0
-280.0	CARBONDALE	COLCHESTER	COAL	-	760.0
-289.0	SPOON	SEELYVILLE	COAL	4.0	769.0

MAPID: 10103559000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 20 QUARTERS/FOOTAGES: 330' N line, 1036' W line of SW SE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.656318 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.675947 DATE COLLECTED:

SURFACE ELEVATION (FT.): 455.0 LOGGED (FT.): 770.0 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
151.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	304.0
18.0	CARBONDALE	DANVILLE	COAL	2.5	437.0
-4.0	CARBONDALE	JAMESTOWN	COAL	-	459.0
-80.0	CARBONDALE	SPRINGFIELD	COAL	3.0	535.0
-179.0	CARBONDALE	HOUCHIN CREEK	COAL	-	634.0
-291.0	CARBONDALE	COLCHESTER	COAL	-	746.0
-311.0	SPOON	SEELYVILLE	COAL	4.0	766.0

MAPID: 10100561000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 21 QUARTERS/FOOTAGES: NE SE NE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.633262 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.683225 DATE COLLECTED:

SURFACE ELEVATION (FT.): 414.0 LOGGED (FT.): 730.5 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
153.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	261.0
20.0	CARBONDALE	DANVILLE	COAL	2.0	394.0
-4.0	CARBONDALE	JAMESTOWN	COAL	4.5	418.0
-11.0	CARBONDALE	HERRIN	COAL	-	425.0
-79.0	CARBONDALE	SPRINGFIELD	COAL	3.0	493.0
-174.0	CARBONDALE	HOUCHIN CREEK	COAL	-	588.0
-285.0	CARBONDALE	COLCHESTER	COAL	-	699.0
-314.0	SPOON	SEELYVILLE	COAL	2.5	728.0

MAPID: 10100564000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 3N 11W **SECTION:** 21 **QUARTERS/FOOTAGES:** NE SE SE
QUADRANGLE: LAWRENCEVILLE **LONGITUDE:** -87.633293 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 38.676007 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 413.0 **LOGGED (FT.):** 734.0 **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
149.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	264.0
15.0	CARBONDALE	DANVILLE	COAL	3.0	398.0
-7.0	CARBONDALE	JAMESTOWN	COAL	3.0	420.0
-13.0	CARBONDALE	HERRIN	COAL	-	426.0
-88.0	CARBONDALE	SPRINGFIELD	COAL	2.5	501.0
-186.0	CARBONDALE	HOUCHIN CREEK	COAL	-	599.0
-293.0	CARBONDALE	COLCHESTER	COAL	-	706.0
-321.0	SPOON	SEELYVILLE	COAL	-	734.0

MAPID: 10100010000C **VERSION:** 1 **PROJECT:** CONTROL
COUNTY: LAWRENCE **TWP/RNG:** 3N 11W **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SE
QUADRANGLE: VINCENNES **LONGITUDE:** -87.614449 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.675796 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 1871.0 **LOG TYPE:** Survey Sample Study
SOURCE: HAGEMAN H C ETAL **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: 10100567000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 3N 11W **SECTION:** 22 **QUARTERS/FOOTAGES:** NE SE NE
QUADRANGLE: VINCENNES **LONGITUDE:** -87.614451 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 38.68318 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 415.0 **LOGGED (FT.):** 694.0 **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
159.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	256.0
26.0	CARBONDALE	DANVILLE	COAL	3.0	389.0
2.0	CARBONDALE	JAMESTOWN	COAL	3.0	413.0
-70.0	CARBONDALE	SPRINGFIELD	COAL	3.5	485.0
-161.0	CARBONDALE	HOUCHIN CREEK	COAL	-	576.0
-279.0	CARBONDALE	COLCHESTER	COAL	-	694.0

MAPID: 10102417000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 22 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: VINCENNES LONGITUDE: -87.61447 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.673935 DATE COLLECTED:

SURFACE ELEVATION (FT.): 408.0 LOGGED (FT.): 722.0 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
15.0	CARBONDALE	DANVILLE	COAL	-	393.0
-8.0	CARBONDALE	JAMESTOWN	COAL	-	416.0
-84.0	CARBONDALE	SPRINGFIELD	COAL	3.0	492.0
-177.0	CARBONDALE	HOUCHIN CREEK	COAL	-	585.0
-288.0	CARBONDALE	COLCHESTER	COAL	-	696.0
-311.0	SPOON	SEELYVILLE	COAL	3.0	719.0

MAPID: 10103570000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 23 QUARTERS/FOOTAGES: SW NE NW

QUADRANGLE: VINCENNES LONGITUDE: -87.607388 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.685006 DATE COLLECTED:

SURFACE ELEVATION (FT.): 412.0 LOGGED (FT.): 723.0 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	CARBONDALE	DANVILLE	COAL	4.0	375.0
14.0	CARBONDALE	JAMESTOWN	COAL	4.0	398.0
8.0	CARBONDALE	HERRIN	COAL	-	404.0
-60.0	CARBONDALE	SPRINGFIELD	COAL	3.5	472.0
-155.0	CARBONDALE	HOUCHIN CREEK	COAL	-	567.0
-270.0	CARBONDALE	COLCHESTER	COAL	-	682.0
-308.0	SPOON	SEELYVILLE	COAL	3.0	720.0

MAPID: 1010358000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 23 QUARTERS/FOOTAGES: NE SW SW

QUADRANGLE: VINCENNES LONGITUDE: -87.609737 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.675766 DATE COLLECTED:

SURFACE ELEVATION (FT.): 408.0 LOGGED (FT.): 721.0 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
143.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	265.0
13.0	CARBONDALE	DANVILLE	COAL	3.0	395.0
-8.0	CARBONDALE	JAMESTOWN	COAL	4.0	416.0
-14.0	CARBONDALE	HERRIN	COAL	-	422.0
-87.0	CARBONDALE	SPRINGFIELD	COAL	3.0	495.0
-182.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0
-292.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-313.0	SPOON	SEELYVILLE	COAL	-	721.0

MAPID: 10102418000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 24 QUARTERS/FOOTAGES: SE NW NW

QUADRANGLE: VINCENNES LONGITUDE: -87.590771 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.684965 DATE COLLECTED:

SURFACE ELEVATION (FT.): 413.0 LOGGED (FT.): 678.0 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
33.0	CARBONDALE	DANVILLE	COAL	3.5	380.0
10.0	CARBONDALE	JAMESTOWN	COAL	-	403.0
-75.0	CARBONDALE	SPRINGFIELD	COAL	3.5	488.0
-159.0	CARBONDALE	HOUCHIN CREEK	COAL	-	572.0
-265.0	CARBONDALE	COLCHESTER	COAL	-	678.0

MAPID: 10100568000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 26 QUARTERS/FOOTAGES: NE NW NW
 QUADRANGLE: VINCENNES LONGITUDE: -87.609751 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.672058 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 408.0 LOGGED (FT.): 728.5 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	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	246.0
15.0	CARBONDALE	DANVILLE	COAL	-	393.0
-7.0	CARBONDALE	JAMESTOWN	COAL	3.0	415.0
-14.0	CARBONDALE	HERRIN	COAL	-	422.0
-84.0	CARBONDALE	SPRINGFIELD	COAL	4.0	492.0
-176.0	CARBONDALE	HOUCHIN CREEK	COAL	-	584.0
-292.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-317.0	SPOON	SEELYVILLE	COAL	3.5	725.0

MAPID: 10100570000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 26 QUARTERS/FOOTAGES: NE NE NE
 QUADRANGLE: VINCENNES LONGITUDE: -87.595513 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.672079 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 412.0 LOGGED (FT.): 725.5 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
28.0	CARBONDALE	DANVILLE	COAL	4.5	384.0
0.0	CARBONDALE	JAMESTOWN	COAL	3.0	412.0
-6.0	CARBONDALE	HERRIN	COAL	-	418.0
-81.0	CARBONDALE	SPRINGFIELD	COAL	3.0	493.0
-178.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0
-278.0	CARBONDALE	COLCHESTER	COAL	-	690.0
-311.0	SPOON	SEELYVILLE	COAL	2.5	723.0

MAPID: 10100559000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 27 QUARTERS/FOOTAGES: NW SW SW
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.631091 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.660991 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 410.0 LOGGED (FT.): 732.0 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
12.0	CARBONDALE	DANVILLE	COAL	2.0	398.0
-8.0	CARBONDALE	JAMESTOWN	COAL	-	418.0
-85.0	CARBONDALE	SPRINGFIELD	COAL	3.0	495.0
-182.0	CARBONDALE	HOUCHIN CREEK	COAL	-	592.0
-295.0	CARBONDALE	COLCHESTER	COAL	-	705.0
-320.0	SPOON	SEELYVILLE	COAL	2.0	730.0

MAPID: 10100560000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 27 QUARTERS/FOOTAGES: SE NW SE
 QUADRANGLE: VINCENNES LONGITUDE: -87.619299 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.662739 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 410.0 LOGGED (FT.): 738.0 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
162.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	248.0
13.0	CARBONDALE	DANVILLE	COAL	3.0	397.0
-9.0	CARBONDALE	JAMESTOWN	COAL	-	419.0
-88.0	CARBONDALE	SPRINGFIELD	COAL	4.0	498.0
-184.0	CARBONDALE	HOUCHIN CREEK	COAL	-	594.0
-290.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-326.0	SPOON	SEELYVILLE	COAL	2.0	736.0

MAPID: 10100557000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 28 QUARTERS/FOOTAGES: 480' S line, 330' W line of SE NE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.635669 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.667057 DATE COLLECTED:

SURFACE ELEVATION (FT.): 456.0 LOGGED (FT.): 784.0 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
155.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	301.0
-74.0	CARBONDALE	SPRINGFIELD	COAL	4.0	530.0
-169.0	CARBONDALE	HOUCHIN CREEK	COAL	-	625.0
-292.0	CARBONDALE	COLCHESTER	COAL	-	748.0
-328.0	SPOON	SEELYVILLE	COAL	-	784.0

MAPID: 10103582000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 28 QUARTERS/FOOTAGES: NE SW SW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.647294 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.661028 DATE COLLECTED:

SURFACE ELEVATION (FT.): 429.0 LOGGED (FT.): 741.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	288.0
-3.0	CARBONDALE	DANVILLE	COAL	-	432.0
-25.0	CARBONDALE	JAMESTOWN	COAL	4.0	454.0
-31.0	CARBONDALE	HERRIN	COAL	-	460.0
-101.0	CARBONDALE	SPRINGFIELD	COAL	2.5	530.0
-197.0	CARBONDALE	HOUCHIN CREEK	COAL	-	626.0
-312.0	CARBONDALE	COLCHESTER	COAL	-	741.0

MAPID: 10103583000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 28 QUARTERS/FOOTAGES: 2366' S line, 330' E line of SW NW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.647174 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.672259 DATE COLLECTED:

SURFACE ELEVATION (FT.): 451.0 LOGGED (FT.): 767.0 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
149.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	302.0
19.0	CARBONDALE	DANVILLE	COAL	4.0	432.0
-6.0	CARBONDALE	JAMESTOWN	COAL	3.0	457.0
-80.0	CARBONDALE	SPRINGFIELD	COAL	3.0	531.0
-179.0	CARBONDALE	HOUCHIN CREEK	COAL	-	630.0
-289.0	CARBONDALE	COLCHESTER	COAL	-	740.0
-312.0	SPOON	SEELYVILLE	COAL	4.0	763.0

MAPID: 10100555000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 29 QUARTERS/FOOTAGES: 330' S line, 950' W line of SE NE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.652008 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.666642 DATE COLLECTED:

SURFACE ELEVATION (FT.): 414.0 LOGGED (FT.): 738.0 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
146.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	268.0
17.0	CARBONDALE	DANVILLE	COAL	3.0	397.0
-6.0	CARBONDALE	JAMESTOWN	COAL	4.0	420.0
-14.0	CARBONDALE	HERRIN	COAL	2.0	428.0
-82.0	CARBONDALE	SPRINGFIELD	COAL	2.5	496.0
-170.0	CARBONDALE	HOUCHIN CREEK	COAL	-	584.0
-280.0	CARBONDALE	COLCHESTER	COAL	-	694.0
-320.0	SPOON	SEELYVILLE	COAL	4.0	734.0

MAPID: 10105268000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 29 QUARTERS/FOOTAGES: 990' N line, 1438' E line of SW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.665087 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.663026 DATE COLLECTED:

SURFACE ELEVATION (FT.): 465.0 LOGGED (FT.): 793.5 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
139.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	326.0
11.0	CARBONDALE	DANVILLE	COAL	3.0	454.0
-11.0	CARBONDALE	JAMESTOWN	COAL	4.5	476.0
-17.0	CARBONDALE	HERRIN	COAL	-	482.0
-85.0	CARBONDALE	SPRINGFIELD	COAL	2.0	550.0
-177.0	CARBONDALE	HOUCHIN CREEK	COAL	-	642.0
-283.0	CARBONDALE	COLCHESTER	COAL	-	748.0
-324.0	SPOON	SEELYVILLE	COAL	4.5	789.0

MAPID: 10105316000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 29 QUARTERS/FOOTAGES: NE SE NW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.661162 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.668561 DATE COLLECTED:

SURFACE ELEVATION (FT.): 442.0 LOGGED (FT.): 763.5 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
142.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	300.0
9.0	CARBONDALE	DANVILLE	COAL	3.5	433.0
-15.0	CARBONDALE	JAMESTOWN	COAL	3.0	457.0
-24.0	CARBONDALE	HERRIN	COAL	2.0	466.0
-93.0	CARBONDALE	SPRINGFIELD	COAL	2.5	535.0
-195.0	CARBONDALE	HOUCHIN CREEK	COAL	-	637.0
-298.0	CARBONDALE	COLCHESTER	COAL	-	740.0
-319.0	SPOON	SEELYVILLE	COAL	2.5	761.0

MAPID: 10100554000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 30 QUARTERS/FOOTAGES: 1190' N line, 330' E line of SE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.670469 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.662451 DATE COLLECTED:

SURFACE ELEVATION (FT.): 447.0 LOGGED (FT.): 776.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	307.0
-1.0	CARBONDALE	DANVILLE	COAL	3.5	448.0
-15.0	CARBONDALE	JAMESTOWN	COAL	4.0	462.0
-21.0	CARBONDALE	HERRIN	COAL	-	468.0
-89.0	CARBONDALE	SPRINGFIELD	COAL	3.0	536.0
-188.0	CARBONDALE	HOUCHIN CREEK	COAL	-	635.0
-292.0	CARBONDALE	COLCHESTER	COAL	-	739.0
-326.0	SPOON	SEELYVILLE	COAL	3.0	773.0

MAPID: 10100726000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 30 QUARTERS/FOOTAGES: 5' N line, 1684' E line

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.675259 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.673025 DATE COLLECTED:

SURFACE ELEVATION (FT.): 463.0 LOGGED (FT.): 763.5 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
157.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	306.0
26.0	CARBONDALE	DANVILLE	COAL	3.5	437.0
4.0	CARBONDALE	JAMESTOWN	COAL	4.0	459.0
-3.0	CARBONDALE	HERRIN	COAL	2.0	466.0
-71.0	CARBONDALE	SPRINGFIELD	COAL	4.0	534.0
-167.0	CARBONDALE	HOUCHIN CREEK	COAL	-	630.0
-277.0	CARBONDALE	COLCHESTER	COAL	-	740.0
-297.0	SPOON	SEELYVILLE	COAL	3.5	760.0

MAPID: 10102908000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 30 QUARTERS/FOOTAGES: NE NE SW
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.679766 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.664558 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 452.0 LOGGED (FT.): 752.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	300.0
24.0	CARBONDALE	DANVILLE	COAL	3.0	428.0
0.0	CARBONDALE	JAMESTOWN	COAL	4.0	452.0
-6.0	CARBONDALE	HERRIN	COAL	-	458.0
-75.0	CARBONDALE	SPRINGFIELD	COAL	4.0	527.0
-171.0	CARBONDALE	HOUCHIN CREEK	COAL	-	623.0
-273.0	CARBONDALE	COLCHESTER	COAL	-	725.0
-298.0	SPOON	SEELYVILLE	COAL	2.0	750.0

MAPID: 10100542000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 31 QUARTERS/FOOTAGES: 330' S line, 430' E line of NW SE
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.675507 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.648097 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 427.0 LOGGED (FT.): 725.0 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
173.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	254.0
29.0	CARBONDALE	DANVILLE	COAL	2.5	398.0
11.0	CARBONDALE	JAMESTOWN	COAL	4.0	416.0
4.0	CARBONDALE	HERRIN	COAL	-	423.0
-65.0	CARBONDALE	SPRINGFIELD	COAL	3.0	492.0
-153.0	CARBONDALE	HOUCHIN CREEK	COAL	-	580.0
-273.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-294.0	SPOON	SEELYVILLE	COAL	4.0	721.0

MAPID: 10102556000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 31 QUARTERS/FOOTAGES: 650' S line, 1162' E line of NW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.682709 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.652581 DATE COLLECTED:

SURFACE ELEVATION (FT.): 444.0 LOGGED (FT.): 725.0 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
164.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	280.0
36.0	CARBONDALE	DANVILLE	COAL	4.0	408.0
11.0	CARBONDALE	JAMESTOWN	COAL	3.0	433.0
-65.0	CARBONDALE	SPRINGFIELD	COAL	4.0	509.0
-152.0	CARBONDALE	HOUCHIN CREEK	COAL	-	596.0
-266.0	CARBONDALE	COLCHESTER	COAL	-	710.0
-278.0	SPOON	SEELYVILLE	COAL	3.0	722.0

MAPID: 10102627000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 31 QUARTERS/FOOTAGES: 330' S line, 990' E line of NE NW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.68209 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.65533 DATE COLLECTED:

SURFACE ELEVATION (FT.): 457.0 LOGGED (FT.): 738.0 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
164.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	293.0
39.0	CARBONDALE	DANVILLE	COAL	3.5	418.0
16.0	CARBONDALE	JAMESTOWN	COAL	4.5	441.0
9.0	CARBONDALE	HERRIN	COAL	-	448.0
-61.0	CARBONDALE	SPRINGFIELD	COAL	2.5	518.0
-146.0	CARBONDALE	HOUCHIN CREEK	COAL	-	603.0
-259.0	CARBONDALE	COLCHESTER	COAL	-	716.0
-278.0	SPOON	SEELYVILLE	COAL	3.0	735.0

MAPID: 10100549000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 32 QUARTERS/FOOTAGES: NW SW NE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.658878 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.653624 DATE COLLECTED:

SURFACE ELEVATION (FT.): 411.0 LOGGED (FT.): 742.5 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	
125.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	286.0	
-1.0	CARBONDALE	DANVILLE	COAL	3.0	412.0	
-22.0	CARBONDALE	JAMESTOWN	COAL	-	433.0	
-101.0	CARBONDALE	SPRINGFIELD	COAL	3.0	512.0	
-199.0	CARBONDALE	HOUCHIN CREEK	COAL	-	610.0	
-309.0	CARBONDALE	COLCHESTER	COAL	-	720.0	
-328.0	SPOON	SEELYVILLE	COAL	3.5	739.0	

MAPID: 10100550000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 32 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.65184 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.644353 DATE COLLECTED:

SURFACE ELEVATION (FT.): 421.0 LOGGED (FT.): 742.0 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	7.0	275.0	
21.0	CARBONDALE	DANVILLE	COAL	3.0	400.0	
-2.0	CARBONDALE	JAMESTOWN	COAL	-	423.0	
-79.0	CARBONDALE	SPRINGFIELD	COAL	3.0	500.0	
-177.0	CARBONDALE	HOUCHIN CREEK	COAL	-	598.0	
-295.0	CARBONDALE	COLCHESTER	COAL	-	716.0	
-317.0	SPOON	SEELYVILLE	COAL	4.0	738.0	

MAPID: 1010361000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 32 QUARTERS/FOOTAGES: SW NE SW
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.663521 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.6481 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 416.0 LOGGED (FT.): 724.5 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
147.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	269.0
29.0	CARBONDALE	DANVILLE	COAL	3.0	387.0
9.0	CARBONDALE	JAMESTOWN	COAL	-	407.0
-71.0	CARBONDALE	SPRINGFIELD	COAL	3.5	487.0
-168.0	CARBONDALE	HOUCHIN CREEK	COAL	-	584.0
-284.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-304.0	SPOON	SEELYVILLE	COAL	4.5	720.0

MAPID: 10103611000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 32 QUARTERS/FOOTAGES: NW SE SW
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.663523 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.646256 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 411.0 LOGGED (FT.): 718.5 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
155.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	256.0
30.0	CARBONDALE	DANVILLE	COAL	3.5	381.0
10.0	CARBONDALE	JAMESTOWN	COAL	-	401.0
-68.0	CARBONDALE	SPRINGFIELD	COAL	4.0	479.0
-165.0	CARBONDALE	HOUCHIN CREEK	COAL	-	576.0
-284.0	CARBONDALE	COLCHESTER	COAL	-	695.0
-303.0	SPOON	SEELYVILLE	COAL	4.5	714.0

MAPID: 10101564000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 33 QUARTERS/FOOTAGES: NE SW NW
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.647279 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.653586 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 408.0 LOGGED (FT.): 736.0 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
139.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	269.0
9.0	CARBONDALE	DANVILLE	COAL	2.5	399.0
-13.0	CARBONDALE	JAMESTOWN	COAL	-	421.0
-17.0	CARBONDALE	HERRIN	COAL	-	425.0
-91.0	CARBONDALE	SPRINGFIELD	COAL	2.5	499.0
-182.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0
-301.0	CARBONDALE	COLCHESTER	COAL	-	709.0
-325.0	SPOON	SEELYVILLE	COAL	3.0	733.0

MAPID: 10101604000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 33 QUARTERS/FOOTAGES: 330' N line, 660' W line of SE
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.639125 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.649893 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 408.0 LOGGED (FT.): 717.5 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
116.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	292.0
11.0	CARBONDALE	DANVILLE	COAL	3.0	397.0
-9.0	CARBONDALE	JAMESTOWN	COAL	-	417.0
-15.0	CARBONDALE	HERRIN	COAL	-	423.0
-88.0	CARBONDALE	SPRINGFIELD	COAL	3.0	496.0
-181.0	CARBONDALE	HOUCHIN CREEK	COAL	-	589.0
-302.0	CARBONDALE	COLCHESTER	COAL	-	710.0
-306.0	SPOON	SEELYVILLE	COAL	3.5	714.0

MAPID: 10100545000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 35 QUARTERS/FOOTAGES: SW NW NW
 QUADRANGLE: VINCENNES LONGITUDE: -87.612337 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.655297 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 408.0 LOGGED (FT.): 731.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	252.0
28.0	CARBONDALE	DANVILLE	COAL	4.0	380.0
6.0	CARBONDALE	JAMESTOWN	COAL	-	402.0
-74.0	CARBONDALE	SPRINGFIELD	COAL	3.5	482.0
-164.0	CARBONDALE	HOUCHIN CREEK	COAL	-	572.0
-292.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-318.0	SPOON	SEELYVILLE	COAL	5.0	726.0

MAPID: 10100547000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 11W SECTION: 35 QUARTERS/FOOTAGES: 462' N line, 957' W line of SE NW
 QUADRANGLE: VINCENNES LONGITUDE: -87.605526 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.653181 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 413.0 LOGGED (FT.): 738.0 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
173.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	240.0
31.0	CARBONDALE	DANVILLE	COAL	4.0	382.0
9.0	CARBONDALE	JAMESTOWN	COAL	-	404.0
3.0	CARBONDALE	HERRIN	COAL	-	410.0
-48.0	CARBONDALE	SPRINGFIELD	COAL	5.5	461.0
-157.0	CARBONDALE	HOUCHIN CREEK	COAL	-	570.0
-293.0	CARBONDALE	COLCHESTER	COAL	-	706.0
-320.0	SPOON	SEELYVILLE	COAL	5.0	733.0

MAPID: 10101432000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 1 QUARTERS/FOOTAGES: 660' S line, 200' E line of NW SW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.699463 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.722845 DATE COLLECTED:

SURFACE ELEVATION (FT.): 444.0 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
152.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	292.0
24.0	CARBONDALE	DANVILLE	COAL	3.0	420.0
-7.0	CARBONDALE	JAMESTOWN	COAL	4.0	451.0
-16.0	CARBONDALE	HERRIN	COAL	2.5	460.0
-86.0	CARBONDALE	SPRINGFIELD	COAL	3.0	530.0
-173.0	CARBONDALE	HOUCHIN CREEK	COAL	-	617.0
-293.0	CARBONDALE	COLCHESTER	COAL	-	737.0
-313.0	SPOON	SEELYVILLE	COAL	2.5	757.0

MAPID: 10102329000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 1 QUARTERS/FOOTAGES: SW SE SW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.697602 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.718229 DATE COLLECTED:

SURFACE ELEVATION (FT.): 444.0 LOGGED (FT.): 768.5 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	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	282.0
38.0	CARBONDALE	DANVILLE	COAL	2.5	406.0
4.0	CARBONDALE	JAMESTOWN	COAL	-	440.0
-1.0	CARBONDALE	HERRIN	COAL	-	445.0
-72.0	CARBONDALE	SPRINGFIELD	COAL	2.5	516.0
-158.0	CARBONDALE	HOUCHIN CREEK	COAL	-	602.0
-302.0	CARBONDALE	COLCHESTER	COAL	-	746.0
-322.0	SPOON	SEELYVILLE	COAL	2.5	766.0

MAPID: 10100524000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 2 QUARTERS/FOOTAGES: NW SE NW
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.716145 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.727242 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 784.0 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
143.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	337.0
25.0	CARBONDALE	DANVILLE	COAL	3.0	455.0
-16.0	CARBONDALE	JAMESTOWN	COAL	-	496.0
-96.0	CARBONDALE	SPRINGFIELD	COAL	3.0	576.0
-186.0	CARBONDALE	HOUCHIN CREEK	COAL	-	666.0
-286.0	CARBONDALE	COLCHESTER	COAL	-	766.0
-304.0	SPOON	SEELYVILLE	COAL	-	784.0

MAPID: 10102655000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 2 QUARTERS/FOOTAGES: SW NW SE
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.711563 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.721737 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 447.0 LOGGED (FT.): 740.5 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
144.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	303.0
22.0	CARBONDALE	DANVILLE	COAL	2.5	425.0
-16.0	CARBONDALE	JAMESTOWN	COAL	-	463.0
-22.0	CARBONDALE	HERRIN	COAL	-	469.0
-88.0	CARBONDALE	SPRINGFIELD	COAL	3.5	535.0
-185.0	CARBONDALE	HOUCHIN CREEK	COAL	-	632.0
-270.0	CARBONDALE	COLCHESTER	COAL	-	717.0
-291.0	SPOON	SEELYVILLE	COAL	2.5	738.0

MAPID: 10102987000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 2 QUARTERS/FOOTAGES: NW NW SE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.711555 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 38.723606 DATE COLLECTED:

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 736.0 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
146.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	294.0
20.0	CARBONDALE	DANVILLE	COAL	2.0	420.0
-16.0	CARBONDALE	JAMESTOWN	COAL	3.0	456.0
-21.0	CARBONDALE	HERRIN	COAL	-	461.0
-91.0	CARBONDALE	SPRINGFIELD	COAL	3.5	531.0
-188.0	CARBONDALE	HOUCHIN CREEK	COAL	-	628.0
-274.0	CARBONDALE	COLCHESTER	COAL	-	714.0
-296.0	SPOON	SEELYVILLE	COAL	-	736.0

MAPID: 10100522000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 3 QUARTERS/FOOTAGES: 990' S line, 728' W line

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.738018 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 38.719408 DATE COLLECTED:

SURFACE ELEVATION (FT.): 465.0 LOGGED (FT.): 780.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	317.0
22.0	CARBONDALE	DANVILLE	COAL	-	443.0
-13.0	CARBONDALE	JAMESTOWN	COAL	-	478.0
-94.0	CARBONDALE	SPRINGFIELD	COAL	2.5	559.0
-190.0	CARBONDALE	HOUCHIN CREEK	COAL	-	655.0
-291.0	CARBONDALE	COLCHESTER	COAL	-	756.0
-312.0	SPOON	SEELYVILLE	COAL	3.0	777.0

MAPID: 10100520000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 4 QUARTERS/FOOTAGES: SE NW NE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.746443 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 38.728665 DATE COLLECTED:

SURFACE ELEVATION (FT.): 487.0 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
139.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	348.0
14.0	CARBONDALE	DANVILLE	COAL	3.0	473.0
-30.0	CARBONDALE	JAMESTOWN	COAL	4.0	517.0
-35.0	CARBONDALE	HERRIN	COAL	-	522.0
-106.0	CARBONDALE	SPRINGFIELD	COAL	3.0	593.0
-201.0	CARBONDALE	HOUCHIN CREEK	COAL	-	688.0
-293.0	CARBONDALE	COLCHESTER	COAL	-	780.0
-313.0	SPOON	SEELYVILLE	COAL	2.0	800.0

MAPID: 10103666000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 4 QUARTERS/FOOTAGES: 1384' S line, 55' W line

QUADRANGLE: SUMNER LONGITUDE: -87.759111 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 38.720204 DATE COLLECTED:

SURFACE ELEVATION (FT.): 505.0 LOGGED (FT.): 749.5 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
192.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	313.0
66.0	CARBONDALE	DANVILLE	COAL	2.0	439.0
35.0	CARBONDALE	JAMESTOWN	COAL	-	470.0
-38.0	CARBONDALE	SPRINGFIELD	COAL	4.0	543.0
-123.0	CARBONDALE	HOUCHIN CREEK	COAL	-	628.0
-222.0	CARBONDALE	COLCHESTER	COAL	-	727.0
-241.0	SPOON	SEELYVILLE	COAL	3.5	746.0

MAPID: 10103671000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 4 QUARTERS/FOOTAGES: SW SE NW

QUADRANGLE: SUMNER LONGITUDE: -87.753446 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.724833 DATE COLLECTED:

SURFACE ELEVATION (FT.): 465.0 LOGGED (FT.): 752.5 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
156.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	309.0
31.0	CARBONDALE	DANVILLE	COAL	3.0	434.0
-3.0	CARBONDALE	JAMESTOWN	COAL	4.0	468.0
-8.0	CARBONDALE	HERRIN	COAL	2.0	473.0
-79.0	CARBONDALE	SPRINGFIELD	COAL	4.0	544.0
-172.0	CARBONDALE	HOUCHIN CREEK	COAL	-	637.0
-265.0	CARBONDALE	COLCHESTER	COAL	-	730.0
-283.0	SPOON	SEELYVILLE	COAL	4.5	748.0

MAPID: 10102961000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 5 QUARTERS/FOOTAGES: SW SE NE

QUADRANGLE: SUMNER LONGITUDE: -87.762772 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.724691 DATE COLLECTED:

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 690.5 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
217.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	258.0
93.0	CARBONDALE	DANVILLE	COAL	2.5	382.0
59.0	CARBONDALE	JAMESTOWN	COAL	-	416.0
53.0	CARBONDALE	HERRIN	COAL	-	422.0
-15.0	CARBONDALE	SPRINGFIELD	COAL	4.0	490.0
-101.0	CARBONDALE	HOUCHIN CREEK	COAL	-	576.0
-191.0	CARBONDALE	COLCHESTER	COAL	-	666.0
-211.0	SPOON	SEELYVILLE	COAL	4.5	686.0

MAPID: 10103732000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 5 QUARTERS/FOOTAGES: 65' N line, 252' E line of NW NW

QUADRANGLE: SUMNER LONGITUDE: -87.774083 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.730819 DATE COLLECTED:

SURFACE ELEVATION (FT.): 510.0 LOGGED (FT.): 709.0 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
231.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	279.0
109.0	CARBONDALE	DANVILLE	COAL	3.0	401.0
72.0	CARBONDALE	JAMESTOWN	COAL	-	438.0
65.0	CARBONDALE	HERRIN	COAL	-	445.0
-3.0	CARBONDALE	SPRINGFIELD	COAL	4.0	513.0
-91.0	CARBONDALE	HOUCHIN CREEK	COAL	-	601.0
-178.0	CARBONDALE	COLCHESTER	COAL	-	688.0
-194.0	SPOON	SEELYVILLE	COAL	5.0	704.0

MAPID: 10103772000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 5 QUARTERS/FOOTAGES: 1340' S line, 25' W line of SE

QUADRANGLE: SUMNER LONGITUDE: -87.768523 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.719973 DATE COLLECTED:

SURFACE ELEVATION (FT.): 496.0 LOGGED (FT.): 699.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	268.0
99.0	CARBONDALE	DANVILLE	COAL	2.0	397.0
67.0	CARBONDALE	JAMESTOWN	COAL	-	429.0
60.0	CARBONDALE	HERRIN	COAL	-	436.0
-9.0	CARBONDALE	SPRINGFIELD	COAL	2.5	505.0
-88.0	CARBONDALE	HOUCHIN CREEK	COAL	-	584.0
-179.0	CARBONDALE	COLCHESTER	COAL	-	675.0
-199.0	SPOON	SEELYVILLE	COAL	4.0	695.0

MAPID: 10127925000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 5 QUARTERS/FOOTAGES: 1356' S line, 942' E line of SE

QUADRANGLE: SUMNER LONGITUDE: -87.762624 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.720086 DATE COLLECTED:

SURFACE ELEVATION (FT.): 519.0 LOGGED (FT.): 728.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: 4' IV, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
230.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	289.0
98.0	CARBONDALE	DANVILLE	COAL	2.5	421.0
65.0	CARBONDALE	JAMESTOWN	COAL	-	454.0
59.0	CARBONDALE	HERRIN	COAL	-	460.0
-4.0	CARBONDALE	SPRINGFIELD	COAL	2.0	523.0
-89.0	CARBONDALE	HOUCHIN CREEK	COAL	-	608.0
-189.0	CARBONDALE	COLCHESTER	COAL	-	708.0
-205.0	SPOON	SEELYVILLE	COAL	4.0	724.0

MAPID: 10100492000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 6 QUARTERS/FOOTAGES: 1155' N line, 330' E line of NW NW

QUADRANGLE: SUMNER LONGITUDE: -87.793239 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.727549 DATE COLLECTED:

SURFACE ELEVATION (FT.): 511.0 LOGGED (FT.): 822.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	374.0
14.0	CARBONDALE	DANVILLE	COAL	-	497.0
-30.0	CARBONDALE	JAMESTOWN	COAL	-	541.0
-35.0	CARBONDALE	HERRIN	COAL	2.0	546.0
-108.0	CARBONDALE	SPRINGFIELD	COAL	2.5	619.0
-203.0	CARBONDALE	HOUCHIN CREEK	COAL	-	714.0
-289.0	CARBONDALE	COLCHESTER	COAL	-	800.0
-308.0	SPOON	SEELYVILLE	COAL	3.0	819.0

MAPID: 10102124000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 6 QUARTERS/FOOTAGES: 350' N line, 500' E line of SE NW

QUADRANGLE: SUMNER LONGITUDE: -87.789107 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.726149 DATE COLLECTED:

SURFACE ELEVATION (FT.): 515.0 LOGGED (FT.): 822.5 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
139.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	376.0
12.0	CARBONDALE	DANVILLE	COAL	2.5	503.0
-25.0	CARBONDALE	JAMESTOWN	COAL	-	540.0
-32.0	CARBONDALE	HERRIN	COAL	-	547.0
-106.0	CARBONDALE	SPRINGFIELD	COAL	3.5	621.0
-208.0	CARBONDALE	HOUCHIN CREEK	COAL	-	723.0
-287.0	CARBONDALE	COLCHESTER	COAL	-	802.0
-304.0	SPOON	SEELYVILLE	COAL	3.5	819.0

MAPID: 10105424000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 6 QUARTERS/FOOTAGES: 330' N line, 450' W line of SW SW

QUADRANGLE: SUMNER LONGITUDE: -87.795247 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.718795 DATE COLLECTED:

SURFACE ELEVATION (FT.): 510.0 LOGGED (FT.): 871.0 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
96.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	414.0
-35.0	CARBONDALE	DANVILLE	COAL	2.0	545.0
-75.0	CARBONDALE	JAMESTOWN	COAL	-	585.0
-156.0	CARBONDALE	SPRINGFIELD	COAL	3.5	666.0
-260.0	CARBONDALE	HOUCHIN CREEK	COAL	-	770.0
-340.0	CARBONDALE	COLCHESTER	COAL	-	850.0
-357.0	SPOON	SEELYVILLE	COAL	4.0	867.0

MAPID: 10100050000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: LAWRENCE **TWP/RNG:** 3N 12W **SECTION:** 7 **QUARTERS/FOOTAGES:**
QUADRANGLE: SUMNER **LONGITUDE:** -87.787477 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.708781 **DATE COLLECTED:** 3 / 0 / 1946
SURFACE ELEVATION (FT.): 472.9 **LOGGED (FT.):** 851.0 **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.)		COMMENT
				UNIT	OVERBURDEN	
-55.4	SHELBURN	DANVILLE	COAL	1.9	528.3	
-73.6	SHELBURN	JAMESTOWN	COAL	4.2	546.5	
-79.2	CARBONDALE	HERRIN	COAL	4.2	552.1	
-143.9	CARBONDALE	BRIAR HILL	COAL	0.6	616.8	
-158.9	CARBONDALE	SPRINGFIELD	COAL	3.4	631.8	
-265.9	CARBONDALE	HOUCHIN CREEK	COAL	2.0	738.8	HOUCHIN CREEK
-275.7	CARBONDALE	SURVANT	COAL	2.0	748.6	
-345.4	CARBONDALE	COLCHESTER	COAL	1.3	818.3	
-352.7	CARBONDALE	SEELYVILLE	COAL	1.9	825.6	SPLIT
-360.0	CARBONDALE	SEELYVILLE	COAL	1.5	832.9	SPLIT

MAPID: 10101126000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 3N 12W **SECTION:** 7 **QUARTERS/FOOTAGES:** NE SE SW
QUADRANGLE: SUMNER **LONGITUDE:** -87.788718 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 38.704205 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 488.0 **LOGGED (FT.):** 821.5 **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	
112.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	376.0	
-18.0	CARBONDALE	DANVILLE	COAL	2.0	506.0	
-47.0	CARBONDALE	JAMESTOWN	COAL	-	535.0	
-52.0	CARBONDALE	HERRIN	COAL	-	540.0	
-127.0	CARBONDALE	SPRINGFIELD	COAL	4.0	615.0	
-237.0	CARBONDALE	HOUCHIN CREEK	COAL	-	725.0	
-312.0	CARBONDALE	COLCHESTER	COAL	-	800.0	
-329.0	SPOON	SEELYVILLE	COAL	4.5	817.0	

MAPID: 10105230000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 7 QUARTERS/FOOTAGES: 1964' N line, 697' W line of SE NE

QUADRANGLE: SUMNER LONGITUDE: -87.78029 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.707062 DATE COLLECTED:

SURFACE ELEVATION (FT.): 509.0 LOGGED (FT.): 793.5 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
159.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	350.0
29.0	CARBONDALE	DANVILLE	COAL	2.0	480.0
2.0	CARBONDALE	JAMESTOWN	COAL	-	507.0
-4.0	CARBONDALE	HERRIN	COAL	-	513.0
-77.0	CARBONDALE	SPRINGFIELD	COAL	3.5	586.0
-183.0	CARBONDALE	HOUCHIN CREEK	COAL	-	692.0
-261.0	CARBONDALE	COLCHESTER	COAL	-	770.0
-281.0	SPOON	SEELYVILLE	COAL	3.5	790.0

MAPID: 10105543000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 7 QUARTERS/FOOTAGES: 10' S line, 10' E line of NE NW

QUADRANGLE: SUMNER LONGITUDE: -87.787469 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.712464 DATE COLLECTED:

SURFACE ELEVATION (FT.): 512.0 LOGGED (FT.): 826.0 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
139.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	373.0
4.0	CARBONDALE	DANVILLE	COAL	2.0	508.0
-28.0	CARBONDALE	JAMESTOWN	COAL	-	540.0
-33.0	CARBONDALE	HERRIN	COAL	-	545.0
-105.0	CARBONDALE	SPRINGFIELD	COAL	3.5	617.0
-208.0	CARBONDALE	HOUCHIN CREEK	COAL	-	720.0
-292.0	CARBONDALE	COLCHESTER	COAL	-	804.0
-310.0	SPOON	SEELYVILLE	COAL	4.0	822.0

MAPID: 10100809000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 8 QUARTERS/FOOTAGES: 240' S line, 195' E line of SE

QUADRANGLE: SUMNER LONGITUDE: -87.760063 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.702298 DATE COLLECTED:

SURFACE ELEVATION (FT.): 442.0 LOGGED (FT.): 729.5 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
141.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	301.0
12.0	CARBONDALE	DANVILLE	COAL	3.0	430.0
-17.0	CARBONDALE	JAMESTOWN	COAL	-	459.0
-23.0	CARBONDALE	HERRIN	COAL	-	465.0
-93.0	CARBONDALE	SPRINGFIELD	COAL	4.0	535.0
-197.0	CARBONDALE	HOUCHIN CREEK	COAL	-	639.0
-273.0	CARBONDALE	COLCHESTER	COAL	-	715.0
-285.0	SPOON	SEELYVILLE	COAL	2.5	727.0

MAPID: 10101502000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 8 QUARTERS/FOOTAGES: 204' S line, 215' E line of NE SW

QUADRANGLE: SUMNER LONGITUDE: -87.769439 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.705802 DATE COLLECTED:

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 710.0 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
165.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	285.0
34.0	CARBONDALE	DANVILLE	COAL	3.0	416.0
7.0	CARBONDALE	JAMESTOWN	COAL	-	443.0
-71.0	CARBONDALE	SPRINGFIELD	COAL	3.5	521.0
-168.0	CARBONDALE	HOUCHIN CREEK	COAL	-	618.0
-245.0	CARBONDALE	COLCHESTER	COAL	-	695.0
-257.0	SPOON	SEELYVILLE	COAL	3.0	707.0

MAPID: 10101769000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 8 QUARTERS/FOOTAGES: 458' N line, 330' E line of NW SE NW

QUADRANGLE: SUMNER LONGITUDE: -87.772149 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.711296 DATE COLLECTED:

SURFACE ELEVATION (FT.): 466.0 LOGGED (FT.): 726.5 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
179.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	287.0
49.0	CARBONDALE	DANVILLE	COAL	3.0	417.0
21.0	CARBONDALE	JAMESTOWN	COAL	-	445.0
14.0	CARBONDALE	HERRIN	COAL	-	452.0
-57.0	CARBONDALE	SPRINGFIELD	COAL	3.5	523.0
-164.0	CARBONDALE	HOUCHIN CREEK	COAL	-	630.0
-237.0	CARBONDALE	COLCHESTER	COAL	-	703.0
-257.0	SPOON	SEELYVILLE	COAL	3.5	723.0

MAPID: 10103846000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 8 QUARTERS/FOOTAGES: 55' N line, 668' E line

QUADRANGLE: SUMNER LONGITUDE: -87.761675 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.716203 DATE COLLECTED:

SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 729.5 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
184.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	296.0
53.0	CARBONDALE	DANVILLE	COAL	3.0	427.0
22.0	CARBONDALE	JAMESTOWN	COAL	3.5	458.0
16.0	CARBONDALE	HERRIN	COAL	-	464.0
-50.0	CARBONDALE	SPRINGFIELD	COAL	3.5	530.0
-138.0	CARBONDALE	HOUCHIN CREEK	COAL	-	618.0
-228.0	CARBONDALE	COLCHESTER	COAL	-	708.0
-246.0	SPOON	SEELYVILLE	COAL	3.5	726.0

MAPID: 10100729000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 9 QUARTERS/FOOTAGES: 360' N line, 100' W line of SW

QUADRANGLE: SUMNER LONGITUDE: -87.759003 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.70802 DATE COLLECTED:

SURFACE ELEVATION (FT.): 442.0 LOGGED (FT.): 732.5 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
145.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	297.0
8.0	CARBONDALE	DANVILLE	COAL	2.5	434.0
-25.0	CARBONDALE	JAMESTOWN	COAL	-	467.0
-28.0	CARBONDALE	HERRIN	COAL	-	470.0
-98.0	CARBONDALE	SPRINGFIELD	COAL	3.5	540.0
-198.0	CARBONDALE	HOUCHIN CREEK	COAL	-	640.0
-278.0	CARBONDALE	COLCHESTER	COAL	-	720.0
-288.0	SPOON	SEELYVILLE	COAL	2.5	730.0

MAPID: 10100853000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 9 QUARTERS/FOOTAGES: 22' S line, 170' W line of SE NW

QUADRANGLE: SUMNER LONGITUDE: -87.754067 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.709119 DATE COLLECTED:

SURFACE ELEVATION (FT.): 459.0 LOGGED (FT.): 801.0 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
115.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	344.0
-22.0	CARBONDALE	DANVILLE	COAL	3.5	481.0
-55.0	CARBONDALE	JAMESTOWN	COAL	-	514.0
-61.0	CARBONDALE	HERRIN	COAL	-	520.0
-132.0	CARBONDALE	SPRINGFIELD	COAL	-	591.0
-231.0	CARBONDALE	HOUCHIN CREEK	COAL	-	690.0
-321.0	CARBONDALE	COLCHESTER	COAL	-	780.0
-338.0	SPOON	SEELYVILLE	COAL	4.0	797.0

MAPID: 10105535000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 10 QUARTERS/FOOTAGES: 675' S line, 660' E line of SW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.733664 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.703685 DATE COLLECTED:

SURFACE ELEVATION (FT.): 435.0 LOGGED (FT.): 775.0 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
130.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	305.0
-2.0	CARBONDALE	DANVILLE	COAL	2.5	437.0
-35.0	CARBONDALE	JAMESTOWN	COAL	3.0	470.0
-39.0	CARBONDALE	HERRIN	COAL	-	474.0
-118.0	CARBONDALE	SPRINGFIELD	COAL	3.0	553.0
-220.0	CARBONDALE	HOUCHIN CREEK	COAL	-	655.0
-305.0	CARBONDALE	COLCHESTER	COAL	-	740.0
-337.0	SPOON	SEELYVILLE	COAL	3.0	772.0

MAPID: 10101735000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 11 QUARTERS/FOOTAGES: SW SW NE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.711538 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.710523 DATE COLLECTED:

SURFACE ELEVATION (FT.): 437.0 LOGGED (FT.): 745.0 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
162.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	275.0
25.0	CARBONDALE	DANVILLE	COAL	3.5	412.0
-9.0	CARBONDALE	JAMESTOWN	COAL	-	446.0
-13.0	CARBONDALE	HERRIN	COAL	-	450.0
-81.0	CARBONDALE	SPRINGFIELD	COAL	2.5	518.0
-177.0	CARBONDALE	HOUCHIN CREEK	COAL	-	614.0
-280.0	CARBONDALE	COLCHESTER	COAL	-	717.0
-305.0	SPOON	SEELYVILLE	COAL	3.0	742.0

MAPID: 1010225000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 11 QUARTERS/FOOTAGES: NE NE NW
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.71389 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.716084 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 766.0 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
153.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	322.0
23.0	CARBONDALE	DANVILLE	COAL	2.5	452.0
-8.0	CARBONDALE	JAMESTOWN	COAL	-	483.0
-14.0	CARBONDALE	HERRIN	COAL	-	489.0
-79.0	CARBONDALE	SPRINGFIELD	COAL	4.0	554.0
-175.0	CARBONDALE	HOUCHIN CREEK	COAL	-	650.0
-265.0	CARBONDALE	COLCHESTER	COAL	-	740.0
-287.0	SPOON	SEELYVILLE	COAL	4.0	762.0

MAPID: 10105913000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 11 QUARTERS/FOOTAGES: 2096' N line, 660' W line of NW
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.719686 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.711109 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 432.0 LOGGED (FT.): 749.5 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
150.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	282.0
18.0	CARBONDALE	DANVILLE	COAL	3.0	414.0
-27.0	CARBONDALE	JAMESTOWN	COAL	-	459.0
-93.0	CARBONDALE	SPRINGFIELD	COAL	4.0	525.0
-199.0	CARBONDALE	HOUCHIN CREEK	COAL	-	631.0
-288.0	CARBONDALE	COLCHESTER	COAL	-	720.0
-314.0	SPOON	SEELYVILLE	COAL	3.5	746.0

MAPID: 10102413000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 12 QUARTERS/FOOTAGES: 448' S line, 1226' W line of SE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.689769 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.703461 DATE COLLECTED:

SURFACE ELEVATION (FT.): 436.0 LOGGED (FT.): 690.0 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
182.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	254.0
41.0	CARBONDALE	DANVILLE	COAL	3.0	395.0
16.0	CARBONDALE	JAMESTOWN	COAL	-	420.0
-52.0	CARBONDALE	SPRINGFIELD	COAL	-	488.0
-134.0	CARBONDALE	HOUCHIN CREEK	COAL	-	570.0
-254.0	CARBONDALE	COLCHESTER	COAL	-	690.0

MAPID: 10100503000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 13 QUARTERS/FOOTAGES: SE SE SW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.695341 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.688419 DATE COLLECTED:

SURFACE ELEVATION (FT.): 458.0 LOGGED (FT.): 720.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	318.0
12.0	CARBONDALE	DANVILLE	COAL	2.5	446.0
-11.0	CARBONDALE	JAMESTOWN	COAL	-	469.0
-17.0	CARBONDALE	HERRIN	COAL	-	475.0
-85.0	CARBONDALE	SPRINGFIELD	COAL	3.0	543.0
-167.0	CARBONDALE	HOUCHIN CREEK	COAL	-	625.0
-262.0	CARBONDALE	COLCHESTER	COAL	-	720.0

MAPID: 10103929000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 13 QUARTERS/FOOTAGES: NE NE SE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.686025 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.693987 DATE COLLECTED:

SURFACE ELEVATION (FT.): 435.0 LOGGED (FT.): 698.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	283.0
17.0	CARBONDALE	DANVILLE	COAL	3.0	418.0
-5.0	CARBONDALE	JAMESTOWN	COAL	3.5	440.0
-10.0	CARBONDALE	HERRIN	COAL	-	445.0
-76.0	CARBONDALE	SPRINGFIELD	COAL	3.0	511.0
-160.0	CARBONDALE	HOUCHIN CREEK	COAL	-	595.0
-263.0	CARBONDALE	COLCHESTER	COAL	-	698.0

MAPID: 10103932000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 13 QUARTERS/FOOTAGES: 660' S line, 30' W line of NW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.703265 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.696624 DATE COLLECTED:

SURFACE ELEVATION (FT.): 438.0 LOGGED (FT.): 564.0 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
180.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	258.0
65.0	CARBONDALE	DANVILLE	COAL	2.5	373.0
41.0	CARBONDALE	JAMESTOWN	COAL	-	397.0
36.0	CARBONDALE	HERRIN	COAL	-	402.0
-38.0	CARBONDALE	SPRINGFIELD	COAL	3.0	476.0
-126.0	CARBONDALE	HOUCHIN CREEK	COAL	-	564.0

MAPID: 10100496000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 14 QUARTERS/FOOTAGES: 660' S line, 660' W line

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.719869 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.689127 DATE COLLECTED:

SURFACE ELEVATION (FT.): 470.0 LOGGED (FT.): 723.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	298.0
46.0	CARBONDALE	DANVILLE	COAL	3.0	424.0
15.0	CARBONDALE	JAMESTOWN	COAL	2.0	455.0
11.0	CARBONDALE	HERRIN	COAL	-	459.0
-58.0	CARBONDALE	SPRINGFIELD	COAL	3.0	528.0
-148.0	CARBONDALE	HOUCHIN CREEK	COAL	-	618.0
-253.0	CARBONDALE	COLCHESTER	COAL	-	723.0

MAPID: 10103937000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 14 QUARTERS/FOOTAGES: 1320' S line, 20' E line of NE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.703413 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.698443 DATE COLLECTED:

SURFACE ELEVATION (FT.): 438.0 LOGGED (FT.): 725.0 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
191.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	247.0
69.0	CARBONDALE	DANVILLE	COAL	3.0	369.0
42.0	CARBONDALE	JAMESTOWN	COAL	-	396.0
37.0	CARBONDALE	HERRIN	COAL	-	401.0
-35.0	CARBONDALE	SPRINGFIELD	COAL	3.5	473.0
-122.0	CARBONDALE	HOUCHIN CREEK	COAL	-	560.0
-238.0	CARBONDALE	COLCHESTER	COAL	-	676.0
-285.0	SPOON	SEELYVILLE	COAL	2.0	723.0

MAPID: 10103947000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 15 QUARTERS/FOOTAGES: 400' S line, 450' W line of NE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.729825 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.69566 DATE COLLECTED:

SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 686.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	270.0
34.0	CARBONDALE	DANVILLE	COAL	-	396.0
2.0	CARBONDALE	JAMESTOWN	COAL	-	428.0
-2.0	CARBONDALE	HERRIN	COAL	-	432.0
-78.0	CARBONDALE	SPRINGFIELD	COAL	3.5	508.0
-178.0	CARBONDALE	HOUCHIN CREEK	COAL	-	608.0
-256.0	CARBONDALE	COLCHESTER	COAL	-	686.0

MAPID: 10106060000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 15 QUARTERS/FOOTAGES: 330' S line, 660' W line of NW SW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.738425 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.691702 DATE COLLECTED:

SURFACE ELEVATION (FT.): 472.0 LOGGED (FT.): 732.0 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
163.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	309.0
30.0	CARBONDALE	DANVILLE	COAL	3.0	442.0
0.0	CARBONDALE	JAMESTOWN	COAL	4.0	472.0
-7.0	CARBONDALE	HERRIN	COAL	1.5	479.0
-83.0	CARBONDALE	SPRINGFIELD	COAL	3.0	555.0
-179.0	CARBONDALE	HOUCHIN CREEK	COAL	-	651.0
-260.0	CARBONDALE	COLCHESTER	COAL	-	732.0

MAPID: 10106371000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 15 QUARTERS/FOOTAGES: 990' N line, 660' W line of NW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.738371 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.699008 DATE COLLECTED:

SURFACE ELEVATION (FT.): 437.0 LOGGED (FT.): 714.0 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
18.0	CARBONDALE	DANVILLE	COAL	2.5	419.0
-12.0	CARBONDALE	JAMESTOWN	COAL	4.0	449.0
-18.0	CARBONDALE	HERRIN	COAL	1.5	455.0
-98.0	CARBONDALE	SPRINGFIELD	COAL	2.5	535.0
-200.0	CARBONDALE	HOUCHIN CREEK	COAL	-	637.0
-277.0	CARBONDALE	COLCHESTER	COAL	-	714.0

MAPID: 10128044000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 16 QUARTERS/FOOTAGES: 660' N line, 660' W line of SE SW

QUADRANGLE: SUMNER LONGITUDE: -87.752461 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.688852 DATE COLLECTED:

SURFACE ELEVATION (FT.): 469.0 LOGGED (FT.): 753.0 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
-5.0	CARBONDALE	DANVILLE	COAL	3.0	474.0
-36.0	CARBONDALE	JAMESTOWN	COAL	4.0	505.0
-42.0	CARBONDALE	HERRIN	COAL	-	511.0
-110.0	CARBONDALE	SPRINGFIELD	COAL	2.5	579.0
-203.0	CARBONDALE	HOUCHIN CREEK	COAL	-	672.0
-284.0	CARBONDALE	COLCHESTER	COAL	-	753.0

MAPID: 10128059000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 16 QUARTERS/FOOTAGES: 660' S line, 660' E line of SE NW

QUADRANGLE: SUMNER LONGITUDE: -87.752391 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.696158 DATE COLLECTED:

SURFACE ELEVATION (FT.): 477.0 LOGGED (FT.): 766.0 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
126.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	351.0
-8.0	CARBONDALE	DANVILLE	COAL	3.5	485.0
-36.0	CARBONDALE	JAMESTOWN	COAL	4.0	513.0
-43.0	CARBONDALE	HERRIN	COAL	1.5	520.0
-116.0	CARBONDALE	SPRINGFIELD	COAL	3.0	593.0
-214.0	CARBONDALE	HOUCHIN CREEK	COAL	-	691.0
-289.0	CARBONDALE	COLCHESTER	COAL	-	766.0

MAPID: 10128217000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 16 QUARTERS/FOOTAGES: 75' S line, 55' W line of NW

QUADRANGLE: SUMNER LONGITUDE: -87.759232 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.694502 DATE COLLECTED:

SURFACE ELEVATION (FT.): 500.0 LOGGED (FT.): 760.0 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
17.0	CARBONDALE	DANVILLE	COAL	3.0	483.0
-12.0	CARBONDALE	JAMESTOWN	COAL	4.0	512.0
-20.0	CARBONDALE	HERRIN	COAL	-	520.0
-82.0	CARBONDALE	SPRINGFIELD	COAL	3.5	582.0
-184.0	CARBONDALE	HOUCHIN CREEK	COAL	-	684.0
-260.0	CARBONDALE	COLCHESTER	COAL	-	760.0

MAPID: 10128194000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 17 QUARTERS/FOOTAGES: 660' S line, 660' E line of NE

QUADRANGLE: SUMNER LONGITUDE: -87.76174 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.696097 DATE COLLECTED:

SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 763.0 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
165.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	315.0
33.0	CARBONDALE	DANVILLE	COAL	3.0	447.0
3.0	CARBONDALE	JAMESTOWN	COAL	3.5	477.0
-3.0	CARBONDALE	HERRIN	COAL	-	483.0
-71.0	CARBONDALE	SPRINGFIELD	COAL	3.0	551.0
-171.0	CARBONDALE	HOUCHIN CREEK	COAL	-	651.0
-241.0	CARBONDALE	COLCHESTER	COAL	-	721.0
-280.0	SPOON	SEELYVILLE	COAL	3.0	760.0

MAPID: 10128205000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 17 QUARTERS/FOOTAGES: 1155' S line, 1282' W line of SE NW

QUADRANGLE: SUMNER LONGITUDE: -87.768854 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.697407 DATE COLLECTED:

SURFACE ELEVATION (FT.): 466.0 LOGGED (FT.): 734.5 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
35.0	CARBONDALE	DANVILLE	COAL	3.0	431.0
8.0	CARBONDALE	JAMESTOWN	COAL	3.5	458.0
2.0	CARBONDALE	HERRIN	COAL	-	464.0
-71.0	CARBONDALE	SPRINGFIELD	COAL	3.0	537.0
-177.0	CARBONDALE	HOUCHIN CREEK	COAL	-	643.0
-248.0	CARBONDALE	COLCHESTER	COAL	-	714.0
-266.0	SPOON	SEELYVILLE	COAL	2.5	732.0

MAPID: 10128220000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 17 QUARTERS/FOOTAGES: SW

QUADRANGLE: SUMNER LONGITUDE: -87.77338 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.690508 DATE COLLECTED:

SURFACE ELEVATION (FT.): 506.0 LOGGED (FT.): 760.0 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
151.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	355.0
21.0	CARBONDALE	DANVILLE	COAL	3.5	485.0
-7.0	CARBONDALE	JAMESTOWN	COAL	3.5	513.0
-14.0	CARBONDALE	HERRIN	COAL	1.5	520.0
-85.0	CARBONDALE	SPRINGFIELD	COAL	3.5	591.0
-194.0	CARBONDALE	HOUCHIN CREEK	COAL	-	700.0
-254.0	CARBONDALE	COLCHESTER	COAL	-	760.0

MAPID: 10128221000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: SUMNER LONGITUDE: -87.768723 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.694221 DATE COLLECTED:

SURFACE ELEVATION (FT.): 482.0 LOGGED (FT.): 763.0 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
166.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	316.0
36.0	CARBONDALE	DANVILLE	COAL	3.0	446.0
9.0	CARBONDALE	JAMESTOWN	COAL	3.5	473.0
2.0	CARBONDALE	HERRIN	COAL	1.5	480.0
-67.0	CARBONDALE	SPRINGFIELD	COAL	3.0	549.0
-173.0	CARBONDALE	HOUCHIN CREEK	COAL	-	655.0
-238.0	CARBONDALE	COLCHESTER	COAL	-	720.0
-278.0	SPOON	SEELYVILLE	COAL	3.0	760.0

MAPID: 10100008000C VERSION: 2

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 3N 12W

SECTION: 18

QUARTERS/FOOTAGES: SW NW NW

QUADRANGLE: SUMNER

LONGITUDE: -87.795926

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.698664

DATE COLLECTED:

SURFACE ELEVATION (FT.): 500.0

LOGGED (FT.): 873.5

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
69.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	431.0
-66.0	CARBONDALE	DANVILLE	COAL	2.5	566.0
-98.0	CARBONDALE	JAMESTOWN	COAL	-	598.0
-180.0	CARBONDALE	SPRINGFIELD	COAL	3.0	680.0
-285.0	CARBONDALE	HOUCHIN CREEK	COAL	-	785.0
-360.0	CARBONDALE	COLCHESTER	COAL	-	860.0
-370.0	SPOON	SEELYVILLE	COAL	3.5	870.0

MAPID: 10100008000C VERSION: 3

PROJECT: CONTROL

COUNTY: LAWRENCE

TWP/RNG: 3N 12W

SECTION: 18

QUARTERS/FOOTAGES: SW NW NW

QUADRANGLE: SUMNER

LONGITUDE: -87.795926

GEOLOGIST: HINES

CONFIDENTIAL: N

LATITUDE: 38.698664

DATE COLLECTED:

SURFACE ELEVATION (FT.):

LOGGED (FT.): 2135.0

LOG TYPE: Survey Sample Study

SOURCE: BEARS, W. 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: 10100471000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 18 QUARTERS/FOOTAGES: SE NW SW

QUADRANGLE: SUMNER LONGITUDE: -87.793584 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.691276 DATE COLLECTED:

SURFACE ELEVATION (FT.): 517.0 LOGGED (FT.): 907.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
66.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	451.0
-64.0	CARBONDALE	DANVILLE	COAL	2.5	581.0
-93.0	CARBONDALE	JAMESTOWN	COAL	3.0	610.0
-98.0	CARBONDALE	HERRIN	COAL	-	615.0
-182.0	CARBONDALE	SPRINGFIELD	COAL	3.0	699.0
-297.0	CARBONDALE	HOUCHIN CREEK	COAL	-	814.0
-361.0	CARBONDALE	COLCHESTER	COAL	-	878.0
-387.0	SPOON	SEELYVILLE	COAL	3.0	904.0

MAPID: 10100733000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 18 QUARTERS/FOOTAGES: NE SE NW

QUADRANGLE: SUMNER LONGITUDE: -87.788771 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.696849 DATE COLLECTED:

SURFACE ELEVATION (FT.): 501.0 LOGGED (FT.): 856.0 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
91.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	410.0
-42.0	CARBONDALE	DANVILLE	COAL	3.0	543.0
-74.0	CARBONDALE	JAMESTOWN	COAL	-	575.0
-155.0	CARBONDALE	SPRINGFIELD	COAL	3.5	656.0
-267.0	CARBONDALE	HOUCHIN CREEK	COAL	-	768.0
-341.0	CARBONDALE	COLCHESTER	COAL	-	842.0
-353.0	SPOON	SEELYVILLE	COAL	2.0	854.0

MAPID: 10100051000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: LAWRENCE **TWP/RNG:** 3N 12W **SECTION:** 19 **QUARTERS/FOOTAGES:** SW SW NW
QUADRANGLE: SUMNER **LONGITUDE:** -87.796027 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.680331 **DATE COLLECTED:** 3 / 0 / 1946
SURFACE ELEVATION (FT.): 459.0 **LOGGED (FT.):** 852.9 **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	
373.0			COAL	1.1	86.0	
320.7			COAL	0.5	138.3	
310.4			COAL	0.0	148.6	
286.3			COAL	0.7	172.7	
263.5			COAL	0.2	195.5	
178.5			COAL	0.6	280.5	
77.8			COAL	0.8	381.2	
2.1			COAL	2.0	456.9	
-65.8	SHELburn	DANVILLE	COAL	2.8	524.8	
-83.8	SHELburn	JAMESTOWN	COAL	3.3	542.8	
-90.1	CARBONDALE	HERRIN	COAL	3.5	549.1	
-157.0	CARBONDALE	SPRINGFIELD	COAL	3.3	616.0	
-277.6	CARBONDALE	HOUCHIN CREEK	COAL	0.8	736.6	
-294.7	CARBONDALE	SURVANT	COAL	1.6	753.7	SPLIT
-301.0	CARBONDALE	SURVANT	COAL	2.7	760.0	SPLIT
-308.7			COAL	0.3	767.7	
-353.8	CARBONDALE	COLCHESTER	COAL	0.8	812.8	
-370.9	CARBONDALE	SEELYVILLE	COAL	2.3	829.9	SPLIT
-381.5	CARBONDALE	SEELYVILLE	COAL	4.4	840.5	SPLIT

MAPID: 10100468000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 3N 12W **SECTION:** 19 **QUARTERS/FOOTAGES:** NE NE SW
QUADRANGLE: SUMNER **LONGITUDE:** -87.78889 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.678558 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 478.0 **LOGGED (FT.):** 819.0 **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	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	396.0	
-55.0	CARBONDALE	DANVILLE	COAL	3.0	533.0	
-80.0	CARBONDALE	JAMESTOWN	COAL	-	558.0	
-168.0	CARBONDALE	SPRINGFIELD	COAL	3.0	646.0	
-276.0	CARBONDALE	HOUCHIN CREEK	COAL	-	754.0	
-341.0	CARBONDALE	COLCHESTER	COAL	-	819.0	

MAPID: 10103989000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 19 QUARTERS/FOOTAGES: SW SE SW
 QUADRANGLE: SUMNER LONGITUDE: -87.79131 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.673132 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 478.0 LOGGED (FT.): 921.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	426.0
-86.0	CARBONDALE	DANVILLE	COAL	-	564.0
-115.0	CARBONDALE	JAMESTOWN	COAL	-	593.0
-200.0	CARBONDALE	SPRINGFIELD	COAL	3.0	678.0
-304.0	CARBONDALE	HOUCHIN CREEK	COAL	-	782.0
-382.0	CARBONDALE	COLCHESTER	COAL	-	860.0
-441.0	SPOON	SEELYVILLE	COAL	2.0	919.0

MAPID: 10100466000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 20 QUARTERS/FOOTAGES: NE SE SE
 QUADRANGLE: SUMNER LONGITUDE: -87.760739 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.675057 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 478.0 LOGGED (FT.): 812.0 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
94.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	384.0
-42.0	CARBONDALE	DANVILLE	COAL	3.5	520.0
-74.0	CARBONDALE	JAMESTOWN	COAL	-	552.0
-150.0	CARBONDALE	SPRINGFIELD	COAL	3.0	628.0
-252.0	CARBONDALE	HOUCHIN CREEK	COAL	-	730.0
-334.0	CARBONDALE	COLCHESTER	COAL	-	812.0

MAPID: 10100467000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 3N 12W

SECTION: 20

QUARTERS/FOOTAGES: SE SW SW

QUADRANGLE: SUMNER

LONGITUDE: -87.774776

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.673146

DATE COLLECTED:

SURFACE ELEVATION (FT.): 499.0

LOGGED (FT.): 828.0

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
84.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	415.0
-50.0	CARBONDALE	DANVILLE	COAL	2.5	549.0
-78.0	CARBONDALE	JAMESTOWN	COAL	-	577.0
-151.0	CARBONDALE	SPRINGFIELD	COAL	4.0	650.0
-256.0	CARBONDALE	HOUCHIN CREEK	COAL	-	755.0
-329.0	CARBONDALE	COLCHESTER	COAL	-	828.0

MAPID: 10104003000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 3N 12W

SECTION: 20

QUARTERS/FOOTAGES: 330' N line, 10' W line of SW SW NE

QUADRANGLE: SUMNER

LONGITUDE: -87.7688

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.680485

DATE COLLECTED:

SURFACE ELEVATION (FT.): 493.0

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.)	
				UNIT	OVERBURDEN COMMENT
125.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	368.0
-6.0	CARBONDALE	DANVILLE	COAL	2.0	499.0
-31.0	CARBONDALE	JAMESTOWN	COAL	-	524.0
-115.0	CARBONDALE	SPRINGFIELD	COAL	3.5	608.0
-222.0	CARBONDALE	HOUCHIN CREEK	COAL	-	715.0
-289.0	CARBONDALE	COLCHESTER	COAL	-	782.0
-344.0	SPOON	SEELYVILLE	COAL	-	837.0

MAPID: 10100499000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 21 QUARTERS/FOOTAGES: NE SW NE
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.746653 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.68248 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 493.0 LOGGED (FT.): 821.5 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
142.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	351.0
9.0	CARBONDALE	DANVILLE	COAL	3.0	484.0
-22.0	CARBONDALE	JAMESTOWN	COAL	-	515.0
-99.0	CARBONDALE	SPRINGFIELD	COAL	3.5	592.0
-200.0	CARBONDALE	HOUCHIN CREEK	COAL	-	693.0
-280.0	CARBONDALE	COLCHESTER	COAL	-	773.0
-326.0	SPOON	SEELYVILLE	COAL	2.5	819.0

MAPID: 10101725000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 21 QUARTERS/FOOTAGES: SW SW SE
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.749053 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.673296 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 494.0 LOGGED (FT.): 820.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	388.0
-24.0	CARBONDALE	DANVILLE	COAL	2.5	518.0
-61.0	CARBONDALE	JAMESTOWN	COAL	-	555.0
-67.0	CARBONDALE	HERRIN	COAL	-	561.0
-136.0	CARBONDALE	SPRINGFIELD	COAL	4.0	630.0
-236.0	CARBONDALE	HOUCHIN CREEK	COAL	-	730.0
-326.0	CARBONDALE	COLCHESTER	COAL	-	820.0

MAPID: 10102874000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 21 QUARTERS/FOOTAGES: 10' S line, 10' W line of NW NW NE

QUADRANGLE: SUMNER LONGITUDE: -87.750105 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.68523 DATE COLLECTED:

SURFACE ELEVATION (FT.): 482.0 LOGGED (FT.): 743.0 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
149.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	333.0
19.0	CARBONDALE	DANVILLE	COAL	3.0	463.0
-9.0	CARBONDALE	JAMESTOWN	COAL	-	491.0
-90.0	CARBONDALE	SPRINGFIELD	COAL	3.0	572.0
-183.0	CARBONDALE	HOUCHIN CREEK	COAL	-	665.0
-261.0	CARBONDALE	COLCHESTER	COAL	-	743.0

MAPID: 10100480000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 22 QUARTERS/FOOTAGES: 330' N line, 660' W line of SW SW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.738523 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.67521 DATE COLLECTED:

SURFACE ELEVATION (FT.): 490.0 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
159.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	331.0
30.0	CARBONDALE	DANVILLE	COAL	2.0	460.0
1.0	CARBONDALE	JAMESTOWN	COAL	-	489.0
-6.0	CARBONDALE	HERRIN	COAL	-	496.0
-75.0	CARBONDALE	SPRINGFIELD	COAL	3.0	565.0
-182.0	CARBONDALE	HOUCHIN CREEK	COAL	-	672.0
-269.0	CARBONDALE	COLCHESTER	COAL	-	759.0
-305.0	SPOON	SEELYVILLE	COAL	3.0	795.0

MAPID: 10100693000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 22 QUARTERS/FOOTAGES: NE SW NE
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.728006 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.682649 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 488.0 LOGGED (FT.): 778.0 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
173.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	315.0
42.0	CARBONDALE	DANVILLE	COAL	3.0	446.0
12.0	CARBONDALE	JAMESTOWN	COAL	4.0	476.0
6.0	CARBONDALE	HERRIN	COAL	-	482.0
-64.0	CARBONDALE	SPRINGFIELD	COAL	-	552.0
-149.0	CARBONDALE	HOUCHIN CREEK	COAL	-	637.0
-262.0	CARBONDALE	COLCHESTER	COAL	-	750.0
-287.0	SPOON	SEELYVILLE	COAL	3.0	775.0

MAPID: 10101773000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 22 QUARTERS/FOOTAGES: 470' S line, 330' E line of NE SE
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.723317 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.677571 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 465.0 LOGGED (FT.): 710.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	275.0
63.0	CARBONDALE	DANVILLE	COAL	2.0	402.0
36.0	CARBONDALE	JAMESTOWN	COAL	-	429.0
31.0	CARBONDALE	HERRIN	COAL	-	434.0
-40.0	CARBONDALE	SPRINGFIELD	COAL	3.5	505.0
-119.0	CARBONDALE	HOUCHIN CREEK	COAL	-	584.0
-225.0	CARBONDALE	COLCHESTER	COAL	-	690.0
-245.0	SPOON	SEELYVILLE	COAL	-	710.0

MAPID: 10102278000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 24 QUARTERS/FOOTAGES: NW SE NW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.697673 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.682877 DATE COLLECTED:

SURFACE ELEVATION (FT.): 467.0 LOGGED (FT.): 780.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	313.0
26.0	CARBONDALE	DANVILLE	COAL	3.0	441.0
13.0	CARBONDALE	JAMESTOWN	COAL	-	454.0
7.0	CARBONDALE	HERRIN	COAL	-	460.0
-69.0	CARBONDALE	SPRINGFIELD	COAL	3.5	536.0
-153.0	CARBONDALE	HOUCHIN CREEK	COAL	-	620.0
-255.0	CARBONDALE	COLCHESTER	COAL	-	722.0
-311.0	SPOON	SEELYVILLE	COAL	2.0	778.0

MAPID: 10102465000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 24 QUARTERS/FOOTAGES: 990' S line, 340' E line of SW SW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.700015 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.675488 DATE COLLECTED:

SURFACE ELEVATION (FT.): 509.0 LOGGED (FT.): 803.0 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
159.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	350.0
31.0	CARBONDALE	DANVILLE	COAL	3.0	478.0
9.0	CARBONDALE	JAMESTOWN	COAL	3.5	500.0
2.0	CARBONDALE	HERRIN	COAL	-	507.0
-64.0	CARBONDALE	SPRINGFIELD	COAL	3.5	573.0
-151.0	CARBONDALE	HOUCHIN CREEK	COAL	-	660.0
-248.0	CARBONDALE	COLCHESTER	COAL	-	757.0
-291.0	SPOON	SEELYVILLE	COAL	3.0	800.0

MAPID: 10102598000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 24 QUARTERS/FOOTAGES: NW NW SE
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.69301 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.679196 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 501.0 LOGGED (FT.): 800.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	351.0
25.0	CARBONDALE	DANVILLE	COAL	3.5	476.0
2.0	CARBONDALE	JAMESTOWN	COAL	-	499.0
-4.0	CARBONDALE	HERRIN	COAL	-	505.0
-73.0	CARBONDALE	SPRINGFIELD	COAL	3.5	574.0
-162.0	CARBONDALE	HOUCHIN CREEK	COAL	-	663.0
-264.0	CARBONDALE	COLCHESTER	COAL	-	765.0
-299.0	SPOON	SEELYVILLE	COAL	-	800.0

MAPID: 10102266000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 25 QUARTERS/FOOTAGES: SW SW NW
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.702377 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.666377 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 507.0 LOGGED (FT.): 812.5 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
146.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	361.0
17.0	CARBONDALE	DANVILLE	COAL	3.5	490.0
-8.0	CARBONDALE	JAMESTOWN	COAL	-	515.0
-13.0	CARBONDALE	HERRIN	COAL	-	520.0
-81.0	CARBONDALE	SPRINGFIELD	COAL	4.0	588.0
-169.0	CARBONDALE	HOUCHIN CREEK	COAL	-	676.0
-276.0	CARBONDALE	COLCHESTER	COAL	-	783.0
-302.0	SPOON	SEELYVILLE	COAL	3.5	809.0

MAPID: 1010580000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 25 QUARTERS/FOOTAGES: NE SW NE
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.690695 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.668133 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 466.0 LOGGED (FT.): 755.0 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
164.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	302.0
29.0	CARBONDALE	DANVILLE	COAL	4.0	437.0
5.0	CARBONDALE	JAMESTOWN	COAL	-	461.0
1.0	CARBONDALE	HERRIN	COAL	-	465.0
-69.0	CARBONDALE	SPRINGFIELD	COAL	3.5	535.0
-156.0	CARBONDALE	HOUCHIN CREEK	COAL	-	622.0
-264.0	CARBONDALE	COLCHESTER	COAL	-	730.0
-286.0	SPOON	SEELYVILLE	COAL	3.0	752.0

MAPID: 10102519000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 26 QUARTERS/FOOTAGES: NW SE SE
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.707115 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.660867 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 526.0 LOGGED (FT.): 770.0 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
174.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	352.0
43.0	CARBONDALE	DANVILLE	COAL	2.5	483.0
21.0	CARBONDALE	JAMESTOWN	COAL	4.0	505.0
14.0	CARBONDALE	HERRIN	COAL	-	512.0
-55.0	CARBONDALE	SPRINGFIELD	COAL	3.0	581.0
-140.0	CARBONDALE	HOUCHIN CREEK	COAL	-	666.0
-244.0	CARBONDALE	COLCHESTER	COAL	-	770.0

MAPID: 10102903000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 26 QUARTERS/FOOTAGES: 704' N line, 667' W line of NE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.710465 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.670771 DATE COLLECTED:

SURFACE ELEVATION (FT.): 466.0 LOGGED (FT.): 746.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	294.0
38.0	CARBONDALE	DANVILLE	COAL	3.5	428.0
11.0	CARBONDALE	JAMESTOWN	COAL	-	455.0
-62.0	CARBONDALE	SPRINGFIELD	COAL	3.5	528.0
-143.0	CARBONDALE	HOUCHIN CREEK	COAL	-	609.0
-244.0	CARBONDALE	COLCHESTER	COAL	-	710.0
-277.0	SPOON	SEELYVILLE	COAL	3.0	743.0

MAPID: 10100507000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 27 QUARTERS/FOOTAGES: SW SW NW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.739747 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.666023 DATE COLLECTED:

SURFACE ELEVATION (FT.): 506.0 LOGGED (FT.): 833.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	356.0
18.0	CARBONDALE	DANVILLE	COAL	2.5	488.0
-11.0	CARBONDALE	JAMESTOWN	COAL	-	517.0
-82.0	CARBONDALE	SPRINGFIELD	COAL	3.0	588.0
-170.0	CARBONDALE	HOUCHIN CREEK	COAL	-	676.0
-300.0	CARBONDALE	COLCHESTER	COAL	-	806.0
-324.0	SPOON	SEELYVILLE	COAL	3.0	830.0

MAPID: 10101337000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 27 QUARTERS/FOOTAGES: SE SW SW
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.737473 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.658715 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 511.0 LOGGED (FT.): 838.0 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
139.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	372.0
5.0	CARBONDALE	DANVILLE	COAL	3.0	506.0
-20.0	CARBONDALE	JAMESTOWN	COAL	-	531.0
-25.0	CARBONDALE	HERRIN	COAL	-	536.0
-94.0	CARBONDALE	SPRINGFIELD	COAL	3.5	605.0
-179.0	CARBONDALE	HOUCHIN CREEK	COAL	-	690.0
-295.0	CARBONDALE	COLCHESTER	COAL	-	806.0
-324.0	SPOON	SEELYVILLE	COAL	3.0	835.0

MAPID: 10101475000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 27 QUARTERS/FOOTAGES: NW NE NE
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.725649 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.671664 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 467.0 LOGGED (FT.): 734.0 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
187.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	280.0
57.0	CARBONDALE	DANVILLE	COAL	3.5	410.0
31.0	CARBONDALE	JAMESTOWN	COAL	4.0	436.0
25.0	CARBONDALE	HERRIN	COAL	-	442.0
-47.0	CARBONDALE	SPRINGFIELD	COAL	3.5	514.0
-129.0	CARBONDALE	HOUCHIN CREEK	COAL	-	596.0
-233.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-263.0	SPOON	SEELYVILLE	COAL	4.0	730.0

MAPID: 10105525000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 27 QUARTERS/FOOTAGES: 660' N line, 660' W line of SE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.729257 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.663383 DATE COLLECTED:

SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 733.5 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
195.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	285.0
62.0	CARBONDALE	DANVILLE	COAL	3.5	418.0
36.0	CARBONDALE	JAMESTOWN	COAL	4.0	444.0
31.0	CARBONDALE	HERRIN	COAL	-	449.0
-40.0	CARBONDALE	SPRINGFIELD	COAL	3.5	520.0
-123.0	CARBONDALE	HOUCHIN CREEK	COAL	-	603.0
-220.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-251.0	SPOON	SEELYVILLE	COAL	2.5	731.0

MAPID: 10104061000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 28 QUARTERS/FOOTAGES: SE SE NW

QUADRANGLE: SUMNER LONGITUDE: -87.751413 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.665967 DATE COLLECTED:

SURFACE ELEVATION (FT.): 491.0 LOGGED (FT.): 825.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	385.0
-34.0	CARBONDALE	DANVILLE	COAL	2.0	525.0
-60.0	CARBONDALE	JAMESTOWN	COAL	-	551.0
-66.0	CARBONDALE	HERRIN	COAL	-	557.0
-136.0	CARBONDALE	SPRINGFIELD	COAL	3.0	627.0
-231.0	CARBONDALE	HOUCHIN CREEK	COAL	-	722.0
-334.0	CARBONDALE	COLCHESTER	COAL	-	825.0

MAPID: 10101209000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 29 QUARTERS/FOOTAGES: 750' N line, 1100' W line

QUADRANGLE: SUMNER LONGITUDE: -87.774433 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.670167 DATE COLLECTED:

SURFACE ELEVATION (FT.): 491.0 LOGGED (FT.): 823.0 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
76.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	415.0
-61.0	CARBONDALE	DANVILLE	COAL	3.0	552.0
-86.0	CARBONDALE	JAMESTOWN	COAL	-	577.0
-92.0	CARBONDALE	HERRIN	COAL	-	583.0
-159.0	CARBONDALE	SPRINGFIELD	COAL	4.0	650.0
-264.0	CARBONDALE	HOUCHIN CREEK	COAL	-	755.0
-332.0	CARBONDALE	COLCHESTER	COAL	-	823.0

MAPID: 10104076000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 29 QUARTERS/FOOTAGES: 2154' S line, 680' W line of SE

QUADRANGLE: SUMNER LONGITUDE: -87.766558 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.663613 DATE COLLECTED:

SURFACE ELEVATION (FT.): 525.0 LOGGED (FT.): 946.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
56.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	469.0
-86.0	CARBONDALE	DANVILLE	COAL	3.0	611.0
-112.0	CARBONDALE	JAMESTOWN	COAL	-	637.0
-117.0	CARBONDALE	HERRIN	COAL	-	642.0
-187.0	CARBONDALE	SPRINGFIELD	COAL	3.5	712.0
-295.0	CARBONDALE	HOUCHIN CREEK	COAL	-	820.0
-375.0	CARBONDALE	COLCHESTER	COAL	-	900.0
-419.0	SPOON	SEELYVILLE	COAL	2.0	944.0

MAPID: 10100007000C **VERSION:** 2 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 3N 12W **SECTION:** 30 **QUARTERS/FOOTAGES:** NE SW NE
QUADRANGLE: SUMNER **LONGITUDE:** -87.784246 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.66764 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 492.0 **LOGGED (FT.):** 853.0 **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	CARBONDALE	DANVILLE	COAL	3.5	557.0	
-88.0	CARBONDALE	JAMESTOWN	COAL	-	580.0	
-176.0	CARBONDALE	SPRINGFIELD	COAL	4.0	668.0	
-278.0	CARBONDALE	HOUCHIN CREEK	COAL	-	770.0	
-361.0	CARBONDALE	COLCHESTER	COAL	-	853.0	

MAPID: 10100007000C **VERSION:** 3 **PROJECT:** CONTROL
COUNTY: LAWRENCE **TWP/RNG:** 3N 12W **SECTION:** 30 **QUARTERS/FOOTAGES:** NE SW NE
QUADRANGLE: SUMNER **LONGITUDE:** -87.784246 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.66764 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 2120.0 **LOG TYPE:** Survey Sample Study
SOURCE: COMAY OIL CO **WELL TYPE:** Oil and Gas Test
COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 10100461000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 3N 12W **SECTION:** 30 **QUARTERS/FOOTAGES:** NE NW SW
QUADRANGLE: SUMNER **LONGITUDE:** -87.79376 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.663945 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 458.0 **LOGGED (FT.):** 907.5 **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	
31.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	427.0	
-112.0	CARBONDALE	DANVILLE	COAL	2.5	570.0	
-138.0	CARBONDALE	JAMESTOWN	COAL	-	596.0	
-142.0	CARBONDALE	HERRIN	COAL	-	600.0	
-232.0	CARBONDALE	SPRINGFIELD	COAL	3.0	690.0	
-346.0	CARBONDALE	HOUCHIN CREEK	COAL	-	804.0	
-431.0	CARBONDALE	COLCHESTER	COAL	-	889.0	
-447.0	SPOON	SEELYVILLE	COAL	2.5	905.0	

MAPID: 10100463000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 30 QUARTERS/FOOTAGES: NW NW NW
 QUADRANGLE: SUMNER LONGITUDE: -87.796063 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.67131 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 877.0 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
48.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	402.0
-93.0	CARBONDALE	DANVILLE	COAL	3.5	543.0
-120.0	CARBONDALE	JAMESTOWN	COAL	-	570.0
-208.0	CARBONDALE	SPRINGFIELD	COAL	4.0	658.0
-321.0	CARBONDALE	HOUCHIN CREEK	COAL	-	771.0
-393.0	CARBONDALE	COLCHESTER	COAL	-	843.0
-423.0	SPOON	SEELYVILLE	COAL	4.0	873.0

MAPID: 10100472000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 31 QUARTERS/FOOTAGES: SW SE NW
 QUADRANGLE: SUMNER LONGITUDE: -87.791519 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.65107 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 446.0 LOGGED (FT.): 855.0 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
26.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	420.0
-115.0	CARBONDALE	DANVILLE	COAL	3.0	561.0
-139.0	CARBONDALE	JAMESTOWN	COAL	-	585.0
-229.0	CARBONDALE	SPRINGFIELD	COAL	3.5	675.0
-336.0	CARBONDALE	HOUCHIN CREEK	COAL	-	782.0
-409.0	CARBONDALE	COLCHESTER	COAL	-	855.0

MAPID: 10100474000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 31 QUARTERS/FOOTAGES: SW SE NE
 QUADRANGLE: SUMNER LONGITUDE: -87.781971 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.65113 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 447.0 LOGGED (FT.): 736.0 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
49.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	398.0
-90.0	CARBONDALE	DANVILLE	COAL	3.0	537.0
-115.0	CARBONDALE	JAMESTOWN	COAL	-	562.0
-119.0	CARBONDALE	HERRIN	COAL	-	566.0
-196.0	CARBONDALE	SPRINGFIELD	COAL	3.5	643.0
-289.0	CARBONDALE	HOUCHIN CREEK	COAL	-	736.0
-389.0	CARBONDALE	COLCHESTER	COAL	-	836.0

MAPID: 10101390000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 31 QUARTERS/FOOTAGES: SW SE SW
 QUADRANGLE: SUMNER LONGITUDE: -87.791604 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.643701 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 433.0 LOGGED (FT.): 870.0 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
14.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	419.0
-129.0	CARBONDALE	DANVILLE	COAL	2.5	562.0
-152.0	CARBONDALE	JAMESTOWN	COAL	-	585.0
-157.0	CARBONDALE	HERRIN	COAL	-	590.0
-240.0	CARBONDALE	SPRINGFIELD	COAL	-	673.0
-339.0	CARBONDALE	HOUCHIN CREEK	COAL	-	772.0
-437.0	CARBONDALE	COLCHESTER	COAL	-	870.0

MAPID: 10104111000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 31 QUARTERS/FOOTAGES: NE NW NE
 QUADRANGLE: SUMNER LONGITUDE: -87.784314 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.65664 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 447.0 LOGGED (FT.): 834.0 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
35.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	412.0
-104.0	CARBONDALE	DANVILLE	COAL	3.0	551.0
-130.0	CARBONDALE	JAMESTOWN	COAL	-	577.0
-135.0	CARBONDALE	HERRIN	COAL	-	582.0
-211.0	CARBONDALE	SPRINGFIELD	COAL	4.0	658.0
-318.0	CARBONDALE	HOUCHIN CREEK	COAL	-	765.0
-387.0	CARBONDALE	COLCHESTER	COAL	-	834.0

MAPID: 10100475000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 32 QUARTERS/FOOTAGES: NW SE NE
 QUADRANGLE: SUMNER LONGITUDE: -87.763103 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.653071 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 507.0 LOGGED (FT.): 900.0 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
54.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	453.0
-88.0	CARBONDALE	DANVILLE	COAL	2.5	595.0
-114.0	CARBONDALE	JAMESTOWN	COAL	-	621.0
-119.0	CARBONDALE	HERRIN	COAL	-	626.0
-189.0	CARBONDALE	SPRINGFIELD	COAL	3.5	696.0
-278.0	CARBONDALE	HOUCHIN CREEK	COAL	-	785.0
-393.0	CARBONDALE	COLCHESTER	COAL	-	900.0

MAPID: 10100476000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 32 QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: SUMNER LONGITUDE: -87.767795 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.654892 DATE COLLECTED:

SURFACE ELEVATION (FT.): 483.0 LOGGED (FT.): 912.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	436.0
-92.0	CARBONDALE	DANVILLE	COAL	2.5	575.0
-119.0	CARBONDALE	JAMESTOWN	COAL	-	602.0
-123.0	CARBONDALE	HERRIN	COAL	-	606.0
-194.0	CARBONDALE	SPRINGFIELD	COAL	3.0	677.0
-289.0	CARBONDALE	HOUCHIN CREEK	COAL	-	772.0
-387.0	CARBONDALE	COLCHESTER	COAL	-	870.0
-429.0	SPOON	SEELYVILLE	COAL	-	912.0

MAPID: 10100883000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 32 QUARTERS/FOOTAGES: SW NE SW

QUADRANGLE: SUMNER LONGITUDE: -87.772531 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.647491 DATE COLLECTED:

SURFACE ELEVATION (FT.): 469.0 LOGGED (FT.): 860.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
48.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	421.0
-91.0	CARBONDALE	DANVILLE	COAL	2.5	560.0
-118.0	CARBONDALE	JAMESTOWN	COAL	-	587.0
-122.0	CARBONDALE	HERRIN	COAL	-	591.0
-193.0	CARBONDALE	SPRINGFIELD	COAL	3.5	662.0
-281.0	CARBONDALE	HOUCHIN CREEK	COAL	-	750.0
-391.0	CARBONDALE	COLCHESTER	COAL	-	860.0

MAPID: 10100330000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 3N 12W

SECTION: 33

QUARTERS/FOOTAGES: SE NW SW

QUADRANGLE: SUMNER

LONGITUDE: -87.756135

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.647574

DATE COLLECTED:

SURFACE ELEVATION (FT.): 452.0

LOGGED (FT.): 766.0

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
18.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	434.0
-124.0	CARBONDALE	DANVILLE	COAL	2.5	576.0
-152.0	CARBONDALE	JAMESTOWN	COAL	-	604.0
-155.0	CARBONDALE	HERRIN	COAL	-	607.0
-227.0	CARBONDALE	SPRINGFIELD	COAL	4.0	679.0
-314.0	CARBONDALE	HOUCHIN CREEK	COAL	-	766.0

MAPID: 10100481000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 3N 12W

SECTION: 33

QUARTERS/FOOTAGES: SW NE NW

QUADRANGLE: SUMNER

LONGITUDE: -87.753767

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.654966

DATE COLLECTED:

SURFACE ELEVATION (FT.): 449.0

LOGGED (FT.): 725.0

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
55.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	394.0
-85.0	CARBONDALE	DANVILLE	COAL	2.0	534.0
-113.0	CARBONDALE	JAMESTOWN	COAL	-	562.0
-117.0	CARBONDALE	HERRIN	COAL	-	566.0
-190.0	CARBONDALE	SPRINGFIELD	COAL	3.0	639.0
-276.0	CARBONDALE	HOUCHIN CREEK	COAL	-	725.0

MAPID: 10106247000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 34 QUARTERS/FOOTAGES: 5' N line, 94' E line of SE SE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.722674 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.6469 DATE COLLECTED:

SURFACE ELEVATION (FT.): 498.0 LOGGED (FT.): 750.5 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
208.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	290.0
72.0	CARBONDALE	DANVILLE	COAL	3.0	426.0
51.0	CARBONDALE	JAMESTOWN	COAL	3.5	447.0
44.0	CARBONDALE	HERRIN	COAL	-	454.0
-27.0	CARBONDALE	SPRINGFIELD	COAL	3.0	525.0
-114.0	CARBONDALE	HOUCHIN CREEK	COAL	-	612.0
-232.0	CARBONDALE	COLCHESTER	COAL	-	730.0
-248.0	SPOON	SEELYVILLE	COAL	4.5	746.0

MAPID: 10106634000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 34 QUARTERS/FOOTAGES: 10' S line, 1' W line of NE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.731689 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.650544 DATE COLLECTED:

SURFACE ELEVATION (FT.): 513.0 LOGGED (FT.): 778.0 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
199.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	314.0
63.0	CARBONDALE	DANVILLE	COAL	3.0	450.0
40.0	CARBONDALE	JAMESTOWN	COAL	-	473.0
-41.0	CARBONDALE	SPRINGFIELD	COAL	3.0	554.0
-128.0	CARBONDALE	HOUCHIN CREEK	COAL	-	641.0
-236.0	CARBONDALE	COLCHESTER	COAL	-	749.0
-260.0	SPOON	SEELYVILLE	COAL	5.0	773.0

MAPID: 10102074000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 35 QUARTERS/FOOTAGES: NW NE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.710654 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.656241 DATE COLLECTED:

SURFACE ELEVATION (FT.): 464.0 LOGGED (FT.): 722.5 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
184.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	280.0
52.0	CARBONDALE	DANVILLE	COAL	2.0	412.0
31.0	CARBONDALE	JAMESTOWN	COAL	-	433.0
24.0	CARBONDALE	HERRIN	COAL	-	440.0
-46.0	CARBONDALE	SPRINGFIELD	COAL	3.5	510.0
-131.0	CARBONDALE	HOUCHIN CREEK	COAL	-	595.0
-236.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-256.0	SPOON	SEELYVILLE	COAL	2.5	720.0

MAPID: 10104145000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 35 QUARTERS/FOOTAGES: SE SE NW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.714176 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.651601 DATE COLLECTED:

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 736.5 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
194.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	281.0
59.0	CARBONDALE	DANVILLE	COAL	3.0	416.0
37.0	CARBONDALE	JAMESTOWN	COAL	-	438.0
30.0	CARBONDALE	HERRIN	COAL	-	445.0
-41.0	CARBONDALE	SPRINGFIELD	COAL	3.5	516.0
-125.0	CARBONDALE	HOUCHIN CREEK	COAL	-	600.0
-235.0	CARBONDALE	COLCHESTER	COAL	-	710.0
-259.0	SPOON	SEELYVILLE	COAL	2.5	734.0

MAPID: 10107443000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 35 QUARTERS/FOOTAGES: 990' S line, 630' E line of SW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.715273 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.646054 DATE COLLECTED:

SURFACE ELEVATION (FT.): 512.0 LOGGED (FT.): 727.0 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
210.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	302.0
75.0	CARBONDALE	DANVILLE	COAL	3.5	437.0
52.0	CARBONDALE	JAMESTOWN	COAL	-	460.0
47.0	CARBONDALE	HERRIN	COAL	-	465.0
-25.0	CARBONDALE	SPRINGFIELD	COAL	3.5	537.0
-115.0	CARBONDALE	HOUCHIN CREEK	COAL	-	627.0
-215.0	CARBONDALE	COLCHESTER	COAL	-	727.0

MAPID: 10102856000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 36 QUARTERS/FOOTAGES: NE SE SW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.695519 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.646226 DATE COLLECTED:

SURFACE ELEVATION (FT.): 444.0 LOGGED (FT.): 0.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

MAPID: 10105985000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 12W SECTION: 36 QUARTERS/FOOTAGES: 1352' N line, 91' W line of NE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.693961 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.65435 DATE COLLECTED:

SURFACE ELEVATION (FT.): 468.0 LOGGED (FT.): 718.0 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	CARBONDALE	DANVILLE	COAL	3.5	418.0
27.0	CARBONDALE	JAMESTOWN	COAL	-	441.0
20.0	CARBONDALE	HERRIN	COAL	-	448.0
-50.0	CARBONDALE	SPRINGFIELD	COAL	3.0	518.0
-137.0	CARBONDALE	HOUCHIN CREEK	COAL	-	605.0
-250.0	CARBONDALE	COLCHESTER	COAL	-	718.0

MAPID: 10102228000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 1 QUARTERS/FOOTAGES: 10' N line, 610' E line of SE NE

QUADRANGLE: SUMNER LONGITUDE: -87.798963 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.727136 DATE COLLECTED:

SURFACE ELEVATION (FT.): 509.0 LOGGED (FT.): 864.5 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
104.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	405.0
-23.0	CARBONDALE	DANVILLE	COAL	-	532.0
-65.0	CARBONDALE	JAMESTOWN	COAL	-	574.0
-69.0	CARBONDALE	HERRIN	COAL	-	578.0
-144.0	CARBONDALE	SPRINGFIELD	COAL	3.5	653.0
-242.0	CARBONDALE	HOUCHIN CREEK	COAL	-	751.0
-333.0	CARBONDALE	COLCHESTER	COAL	-	842.0
-351.0	SPOON	SEELYVILLE	COAL	4.5	860.0

MAPID: 10102736000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 1 QUARTERS/FOOTAGES: SW SW SE

QUADRANGLE: SUMNER LONGITUDE: -87.805056 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.71745 DATE COLLECTED:

SURFACE ELEVATION (FT.): 484.0 LOGGED (FT.): 873.5 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
62.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	422.0
-66.0	CARBONDALE	DANVILLE	COAL	3.0	550.0
-103.0	CARBONDALE	JAMESTOWN	COAL	-	587.0
-106.0	CARBONDALE	HERRIN	COAL	2.0	590.0
-188.0	CARBONDALE	SPRINGFIELD	COAL	4.0	672.0
-286.0	CARBONDALE	HOUCHIN CREEK	COAL	-	770.0
-376.0	CARBONDALE	COLCHESTER	COAL	-	860.0
-386.0	SPOON	SEELYVILLE	COAL	3.5	870.0

MAPID: 10100408000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 3 QUARTERS/FOOTAGES: NW NE NW

QUADRANGLE: SUMNER LONGITUDE: -87.848525 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.730867 DATE COLLECTED:

SURFACE ELEVATION (FT.): 466.0 LOGGED (FT.): 1025.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-69.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	535.0
-205.0	CARBONDALE	DANVILLE	COAL	2.5	671.0
-247.0	CARBONDALE	JAMESTOWN	COAL	3.5	713.0
-256.0	CARBONDALE	HERRIN	COAL	-	722.0
-344.0	CARBONDALE	SPRINGFIELD	COAL	-	810.0
-428.0	CARBONDALE	HOUCHIN CREEK	COAL	-	894.0
-506.0	CARBONDALE	COLCHESTER	COAL	-	972.0
-555.0	SPOON	SEELYVILLE	COAL	4.0	1021.0

MAPID: 10100409000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 3 QUARTERS/FOOTAGES: NW SE NW

QUADRANGLE: SUMNER LONGITUDE: -87.849103 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.727244 DATE COLLECTED:

SURFACE ELEVATION (FT.): 464.0 LOGGED (FT.): 1028.0 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	10.0	537.0
-213.0	CARBONDALE	DANVILLE	COAL	-	677.0
-256.0	CARBONDALE	JAMESTOWN	COAL	-	720.0
-263.0	CARBONDALE	HERRIN	COAL	-	727.0
-350.0	CARBONDALE	SPRINGFIELD	COAL	-	814.0
-439.0	CARBONDALE	HOUCHIN CREEK	COAL	-	903.0
-516.0	CARBONDALE	COLCHESTER	COAL	-	980.0
-560.0	SPOON	SEELYVILLE	COAL	4.0	1024.0

MAPID: 10106834000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 5 QUARTERS/FOOTAGES: 330' N line, 660' E line of SE

QUADRANGLE: SUMNER LONGITUDE: -87.873719 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.723624 DATE COLLECTED:

SURFACE ELEVATION (FT.): 459.0 LOGGED (FT.): 1022.0 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
-128.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	587.0
-271.0	CARBONDALE	DANVILLE	COAL	2.0	730.0
-314.0	CARBONDALE	JAMESTOWN	COAL	-	773.0
-396.0	CARBONDALE	SPRINGFIELD	COAL	4.0	855.0
-484.0	CARBONDALE	HOUCHIN CREEK	COAL	-	943.0
-563.0	CARBONDALE	COLCHESTER	COAL	-	1022.0

MAPID: 10130817000C VERSION: 1

PROJECT: ISGS96

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 5 QUARTERS/FOOTAGES: 1250' N line, 2500' W line

QUADRANGLE: CLAREMONT LONGITUDE: -87.881301 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.728411 DATE COLLECTED:

SURFACE ELEVATION (FT.): 470.0 LOGGED (FT.): 890.7 LOG TYPE: Drillers Log

SOURCE: UTAH INTERNATIONAL NR-16 WELL TYPE: Coal Test

COMMENT: DATA & LOCATION FROM COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-336.0	CARBONDALE	JAMESTOWN	COAL	4.3	806.0
-344.0	CARBONDALE	HERRIN	COAL	4.3	814.0
-417.0	CARBONDALE	SPRINGFIELD	COAL	3.7	887.0

MAPID: 10100406000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 6 QUARTERS/FOOTAGES: SW SW NW
 QUADRANGLE: CLAREMONT LONGITUDE: -87.907738 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.725571 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 489.0 LOGGED (FT.): 1200.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-228.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	717.0	
-376.0	CARBONDALE	DANVILLE	COAL	-	865.0	
-431.0	CARBONDALE	JAMESTOWN	COAL	-	920.0	
-440.0	CARBONDALE	HERRIN	COAL	4.0	929.0	
-513.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1002.0	
-599.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1088.0	
-711.0	CARBONDALE	COLCHESTER	COAL	-	1200.0	

MAPID: 10101602000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 7 QUARTERS/FOOTAGES: SW SW SE
 QUADRANGLE: CLAREMONT LONGITUDE: -87.898539 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.703435 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 513.0 LOGGED (FT.): 1195.0 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	
-201.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	714.0	
-356.0	CARBONDALE	DANVILLE	COAL	2.0	869.0	
-417.0	CARBONDALE	HERRIN	COAL	-	930.0	
-502.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1015.0	
-600.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1113.0	
-682.0	CARBONDALE	COLCHESTER	COAL	-	1195.0	

MAPID: 10100405000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 8 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: SUMNER LONGITUDE: -87.872666 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.703387 DATE COLLECTED:

SURFACE ELEVATION (FT.): 468.0 LOGGED (FT.): 1092.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-163.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	631.0	
-311.0	CARBONDALE	DANVILLE	COAL	2.5	779.0	
-360.0	CARBONDALE	JAMESTOWN	COAL	-	828.0	
-365.0	CARBONDALE	HERRIN	COAL	3.5	833.0	
-454.0	CARBONDALE	SPRINGFIELD	COAL	5.0	922.0	
-541.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1009.0	
-624.0	CARBONDALE	COLCHESTER	COAL	-	1092.0	

MAPID: 10100407000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 8 QUARTERS/FOOTAGES: NW SW NW

QUADRANGLE: CLAREMONT LONGITUDE: -87.889106 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.712626 DATE COLLECTED:

SURFACE ELEVATION (FT.): 504.0 LOGGED (FT.): 1180.0 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	
-191.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	695.0	
-340.0	CARBONDALE	DANVILLE	COAL	2.0	844.0	
-483.0	CARBONDALE	SPRINGFIELD	COAL	4.0	987.0	
-578.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1082.0	
-676.0	CARBONDALE	COLCHESTER	COAL	-	1180.0	

MAPID: 10102409000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 11 QUARTERS/FOOTAGES: SW SE SE

QUADRANGLE: SUMNER LONGITUDE: -87.819389 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.702861 DATE COLLECTED:

SURFACE ELEVATION (FT.): 495.0 LOGGED (FT.): 901.0 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
54.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	441.0
-81.0	CARBONDALE	DANVILLE	COAL	2.0	576.0
-197.0	CARBONDALE	SPRINGFIELD	COAL	3.5	692.0
-306.0	CARBONDALE	HOUCHIN CREEK	COAL	-	801.0
-385.0	CARBONDALE	COLCHESTER	COAL	-	880.0
-402.0	SPOON	SEELYVILLE	COAL	4.0	897.0

MAPID: 10100403000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 12 QUARTERS/FOOTAGES: 330' N line, 1388' W line of SW SE

QUADRANGLE: SUMNER LONGITUDE: -87.801544 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.70439 DATE COLLECTED:

SURFACE ELEVATION (FT.): 510.0 LOGGED (FT.): 882.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	440.0
-67.0	CARBONDALE	DANVILLE	COAL	2.5	577.0
-182.0	CARBONDALE	SPRINGFIELD	COAL	3.0	692.0
-295.0	CARBONDALE	HOUCHIN CREEK	COAL	-	805.0
-360.0	CARBONDALE	COLCHESTER	COAL	-	870.0
-370.0	SPOON	SEELYVILLE	COAL	2.0	880.0

MAPID: 10100404000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 3N 13W

SECTION: 12

QUARTERS/FOOTAGES: SE SW NW

QUADRANGLE: SUMNER

LONGITUDE: -87.812212

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.710121

DATE COLLECTED:

SURFACE ELEVATION (FT.): 512.0

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
68.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	444.0
-78.0	CARBONDALE	DANVILLE	COAL	3.0	590.0
-99.0	CARBONDALE	JAMESTOWN	COAL	-	611.0
-106.0	CARBONDALE	HERRIN	COAL	-	618.0
-191.0	CARBONDALE	SPRINGFIELD	COAL	4.0	703.0
-294.0	CARBONDALE	HOUCHIN CREEK	COAL	-	806.0
-368.0	CARBONDALE	COLCHESTER	COAL	-	880.0

MAPID: 10102410000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 3N 13W

SECTION: 13

QUARTERS/FOOTAGES: NW SE NW

QUADRANGLE: SUMNER

LONGITUDE: -87.810016

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.697197

DATE COLLECTED:

SURFACE ELEVATION (FT.): 495.0

LOGGED (FT.): 902.5

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
59.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	436.0
-80.0	CARBONDALE	DANVILLE	COAL	3.0	575.0
-111.0	CARBONDALE	JAMESTOWN	COAL	-	606.0
-118.0	CARBONDALE	HERRIN	COAL	-	613.0
-200.0	CARBONDALE	SPRINGFIELD	COAL	3.5	695.0
-320.0	CARBONDALE	HOUCHIN CREEK	COAL	-	815.0
-385.0	CARBONDALE	COLCHESTER	COAL	-	880.0
-403.0	SPOON	SEELYVILLE	COAL	4.5	898.0

MAPID: 10104172000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 13 QUARTERS/FOOTAGES: NW SW SW
 QUADRANGLE: SUMNER LONGITUDE: -87.814741 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.689907 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 490.0 LOGGED (FT.): 879.5 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
66.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	424.0
-73.0	CARBONDALE	DANVILLE	COAL	2.0	563.0
-102.0	CARBONDALE	JAMESTOWN	COAL	-	592.0
-107.0	CARBONDALE	HERRIN	COAL	-	597.0
-186.0	CARBONDALE	SPRINGFIELD	COAL	3.0	676.0
-290.0	CARBONDALE	HOUCHIN CREEK	COAL	-	780.0
-366.0	CARBONDALE	COLCHESTER	COAL	-	856.0
-386.0	SPOON	SEELYVILLE	COAL	3.5	876.0

MAPID: 10100395000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 14 QUARTERS/FOOTAGES: NE SE SE
 QUADRANGLE: SUMNER LONGITUDE: -87.817098 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.689919 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 471.0 LOGGED (FT.): 877.5 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
58.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	413.0
-80.0	CARBONDALE	DANVILLE	COAL	2.5	551.0
-109.0	CARBONDALE	JAMESTOWN	COAL	-	580.0
-114.0	CARBONDALE	HERRIN	COAL	-	585.0
-197.0	CARBONDALE	SPRINGFIELD	COAL	3.5	668.0
-307.0	CARBONDALE	HOUCHIN CREEK	COAL	-	778.0
-381.0	CARBONDALE	COLCHESTER	COAL	-	852.0
-403.0	SPOON	SEELYVILLE	COAL	3.5	874.0

MAPID: 10100400000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 3N 13W

SECTION: 14

QUARTERS/FOOTAGES: SW SE NW

QUADRANGLE: SUMNER

LONGITUDE: -87.82888

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.695565

DATE COLLECTED:

SURFACE ELEVATION (FT.): 539.0

LOGGED (FT.): 971.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
44.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	495.0
-86.0	CARBONDALE	DANVILLE	COAL	3.0	625.0
-115.0	CARBONDALE	JAMESTOWN	COAL	-	654.0
-218.0	CARBONDALE	SPRINGFIELD	COAL	3.0	757.0
-329.0	CARBONDALE	HOUCHIN CREEK	COAL	-	868.0
-400.0	CARBONDALE	COLCHESTER	COAL	-	939.0
-428.0	SPOON	SEELYVILLE	COAL	4.0	967.0

MAPID: 10104177000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 3N 13W

SECTION: 14

QUARTERS/FOOTAGES: SE NE SW

QUADRANGLE: SUMNER

LONGITUDE: -87.826536

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.691856

DATE COLLECTED:

SURFACE ELEVATION (FT.): 491.0

LOGGED (FT.): 920.5

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
43.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	448.0
-89.0	CARBONDALE	DANVILLE	COAL	2.5	580.0
-119.0	CARBONDALE	JAMESTOWN	COAL	-	610.0
-125.0	CARBONDALE	HERRIN	COAL	-	616.0
-220.0	CARBONDALE	SPRINGFIELD	COAL	3.0	711.0
-335.0	CARBONDALE	HOUCHIN CREEK	COAL	-	826.0
-402.0	CARBONDALE	COLCHESTER	COAL	-	893.0
-425.0	SPOON	SEELYVILLE	COAL	4.5	916.0

MAPID: 10130818000C **VERSION:** 1 **PROJECT:** ISGS96
COUNTY: LAWRENCE **TWP/RNG:** 3N 13W **SECTION:** 14 **QUARTERS/FOOTAGES:** 2700' S line, 2750' E line
QUADRANGLE: SUMNER **LONGITUDE:** -87.825578 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.694695 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 508.0 **LOGGED (FT.):** 732.6 **LOG TYPE:** Drillers Log
SOURCE: UTAH INTERNATIONAL NR-13 **WELL TYPE:** Coal Test
COMMENT: DATA & LOCATION FROM COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-123.0	CARBONDALE	JAMESTOWN	COAL	3.9	631.0	
-128.4	CARBONDALE	HERRIN	COAL	1.0	636.4	
-222.0	CARBONDALE	SPRINGFIELD	COAL	2.6	730.0	

MAPID: 10130819000C **VERSION:** 1 **PROJECT:** ISGS96
COUNTY: LAWRENCE **TWP/RNG:** 3N 13W **SECTION:** 14 **QUARTERS/FOOTAGES:** 2300' N line, 2400' E line
QUADRANGLE: SUMNER **LONGITUDE:** -87.824341 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.695621 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 723.0 **LOG TYPE:** Drillers Log
SOURCE: UTAH INTERNATIONAL ISGS-99910 **WELL TYPE:** Unknown well type
COMMENT: DATA & LOCATION FROM COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-123.0	CARBONDALE	HERRIN	COAL	2.8	623.0	
-220.0	CARBONDALE	SPRINGFIELD	COAL	3.0	720.0	

MAPID: 10130820000C **VERSION:** 1 **PROJECT:** ISGS96
COUNTY: LAWRENCE **TWP/RNG:** 3N 13W **SECTION:** 14 **QUARTERS/FOOTAGES:** 2300' N line, 3500' E line
QUADRANGLE: SUMNER **LONGITUDE:** -87.828216 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.695658 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 537.0 **LOGGED (FT.):** 758.9 **LOG TYPE:** Drillers Log
SOURCE: UTAH INTERNATIONAL ISGS-99911 **WELL TYPE:** Unknown well type
COMMENT: DATA & LOCATION FROM COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-120.0	CARBONDALE	HERRIN	COAL	2.0	657.0	
-219.0	CARBONDALE	SPRINGFIELD	COAL	2.9	756.0	

MAPID: 10130821000C **VERSION:** 1 **PROJECT:** ISGS96
COUNTY: LAWRENCE **TWP/RNG:** 3N 13W **SECTION:** 14 **QUARTERS/FOOTAGES:** 300' S line, 1700' E line
QUADRANGLE: SUMNER **LONGITUDE:** -87.821913 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.688031 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 506.0 **LOGGED (FT.):** 731.5 **LOG TYPE:** Drillers Log
SOURCE: UTAH INTERNATIONAL ISGS-99912 **WELL TYPE:** Unknown well type
COMMENT: DATA & LOCATION FROM COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-130.0	CARBONDALE	HERRIN	COAL	3.9	636.0
-223.0	CARBONDALE	SPRINGFIELD	COAL	2.5	729.0

MAPID: 10100402000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 3N 13W **SECTION:** 15 **QUARTERS/FOOTAGES:** SW SE NW
QUADRANGLE: SUMNER **LONGITUDE:** -87.847527 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.695681 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 1054.0 **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
-76.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	566.0
-218.0	CARBONDALE	DANVILLE	COAL	-	708.0
-254.0	CARBONDALE	JAMESTOWN	COAL	-	744.0
-260.0	CARBONDALE	HERRIN	COAL	2.0	750.0
-338.0	CARBONDALE	SPRINGFIELD	COAL	3.5	828.0
-454.0	CARBONDALE	HOUCHIN CREEK	COAL	-	944.0
-520.0	CARBONDALE	COLCHESTER	COAL	-	1010.0
-561.0	SPOON	SEELYVILLE	COAL	3.0	1051.0

MAPID: 10130822000C **VERSION:** 1 **PROJECT:** ISGS96
COUNTY: LAWRENCE **TWP/RNG:** 3N 13W **SECTION:** 15 **QUARTERS/FOOTAGES:** 3400' S line, 100' W line
QUADRANGLE: SUMNER **LONGITUDE:** -87.85292 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.69679 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 472.0 **LOGGED (FT.):** 871.0 **LOG TYPE:** Drillers Log
SOURCE: UTAH INTERNATIONAL NR-19 **WELL TYPE:** Coal Test
COMMENT: DATA & LOCATION FROM COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-288.0	CARBONDALE	JAMESTOWN	COAL	4.4	760.0
-295.9	CARBONDALE	HERRIN	COAL	3.7	767.9
-394.0	CARBONDALE	SPRINGFIELD	COAL	5.0	866.0

MAPID: 10102135000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 330' W line of SE SW

QUADRANGLE: SUMNER LONGITUDE: -87.865809 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.690475 DATE COLLECTED:

SURFACE ELEVATION (FT.): 514.0 LOGGED (FT.): 1143.0 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
-132.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	646.0
-281.0	CARBONDALE	DANVILLE	COAL	-	795.0
-322.0	CARBONDALE	JAMESTOWN	COAL	3.5	836.0
-331.0	CARBONDALE	HERRIN	COAL	-	845.0
-421.0	CARBONDALE	SPRINGFIELD	COAL	4.5	935.0
-510.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1024.0
-588.0	CARBONDALE	COLCHESTER	COAL	-	1102.0
-625.0	SPOON	SEELYVILLE	COAL	4.0	1139.0

MAPID: 10130823000C VERSION: 1

PROJECT: ISGS96

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 16 QUARTERS/FOOTAGES: 1600' S line, 800' E line

QUADRANGLE: SUMNER LONGITUDE: -87.857513 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.692111 DATE COLLECTED:

SURFACE ELEVATION (FT.): 474.0 LOGGED (FT.): 879.0 LOG TYPE: Drillers Log

SOURCE: UTAH INTERNATIONAL ISGS-99913 WELL TYPE: Unknown well type

COMMENT: DATA & LOCATION FROM COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-302.0	CARBONDALE	HERRIN	COAL	4.0	776.0
-400.0	CARBONDALE	SPRINGFIELD	COAL	5.0	874.0

MAPID: 10100102000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 21 QUARTERS/FOOTAGES: SW SW NE
 QUADRANGLE: SUMNER LONGITUDE: -87.857508 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.681014 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 503.0 LOGGED (FT.): 1082.0 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
-133.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	636.0
-281.0	CARBONDALE	DANVILLE	COAL	3.0	784.0
-322.0	CARBONDALE	JAMESTOWN	COAL	-	825.0
-331.0	CARBONDALE	HERRIN	COAL	-	834.0
-419.0	CARBONDALE	SPRINGFIELD	COAL	-	922.0
-515.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1018.0
-579.0	CARBONDALE	COLCHESTER	COAL	-	1082.0

MAPID: 10102411000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 22 QUARTERS/FOOTAGES: 2512' S line, 1966' E line of SE
 QUADRANGLE: SUMNER LONGITUDE: -87.841772 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.679547 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 525.0 LOGGED (FT.): 1060.0 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
-48.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	573.0
-188.0	CARBONDALE	DANVILLE	COAL	-	713.0
-216.0	CARBONDALE	JAMESTOWN	COAL	-	741.0
-223.0	CARBONDALE	HERRIN	COAL	-	748.0
-309.0	CARBONDALE	SPRINGFIELD	COAL	2.5	834.0
-415.0	CARBONDALE	HOUCHIN CREEK	COAL	-	940.0
-504.0	CARBONDALE	COLCHESTER	COAL	-	1029.0
-535.0	SPOON	SEELYVILLE	COAL	-	1060.0

MAPID: 10100392000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 23 QUARTERS/FOOTAGES: NW NW SW
 QUADRANGLE: SUMNER LONGITUDE: -87.833672 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.679014 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 516.0 LOGGED (FT.): 1017.0 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
-14.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	530.0
-155.0	CARBONDALE	DANVILLE	COAL	-	671.0
-184.0	CARBONDALE	JAMESTOWN	COAL	4.0	700.0
-190.0	CARBONDALE	HERRIN	COAL	-	706.0
-284.0	CARBONDALE	SPRINGFIELD	COAL	4.0	800.0
-403.0	CARBONDALE	HOUCHIN CREEK	COAL	-	919.0
-469.0	CARBONDALE	COLCHESTER	COAL	-	985.0
-498.0	SPOON	SEELYVILLE	COAL	3.0	1014.0

MAPID: 10100394000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 23 QUARTERS/FOOTAGES: NW NW SE
 QUADRANGLE: SUMNER LONGITUDE: -87.824229 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.678953 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 532.0 LOGGED (FT.): 971.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
25.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	507.0
-115.0	CARBONDALE	DANVILLE	COAL	2.5	647.0
-143.0	CARBONDALE	JAMESTOWN	COAL	-	675.0
-245.0	CARBONDALE	SPRINGFIELD	COAL	2.5	777.0
-362.0	CARBONDALE	HOUCHIN CREEK	COAL	-	894.0
-424.0	CARBONDALE	COLCHESTER	COAL	-	956.0
-436.0	SPOON	SEELYVILLE	COAL	3.0	968.0

MAPID: 10104189000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 23 QUARTERS/FOOTAGES: NE NE NW
 QUADRANGLE: SUMNER LONGITUDE: -87.826564 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.686331 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 525.0 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.)	
				UNIT	OVERBURDEN COMMENT
34.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	491.0
-103.0	CARBONDALE	DANVILLE	COAL	2.0	628.0
-130.0	CARBONDALE	JAMESTOWN	COAL	-	655.0
-135.0	CARBONDALE	HERRIN	COAL	-	660.0
-240.0	CARBONDALE	SPRINGFIELD	COAL	2.5	765.0
-355.0	CARBONDALE	HOUCHIN CREEK	COAL	-	880.0
-425.0	CARBONDALE	COLCHESTER	COAL	-	950.0
-452.0	SPOON	SEELYVILLE	COAL	4.0	977.0

MAPID: 10104190000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 23 QUARTERS/FOOTAGES: NE SE NE
 QUADRANGLE: SUMNER LONGITUDE: -87.817134 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.682569 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 508.0 LOGGED (FT.): 870.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
62.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	446.0
-72.0	CARBONDALE	DANVILLE	COAL	2.5	580.0
-99.0	CARBONDALE	JAMESTOWN	COAL	-	607.0
-103.0	CARBONDALE	HERRIN	COAL	-	611.0
-187.0	CARBONDALE	SPRINGFIELD	COAL	3.5	695.0
-293.0	CARBONDALE	HOUCHIN CREEK	COAL	-	801.0
-362.0	CARBONDALE	COLCHESTER	COAL	-	870.0

MAPID: 10100388000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 24 QUARTERS/FOOTAGES: NE NE NE
 QUADRANGLE: SUMNER LONGITUDE: -87.798305 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.686246 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 479.0 LOGGED (FT.): 866.5 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
69.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	410.0
-67.0	CARBONDALE	DANVILLE	COAL	3.0	546.0
-98.0	CARBONDALE	JAMESTOWN	COAL	-	577.0
-181.0	CARBONDALE	SPRINGFIELD	COAL	4.0	660.0
-281.0	CARBONDALE	HOUCHIN CREEK	COAL	-	760.0
-361.0	CARBONDALE	COLCHESTER	COAL	-	840.0
-384.0	SPOON	SEELYVILLE	COAL	3.5	863.0

MAPID: 10104203000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 24 QUARTERS/FOOTAGES: SW SW NE
 QUADRANGLE: SUMNER LONGITUDE: -87.805398 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.680733 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 490.0 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
79.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	411.0
-58.0	CARBONDALE	DANVILLE	COAL	2.5	548.0
-84.0	CARBONDALE	JAMESTOWN	COAL	-	574.0
-90.0	CARBONDALE	HERRIN	COAL	-	580.0
-169.0	CARBONDALE	SPRINGFIELD	COAL	3.0	659.0
-268.0	CARBONDALE	HOUCHIN CREEK	COAL	-	758.0
-344.0	CARBONDALE	COLCHESTER	COAL	-	834.0
-387.0	SPOON	SEELYVILLE	COAL	3.0	877.0

MAPID: 10100387000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 3N 13W

SECTION: 25

QUARTERS/FOOTAGES: NE SW NW

QUADRANGLE: SUMNER

LONGITUDE: -87.812529

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.667882

DATE COLLECTED:

SURFACE ELEVATION (FT.): 469.0

LOGGED (FT.): 904.0

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
46.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	423.0
-96.0	CARBONDALE	DANVILLE	COAL	2.5	565.0
-120.0	CARBONDALE	JAMESTOWN	COAL	3.0	589.0
-125.0	CARBONDALE	HERRIN	COAL	3.0	594.0
-230.0	CARBONDALE	SPRINGFIELD	COAL	-	699.0
-340.0	CARBONDALE	HOUCHIN CREEK	COAL	-	809.0
-411.0	CARBONDALE	COLCHESTER	COAL	-	880.0
-431.0	SPOON	SEELYVILLE	COAL	4.0	900.0

MAPID: 10104213000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 3N 13W

SECTION: 25

QUARTERS/FOOTAGES: NE NE SW

QUADRANGLE: SUMNER

LONGITUDE: -87.807877

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.664152

DATE COLLECTED:

SURFACE ELEVATION (FT.): 453.0

LOGGED (FT.): 892.0

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
36.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	417.0
-107.0	CARBONDALE	DANVILLE	COAL	2.5	560.0
-132.0	CARBONDALE	JAMESTOWN	COAL	-	585.0
-137.0	CARBONDALE	HERRIN	COAL	2.0	590.0
-226.0	CARBONDALE	SPRINGFIELD	COAL	3.5	679.0
-340.0	CARBONDALE	HOUCHIN CREEK	COAL	-	793.0
-414.0	CARBONDALE	COLCHESTER	COAL	-	867.0
-437.0	SPOON	SEELYVILLE	COAL	2.0	890.0

MAPID: 10100386000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 26 QUARTERS/FOOTAGES: SW NW SE

QUADRANGLE: SUMNER LONGITUDE: -87.824355 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.662404 DATE COLLECTED:

SURFACE ELEVATION (FT.): 499.0 LOGGED (FT.): 984.0 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
-6.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	505.0
-151.0	CARBONDALE	DANVILLE	COAL	2.5	650.0
-176.0	CARBONDALE	JAMESTOWN	COAL	-	675.0
-181.0	CARBONDALE	HERRIN	COAL	-	680.0
-267.0	CARBONDALE	SPRINGFIELD	COAL	3.5	766.0
-391.0	CARBONDALE	HOUCHIN CREEK	COAL	-	890.0
-458.0	CARBONDALE	COLCHESTER	COAL	-	957.0
-481.0	SPOON	SEELYVILLE	COAL	4.0	980.0

MAPID: 10100385000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 3N 13W SECTION: 29 QUARTERS/FOOTAGES: NE NE SE

QUADRANGLE: SUMNER LONGITUDE: -87.873515 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.664664 DATE COLLECTED:

SURFACE ELEVATION (FT.): 511.0 LOGGED (FT.): 1238.0 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
-209.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	720.0
-377.0	CARBONDALE	DANVILLE	COAL	3.0	888.0
-410.0	CARBONDALE	JAMESTOWN	COAL	-	921.0
-424.0	CARBONDALE	HERRIN	COAL	-	935.0
-523.0	CARBONDALE	SPRINGFIELD	COAL	-	1034.0
-611.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1122.0
-679.0	CARBONDALE	COLCHESTER	COAL	-	1190.0
-725.0	SPOON	SEELYVILLE	COAL	2.0	1236.0

MAPID: 10130824000C **VERSION:** 1 **PROJECT:** ISGS96
COUNTY: LAWRENCE **TWP/RNG:** 3N 13W **SECTION:** 29 **QUARTERS/FOOTAGES:** 2350' S line, 250' E line
QUADRANGLE: SUMNER **LONGITUDE:** -87.873246 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 38.664713 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 511.0 **LOGGED (FT.):** 1040.0 **LOG TYPE:** Drillers Log
SOURCE: UTAH INTERNATIONAL IGS-99914 **WELL TYPE:** Unknown well type
COMMENT: DATA & LOCATION FROM COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-424.0	CARBONDALE	HERRIN	COAL	-	935.0
-524.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1035.0

MAPID: 10101512000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 3N 13W **SECTION:** 30 **QUARTERS/FOOTAGES:** NE NW NE
QUADRANGLE: CLAREMONT **LONGITUDE:** -87.896464 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 38.672114 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 527.0 **LOGGED (FT.):** 1230.0 **LOG TYPE:** Electric Log
SOURCE:
COMMENT: GOOD LOG **WELL TYPE:** Oil and Gas Test

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-240.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	767.0
-396.0	CARBONDALE	DANVILLE	COAL	3.0	923.0
-447.0	CARBONDALE	HERRIN	COAL	3.5	974.0
-536.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1063.0
-625.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1152.0
-703.0	CARBONDALE	COLCHESTER	COAL	-	1230.0

MAPID: 10100384000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 3N 13W **SECTION:** 32 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: CLAREMONT **LONGITUDE:** -87.889875 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 38.649971 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 514.0 **LOGGED (FT.):** 1238.0 **LOG TYPE:** Electric Log
SOURCE:
COMMENT: GOOD LOG **WELL TYPE:** Oil and Gas Test

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-209.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	723.0
-369.0	CARBONDALE	DANVILLE	COAL	2.5	883.0
-415.0	CARBONDALE	HERRIN	COAL	-	929.0
-507.0	CARBONDALE	SPRINGFIELD	COAL	-	1021.0
-601.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1115.0
-700.0	CARBONDALE	COLCHESTER	COAL	-	1214.0
-724.0	SPOON	SEELYVILLE	COAL	-	1238.0

MAPID: 10130825000C **VERSION:** 1 **PROJECT:** ISGS96
COUNTY: LAWRENCE **TWP/RNG:** 3N 13W **SECTION:** 32 **QUARTERS/FOOTAGES:** 900' N line, 2400' E line
QUADRANGLE: CLAREMONT **LONGITUDE:** -87.88243 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.655754 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 532.0 **LOGGED (FT.):** 1034.1 **LOG TYPE:** Drillers Log
SOURCE: UTAH INTERNATIONAL NR-20 **WELL TYPE:** Coal Test
COMMENT: DATA & LOCATION FROM COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-404.6	CARBONDALE	HERRIN	COAL	3.7	936.6
-498.0	CARBONDALE	SPRINGFIELD	COAL	4.1	1030.0

MAPID: 10130826000C **VERSION:** 1 **PROJECT:** ISGS96
COUNTY: LAWRENCE **TWP/RNG:** 3N 13W **SECTION:** 32 **QUARTERS/FOOTAGES:** 2900' N line, 300' W line
QUADRANGLE: CLAREMONT **LONGITUDE:** -87.890179 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.649274 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 512.0 **LOGGED (FT.):** 1028.9 **LOG TYPE:** Drillers Log
SOURCE: UTAH INTERNATIONAL ISGS-99916 **WELL TYPE:** Unknown well type
COMMENT: DATA & LOCATION FROM COMPANY MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-420.0	CARBONDALE	HERRIN	COAL	3.0	932.0
-512.0	CARBONDALE	SPRINGFIELD	COAL	4.9	1024.0

MAPID: 10100383000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 3N 13W **SECTION:** 33 **QUARTERS/FOOTAGES:** SE SW SE
QUADRANGLE: SUMNER **LONGITUDE:** -87.859765 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.644043 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 484.0 **LOGGED (FT.):** 1142.0 **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	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	650.0
-324.0	CARBONDALE	DANVILLE	COAL	3.0	808.0
-360.0	CARBONDALE	HERRIN	COAL	3.5	844.0
-460.0	CARBONDALE	SPRINGFIELD	COAL	-	944.0
-538.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1022.0
-617.0	CARBONDALE	COLCHESTER	COAL	-	1101.0
-658.0	SPOON	SEELYVILLE	COAL	-	1142.0

MAPID: 10100382000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 3N 13W

SECTION: 34

QUARTERS/FOOTAGES: NE NE NW

QUADRANGLE: SUMNER

LONGITUDE: -87.845612

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.656927

DATE COLLECTED:

SURFACE ELEVATION (FT.): 544.0

LOGGED (FT.): 1167.5

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
-106.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	650.0
-287.0	CARBONDALE	DANVILLE	COAL	2.5	831.0
-311.0	CARBONDALE	JAMESTOWN	COAL	-	855.0
-320.0	CARBONDALE	HERRIN	COAL	3.0	864.0
-405.0	CARBONDALE	SPRINGFIELD	COAL	4.0	949.0
-516.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1060.0
-577.0	CARBONDALE	COLCHESTER	COAL	-	1121.0
-620.0	SPOON	SEELYVILLE	COAL	3.5	1164.0

MAPID: 10100379000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 3N 13W

SECTION: 35

QUARTERS/FOOTAGES: SW SE NE

QUADRANGLE: SUMNER

LONGITUDE: -87.819724

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.65133

DATE COLLECTED:

SURFACE ELEVATION (FT.): 464.0

LOGGED (FT.): 958.0

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
-14.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	478.0
-161.0	CARBONDALE	DANVILLE	COAL	2.0	625.0
-186.0	CARBONDALE	JAMESTOWN	COAL	-	650.0
-191.0	CARBONDALE	HERRIN	COAL	-	655.0
-271.0	CARBONDALE	SPRINGFIELD	COAL	3.0	735.0
-395.0	CARBONDALE	HOUCHIN CREEK	COAL	-	859.0
-465.0	CARBONDALE	COLCHESTER	COAL	-	929.0
-490.0	SPOON	SEELYVILLE	COAL	4.0	954.0

MAPID: 10106213000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: LAWRENCE **TWP/RNG:** 3N 13W **SECTION:** 35 **QUARTERS/FOOTAGES:**
QUADRANGLE: SUMNER **LONGITUDE:** -87.825622 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.650419 **DATE COLLECTED:** 7 / 9 / 1957
SURFACE ELEVATION (FT.): 474.0 **LOGGED (FT.):** 110.0 **LOG TYPE:** Drillers Log
SOURCE: HANNA COAL CO. 25 FR **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
417.9			COAL	0.5	56.1	
379.0			COAL	0.2	95.0	SPLIT WITH SANDSTONE

MAPID: 10100378000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 3N 13W **SECTION:** 36 **QUARTERS/FOOTAGES:** SW NE SE
QUADRANGLE: SUMNER **LONGITUDE:** -87.801043 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.647396 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 436.0 **LOGGED (FT.):** 897.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
23.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	413.0	
-117.0	CARBONDALE	DANVILLE	COAL	2.5	553.0	
-139.0	CARBONDALE	JAMESTOWN	COAL	-	575.0	
-238.0	CARBONDALE	SPRINGFIELD	COAL	3.0	674.0	
-344.0	CARBONDALE	HOUCHIN CREEK	COAL	-	780.0	
-424.0	CARBONDALE	COLCHESTER	COAL	-	860.0	
-459.0	SPOON	SEELYVILLE	COAL	2.0	895.0	

MAPID: 10105507000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 3N 13W **SECTION:** 36 **QUARTERS/FOOTAGES:** NW SW NE
QUADRANGLE: SUMNER **LONGITUDE:** -87.805649 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.653008 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 908.5 **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
28.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	432.0
-111.0	CARBONDALE	DANVILLE	COAL	3.0	571.0
-133.0	CARBONDALE	JAMESTOWN	COAL	-	593.0
-139.0	CARBONDALE	HERRIN	COAL	-	599.0
-234.0	CARBONDALE	SPRINGFIELD	COAL	3.0	694.0
-347.0	CARBONDALE	HOUCHIN CREEK	COAL	-	807.0
-415.0	CARBONDALE	COLCHESTER	COAL	-	875.0
-445.0	SPOON	SEELYVILLE	COAL	3.5	905.0

MAPID: 10100629000C **VERSION:** 1 **PROJECT:** ISGS96
COUNTY: LAWRENCE **TWP/RNG:** 4N 10W **SECTION:** 5 **QUARTERS/FOOTAGES:** NW SW NW
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.556618 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.817979 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 427.1 **LOGGED (FT.):** 478.0 **LOG TYPE:** Other Core Study
SOURCE: SHELL PETROLEUM CORP. CORE #1 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
101.1	CARBONDALE	DANVILLE	COAL	4.5	326.0
49.6	CARBONDALE	JAMESTOWN	COAL	4.0	377.5
45.6	CARBONDALE	HERRIN	COAL	1.6	381.5
-44.6	CARBONDALE	SPRINGFIELD	COAL	5.4	471.7

MAPID: 10107111000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: LAWRENCE **TWP/RNG:** 4N 10W **SECTION:** 5 **QUARTERS/FOOTAGES:** 888' N line, 1161' W line of NE
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.544174 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.82036 **DATE COLLECTED:** 10 / 11 / 1968
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 440.0 **LOG TYPE:** Electric Log
SOURCE: TEMPLETON COAL CO 9 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	CARBONDALE	SPRINGFIELD	COAL	3.5	439.0

MAPID: 10107029000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: LAWRENCE **TWP/RNG:** 4N 10W **SECTION:** 6 **QUARTERS/FOOTAGES:** 66' N line, 29' E line
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.557912 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.822825 **DATE COLLECTED:** 8 / 2 / 1968
SURFACE ELEVATION (FT.): 418.0 **LOGGED (FT.):** 460.5 **LOG TYPE:** Survey Core Study
SOURCE: TEMPLETON COAL CO 6-D **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
170.5	MODESTO	PIRTLE (IN)	COAL	1.3	247.5
114.7	SHELburn	DANVILLE	COAL	2.8	303.3
66.3	SHELburn	JAMESTOWN	COAL	3.7	351.7
59.7	CARBONDALE	HERRIN	COAL	1.4	358.3
3.4	CARBONDALE	BRIAR HILL	COAL	2.7	414.6
-34.9	CARBONDALE	SPRINGFIELD	COAL	6.3	452.9

MAPID: 10107115000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: LAWRENCE **TWP/RNG:** 4N 10W **SECTION:** 7 **QUARTERS/FOOTAGES:** 304' S line, 345' W line of NE
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.565661 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.800217 **DATE COLLECTED:** 10 / 16 / 1968
SURFACE ELEVATION (FT.): 425.0 **LOGGED (FT.):** 424.0 **LOG TYPE:** Electric Log
SOURCE: TEMPLETON COAL CO 17 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
137.0	CARBONDALE	DANVILLE	COAL	3.0	288.0
88.5	CARBONDALE	HERRIN	COAL	2.5	336.5
8.0	CARBONDALE	SPRINGFIELD	COAL	3.9	417.0

MAPID: 10100630000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: LAWRENCE **TWP/RNG:** 4N 10W **SECTION:** 16 **QUARTERS/FOOTAGES:** 1320' N line, 1320' E line of NE
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.524225 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.788449 **DATE COLLECTED:** 6 / 17 / 1958
SURFACE ELEVATION (FT.): 424.9 **LOGGED (FT.):** 470.0 **LOG TYPE:** Drillers Log
SOURCE: SHELL PETROLEUM CORP. **WELL TYPE:** Oil and Gas Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
139.9	MODESTO	PIRTLE (IN)	COAL	0.5	285.0
77.9	SHELburn	DANVILLE	COAL	3.0	347.0
46.4	SHELburn	JAMESTOWN	COAL	3.5	378.5
36.9	CARBONDALE	HERRIN	COAL	4.5	388.0
-12.1	CARBONDALE	BRIAR HILL	COAL	1.0	437.0
-39.6	CARBONDALE	SPRINGFIELD	COAL	3.5	464.5

MAPID: 10100630000C VERSION: 2

PROJECT: NCRDS88

COUNTY: LAWRENCE TWP/RNG: 4N 10W SECTION: 16 QUARTERS/FOOTAGES: 1320' N line, 1320' E line of NE

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.524225 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.788449 DATE COLLECTED: 6 / 17 / 1958

SURFACE ELEVATION (FT.): 424.9 LOGGED (FT.): 470.0 LOG TYPE: Drillers Log

SOURCE: SHELL PETROLEUM CORP. WELL TYPE: Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
424.9			UNCONSOLIDATED	114.0	0.0
310.9	BOND		BLUE SHALE	8.0	114.0
302.9	BOND		COAL WITH SHALE	3.0	122.0
299.9	BOND		SHALE	41.0	125.0
258.9	BOND	CARTHAGE	LIMESTONE W/ SHALE	14.0	166.0
244.9	MODESTO		BLUE SHALE	11.0	180.0
233.9	MODESTO		COAL/SANDSTONE	1.0	191.0
232.9	MODESTO		SANDSTONE/LIMESTONE	9.0	192.0
223.9	MODESTO		LIMESTONE	3.0	201.0
220.9	MODESTO	TRIVOLI	SANDSTONE	23.0	204.0
197.9	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	227.0
190.9	MODESTO	WEST FRANKLIN	SHALE	9.0	234.0
181.9	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	243.0
170.9	MODESTO		SHALE	31.0	254.0
139.9	MODESTO	PIRTLE (IN)	COAL	0.5	285.0
139.4	MODESTO		SHALE	20.5	285.5
118.9	MODESTO	BUSSERON (IN)	SANDSTONE	9.0	306.0
109.9	MODESTO		BLUE SHALE	32.0	315.0
77.9	CARBONDALE	DANVILLE	COAL	3.0	347.0
74.9	CARBONDALE		UNDERCLAY	3.0	350.0
71.9	CARBONDALE		LIMESTONE W/ SHALE	4.0	353.0
67.9	CARBONDALE		SANDSTONE/LIMESTONE	6.0	357.0
61.9	CARBONDALE		SHALE	11.0	363.0
50.9	CARBONDALE		BLACK SHALE	4.5	374.0
46.4	CARBONDALE	JAMESTOWN	COAL	3.5	378.5
42.9	CARBONDALE		UNDERCLAY	1.0	382.0
41.9	CARBONDALE	BRERETON	LIMESTONE	4.0	383.0
37.9	CARBONDALE	ANNA	BLACK SHALE & COAL	1.0	387.0
36.9	CARBONDALE	HERRIN	COAL	4.5	388.0
32.4	CARBONDALE		UNDERCLAY	1.5	392.5
30.9	CARBONDALE		SHALE	15.0	394.0
15.9	CARBONDALE		BLUE SHALE	4.0	409.0
11.9	CARBONDALE		LIMESTONE W/ SHALE	3.0	413.0
8.9	CARBONDALE		BLUE SHALE	1.0	416.0
7.9	CARBONDALE		COAL WITH SHALE	0.5	417.0
7.4	CARBONDALE		UNDERCLAY	0.5	417.5
6.9	CARBONDALE		BLUE SHALE	18.0	418.0
-11.1	CARBONDALE		BLACK SHALE	1.0	436.0
-12.1	CARBONDALE	BRIAR HILL	COAL	1.0	437.0

-13.1	CARBONDALE		SHALE	22.5	438.0	
-35.6	CARBONDALE	ST. DAVID	LIMESTONE W/ SHALE	3.0	460.5	UNCERTAIN CORRELATION
-38.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	463.5	
-39.6	CARBONDALE	SPRINGFIELD	COAL	3.5	464.5	
-43.1	CARBONDALE		UNDERCLAY	1.5	468.0	
-44.6	CARBONDALE		CALCAREOUS SHALE	0.5	469.5	

MAPID: 10100631000C **VERSION:** 1 **PROJECT:** ISGS96
COUNTY: LAWRENCE **TWP/RNG:** 4N 10W **SECTION:** 17 **QUARTERS/FOOTAGES:** NW SW NW
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.556315 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.787215 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 423.5 **LOGGED (FT.):** 452.0 **LOG TYPE:** Other Core Study
SOURCE: SHELL PETROLEUM CORP. **CORE #2** **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
133.5	CARBONDALE	DANVILLE	COAL	4.5	290.0	
96.5	CARBONDALE	JAMESTOWN	COAL	4.0	327.0	
90.5	CARBONDALE	HERRIN	COAL	4.0	333.0	
36.5	CARBONDALE	BRIAR HILL	COAL	2.5	387.0	
-0.5	CARBONDALE	SPRINGFIELD	COAL	6.3	424.0	

MAPID: 10100856000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 4N 10W **SECTION:** 18 **QUARTERS/FOOTAGES:** NE SW SW
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.572575 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.779835 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 433.0 **LOGGED (FT.):** 558.5 **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	
291.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	142.0	
183.0	CARBONDALE	DANVILLE	COAL	4.5	250.0	
145.0	CARBONDALE	JAMESTOWN	COAL	-	288.0	
63.0	CARBONDALE	SPRINGFIELD	COAL	3.5	370.0	
-50.0	CARBONDALE	HOUCHIN CREEK	COAL	-	483.0	
-111.0	CARBONDALE	COLCHESTER	COAL	-	544.0	
-123.0	SPOON	SEELYVILLE	COAL	2.5	556.0	

MAPID: 10100632000C VERSION: 1

PROJECT: NCRDS88

COUNTY: LAWRENCE TWP/RNG: 4N 10W SECTION: 19 QUARTERS/FOOTAGES: 1' N line, 1' E line

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.557424 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.777111 DATE COLLECTED:

SURFACE ELEVATION (FT.): 418.6 LOGGED (FT.): 435.0 LOG TYPE: Drillers Log

SOURCE: SHELL PETROLEUM CORP. WELL TYPE: Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
418.6			UNCONSOLIDATED	27.0	0.0	
391.6	BOND		BLUE SHALE	9.0	27.0	
382.6	BOND		DARK SHALE	2.0	36.0	
380.6	BOND		SANDSTONE/LIMESTONE	25.0	38.0	
355.6	BOND		SANDSTONE	12.0	63.0	
343.6	BOND		SANDSTONE/LIMESTONE	8.0	75.0	
335.6	BOND		SHALE	13.0	83.0	
322.6	BOND		SANDSTONE/LIMESTONE	10.0	96.0	
312.6	BOND	MT. CARMEL	SANDSTONE	18.0	106.0	
294.6	MODESTO		SHALE	2.0	124.0	
292.6	MODESTO		LIMESTONE AND SANDSTONE	26.0	126.0	
266.6	MODESTO		BROWN SHALE	4.0	152.0	
262.6	MODESTO		SANDSTONE	2.0	156.0	
260.6	MODESTO		LIMESTONE	3.0	158.0	
257.6	MODESTO		SHALE	8.0	161.0	
249.6	MODESTO		LIMESTONE	2.0	169.0	
247.6	MODESTO		SANDSTONE	2.0	171.0	
245.6	MODESTO		SHALE	4.0	173.0	
241.6	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	177.0	UNCERTAIN CORRELATION
238.6	MODESTO		LIMESTONE W/ SHALE	16.0	180.0	
222.6	MODESTO		BLUE SHALE	16.0	196.0	
206.6	MODESTO	PIRTLE (IN)	COAL	1.0	212.0	
205.6	MODESTO		SHALE	31.0	213.0	
174.6	MODESTO	BUSSERON (IN)	SANDSTONE	10.0	244.0	
164.6	MODESTO		BLUE SHALE	19.0	254.0	
145.6	CARBONDALE	DANVILLE	COAL	5.0	273.0	
140.6	CARBONDALE		UNDERCLAY	5.0	278.0	
135.6	CARBONDALE	BANKSTON FORK	LIMESTONE	7.0	283.0	
128.6	CARBONDALE		BROWN SHALE	5.0	290.0	
123.6	CARBONDALE		LIMESTONE W/ SHALE	4.0	295.0	
119.6	CARBONDALE		BLUE SHALE	2.0	299.0	
117.6	CARBONDALE		BLACK SHALE	10.0	301.0	
107.6	CARBONDALE	JAMESTOWN	COAL	1.0	311.0	
106.6	CARBONDALE		SHALE	2.5	312.0	LIME AND SHALE
104.1	CARBONDALE	HERRIN	COAL	1.0	314.5	
103.1	CARBONDALE		SHALE	1.5	315.5	"LIME"
101.6	CARBONDALE		CLAYSTONE	2.0	317.0	
99.6	CARBONDALE		SHALE	4.0	319.0	"LIME"

95.6	CARBONDALE		SHALE	7.0	323.0	
88.6	CARBONDALE		LIMESTONE	6.0	330.0	
82.6	CARBONDALE		SHALE	33.0	336.0	
49.6	CARBONDALE		BLACK SHALE	2.0	369.0	
47.6	CARBONDALE	BRIAR HILL	COAL	1.5	371.0	
46.1	CARBONDALE		UNDERCLAY	1.5	372.5	
44.6	CARBONDALE		SANDSTONE	6.0	374.0	
38.6	CARBONDALE		SHALE	15.0	380.0	
23.6	CARBONDALE		BLACK SHALE	3.0	395.0	
20.6	CARBONDALE	ST. DAVID	LIMESTONE	3.5	398.0	
17.1	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	401.5	
14.6	CARBONDALE		SHALE	1.0	404.0	"LIME", DARK GRAY
13.6	CARBONDALE	SPRINGFIELD	COAL	0.5	405.0	
13.1	CARBONDALE	SPRINGFIELD	CLAYSTONE	1.5	405.5	PARTING IN COAL
11.6	CARBONDALE	SPRINGFIELD	COAL	5.3	407.0	
6.3	CARBONDALE		UNDERCLAY	3.7	412.3	
2.6	CARBONDALE		SHALE	19.0	416.0	

MAPID: 10100059000C VERSION: 1

PROJECT: NCRDS88

COUNTY: LAWRENCE TWP/RNG: 4N 10W SECTION: 27 QUARTERS/FOOTAGES: SE SW SW

QUADRANGLE: VINCENNES LONGITUDE: -87.516453 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.74908 DATE COLLECTED: 7 / 9 / 1921

SURFACE ELEVATION (FT.): 410.0 LOGGED (FT.): 551.5 LOG TYPE: Drillers Log

SOURCE: MIAMI COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
410.0			UNCONSOLIDATED	111.0	0.0
299.0	MODESTO		BLACK SHALE	1.5	111.0
297.5	MODESTO		COAL	0.5	112.5
297.0	MODESTO		UNDERCLAY	1.0	113.0
296.0	MODESTO		SHALE	100.0	114.0
196.0	MODESTO		SANDSTONE	9.0	214.0
187.0	MODESTO		BLUE SHALE	23.0	223.0
164.0	MODESTO	PIRTLE (IN)	COAL	2.3	246.0
161.7	MODESTO		UNDERCLAY	0.8	248.3
161.0	MODESTO		SHALE	15.0	249.0
146.0	MODESTO	BUSSERON (IN)	SANDSTONE	42.0	264.0
104.0	CARBONDALE	DANVILLE	COAL	5.0	306.0
99.0	CARBONDALE		UNDERCLAY	1.0	311.0
98.0	CARBONDALE		GRAY SHALE	18.0	312.0
80.0	CARBONDALE		BLACK SHALE	4.0	330.0
76.0	CARBONDALE	JAMESTOWN	COAL	4.5	334.0
71.5	CARBONDALE	ANNA	BLACK SHALE	3.0	338.5
68.5	CARBONDALE	HERRIN	COAL	2.0	341.5
66.5	CARBONDALE		UNDERCLAY	0.5	343.5
66.0	CARBONDALE		SHALE	2.0	344.0
64.0	CARBONDALE		LIMESTONE	4.0	346.0
60.0	CARBONDALE		SHALE	23.0	350.0
37.0	CARBONDALE		BLACK SHALE	32.0	373.0
5.0	CARBONDALE	BRIAR HILL	COAL	1.0	405.0
4.0	CARBONDALE		UNDERCLAY	0.5	406.0
3.5	CARBONDALE		UNCLASSIFIED	10.5	406.5
-7.0	CARBONDALE	ST. DAVID	LIMESTONE	2.5	417.0
-9.5	CARBONDALE	TURNER MINE	BLACK SHALE	3.5	419.5
-13.0	CARBONDALE	SPRINGFIELD	COAL	4.5	423.0
-17.5	CARBONDALE		UNDERCLAY	0.5	427.5
-18.0	CARBONDALE		SHALE	10.0	428.0
-28.0	CARBONDALE		SANDSTONE	88.0	438.0
-116.0	CARBONDALE		BLACK SHALE	0.7	526.0
-116.7	CARBONDALE		UNCLASSIFIED	2.3	526.7
-119.0	CARBONDALE	EXCELLO	BLACK SHALE	3.0	529.0
-122.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	532.0
-124.5	CARBONDALE		UNDERCLAY	0.5	534.5
-125.0	CARBONDALE		SHALE	11.0	535.0
-136.0	CARBONDALE		BLACK SHALE	0.2	546.0

-136.2	CARBONDALE	SURVANT	COAL	4.9	546.2
-141.1	CARBONDALE		GRAY SHALE	0.4	551.1

MAPID: 10100060000C VERSION: 1

PROJECT: NCRDS87

COUNTY: LAWRENCE TWP/RNG: 4N 10W SECTION: 27 QUARTERS/FOOTAGES: 1250' N line, 3900' W line

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.505985 GEOLOGIST: B.SMITH

CONFIDENTIAL: N LATITUDE: 38.759065 DATE COLLECTED:

SURFACE ELEVATION (FT.): 414.0 LOGGED (FT.): 535.0 LOG TYPE: Drillers Log

SOURCE: MIAMI COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
414.0			UNCONSOLIDATED	98.0	0.0	
316.0	MODESTO		BLACK SHALE	1.0	98.0	
315.0	MODESTO		CLAYSTONE	2.0	99.0	
313.0	MODESTO		SHALE	79.0	101.0	
234.0	MODESTO		SANDSTONE	40.0	180.0	
194.0	MODESTO		SHALE	4.0	220.0	
190.0	MODESTO		SANDSTONE	16.0	224.0	
174.0	MODESTO		SHALE	25.0	240.0	
149.0	MODESTO	PIRTLE (IN)	COAL	1.5	265.0	
147.5	MODESTO		CLAYSTONE	3.5	266.5	
144.0	MODESTO		SHALE	8.0	270.0	
136.0	MODESTO	BUSSERON (IN)	SANDSTONE	23.0	278.0	
113.0	MODESTO		SHALE	1.5	301.0	
111.5	CARBONDALE	DANVILLE	COAL	4.5	302.5	UNCERTAIN CORRELATION
107.0	CARBONDALE		CLAYSTONE	5.0	307.0	
102.0	CARBONDALE		SHALE	14.0	312.0	
88.0	CARBONDALE		BLACK SHALE	4.0	326.0	
84.0	CARBONDALE	JAMESTOWN	BONE COAL	5.0	330.0	
79.0	CARBONDALE		CLAYSTONE	1.0	335.0	
78.0	CARBONDALE	BRERETON	LIMESTONE	3.0	336.0	
75.0	CARBONDALE	HERRIN	COAL	3.0	339.0	UNCERTAIN CORRELATION
72.0	CARBONDALE		CLAYSTONE	4.0	342.0	
68.0	CARBONDALE		LIMESTONE	4.0	346.0	
64.0	CARBONDALE		SHALE	15.0	350.0	
49.0	CARBONDALE		SANDSTONE	15.0	365.0	
34.0	CARBONDALE		SHALE	16.5	380.0	
17.5	CARBONDALE		BLACK SHALE	1.5	396.5	UNCERTAIN CORRELATION
16.0	CARBONDALE	BRIAR HILL	COAL	1.5	398.0	UNCERTAIN CORRELATION
14.5	CARBONDALE		CLAYSTONE	3.5	399.5	
11.0	CARBONDALE		SHALE	10.0	403.0	
1.0	CARBONDALE	ST. DAVID	LIMESTONE	1.5	413.0	
-0.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	414.5	
-3.0	CARBONDALE		SHALE	1.5	417.0	
-4.5	CARBONDALE	SPRINGFIELD	COAL	4.3	418.5	UNCERTAIN CORRELATION
-8.8	CARBONDALE		CLAYSTONE	2.3	422.8	
-11.0	CARBONDALE		LIMESTONE	3.0	425.0	
-14.0	CARBONDALE		SHALE	7.0	428.0	
-21.0	CARBONDALE		SANDSTONE	72.0	435.0	
-93.0	CARBONDALE		SHALE	9.0	507.0	

-102.0	CARBONDALE		BLACK SHALE	1.0	516.0	
-103.0	CARBONDALE		UNCLASSIFIED	1.0	517.0	
-104.0	CARBONDALE	EXCELLO	BLACK SHALE	1.5	518.0	UNCERTAIN CORRELATION
-105.5	CARBONDALE	HOUCHIN CREEK	COAL	0.5	519.5	UNCERTAIN CORRELATION
-106.0	CARBONDALE		CLAYSTONE	1.0	520.0	
-107.0	CARBONDALE		SANDSTONE	9.5	521.0	
-116.5	CARBONDALE	SURVANT	COAL	4.1	530.5	
-120.6	CARBONDALE		SHALE	0.4	534.6	

MAPID: 10106776000C VERSION: 1

PROJECT: NCRDS88

COUNTY: LAWRENCE TWP/RNG: 4N 10W SECTION: 27 QUARTERS/FOOTAGES: 2700' S line, 100' W line of SW

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.519455 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.755612 DATE COLLECTED:

SURFACE ELEVATION (FT.): 412.0 LOGGED (FT.): 537.0 LOG TYPE: Drillers Log

SOURCE: MIAMI COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
412.0			UNCONSOLIDATED	96.0	0.0
316.0	MODESTO		BLUE SHALE	8.0	96.0
308.0	MODESTO		BLACK SHALE	3.0	104.0
305.0	MODESTO		SHALE	58.0	107.0
247.0	MODESTO	TRIVOLI	SANDY SHALE	8.0	165.0
239.0	MODESTO	TRIVOLI	SANDSTONE	10.0	173.0
229.0	MODESTO		SHALE	8.0	183.0
221.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	191.0
209.0	MODESTO		BLUE SHALE	27.0	203.0
182.0	MODESTO		SANDSTONE	5.2	230.0
176.8	MODESTO	PIRTLE (IN)	COAL	1.2	235.2
175.7	MODESTO		UNDERCLAY	0.7	236.3
175.0	MODESTO		BLUE SHALE	12.0	237.0
163.0	MODESTO	BUSSERON (IN)	SANDSTONE	31.0	249.0
132.0	MODESTO	BUSSERON (IN)	SANDY SHALE	20.5	280.0
111.5	CARBONDALE	DANVILLE	COAL	4.0	300.5
107.5	CARBONDALE		UNDERCLAY	2.5	304.5
105.0	CARBONDALE		GRAY SHALE	21.0	307.0
84.0	CARBONDALE		BLACK SHALE	2.0	328.0
82.0	CARBONDALE		COAL	2.5	330.0
79.5	CARBONDALE		BLACK SHALE	0.5	332.5
79.0	CARBONDALE	JAMESTOWN	COAL	2.0	333.0
77.0	CARBONDALE	ANNA	BLACK SHALE	1.0	335.0
76.0	CARBONDALE	HERRIN	COAL	0.5	336.0
75.5	CARBONDALE		UNDERCLAY	3.5	336.5
72.0	CARBONDALE		SHALE	20.0	340.0
52.0	CARBONDALE		SANDSTONE	20.0	360.0
32.0	CARBONDALE		BLUE SHALE	15.0	380.0
17.0	CARBONDALE		BLACK SHALE	3.0	395.0
14.0	CARBONDALE	BRIAR HILL	COAL	1.5	398.0
12.5	CARBONDALE		UNDERCLAY	2.5	399.5
10.0	CARBONDALE		BLUE SHALE	10.5	402.0
-0.5	CARBONDALE	ST. DAVID	LIMESTONE	1.4	412.5
-1.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	413.9
-3.0	CARBONDALE	SPRINGFIELD	COAL	4.5	415.0
-7.5	CARBONDALE		UNDERCLAY	2.5	419.5
-10.0	CARBONDALE		SHALE	6.0	422.0
-16.0	CARBONDALE		LIMESTONE	3.0	428.0
-19.0	CARBONDALE		SHALE	3.0	431.0

-22.0	CARBONDALE		SANDSTONE	46.0	434.0	
-68.0	CARBONDALE		SHALE	36.5	480.0	
-104.5	CARBONDALE		BLACK SHALE	0.5	516.5	
-105.0	CARBONDALE		UNCLASSIFIED	3.0	517.0	BLACK ROCK
-108.0	CARBONDALE	EXCELLO	BLACK SHALE	1.0	520.0	
-109.0	CARBONDALE	HOUCHIN CREEK	COAL	0.5	521.0	
-109.5	CARBONDALE		UNDERCLAY	0.3	521.5	
-109.8	CARBONDALE		SANDSTONE	12.0	521.8	
-121.8	CARBONDALE	SURVANT	COAL	2.3	533.8	
-124.0	CARBONDALE		GRAY SHALE	1.0	536.0	

MAPID: 10106776000C **VERSION:** 2 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 4N 10W **SECTION:** 27 **QUARTERS/FOOTAGES:** 2700' S line, 100' W line of SW
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.519455 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.755612 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 412.0 **LOGGED (FT.):** 521.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: 2.3' IV, FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
221.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	191.0	
112.0	CARBONDALE	DANVILLE	COAL	4.0	300.0	
82.0	CARBONDALE	JAMESTOWN	COAL	2.5	330.0	
79.0	CARBONDALE	HERRIN	COAL	2.0	333.0	
-3.0	CARBONDALE	SPRINGFIELD	COAL	4.5	415.0	
-109.0	CARBONDALE	HOUCHIN CREEK	COAL	0.5	521.0	

MAPID: 10100605000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 4N 10W **SECTION:** 29 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.555996 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.761452 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 418.0 **LOGGED (FT.):** 585.5 **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	
264.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	154.0	
145.0	CARBONDALE	DANVILLE	COAL	5.0	273.0	
112.0	CARBONDALE	JAMESTOWN	COAL	4.0	306.0	
32.0	CARBONDALE	SPRINGFIELD	COAL	4.0	386.0	
-82.0	CARBONDALE	HOUCHIN CREEK	COAL	-	500.0	
-152.0	CARBONDALE	COLCHESTER	COAL	-	570.0	
-163.0	SPOON	SEELYVILLE	COAL	4.5	581.0	

MAPID: 10100606000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 10W SECTION: 29 QUARTERS/FOOTAGES: SW SE SW

QUADRANGLE: VINCENNES LONGITUDE: -87.551546 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.748802 DATE COLLECTED:

SURFACE ELEVATION (FT.): 417.0 LOGGED (FT.): 572.0 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
252.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	165.0
131.0	CARBONDALE	DANVILLE	COAL	3.5	286.0
101.0	CARBONDALE	JAMESTOWN	COAL	-	316.0
22.0	CARBONDALE	SPRINGFIELD	COAL	2.5	395.0
-87.0	CARBONDALE	HOUCHIN CREEK	COAL	-	504.0
-155.0	CARBONDALE	COLCHESTER	COAL	-	572.0

MAPID: 10100607000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 10W SECTION: 29 QUARTERS/FOOTAGES: NE SW NW

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.553718 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.757838 DATE COLLECTED:

SURFACE ELEVATION (FT.): 420.0 LOGGED (FT.): 616.0 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
241.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	179.0
120.0	CARBONDALE	DANVILLE	COAL	4.0	300.0
88.0	CARBONDALE	JAMESTOWN	COAL	4.0	332.0
81.0	CARBONDALE	HERRIN	COAL	1.5	339.0
7.0	CARBONDALE	SPRINGFIELD	COAL	3.0	413.0
-112.0	CARBONDALE	HOUCHIN CREEK	COAL	-	532.0
-179.0	CARBONDALE	COLCHESTER	COAL	-	599.0
-193.0	SPOON	SEELYVILLE	COAL	3.0	613.0

MAPID: 10100633000C VERSION: 1

PROJECT: NCRDS88

COUNTY: LAWRENCE TWP/RNG: 4N 10W SECTION: 30 QUARTERS/FOOTAGES:

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.566133

GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.755072

DATE COLLECTED:

SURFACE ELEVATION (FT.): 425.9 LOGGED (FT.): 390.0

LOG TYPE: Drillers Log

SOURCE: SHELL PETROLEUM CORP.

WELL TYPE: Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
425.9			UNCONSOLIDATED	112.0	0.0
313.9	MODESTO		BLUE SHALE	14.0	112.0
299.9	MODESTO	TRIVOLI	SANDSTONE	21.0	126.0
278.9	MODESTO		SHALE	4.0	147.0
274.9	MODESTO	WEST FRANKLIN	LIMESTONE	2.0	151.0
272.9	MODESTO	WEST FRANKLIN	SHALE	2.0	153.0
270.9	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	155.0
265.9	MODESTO		SHALE	16.0	160.0
249.9	MODESTO		SANDSTONE	4.0	176.0
245.9	MODESTO		SHALE	28.5	180.0
217.4	MODESTO	PIRTLE (IN)	COAL	2.5	208.5
214.9	MODESTO		UNDERCLAY	1.0	211.0
213.9	MODESTO		LIMESTONE W/ SHALE	32.0	212.0
181.9	MODESTO		BLUE SHALE	25.0	244.0
156.9	CARBONDALE	DANVILLE	COAL	4.0	269.0
152.9	CARBONDALE		UNDERCLAY	3.0	273.0
149.9	CARBONDALE		BLUE SHALE	19.0	276.0
130.9	CARBONDALE		BLACK SHALE	5.0	295.0
125.9	CARBONDALE	JAMESTOWN	COAL	5.0	300.0
120.9	CARBONDALE		BLUE SHALE	2.0	305.0
118.9	CARBONDALE	HERRIN	COAL	1.5	307.0
117.4	CARBONDALE		UNDERCLAY	2.5	308.5
114.9	CARBONDALE		SHALE	18.0	311.0
96.9	CARBONDALE		LIMESTONE W/ SHALE	5.0	329.0
91.9	CARBONDALE		BLUE SHALE	21.0	334.0
70.9	CARBONDALE	BRIAR HILL	COAL WITH SHALE	2.0	355.0
68.9	CARBONDALE		SANDSTONE	3.0	357.0
65.9	CARBONDALE		BROWN SHALE	18.0	360.0
47.9	CARBONDALE	ST. DAVID	LIMESTONE	4.0	378.0
43.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	382.0
42.9	CARBONDALE	SPRINGFIELD	COAL	3.5	383.0
39.4	CARBONDALE		UNDERCLAY	3.5	386.5

MAPID: 10100633000C VERSION: 2

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 10W SECTION: 30 QUARTERS/FOOTAGES:

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.566133

GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.755072

DATE COLLECTED:

SURFACE ELEVATION (FT.): 426.0 LOGGED (FT.): 386.5

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Coal Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
271.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	155.0
157.0	CARBONDALE	DANVILLE	COAL	4.0	269.0
126.0	CARBONDALE	JAMESTOWN	COAL	5.0	300.0
119.0	CARBONDALE	HERRIN	COAL	1.5	307.0
43.0	CARBONDALE	SPRINGFIELD	COAL	3.5	383.0

MAPID: 10100604000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 10W SECTION: 32 QUARTERS/FOOTAGES: NE NE SW

QUADRANGLE: VINCENNES LONGITUDE: -87.549237

GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.739673

DATE COLLECTED:

SURFACE ELEVATION (FT.): 421.0 LOGGED (FT.): 607.0

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
229.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	192.0
111.0	CARBONDALE	DANVILLE	COAL	5.0	310.0
80.0	CARBONDALE	JAMESTOWN	COAL	5.0	341.0
2.0	CARBONDALE	SPRINGFIELD	COAL	3.5	419.0
-109.0	CARBONDALE	HOUCHIN CREEK	COAL	-	530.0
-186.0	CARBONDALE	COLCHESTER	COAL	-	607.0

MAPID: 10100603000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 10W SECTION: 34 QUARTERS/FOOTAGES: 330' S line, 400' E line of NW

QUADRANGLE: VINCENNES LONGITUDE: -87.512082 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.741812 DATE COLLECTED:

SURFACE ELEVATION (FT.): 416.0 LOGGED (FT.): 612.0 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
223.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	193.0
106.0	CARBONDALE	DANVILLE	COAL	3.0	310.0
81.0	CARBONDALE	JAMESTOWN	COAL	5.0	335.0
6.0	CARBONDALE	SPRINGFIELD	COAL	3.5	410.0
-112.0	CARBONDALE	HOUCHIN CREEK	COAL	-	528.0
-182.0	CARBONDALE	COLCHESTER	COAL	-	598.0
-194.0	SPOON	SEELYVILLE	COAL	2.0	610.0

MAPID: 10101122000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 11W SECTION: 1 QUARTERS/FOOTAGES: NW NW SE

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.584058 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.813489 DATE COLLECTED:

SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 640.5 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
221.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	207.0
103.0	CARBONDALE	DANVILLE	COAL	3.5	325.0
54.0	CARBONDALE	JAMESTOWN	COAL	3.5	374.0
49.0	CARBONDALE	HERRIN	COAL	2.5	379.0
-40.0	CARBONDALE	SPRINGFIELD	COAL	6.0	468.0
-135.0	CARBONDALE	HOUCHIN CREEK	COAL	-	563.0
-196.0	CARBONDALE	COLCHESTER	COAL	-	624.0
-209.0	SPOON	SEELYVILLE	COAL	3.5	637.0

MAPID: 10107027000C VERSION: 1

PROJECT: CONF

COUNTY: LAWRENCE TWP/RNG: 4N 11W SECTION: 1 QUARTERS/FOOTAGES: 800' S line, 1' E line of SE SW

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.585253 GEOLOGIST: LOG BOOK

CONFIDENTIAL: N LATITUDE: 38.809226 DATE COLLECTED: 8 / 21 / 1968

SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 484.5 LOG TYPE: Drillers Log

SOURCE: TEMPLETON COAL CO 8 WELL TYPE: Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
150.2	MODESTO	PIRTLE (IN)	COAL	1.4	279.8
94.3	SHELburn	DANVILLE	COAL	2.5	335.7
47.7	SHELburn	JAMESTOWN	COAL	3.5	382.3
41.7	CARBONDALE	HERRIN	COAL	1.6	388.3
-14.8	CARBONDALE	BRIAR HILL	COAL	2.7	444.8
-49.1	CARBONDALE	SPRINGFIELD	COAL	6.0	479.1

MAPID: 10107065000C VERSION: 1

PROJECT: CONF

COUNTY: LAWRENCE TWP/RNG: 4N 11W SECTION: 1 QUARTERS/FOOTAGES: 46' S line, 9' E line of NW NE

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.58057 GEOLOGIST: LOG BOOK

CONFIDENTIAL: N LATITUDE: 38.818226 DATE COLLECTED: 11 / 4 / 1968

SURFACE ELEVATION (FT.): 445.0 LOGGED (FT.): 477.0 LOG TYPE: Survey Core Study

SOURCE: TEMPLETON COAL CO 18 WELL TYPE: Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
181.6	MODESTO	PIRTLE (IN)	COAL	1.6	263.4
118.6	SHELburn	DANVILLE	COAL	2.6	326.4
72.3	SHELburn	JAMESTOWN	COAL	3.3	372.7
67.2	CARBONDALE	HERRIN	COAL	1.8	377.8
19.6	CARBONDALE	BRIAR HILL	COAL	2.3	425.4
-25.3	CARBONDALE	SPRINGFIELD	COAL	5.4	470.3

MAPID: 10107065000C VERSION: 2

PROJECT: AVAIL

COUNTY: LAWRENCE TWP/RNG: 4N 11W SECTION: 1 QUARTERS/FOOTAGES: 46' S line, 9' E line of NW NE

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.58057 GEOLOGIST: UITEMP

CONFIDENTIAL: N LATITUDE: 38.818226 DATE COLLECTED: 11 / 4 / 1968

SURFACE ELEVATION (FT.): 445.0 LOGGED (FT.): 477.0 LOG TYPE: Drillers Log

SOURCE: TEMPLETON COAL CO 18 WELL TYPE: Coal Test

COMMENT: CONFIDENTIAL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
445.0	PLEISTOCENE		CLAY	4.0	0.0	BROWN
441.0	PLEISTOCENE		SAND	14.5	4.0	BROWN
426.5	PLEISTOCENE		CLAY	16.5	18.5	GRAY
410.0	PLEISTOCENE		SAND	9.0	35.0	GRAY
401.0	PLEISTOCENE		CLAY	24.0	44.0	GRAY
377.0	PLEISTOCENE		SANDY CLAY	11.7	68.0	
365.3			SANDSTONE	25.8	79.7	GRAY
339.5			GRAY SHALE	21.5	105.5	
318.0			GRAY SHALE	8.0	127.0	
310.0			SANDSTONE	13.0	135.0	GRAY
297.0			GRAY SHALE	7.5	148.0	
289.5			SANDSTONE	50.0	155.5	GRAY
239.5			GRAY SHALE	3.3	205.5	
236.2	MODESTO	WEST FRANKLIN	LIMESTONE	5.6	208.8	GRAY
230.6	MODESTO	WEST FRANKLIN	GRAY SHALE	14.6	214.4	
216.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.9	229.0	GRAY
212.1	MODESTO		GRAY SHALE	3.6	232.9	
208.5	MODESTO		GRAY SHALE	22.5	236.5	
186.0	MODESTO		GRAY SHALE	4.4	259.0	
181.6	MODESTO	PIRTLE (IN)	COAL	1.6	263.4	BLACK
180.0	MODESTO		GRAY SHALE	2.3	265.0	
177.7	MODESTO		GRAY SHALE	42.8	267.3	
135.0	MODESTO		GRAY SHALE	16.4	310.0	
118.6	CARBONDALE	DANVILLE	COAL	2.6	326.4	BLACK
116.0	CARBONDALE		UNDERCLAY	6.6	329.0	SHALEY;GY
109.4	CARBONDALE		CALCAREOUS SHALE	0.8	335.6	
108.7	CARBONDALE		GRAY SHALE	2.8	336.3	
105.9	CARBONDALE		CALCAREOUS SHALE	3.5	339.1	
102.4	CARBONDALE		GRAY SHALE	3.4	342.6	
99.0	CARBONDALE		GRAY SHALE	16.0	346.0	
83.0	CARBONDALE		GRAY SHALE	10.7	362.0	
72.3	CARBONDALE	JAMESTOWN	COAL	3.3	372.7	BLACK
69.1	CARBONDALE		GRAY SHALE	1.9	375.9	
67.2	CARBONDALE	HERRIN	COAL	1.8	377.8	BLACK
65.4	CARBONDALE		UNDERCLAY	2.4	379.6	GRAY
63.0	CARBONDALE		GRAY SHALE	3.3	382.0	
59.7	CARBONDALE		CALCAREOUS SHALE	3.3	385.3	
56.3	CARBONDALE		GRAY SHALE	1.8	388.7	
54.5	CARBONDALE		GRAY SHALE	12.5	390.5	

42.0	CARBONDALE		SANDSTONE	12.5	403.0	GRAY
29.5	CARBONDALE		GRAY SHALE	9.9	415.5	
19.6	CARBONDALE	BRIAR HILL	COAL	2.3	425.4	BLACK
17.2	CARBONDALE		GRAY SHALE	14.3	427.8	
3.0	CARBONDALE		SANDSTONE	6.7	442.0	GRAY
-3.7	CARBONDALE		GRAY SHALE	12.8	448.7	
-16.5	CARBONDALE		LIMESTONE	3.8	461.5	GRAY
-20.3	CARBONDALE	TURNER MINE	BLACK SHALE	5.0	465.3	
-25.3	CARBONDALE	SPRINGFIELD	COAL	5.3	470.3	BLACK
-30.7	CARBONDALE		UNDERCLAY	1.3	475.7	GRAY

MAPID: 10107118000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: LAWRENCE **TWP/RNG:** 4N 11W **SECTION:** 1 **QUARTERS/FOOTAGES:** 55' S line, 147' W line of NW
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.593974 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.814605 **DATE COLLECTED:** 11 / 11 / 1968
SURFACE ELEVATION (FT.): 445.0 **LOGGED (FT.):** 478.0 **LOG TYPE:** Drillers Log
SOURCE: TEMPLETON COAL CO 22 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
168.6	MODESTO	PIRTLE (IN)	COAL	1.3	276.4	
113.6	SHELBURN	DANVILLE	COAL	2.8	331.4	
66.6	SHELBURN	JAMESTOWN	COAL	3.6	378.4	
60.7	CARBONDALE	HERRIN	COAL	1.8	384.3	
6.2	CARBONDALE	BRIAR HILL	COAL	2.8	438.8	
-26.8	CARBONDALE	SPRINGFIELD	COAL	5.3	471.8	

MAPID: 10107118000C VERSION: 2

PROJECT: AVAIL

COUNTY: LAWRENCE TWP/RNG: 4N 11W SECTION: 1 QUARTERS/FOOTAGES: 55' S line, 147' W line of NW

QUADRANGLE: RUSSELLVILLE

LONGITUDE: -87.593974

GEOLOGIST: UITEMP

CONFIDENTIAL: N

LATITUDE: 38.814605

DATE COLLECTED: 11 / 11 / 1968

SURFACE ELEVATION (FT.): 445.0

LOGGED (FT.): 478.0

LOG TYPE: Drillers Log

SOURCE: TEMPLETON COAL CO 22

WELL TYPE: Coal Test

COMMENT: CONFIDENTIAL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
445.0	PLEISTOCENE		CLAY	2.5	0.0	BROWN
442.5	PLEISTOCENE		CLAY	12.0	2.5	GRAY
430.5			GRAY SHALE	9.5	14.5	
421.0			GRAY SHALE	19.5	24.0	
401.5			GRAY SHALE	21.5	43.5	
380.0			GRAY SHALE	18.3	65.0	
361.7			BLACK SHALE	2.2	83.3	
359.5			GRAY SHALE	25.5	85.5	
334.0			GRAY SHALE	3.5	111.0	
330.5			GRAY SHALE	2.0	114.5	
328.5			GRAY SHALE	21.5	116.5	
307.0			SANDSTONE	81.0	138.0	GRAY
226.0			GRAY SHALE	2.2	219.0	
223.8	MODESTO	WEST FRANKLIN	LIMESTONE	1.2	221.2	GRAY
222.7	MODESTO	WEST FRANKLIN	CALCAREOUS SHALE	0.4	222.3	
222.2	MODESTO	WEST FRANKLIN	LIMESTONE	5.3	222.8	GRAY
217.0	MODESTO	WEST FRANKLIN	GRAY SHALE	7.5	228.0	
209.5	MODESTO	WEST FRANKLIN	GRAY SHALE	7.3	235.5	
202.2	MODESTO	WEST FRANKLIN	LIMESTONE	3.7	242.8	GRAY
198.6	MODESTO		GRAY SHALE	3.6	246.4	
195.0	MODESTO		GRAY SHALE	23.5	250.0	
171.5	MODESTO		GRAY SHALE	2.9	273.5	
168.6	MODESTO	PIRTLE (IN)	COAL	1.3	276.4	BLACK
167.3	MODESTO		GRAY SHALE	2.8	277.7	
164.5	MODESTO		GRAY SHALE	45.0	280.5	
119.5	MODESTO		GRAY SHALE	5.9	325.5	
113.6	CARBONDALE	DANVILLE	COAL	2.8	331.4	BLACK
110.7	CARBONDALE		UNDERCLAY	3.8	334.3	SHALEY,GY
107.0	CARBONDALE		GRAY SHALE	5.3	338.0	
101.7	CARBONDALE		CALCAREOUS SHALE	1.8	343.3	
99.8	CARBONDALE		GRAY SHALE	2.8	345.2	
97.0	CARBONDALE		GRAY SHALE	21.5	348.0	
75.5	CARBONDALE		GRAY SHALE	8.9	369.5	
66.6	CARBONDALE	JAMESTOWN	COAL	3.6	378.4	BLACK
63.0	CARBONDALE		GRAY SHALE	2.3	382.0	
60.7	CARBONDALE	HERRIN	COAL	1.8	384.3	BLACK
59.0	CARBONDALE		UNDERCLAY	2.3	386.0	GRAY
56.7	CARBONDALE		GRAY SHALE	3.0	388.3	
53.7	CARBONDALE		CALCAREOUS SHALE	2.6	391.3	

51.1	CARBONDALE		CLAYSTONE & SILTSTONE	2.6	393.9	SHALEY,GY
48.5	CARBONDALE		GRAY SHALE	29.5	396.5	
19.0	CARBONDALE		GRAY SHALE	12.8	426.0	
6.2	CARBONDALE	BRIAR HILL	COAL	2.8	438.8	BLACK
3.3	CARBONDALE		GRAY SHALE	16.8	441.7	
-13.5	CARBONDALE		GRAY SHALE	6.9	458.5	
-20.4	CARBONDALE		LIMESTONE	1.8	465.4	GRAY
-22.3	CARBONDALE	TURNER MINE	BLACK SHALE	4.6	467.3	
-26.8	CARBONDALE	SPRINGFIELD	COAL	5.3	471.8	BLACK
-32.1	CARBONDALE		UNDERCLAY	0.9	477.1	GRAY

MAPID: 10100598000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 4N 11W **SECTION:** 2 **QUARTERS/FOOTAGES:** SE SW SE
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.600472 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.807985 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 711.0 **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
230.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	270.0	
119.0	CARBONDALE	DANVILLE	COAL	3.0	381.0	
73.0	CARBONDALE	JAMESTOWN	COAL	3.0	427.0	
68.0	CARBONDALE	HERRIN	COAL	-	432.0	
-9.0	CARBONDALE	SPRINGFIELD	COAL	3.5	509.0	
-125.0	CARBONDALE	HOUCHIN CREEK	COAL	-	625.0	
-186.0	CARBONDALE	COLCHESTER	COAL	-	686.0	
-207.0	SPOON	SEELYVILLE	COAL	4.0	707.0	

MAPID: 10101715000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 11W SECTION: 2 QUARTERS/FOOTAGES: SW NW SE

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.602826 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.811693 DATE COLLECTED:

SURFACE ELEVATION (FT.): 528.0 LOGGED (FT.): 733.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	300.0
120.0	CARBONDALE	DANVILLE	COAL	4.0	408.0
72.0	CARBONDALE	JAMESTOWN	COAL	4.0	456.0
67.0	CARBONDALE	HERRIN	COAL	2.0	461.0
-8.0	CARBONDALE	SPRINGFIELD	COAL	4.0	536.0
-122.0	CARBONDALE	HOUCHIN CREEK	COAL	-	650.0
-184.0	CARBONDALE	COLCHESTER	COAL	-	712.0
-200.0	SPOON	SEELYVILLE	COAL	5.0	728.0

MAPID: 10100705000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 11W SECTION: 3 QUARTERS/FOOTAGES: NW NE NE

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.617089 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.820974 DATE COLLECTED:

SURFACE ELEVATION (FT.): 516.0 LOGGED (FT.): 770.5 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
180.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	336.0
56.0	CARBONDALE	DANVILLE	COAL	4.5	460.0
14.0	CARBONDALE	JAMESTOWN	COAL	-	502.0
8.0	CARBONDALE	HERRIN	COAL	-	508.0
-71.0	CARBONDALE	SPRINGFIELD	COAL	5.0	587.0
-174.0	CARBONDALE	HOUCHIN CREEK	COAL	-	690.0
-242.0	CARBONDALE	COLCHESTER	COAL	-	758.0
-250.0	SPOON	SEELYVILLE	COAL	4.5	766.0

MAPID: 10101164000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 4N 11W

SECTION: 3

QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: BIRDS

LONGITUDE: -87.631374

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.8081

DATE COLLECTED:

SURFACE ELEVATION (FT.): 454.0

LOGGED (FT.): 671.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
211.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	243.0
105.0	CARBONDALE	DANVILLE	COAL	4.5	349.0
55.0	CARBONDALE	JAMESTOWN	COAL	4.0	399.0
49.0	CARBONDALE	HERRIN	COAL	-	405.0
-24.0	CARBONDALE	SPRINGFIELD	COAL	4.0	478.0
-136.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0
-204.0	CARBONDALE	COLCHESTER	COAL	-	658.0
-213.0	SPOON	SEELYVILLE	COAL	4.0	667.0

MAPID: 10107120000C VERSION: 1

PROJECT: AVAIL

COUNTY: LAWRENCE TWP/RNG: 4N 11W SECTION: 3 QUARTERS/FOOTAGES: 201' N line, 177' E line of NW

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.623661 GEOLOGIST: UITEMP

CONFIDENTIAL: N LATITUDE: 38.821385 DATE COLLECTED: 12 / 6 / 1968

SURFACE ELEVATION (FT.): 525.0 LOGGED (FT.): 612.0 LOG TYPE: Drillers Log

SOURCE: TEMPLETON COAL CO 24D WELL TYPE: Coal Test

COMMENT: CONFIDENTIAL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
525.0	PLEISTOCENE		CLAY	8.0	0.0	BROWN
517.0			SANDSTONE	26.5	8.0	BROWN
490.5			SANDSTONE	5.5	34.5	GRAY
485.0			GRAY SHALE	6.5	40.0	
478.5			GRAY SHALE	9.8	46.5	
468.7			CALCAREOUS SHALE	3.7	56.3	
465.0			GRAY SHALE	2.3	60.0	
462.7			COAL	0.8	62.3	BLACK
461.8			GRAY SHALE	7.3	63.2	
454.5			CALCAREOUS SHALE	4.2	70.5	
450.3			GRAY SHALE	24.3	74.7	
426.0			GRAY SHALE	9.5	99.0	
416.5			BLACK SHALE	1.8	108.5	
414.7			GRAY SHALE	1.7	110.3	
413.0			GRAY SHALE	31.0	112.0	
382.0			COAL	0.4	143.0	BLACK
381.6			GRAY SHALE	2.6	143.4	
379.0			GRAY SHALE	66.0	146.0	
313.0			SANDSTONE	20.5	212.0	GRAY
292.5			GRAY SHALE	35.5	232.5	
257.0			GRAY SHALE	10.5	268.0	
246.5			BLACK SHALE	2.3	278.5	
244.2			GRAY SHALE	2.2	280.8	
242.0			GRAY SHALE	13.5	283.0	
228.5			SANDSTONE	59.0	296.5	GRAY
169.5	MODESTO		GRAY SHALE	1.9	355.5	
167.6	MODESTO	WEST FRANKLIN	LIMESTONE	0.8	357.4	GRAY
166.8	MODESTO	WEST FRANKLIN	GRAY SHALE	1.6	358.2	
165.2	MODESTO	WEST FRANKLIN	LIMESTONE	6.7	359.8	GRAY
158.6	MODESTO		GRAY SHALE	3.6	366.4	
155.0	MODESTO		GRAY SHALE	40.5	370.0	
114.5	MODESTO		GRAY SHALE	6.3	410.5	
108.2	MODESTO	PIRTLE (IN)	COAL	1.3	416.8	BLACK
106.9	MODESTO		GRAY SHALE	3.4	418.1	
103.5	MODESTO		GRAY SHALE	23.5	421.5	
80.0	MODESTO		SANDSTONE	27.0	445.0	GRAY
53.0	MODESTO		GRAY SHALE	3.4	472.0	
49.6	CARBONDALE	DANVILLE	COAL	2.8	475.4	BLACK
46.7	CARBONDALE		UNDERCLAY	4.3	478.3	SHALEY;GY

42.4	CARBONDALE		CALCAREOUS SHALE	0.5	482.6	
41.9	CARBONDALE		CLAYSTONE & SILTSTONE	1.9	483.1	SHALEY,GY
40.0	CARBONDALE		GRAY SHALE	11.0	485.0	
29.0	CARBONDALE		SANDSTONE	20.5	496.0	GRAY
8.5	CARBONDALE		GRAY SHALE	9.7	516.5	
-1.2	CARBONDALE	JAMESTOWN	COAL	3.4	526.2	BLACK
-4.6	CARBONDALE		GRAY SHALE	2.2	529.6	
-6.8	CARBONDALE	HERRIN	COAL	1.7	531.8	BLACK
-8.4	CARBONDALE		UNDERCLAY	0.8	533.4	GRAY
-9.2	CARBONDALE		CALCAREOUS SHALE	2.3	534.2	
-11.5	CARBONDALE		CLAYSTONE & SILTSTONE	2.5	536.5	SHALEY,GY
-14.0	CARBONDALE		SANDY SHALE	12.5	539.0	
-26.5	CARBONDALE		SANDSTONE	16.0	551.5	GRAY
-42.5	CARBONDALE		GRAY SHALE	10.1	567.5	
-52.6	CARBONDALE	BRIAR HILL	COAL	2.3	577.6	BLACK
-54.8	CARBONDALE		GRAY SHALE	13.2	579.8	
-68.0	CARBONDALE		GRAY SHALE	6.7	593.0	
-74.7	CARBONDALE	ST. DAVID	LIMESTONE	3.9	599.7	GRAY
-78.6	CARBONDALE	TURNER MINE	BLACK SHALE	2.2	603.6	
-80.8	CARBONDALE	SPRINGFIELD	COAL	4.6	605.8	BLACK
-85.3	CARBONDALE		UNDERCLAY	1.7	610.3	GRAY

MAPID: 10100596000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 4N 11W **SECTION:** 5 **QUARTERS/FOOTAGES:** NW NW NE
QUADRANGLE: BIRDS **LONGITUDE:** -87.659723 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.821166 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 451.0 **LOGGED (FT.):** 704.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
192.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	259.0
83.0	CARBONDALE	DANVILLE	COAL	3.0	368.0
31.0	CARBONDALE	JAMESTOWN	COAL	-	420.0
-44.0	CARBONDALE	SPRINGFIELD	COAL	-	495.0
-154.0	CARBONDALE	HOUCHIN CREEK	COAL	-	605.0
-239.0	CARBONDALE	COLCHESTER	COAL	-	690.0
-249.0	SPOON	SEELYVILLE	COAL	4.0	700.0

MAPID: 10100137000C VERSION: 1

PROJECT: NCRDS88

COUNTY: LAWRENCE TWP/RNG: 4N 11W SECTION: 6 QUARTERS/FOOTAGES: NW SE NE

QUADRANGLE: BIRDS LONGITUDE: -87.673721 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.817497 DATE COLLECTED:

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 421.5 LOG TYPE: Drillers Log

SOURCE: STANDARD COAL CO. WELL TYPE: Coal Test

COMMENT: CORR. FROM LOG WHICH IS MISSING 100 FT.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0			UNCONSOLIDATED	88.0	0.0	
352.0	BOND		SANDY SHALE	28.0	88.0	
324.0	BOND	MT. CARMEL	SANDSTONE	34.0	116.0	APPROXIMATE BASE OF BOND FM.
290.0	MODESTO		BLACK SHALE	4.0	150.0	
286.0	MODESTO		GRAY SHALE	10.0	154.0	
276.0	MODESTO	TRIVOLI	SANDSTONE	85.0	164.0	
191.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	249.0	
185.0	MODESTO	WEST FRANKLIN	GRAY SHALE	8.0	255.0	
177.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	263.0	
174.0	MODESTO		UNKNOWN	100.0	266.0	MISSING ON LOG
74.0	CARBONDALE	DANVILLE	COAL	4.8	366.0	
69.2	CARBONDALE		UNDERCLAY	3.3	370.8	
66.0	CARBONDALE		GRAY SHALE	16.0	374.0	
50.0	CARBONDALE		BROWN SHALE	22.0	390.0	
28.0	CARBONDALE	JAMESTOWN	COAL	4.7	412.0	
23.3	CARBONDALE	ANNA	BLACK SHALE	0.3	416.7	
23.0	CARBONDALE	HERRIN	COAL	4.5	417.0	

MAPID: 10100137000C VERSION: 2

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 11W SECTION: 6 QUARTERS/FOOTAGES: NW SE NE

QUADRANGLE: BIRDS LONGITUDE: -87.673721 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.817497 DATE COLLECTED:

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 421.5 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Coal Test

COMMENT: 100' ERROR IN LOG, OK FROM #7 DOWN?

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
191.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	249.0	
74.0	CARBONDALE	DANVILLE	COAL	4.8	366.0	
28.0	CARBONDALE	JAMESTOWN	COAL	4.7	412.0	
23.0	CARBONDALE	HERRIN	COAL	4.5	417.0	

MAPID: 10100138000C VERSION: 1

PROJECT: NCRDS87

COUNTY: LAWRENCE TWP/RNG: 4N 11W SECTION: 7 QUARTERS/FOOTAGES: NE NE SE

QUADRANGLE: BIRDS LONGITUDE: -87.671512 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 38.798959 DATE COLLECTED:

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 440.3 LOG TYPE: Drillers Log

SOURCE: STANDARD COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
440.0			UNCONSOLIDATED	10.0	0.0
430.0	BOND		SANDSTONE	5.0	10.0
425.0	BOND		CLAYSTONE	35.0	15.0
390.0	BOND		SANDSTONE	18.0	50.0
372.0	BOND		GRAY SHALE	2.0	68.0
370.0	BOND		SANDSTONE	4.0	70.0
366.0	BOND		GRAY SHALE	16.0	74.0
350.0	BOND		SANDSTONE	10.0	90.0
340.0	BOND		SHALE	55.0	100.0
285.0	BOND		SANDSTONE	111.0	155.0
174.0	BOND	CARTHAGE	LIMESTONE	6.0	266.0
168.0	MODESTO		SHALE	59.0	272.0
109.0	MODESTO		COAL	2.0	331.0
107.0	MODESTO		SHALE	45.5	333.0
61.5	CARBONDALE	DANVILLE	COAL	4.5	378.5
57.0	CARBONDALE		UNDERCLAY	9.0	383.0
48.0	CARBONDALE		SHALE	40.0	392.0
8.0	CARBONDALE	HERRIN	COAL	4.5	432.0
3.5	CARBONDALE		SHALE	3.8	436.5

MAPID: 10100138000C VERSION: 2

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 11W SECTION: 7 QUARTERS/FOOTAGES: NE NE SE

QUADRANGLE: BIRDS LONGITUDE: -87.671512 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.798959 DATE COLLECTED:

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 436.5 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Coal Test

COMMENT: TD 440', GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
174.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	266.0
62.0	CARBONDALE	DANVILLE	COAL	4.5	378.0
8.0	CARBONDALE	JAMESTOWN	COAL	4.5	432.0

MAPID: 10100138000C VERSION: 3

PROJECT: NCRDS88

COUNTY: LAWRENCE TWP/RNG: 4N 11W SECTION: 7 QUARTERS/FOOTAGES: NE NE SE

QUADRANGLE: BIRDS LONGITUDE: -87.671512 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.798959 DATE COLLECTED:

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 440.3 LOG TYPE: Drillers Log

SOURCE: STANDARD COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0			UNCONSOLIDATED	68.0	0.0	
372.0	BOND		GRAY SHALE	2.0	68.0	
370.0	BOND		SAND	4.0	70.0	
366.0	BOND		GRAY SHALE	16.0	74.0	
350.0	BOND	MT. CARMEL	SANDSTONE	10.0	90.0	
340.0	BOND		BROWN SHALE	30.0	100.0	APPROXIMATE BASE OF BOND FM.
310.0	MODESTO		GRAY SHALE	25.0	130.0	SLATE
285.0	MODESTO	TRIVOLI	SANDSTONE	111.0	155.0	
174.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	266.0	
168.0	MODESTO		SHALE	59.0	272.0	
109.0	MODESTO	PIRTLE (IN)	COAL	2.0	331.0	
107.0	MODESTO		BLUE SHALE	4.0	333.0	
103.0	MODESTO		GRAY SHALE	41.5	337.0	SLATE
61.5	CARBONDALE	DANVILLE	COAL	4.5	378.5	
57.0	CARBONDALE		UNDERCLAY	9.0	383.0	
48.0	CARBONDALE		GRAY SHALE	20.0	392.0	SLATE
28.0	CARBONDALE		BROWN SHALE	20.0	412.0	SLATE
8.0	CARBONDALE	JAMESTOWN	COAL	4.5	432.0	
3.5	CARBONDALE	ANNA	BLACK SHALE	3.8	436.5	"SLATE BAND"
-0.3	CARBONDALE		UNCLASSIFIED	0.0	440.3	

MAPID: 10128107000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 4N 11W

SECTION: 8

QUARTERS/FOOTAGES: SE NE NE

QUADRANGLE: BIRDS

LONGITUDE: -87.652753

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.804438

DATE COLLECTED:

SURFACE ELEVATION (FT.): 446.0

LOGGED (FT.): 715.5

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
180.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	266.0
71.0	CARBONDALE	DANVILLE	COAL	3.5	375.0
18.0	CARBONDALE	JAMESTOWN	COAL	3.0	428.0
14.0	CARBONDALE	HERRIN	COAL	-	432.0
-57.0	CARBONDALE	SPRINGFIELD	COAL	3.0	503.0
-164.0	CARBONDALE	HOUCHIN CREEK	COAL	-	610.0
-233.0	CARBONDALE	COLCHESTER	COAL	-	679.0
-266.0	SPOON	SEELYVILLE	COAL	3.5	712.0

MAPID: 10100593000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 4N 11W

SECTION: 9

QUARTERS/FOOTAGES: NE NE SW

QUADRANGLE: BIRDS

LONGITUDE: -87.643311

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.79884

DATE COLLECTED:

SURFACE ELEVATION (FT.): 487.0

LOGGED (FT.): 729.5

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
190.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	297.0
83.0	CARBONDALE	DANVILLE	COAL	3.5	404.0
31.0	CARBONDALE	JAMESTOWN	COAL	3.5	456.0
27.0	CARBONDALE	HERRIN	COAL	3.0	460.0
-43.0	CARBONDALE	SPRINGFIELD	COAL	4.0	530.0
-153.0	CARBONDALE	HOUCHIN CREEK	COAL	-	640.0
-221.0	CARBONDALE	COLCHESTER	COAL	-	708.0
-238.0	SPOON	SEELYVILLE	COAL	4.5	725.0

MAPID: 10100597000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 4N 11W

SECTION: 9

QUARTERS/FOOTAGES: SE SW NW

QUADRANGLE: BIRDS

LONGITUDE: -87.648054

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.800713

DATE COLLECTED:

SURFACE ELEVATION (FT.): 484.0

LOGGED (FT.): 730.0

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	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	306.0
72.0	CARBONDALE	DANVILLE	COAL	4.0	412.0
16.0	CARBONDALE	JAMESTOWN	COAL	3.0	468.0
11.0	CARBONDALE	HERRIN	COAL	-	473.0
-64.0	CARBONDALE	SPRINGFIELD	COAL	4.0	548.0
-162.0	CARBONDALE	HOUCHIN CREEK	COAL	-	646.0
-229.0	CARBONDALE	COLCHESTER	COAL	-	713.0
-242.0	SPOON	SEELYVILLE	COAL	4.0	726.0

MAPID: 10100952000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 4N 11W

SECTION: 10

QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: RUSSELLVILLE

LONGITUDE: -87.614679

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.806171

DATE COLLECTED:

SURFACE ELEVATION (FT.): 454.0

LOGGED (FT.): 654.5

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
223.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	231.0
117.0	CARBONDALE	DANVILLE	COAL	5.0	337.0
67.0	CARBONDALE	JAMESTOWN	COAL	4.0	387.0
61.0	CARBONDALE	HERRIN	COAL	2.0	393.0
-8.0	CARBONDALE	SPRINGFIELD	COAL	3.5	462.0
-124.0	CARBONDALE	HOUCHIN CREEK	COAL	-	578.0
-188.0	CARBONDALE	COLCHESTER	COAL	-	642.0
-196.0	SPOON	SEELYVILLE	COAL	4.5	650.0

MAPID: 10101777000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 11W SECTION: 11 QUARTERS/FOOTAGES: SW NW NW
 QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.612255 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.804289 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 472.0 LOGGED (FT.): 674.0 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
222.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	250.0
114.0	CARBONDALE	DANVILLE	COAL	-	358.0
66.0	CARBONDALE	JAMESTOWN	COAL	4.0	406.0
61.0	CARBONDALE	HERRIN	COAL	2.0	411.0
-8.0	CARBONDALE	SPRINGFIELD	COAL	3.5	480.0
-124.0	CARBONDALE	HOUCHIN CREEK	COAL	-	596.0
-188.0	CARBONDALE	COLCHESTER	COAL	-	660.0
-198.0	SPOON	SEELYVILLE	COAL	4.0	670.0

MAPID: 10107061000C VERSION: 1

PROJECT: CONF

COUNTY: LAWRENCE TWP/RNG: 4N 11W SECTION: 11 QUARTERS/FOOTAGES: 520' N line, 556' W line of SW NE
 QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.601903 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 38.801856 DATE COLLECTED: 11 / 4 / 1968
 SURFACE ELEVATION (FT.): 465.0 LOGGED (FT.): 506.6 LOG TYPE: Survey Core Study
 SOURCE: TEMPLETON COAL CO 10 WELL TYPE: Coal Test
 COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-35.3	CARBONDALE	SPRINGFIELD	COAL	4.8	500.3

MAPID: 10107114000C VERSION: 1

PROJECT: CONF

COUNTY: LAWRENCE TWP/RNG: 4N 11W SECTION: 12 QUARTERS/FOOTAGES: 350' S line, 57' E line of NE SW
 QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.584976 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 38.796583 DATE COLLECTED: 10 / 15 / 1968
 SURFACE ELEVATION (FT.): 416.0 LOGGED (FT.): 395.0 LOG TYPE: Drillers Log
 SOURCE: TEMPLETON COAL CO 16 WELL TYPE: Coal Test
 COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
207.7	MODESTO	PIRTLE (IN)	COAL	1.1	208.3
144.5	SHELURN	DANVILLE	COAL	2.3	271.5
109.0	SHELURN	JAMESTOWN	COAL	3.4	307.0
103.0	CARBONDALE	HERRIN	COAL	1.7	313.0
54.6	CARBONDALE	BRIAR HILL	COAL	2.4	361.4
26.3	CARBONDALE	SPRINGFIELD	COAL	3.5	389.7

MAPID: 10100634000C VERSION: 1

PROJECT: NCRDS88

COUNTY: LAWRENCE TWP/RNG: 4N 11W SECTION: 13 QUARTERS/FOOTAGES: NW NW NE

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.583379 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.790885 DATE COLLECTED: 6 / 17 / 1958

SURFACE ELEVATION (FT.): 428.5 LOGGED (FT.): 422.0 LOG TYPE: Drillers Log

SOURCE: SHELL PETROLEUM CORP. WELL TYPE: Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
428.5			UNCONSOLIDATED	20.0	0.0	
408.5	BOND		BLUE SHALE	16.0	20.0	
392.5	BOND		COAL	0.5	36.0	
392.0	BOND		BLUE SHALE	23.5	36.5	
368.5	BOND		COAL WITH SHALE	4.0	60.0	
364.5	BOND		UNDERCLAY	3.0	64.0	
361.5	BOND		SANDY SHALE	10.0	67.0	
351.5	BOND	MT. CARMEL	SANDSTONE	21.0	77.0	APPROXIMATE BASE OF BOND FM.
330.5	MODESTO		BLUE SHALE	1.5	98.0	
329.0	MODESTO	WOMAC	COAL WITH SHALE	0.5	99.5	
328.5	MODESTO	CRAMER	LIMESTONE	2.0	100.0	
326.5	MODESTO	TRIVOLI	SANDSTONE	45.0	102.0	
281.5	MODESTO	TRIVOLI	BLUE SHALE	4.0	147.0	
277.5	MODESTO	TRIVOLI	SANDSTONE	20.0	151.0	
257.5	MODESTO	WEST FRANKLIN	LIMESTONE	2.0	171.0	
255.5	MODESTO	WEST FRANKLIN	LIMESTONE AND SANDSTONE	3.0	173.0	
252.5	MODESTO	WEST FRANKLIN	LIMESTONE W/ SHALE	5.0	176.0	
247.5	MODESTO	WEST FRANKLIN	LIMESTONE	1.5	181.0	
246.0	MODESTO	WEST FRANKLIN	LIMESTONE W/ SHALE	18.5	182.5	
227.5	MODESTO		BLUE SHALE	12.0	201.0	
215.5	MODESTO	PIRTLE (IN)	COAL	1.5	213.0	
214.0	MODESTO		BLUE SHALE	2.5	214.5	
211.5	MODESTO		LIMESTONE W/ SHALE	7.0	217.0	
204.5	MODESTO		SHALE	52.0	224.0	
152.5	CARBONDALE	DANVILLE	COAL	4.5	276.0	
148.0	CARBONDALE		UNDERCLAY	4.5	280.5	
143.5	CARBONDALE		SHALE	8.0	285.0	
135.5	CARBONDALE	BANKSTON FORK	LIMESTONE	13.0	293.0	
122.5	CARBONDALE		BLUE SHALE	3.0	306.0	
119.5	CARBONDALE		BLACK SHALE	6.0	309.0	
113.5	CARBONDALE	JAMESTOWN	COAL	4.0	315.0	
109.5	CARBONDALE		UNDERCLAY	0.5	319.0	
109.0	CARBONDALE	BRERETON	LIMESTONE	1.5	319.5	AND PYRITE
107.5	CARBONDALE	HERRIN	COAL	2.5	321.0	
105.0	CARBONDALE		UNDERCLAY	3.5	323.5	
101.5	CARBONDALE		LIMESTONE W/ SHALE	17.0	327.0	
84.5	CARBONDALE		BROWN SHALE	28.0	344.0	
56.5	CARBONDALE		BLACK SHALE	2.0	372.0	

54.5	CARBONDALE		CLAYSTONE	3.0	374.0
51.5	CARBONDALE		BROWN SHALE	2.0	377.0
49.5	CARBONDALE		BLACK SHALE	1.0	379.0
48.5	CARBONDALE	BRIAR HILL	COAL WITH SHALE	3.5	380.0
45.0	CARBONDALE		UNDERCLAY	0.5	383.5
44.5	CARBONDALE		BLUE SHALE	3.0	384.0
41.5	CARBONDALE	TURNER MINE	BLACK SHALE	5.0	387.0
36.5	CARBONDALE	SPRINGFIELD	COAL	4.0	392.0
32.5	CARBONDALE		UNDERCLAY	2.0	396.0
30.5	CARBONDALE		SHALE	24.0	398.0

MAPID: 10100634000C **VERSION:** 2 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 4N 11W **SECTION:** 13 **QUARTERS/FOOTAGES:** NW NW NE
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.583379 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.790885 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 429.0 **LOGGED (FT.):** 396.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
258.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	171.0
153.0	CARBONDALE	DANVILLE	COAL	4.5	276.0
114.0	CARBONDALE	JAMESTOWN	COAL	4.0	315.0
108.0	CARBONDALE	HERRIN	COAL	2.5	321.0
37.0	CARBONDALE	SPRINGFIELD	COAL	4.0	392.0

MAPID: 10107116000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: LAWRENCE **TWP/RNG:** 4N 11W **SECTION:** 14 **QUARTERS/FOOTAGES:** 129' S line, 266' E line of NE SW
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.604267 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.781083 **DATE COLLECTED:** 10 / 22 / 1968
SURFACE ELEVATION (FT.): 468.0 **LOGGED (FT.):** 460.0 **LOG TYPE:** Electric Log
SOURCE: TEMPLETON COAL CO 19 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
136.0	CARBONDALE	DANVILLE	COAL	2.5	332.0
99.0	CARBONDALE	HERRIN	COAL	3.0	369.0
19.7	CARBONDALE	SPRINGFIELD	COAL	3.3	448.3

MAPID: 10100591000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 4N 11W

SECTION: 15

QUARTERS/FOOTAGES: NW NE SW

QUADRANGLE: BIRDS

LONGITUDE: -87.625938

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.783774

DATE COLLECTED:

SURFACE ELEVATION (FT.): 424.0

LOGGED (FT.): 678.5

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
177.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	247.0
69.0	CARBONDALE	DANVILLE	COAL	3.5	355.0
30.0	CARBONDALE	JAMESTOWN	COAL	3.5	394.0
23.0	CARBONDALE	HERRIN	COAL	-	401.0
-50.0	CARBONDALE	SPRINGFIELD	COAL	3.5	474.0
-169.0	CARBONDALE	HOUCHIN CREEK	COAL	-	593.0
-238.0	CARBONDALE	COLCHESTER	COAL	-	662.0
-250.0	SPOON	SEELYVILLE	COAL	4.5	674.0

MAPID: 10100164000C VERSION: 1

PROJECT: NCRDS88

COUNTY: LAWRENCE

TWP/RNG: 4N 11W

SECTION: 17

QUARTERS/FOOTAGES: SE NW SW

QUADRANGLE: BIRDS

LONGITUDE: -87.666561

GEOLOGIST: R. SMITH

CONFIDENTIAL: N

LATITUDE: 38.782136

DATE COLLECTED:

SURFACE ELEVATION (FT.): 440.0

LOGGED (FT.): 456.6

LOG TYPE: Drillers Log

SOURCE: STANDARD COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN COMMENT	
440.0			UNCONSOLIDATED	118.0	0.0	
322.0	BOND		BLUE SHALE	15.0	118.0	
307.0	BOND		SANDSTONE	17.0	133.0	
290.0	BOND		LIMESTONE	28.0	150.0	
262.0	BOND		SHALE	12.0	178.0	
250.0	BOND	CARTHAGE	LIMESTONE	2.0	190.0	
248.0	MODESTO		SHALE	36.0	192.0	
212.0	MODESTO	TRIVOLI	SANDSTONE	64.0	228.0	
148.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	292.0	UNCERTAIN CORRELATION
141.0	MODESTO	WEST FRANKLIN	GRAY SHALE	6.0	299.0	UNCERTAIN CORRELATION
135.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	305.0	UNCERTAIN CORRELATION
132.0	MODESTO		GRAY SHALE	96.0	308.0	
36.0	CARBONDALE	DANVILLE	COAL	4.5	404.0	
31.5	CARBONDALE		UNDERCLAY	2.5	408.5	
29.0	CARBONDALE		GRAY SHALE	16.0	411.0	
13.0	CARBONDALE		BROWN SHALE	21.0	427.0	
-8.0	CARBONDALE	JAMESTOWN	COAL	8.6	448.0	INCLUDES HERRIN COAL

MAPID: 10100164000C VERSION: 2

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 4N 11W

SECTION: 17

QUARTERS/FOOTAGES: SE NW SW

QUADRANGLE: BIRDS

LONGITUDE: -87.666561

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.782136

DATE COLLECTED:

SURFACE ELEVATION (FT.): 440.0

LOGGED (FT.): 448.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Coal Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
148.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	292.0
36.0	CARBONDALE	DANVILLE	COAL	4.5	404.0
-8.0	CARBONDALE	JAMESTOWN	COAL	-	448.0

MAPID: 10100592000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 4N 11W

SECTION: 19

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

QUADRANGLE: BIRDS

LONGITUDE: -87.683544

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.766929

DATE COLLECTED:

SURFACE ELEVATION (FT.): 443.0

LOGGED (FT.): 779.0

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
111.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	332.0
0.0	CARBONDALE	DANVILLE	COAL	3.0	443.0
-50.0	CARBONDALE	JAMESTOWN	COAL	3.0	493.0
-54.0	CARBONDALE	HERRIN	COAL	-	497.0
-139.0	CARBONDALE	SPRINGFIELD	COAL	-	582.0
-220.0	CARBONDALE	HOUCHIN CREEK	COAL	-	663.0
-317.0	CARBONDALE	COLCHESTER	COAL	-	760.0
-331.0	SPOON	SEELYVILLE	COAL	5.0	774.0

MAPID: 10100635000C VERSION: 1

PROJECT: NCRDS88

COUNTY: LAWRENCE TWP/RNG: 4N 11W SECTION: 24 QUARTERS/FOOTAGES: 2640' N line, 1' E line

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.57502 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.769788 DATE COLLECTED: 9 / 56 / 1959

SURFACE ELEVATION (FT.): LOGGED (FT.): 390.0 LOG TYPE: Drillers Log

SOURCE: SHELL PETROLEUM CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	85.0	0.0	
-	MODESTO		BLUE SHALE	10.0	85.0	
-	MODESTO	TRIVOLI	SANDSTONE	52.0	95.0	
-	MODESTO		GRAY SHALE	1.5	147.0	
-	MODESTO	WEST FRANKLIN	LIMESTONE	4.5	148.5	
-	MODESTO		SHALE	19.0	153.0	
-	MODESTO		SANDSTONE	8.0	172.0	
-	MODESTO		SHALE	21.5	180.0	
-	MODESTO	PIRTLE (IN)	COAL	1.0	201.5	
-	MODESTO		GRAY SHALE	5.5	202.5	
-	MODESTO		SANDSTONE	19.0	208.0	
-	MODESTO		COAL	0.3	227.0	
-	MODESTO		BLUE SHALE	30.8	227.3	
-	CARBONDALE	DANVILLE	COAL	3.5	258.0	
-	CARBONDALE		UNDERCLAY	3.5	261.5	
-	CARBONDALE		BROWN SHALE	3.0	265.0	
-	CARBONDALE	BANKSTON FORK	LIMESTONE	7.0	268.0	
-	CARBONDALE	BANKSTON FORK	SHALE	3.0	275.0	
-	CARBONDALE	BANKSTON FORK	LIMESTONE	1.0	278.0	
-	CARBONDALE		BLUE SHALE	10.0	279.0	
-	CARBONDALE		BLACK SHALE	2.0	289.0	
-	CARBONDALE	JAMESTOWN	COAL	5.0	291.0	
-	CARBONDALE	BRERETON	LIMESTONE	1.5	296.0	"LIME"
-	CARBONDALE	HERRIN	COAL	2.5	297.5	
-	CARBONDALE		UNDERCLAY	2.0	300.0	
-	CARBONDALE		LIMESTONE	27.0	302.0	
-	CARBONDALE		SHALE	20.0	329.0	
-	CARBONDALE		BLACK SHALE	2.0	349.0	
-	CARBONDALE	BRIAR HILL	COAL	1.0	351.0	
-	CARBONDALE		UNDERCLAY	0.5	352.0	
-	CARBONDALE		LIMESTONE	4.5	352.5	
-	CARBONDALE		SHALE	3.0	357.0	
-	CARBONDALE		SANDSTONE	8.0	360.0	
-	CARBONDALE		SHALE	5.0	368.0	
-	CARBONDALE		BLACK SHALE	2.0	373.0	
-	CARBONDALE	ST. DAVID	LIMESTONE	2.0	375.0	
-	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	377.0	
-	CARBONDALE	SPRINGFIELD	COAL	4.0	379.0	
-	CARBONDALE		UNDERCLAY	2.0	383.0	

-	CARBONDALE	GRAY SHALE	3.0	385.0
-	CARBONDALE	LIMESTONE	2.0	388.0

MAPID: 10100635000C **VERSION:** 2 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 4N 11W **SECTION:** 24 **QUARTERS/FOOTAGES:** 2640' N line, 1' E line
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.57502 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.769788 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 428.0 **LOGGED (FT.):** 387.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
280.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	148.0
170.0	CARBONDALE	DANVILLE	COAL	3.5	258.0
137.0	CARBONDALE	JAMESTOWN	COAL	5.0	291.0
131.0	CARBONDALE	HERRIN	COAL	2.5	297.0
45.0	CARBONDALE	SPRINGFIELD	COAL	4.0	383.0

MAPID: 10100636000C VERSION: 1

PROJECT: NCRDS88

COUNTY: LAWRENCE TWP/RNG: 4N 11W SECTION: 24 QUARTERS/FOOTAGES: SW SW SW SW

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.593151 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.762673 DATE COLLECTED: 9 / 18 / 1959

SURFACE ELEVATION (FT.): 428.2 LOGGED (FT.): 443.0 LOG TYPE: Drillers Log

SOURCE: SHELL PETROLEUM CORP. WELL TYPE: Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
428.2			UNCONSOLIDATED	65.0	0.0	
363.2	BOND		SHALE	11.0	65.0	
352.2	BOND		SANDSTONE	2.0	76.0	
350.2	BOND		BLUE SHALE	5.0	78.0	
345.2	BOND	MT. CARMEL	SANDSTONE	2.0	83.0	APPROXIMATE BASE OF BOND FM
343.2	MODESTO		COAL	1.0	85.0	
342.2	MODESTO		BLUE SHALE	49.0	86.0	
293.2	MODESTO		COAL WITH SHALE	4.0	135.0	
289.2	MODESTO		SHALE	21.0	139.0	
268.2	MODESTO	CRAMER	LIMESTONE	5.5	160.0	UNCERTAIN CORRELATION
262.7	MODESTO	TRIVOLI	SANDSTONE	35.5	165.5	
227.2	MODESTO	WEST FRANKLIN	LIMESTONE	2.5	201.0	
224.7	MODESTO	WEST FRANKLIN	SHALE	1.5	203.5	
223.2	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	205.0	
217.2	MODESTO	WEST FRANKLIN	SHALE	7.0	211.0	
210.2	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	218.0	
205.2	MODESTO		SHALE	12.0	223.0	
193.2	MODESTO	BUSSERON (IN)	SANDSTONE	24.0	235.0	
169.2	MODESTO	BUSSERON (IN)	SHALE	6.0	259.0	
163.2	MODESTO	BUSSERON (IN)	SANDSTONE/SILTSTONE	10.0	265.0	
153.2	MODESTO		BLUE SHALE	38.0	275.0	
115.2	CARBONDALE	DANVILLE	COAL	2.5	313.0	
112.7	CARBONDALE		BLUE SHALE	3.5	315.5	
109.2	CARBONDALE	BANKSTON FORK	LIMESTONE	8.0	319.0	
101.2	CARBONDALE	BANKSTON FORK	BLUE SHALE	3.0	327.0	
98.2	CARBONDALE	BANKSTON FORK	LIMESTONE	2.0	330.0	
96.2	CARBONDALE		BLUE SHALE	17.0	332.0	
79.2	CARBONDALE		BLACK SHALE	4.0	349.0	
75.2	CARBONDALE	JAMESTOWN	COAL	3.5	353.0	
71.7	CARBONDALE	ANNA	BLUE SHALE	1.5	356.5	
70.2	CARBONDALE	HERRIN	COAL	2.5	358.0	
67.7	CARBONDALE		UNDERCLAY	2.5	360.5	
65.2	CARBONDALE		LIMESTONE	5.0	363.0	
60.2	CARBONDALE		SHALE	7.0	368.0	
53.2	CARBONDALE		LIMESTONE	3.0	375.0	
50.2	CARBONDALE		BROWN SHALE	26.0	378.0	
24.2	CARBONDALE	BRIAR HILL	COAL WITH SHALE	4.0	404.0	
20.2	CARBONDALE		UNDERCLAY	4.0	408.0	
16.2	CARBONDALE		BROWN SHALE	14.0	412.0	

2.2	CARBONDALE		BLACK SHALE	2.0	426.0
0.2	CARBONDALE	ST. DAVID	LIMESTONE	1.5	428.0
-1.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	429.5
-2.3	CARBONDALE	SPRINGFIELD	COAL	4.5	430.5
-6.8	CARBONDALE		UNDERCLAY	1.5	435.0
-8.3	CARBONDALE		LIMESTONE	6.6	436.5

MAPID: 10100636000C **VERSION:** 2 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 4N 11W **SECTION:** 24 **QUARTERS/FOOTAGES:** SW SW SW SW
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.593151 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.762673 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 428.0 **LOGGED (FT.):** 434.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
210.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	218.0
115.0	CARBONDALE	DANVILLE	COAL	2.5	313.0
75.0	CARBONDALE	JAMESTOWN	COAL	3.5	353.0
70.0	CARBONDALE	HERRIN	COAL	2.5	358.0
-2.0	CARBONDALE	SPRINGFIELD	COAL	4.5	430.0

MAPID: 10100590000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 4N 11W **SECTION:** 34 **QUARTERS/FOOTAGES:** NW NW SE
QUADRANGLE: VINCENNES **LONGITUDE:** -87.620332 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.739176 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 416.0 **LOGGED (FT.):** 648.0 **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
54.0	CARBONDALE	DANVILLE	COAL	-	362.0
26.0	CARBONDALE	JAMESTOWN	COAL	5.0	390.0
-45.0	CARBONDALE	SPRINGFIELD	COAL	-	461.0
-164.0	CARBONDALE	HOUCHIN CREEK	COAL	-	580.0
-232.0	CARBONDALE	COLCHESTER	COAL	-	648.0

MAPID: 10103000000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: LAWRENCE **TWP/RNG:** 4N 12W **SECTION:** 1 **QUARTERS/FOOTAGES:**
QUADRANGLE: BIRDS **LONGITUDE:** -87.693846 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.813761 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 22.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN 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	
-			COAL	0.2	20.0	

MAPID: 10103000000C **VERSION:** 2 **PROJECT:** AVAIL
COUNTY: LAWRENCE **TWP/RNG:** 4N 12W **SECTION:** 1 **QUARTERS/FOOTAGES:**
QUADRANGLE: BIRDS **LONGITUDE:** -87.693846 **GEOLOGIST:** UITEMP
CONFIDENTIAL: N **LATITUDE:** 38.813761 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 0.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. 4 **WELL TYPE:**
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			NO RECORD	0.0	0.0	DATA NOT ENTERED - SEE ORIGINAL LOG

MAPID: 10100694000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 4N 12W **SECTION:** 6 **QUARTERS/FOOTAGES:** NE SE NW
QUADRANGLE: CHAUNCEY **LONGITUDE:** -87.78849 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 38.814534 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 434.0 **LOGGED (FT.):** 797.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
73.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	361.0	
-41.0	CARBONDALE	DANVILLE	COAL	2.5	475.0	
-95.0	CARBONDALE	JAMESTOWN	COAL	-	529.0	
-166.0	CARBONDALE	SPRINGFIELD	COAL	2.5	600.0	
-262.0	CARBONDALE	HOUCHIN CREEK	COAL	-	696.0	
-363.0	CARBONDALE	COLCHESTER	COAL	-	797.0	

MAPID: 10101435000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 6 QUARTERS/FOOTAGES: SW SW SW
 QUADRANGLE: CHAUNCEY LONGITUDE: -87.795294 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.804976 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 441.0 LOGGED (FT.): 743.0 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
170.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	271.0
68.0	CARBONDALE	DANVILLE	COAL	-	373.0
18.0	CARBONDALE	JAMESTOWN	COAL	-	423.0
-69.0	CARBONDALE	SPRINGFIELD	COAL	-	510.0
-155.0	CARBONDALE	HOUCHIN CREEK	COAL	-	596.0
-271.0	CARBONDALE	COLCHESTER	COAL	-	712.0
-299.0	SPOON	SEELYVILLE	COAL	3.0	740.0

MAPID: 10100435000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 7 QUARTERS/FOOTAGES: SW SW SW
 QUADRANGLE: CHAUNCEY LONGITUDE: -87.795382 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.790398 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 433.0 LOGGED (FT.): 604.0 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
215.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	218.0
115.0	CARBONDALE	DANVILLE	COAL	-	318.0
63.0	CARBONDALE	JAMESTOWN	COAL	2.0	370.0
-1.0	CARBONDALE	SPRINGFIELD	COAL	3.5	434.0
-73.0	CARBONDALE	HOUCHIN CREEK	COAL	-	506.0
-171.0	CARBONDALE	COLCHESTER	COAL	-	604.0

MAPID: 10101436000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 7 QUARTERS/FOOTAGES: SE SW NE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.783968 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.797892 DATE COLLECTED:

SURFACE ELEVATION (FT.): 436.0 LOGGED (FT.): 737.0 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
139.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	297.0
31.0	CARBONDALE	DANVILLE	COAL	3.0	405.0
-19.0	CARBONDALE	JAMESTOWN	COAL	3.5	455.0
-24.0	CARBONDALE	HERRIN	COAL	-	460.0
-95.0	CARBONDALE	SPRINGFIELD	COAL	-	531.0
-182.0	CARBONDALE	HOUCHIN CREEK	COAL	-	618.0
-301.0	CARBONDALE	COLCHESTER	COAL	-	737.0

MAPID: 10102954000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 7 QUARTERS/FOOTAGES: NW SE NW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.790776 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.79958 DATE COLLECTED:

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 739.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: 4' #7A@ 310, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
173.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	267.0
73.0	CARBONDALE	DANVILLE	COAL	2.0	367.0
36.0	CARBONDALE	JAMESTOWN	COAL	-	404.0
-50.0	CARBONDALE	SPRINGFIELD	COAL	3.5	490.0
-130.0	CARBONDALE	HOUCHIN CREEK	COAL	-	570.0
-260.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-295.0	SPOON	SEELYVILLE	COAL	4.0	735.0

MAPID: 10105193000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 8 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.760832 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.791097 DATE COLLECTED:

SURFACE ELEVATION (FT.): 437.0 LOGGED (FT.): 670.0 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	
79.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	358.0	
-24.0	CARBONDALE	DANVILLE	COAL	-	461.0	
-69.0	CARBONDALE	JAMESTOWN	COAL	-	506.0	
-146.0	CARBONDALE	SPRINGFIELD	COAL	2.0	583.0	
-233.0	CARBONDALE	HOUCHIN CREEK	COAL	-	670.0	

MAPID: 10101567000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 10 QUARTERS/FOOTAGES: NE NW SE

QUADRANGLE: BIRDS LONGITUDE: -87.728116 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.79689 DATE COLLECTED:

SURFACE ELEVATION (FT.): 424.0 LOGGED (FT.): 822.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
71.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	353.0	
-36.0	CARBONDALE	DANVILLE	COAL	3.0	460.0	
-88.0	CARBONDALE	JAMESTOWN	COAL	3.0	512.0	
-94.0	CARBONDALE	HERRIN	COAL	1.5	518.0	
-154.0	CARBONDALE	SPRINGFIELD	COAL	2.0	578.0	
-242.0	CARBONDALE	HOUCHIN CREEK	COAL	-	666.0	
-371.0	CARBONDALE	COLCHESTER	COAL	-	795.0	
-394.0	SPOON	SEELYVILLE	COAL	4.5	818.0	

MAPID: 10128462000C VERSION: 1

PROJECT: NCRDS88

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 16 QUARTERS/FOOTAGES: 1288' S line, 186' W line

QUADRANGLE: CHAUNCEY LONGITUDE: -87.759171 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.778987 DATE COLLECTED: 10 / 24 / 1980

SURFACE ELEVATION (FT.): 432.0 LOGGED (FT.): 800.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. E180-16-6C WELL TYPE: Coal Test

COMMENT: GAMMA, DENS., AND RESIST. LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
432.0			UNCONSOLIDATED	51.0	0.0	
381.0			UNCLASSIFIED	53.0	51.0	BASE OF GLACIAL
328.0	MODESTO		COAL	1.5	104.0	
326.5	MODESTO		UNCLASSIFIED	10.0	105.5	
316.5	MODESTO		COAL	1.0	115.5	
315.5	MODESTO		UNCLASSIFIED	94.0	116.5	
221.5	MODESTO	CHAPEL	BLACK SHALE	3.0	210.5	
218.5	MODESTO		UNCLASSIFIED	116.5	213.5	
102.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	330.0	
95.0	MODESTO		UNCLASSIFIED	44.5	337.0	
50.5	MODESTO	PIRTLE (IN)	COAL	0.5	381.5	PROBABLY EVEN THINNER
50.0	MODESTO		UNCLASSIFIED	46.5	382.0	
3.5	CARBONDALE	DANVILLE	COAL	1.5	428.5	
2.0	CARBONDALE		UNCLASSIFIED	60.5	430.0	
-58.5	CARBONDALE	JAMESTOWN	COAL	4.5	490.5	
-63.0	CARBONDALE	ANNA	BLACK SHALE	0.8	495.0	
-63.8	CARBONDALE	HERRIN	COAL	2.3	495.8	
-66.0	CARBONDALE		UNCLASSIFIED	39.0	498.0	
-105.0	CARBONDALE	BRIAR HILL	COAL	1.0	537.0	UNCERTAIN CORRELATION
-106.0	CARBONDALE		UNCLASSIFIED	23.0	538.0	
-129.0	CARBONDALE	SPRINGFIELD	COAL	3.0	561.0	
-132.0	CARBONDALE		UNCLASSIFIED	87.0	564.0	
-219.0	CARBONDALE	EXCELLO	BLACK SHALE	3.0	651.0	
-222.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	654.0	
-223.0	CARBONDALE		UNCLASSIFIED	41.0	655.0	
-264.0	CARBONDALE	SURVANT - UPPER	COAL	1.0	696.0	
-265.0	CARBONDALE		UNCLASSIFIED	6.0	697.0	
-271.0	CARBONDALE	SURVANT - LOWER	COAL	1.0	703.0	
-272.0	CARBONDALE		UNCLASSIFIED	47.5	704.0	
-319.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	751.5	
-321.5	CARBONDALE	COLCHESTER	COAL	1.5	753.5	
-323.0	SPOON		UNCLASSIFIED	8.5	755.0	
-331.5	SPOON	SEELYVILLE	COAL	1.5	763.5	
-333.0	SPOON		UNCLASSIFIED	35.0	765.0	

MAPID: 10100458000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 17 QUARTERS/FOOTAGES: 330' N line, 360' W line of SW SW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.777021 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.777914 DATE COLLECTED:

SURFACE ELEVATION (FT.): 436.0 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
217.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	219.0
105.0	CARBONDALE	DANVILLE	COAL	2.0	331.0
55.0	CARBONDALE	JAMESTOWN	COAL	3.5	381.0
48.0	CARBONDALE	HERRIN	COAL	2.5	388.0
-12.0	CARBONDALE	SPRINGFIELD	COAL	-	448.0
-99.0	CARBONDALE	HOUCHIN CREEK	COAL	-	535.0
-196.0	CARBONDALE	COLCHESTER	COAL	-	632.0

MAPID: 10100757000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 17 QUARTERS/FOOTAGES: NW NW SE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.767884 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.781743 DATE COLLECTED:

SURFACE ELEVATION (FT.): 433.0 LOGGED (FT.): 730.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	314.0
15.0	CARBONDALE	DANVILLE	COAL	-	418.0
-54.0	CARBONDALE	JAMESTOWN	COAL	-	487.0
-102.0	CARBONDALE	SPRINGFIELD	COAL	4.0	535.0
-196.0	CARBONDALE	HOUCHIN CREEK	COAL	-	629.0
-297.0	CARBONDALE	COLCHESTER	COAL	-	730.0

MAPID: 10102434000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 18 QUARTERS/FOOTAGES: NW NW NW
 QUADRANGLE: CHAUNCEY LONGITUDE: -87.795391 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.788581 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 432.0 LOGGED (FT.): 492.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	218.0
122.0	CARBONDALE	DANVILLE	COAL	-	310.0
74.0	CARBONDALE	JAMESTOWN	COAL	-	358.0
8.0	CARBONDALE	SPRINGFIELD	COAL	3.5	424.0
-60.0	CARBONDALE	HOUCHIN CREEK	COAL	-	492.0

MAPID: 10127762000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 19 QUARTERS/FOOTAGES: 660' N line, 610' W line of NE
 QUADRANGLE: CHAUNCEY LONGITUDE: -87.785297 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.773243 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 442.0 LOGGED (FT.): 630.0 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
78.0	CARBONDALE	JAMESTOWN	COAL	2.0	364.0
72.0	CARBONDALE	HERRIN	COAL	3.5	370.0
6.0	CARBONDALE	SPRINGFIELD	COAL	4.0	436.0
-82.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	524.0
-176.0	CARBONDALE	COLCHESTER	COAL	-	618.0
-185.0	SPOON	SEELYVILLE	COAL	3.0	627.0

MAPID: 10127781000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 19 QUARTERS/FOOTAGES: 653' S line, 644' E line of SE
 QUADRANGLE: CHAUNCEY LONGITUDE: -87.780826 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.762234 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 453.0 LOGGED (FT.): 570.0 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
49.0	CARBONDALE	SPRINGFIELD	COAL	2.5	404.0
-28.0	CARBONDALE	HOUCHIN CREEK	COAL	-	481.0
-117.0	CARBONDALE	COLCHESTER	COAL	-	570.0

MAPID: 10127903000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 19 QUARTERS/FOOTAGES: 594' S line, 724' W line of SE SW
 QUADRANGLE: CHAUNCEY LONGITUDE: -87.789529 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.761962 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 439.0 LOGGED (FT.): 596.0 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
85.0	CARBONDALE	JAMESTOWN	COAL	3.0	354.0
78.0	CARBONDALE	HERRIN	COAL	2.0	361.0
9.0	CARBONDALE	SPRINGFIELD	COAL	3.0	430.0
-74.0	CARBONDALE	HOUCHIN CREEK	COAL	-	513.0
-157.0	CARBONDALE	COLCHESTER	COAL	-	596.0

MAPID: 10127908000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 19 QUARTERS/FOOTAGES: 754' S line, 669' E line of NW SE
 QUADRANGLE: CHAUNCEY LONGITUDE: -87.785362 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.766128 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 438.0 LOGGED (FT.): 599.0 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
14.0	CARBONDALE	SPRINGFIELD	COAL	2.5	424.0
-63.0	CARBONDALE	HOUCHIN CREEK	COAL	1.5	501.0
-161.0	CARBONDALE	COLCHESTER	COAL	-	599.0

MAPID: 10100440000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 20 QUARTERS/FOOTAGES: NE NE NE
 QUADRANGLE: CHAUNCEY LONGITUDE: -87.761027 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.774494 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 436.0 LOGGED (FT.): 751.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	315.0
8.0	CARBONDALE	DANVILLE	COAL	-	428.0
-48.0	CARBONDALE	JAMESTOWN	COAL	-	484.0
-53.0	CARBONDALE	HERRIN	COAL	-	489.0
-118.0	CARBONDALE	SPRINGFIELD	COAL	4.0	554.0
-212.0	CARBONDALE	HOUCHIN CREEK	COAL	-	648.0
-315.0	CARBONDALE	COLCHESTER	COAL	-	751.0

MAPID: 10104455000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 20 QUARTERS/FOOTAGES: NW NW NW
 QUADRANGLE: CHAUNCEY LONGITUDE: -87.77716 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.774249 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 437.0 LOGGED (FT.): 632.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	217.0
108.0	CARBONDALE	DANVILLE	COAL	-	329.0
56.0	CARBONDALE	JAMESTOWN	COAL	-	381.0
51.0	CARBONDALE	HERRIN	COAL	-	386.0
-13.0	CARBONDALE	SPRINGFIELD	COAL	3.5	450.0
-111.0	CARBONDALE	HOUCHIN CREEK	COAL	-	548.0
-195.0	CARBONDALE	COLCHESTER	COAL	-	632.0

MAPID: 10102435000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 23 QUARTERS/FOOTAGES: SE SW SW
 QUADRANGLE: BIRDS LONGITUDE: -87.71874 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.762129 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 426.0 LOGGED (FT.): 635.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	323.0
-4.0	CARBONDALE	DANVILLE	COAL	-	430.0
-48.0	CARBONDALE	JAMESTOWN	COAL	-	474.0
-128.0	CARBONDALE	SPRINGFIELD	COAL	2.5	554.0
-209.0	CARBONDALE	HOUCHIN CREEK	COAL	-	635.0

MAPID: 10100451000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 25 QUARTERS/FOOTAGES: 809' S line, 330' W line of NW SW

QUADRANGLE: BIRDS LONGITUDE: -87.702102 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.752735 DATE COLLECTED:

SURFACE ELEVATION (FT.): 421.0 LOGGED (FT.): 637.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	323.0
-14.0	CARBONDALE	DANVILLE	COAL	-	435.0
-61.0	CARBONDALE	JAMESTOWN	COAL	-	482.0
-129.0	CARBONDALE	SPRINGFIELD	COAL	4.0	550.0
-216.0	CARBONDALE	HOUCHIN CREEK	COAL	-	637.0

MAPID: 10101210000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 25 QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.690272 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.747865 DATE COLLECTED:

SURFACE ELEVATION (FT.): 419.0 LOGGED (FT.): 751.0 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
100.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	319.0
-15.0	CARBONDALE	DANVILLE	COAL	4.0	434.0
-59.0	CARBONDALE	JAMESTOWN	COAL	-	478.0
-64.0	CARBONDALE	HERRIN	COAL	-	483.0
-129.0	CARBONDALE	SPRINGFIELD	COAL	-	548.0
-210.0	CARBONDALE	HOUCHIN CREEK	COAL	-	629.0
-323.0	CARBONDALE	COLCHESTER	COAL	-	742.0
-332.0	SPOON	SEELYVILLE	COAL	-	751.0

MAPID: 10100452000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 4N 12W **SECTION:** 26 **QUARTERS/FOOTAGES:** NE SW NW
QUADRANGLE: BIRDS **LONGITUDE:** -87.718751 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.756631 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 421.0 **LOGGED (FT.):** 637.0 **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	
98.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	323.0	
-12.0	CARBONDALE	DANVILLE	COAL	-	433.0	
-61.0	CARBONDALE	JAMESTOWN	COAL	-	482.0	
-129.0	CARBONDALE	SPRINGFIELD	COAL	-	550.0	
-216.0	CARBONDALE	HOUCHIN CREEK	COAL	-	637.0	

MAPID: 10127766000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 4N 12W **SECTION:** 28 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: SUMNER **LONGITUDE:** -87.758751 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.746986 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 514.0 **LOGGED (FT.):** 756.0 **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	
179.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	335.0	
57.0	CARBONDALE	DANVILLE	COAL	3.0	457.0	
11.0	CARBONDALE	JAMESTOWN	COAL	3.5	503.0	
5.0	CARBONDALE	HERRIN	COAL	1.5	509.0	
-63.0	CARBONDALE	SPRINGFIELD	COAL	3.5	577.0	
-141.0	CARBONDALE	HOUCHIN CREEK	COAL	-	655.0	
-242.0	CARBONDALE	COLCHESTER	COAL	-	756.0	

MAPID: 10127742000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 29 QUARTERS/FOOTAGES: 586' N line, 752' W line of NW SW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.775986 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.751529 DATE COLLECTED:

SURFACE ELEVATION (FT.): 483.0 LOGGED (FT.): 620.0 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
146.0	CARBONDALE	DANVILLE	COAL	2.0	337.0
102.0	CARBONDALE	JAMESTOWN	COAL	3.5	381.0
96.0	CARBONDALE	HERRIN	COAL	-	387.0
27.0	CARBONDALE	SPRINGFIELD	COAL	3.5	456.0
-57.0	CARBONDALE	HOUCHIN CREEK	COAL	-	540.0
-131.0	CARBONDALE	COLCHESTER	COAL	-	614.0
-137.0	SPOON	SEELYVILLE	COAL	-	620.0

MAPID: 10127896000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 29 QUARTERS/FOOTAGES: 741' N line, 660' W line of NW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.776276 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.758453 DATE COLLECTED:

SURFACE ELEVATION (FT.): 453.0 LOGGED (FT.): 568.0 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
115.0	CARBONDALE	JAMESTOWN	COAL	3.0	338.0
109.0	CARBONDALE	HERRIN	COAL	1.5	344.0
45.0	CARBONDALE	SPRINGFIELD	COAL	3.0	408.0
-32.0	CARBONDALE	HOUCHIN CREEK	COAL	-	485.0
-115.0	CARBONDALE	COLCHESTER	COAL	-	568.0

MAPID: 10128110000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 29 QUARTERS/FOOTAGES: 600' S line, 727' W line of SW

QUADRANGLE: SUMNER LONGITUDE: -87.776092 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.747441 DATE COLLECTED:

SURFACE ELEVATION (FT.): 534.0 LOGGED (FT.): 727.0 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
126.0	CARBONDALE	DANVILLE	COAL	2.0	408.0
79.0	CARBONDALE	JAMESTOWN	COAL	3.5	455.0
72.0	CARBONDALE	HERRIN	COAL	-	462.0
4.0	CARBONDALE	SPRINGFIELD	COAL	4.0	530.0
-80.0	CARBONDALE	HOUCHIN CREEK	COAL	-	614.0
-163.0	CARBONDALE	COLCHESTER	COAL	-	697.0
-191.0	SPOON	SEELYVILLE	COAL	2.0	725.0

MAPID: 10127608000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 30 QUARTERS/FOOTAGES: 660' S line, 635' W line of NE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.785391 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.754824 DATE COLLECTED:

SURFACE ELEVATION (FT.): 458.0 LOGGED (FT.): 604.0 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
139.0	CARBONDALE	DANVILLE	COAL	2.0	319.0
93.0	CARBONDALE	JAMESTOWN	COAL	3.0	365.0
88.0	CARBONDALE	HERRIN	COAL	-	370.0
18.0	CARBONDALE	SPRINGFIELD	COAL	3.5	440.0
-58.0	CARBONDALE	HOUCHIN CREEK	COAL	-	516.0
-146.0	CARBONDALE	COLCHESTER	COAL	-	604.0

MAPID: 10127793000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 30 QUARTERS/FOOTAGES: 731' N line, 644' W line of SE NE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.780855 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.754732 DATE COLLECTED:

SURFACE ELEVATION (FT.): 464.0 LOGGED (FT.): 582.0 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
149.0	CARBONDALE	DANVILLE	COAL	2.0	315.0
105.0	CARBONDALE	JAMESTOWN	COAL	3.5	359.0
99.0	CARBONDALE	HERRIN	COAL	1.5	365.0
35.0	CARBONDALE	SPRINGFIELD	COAL	3.0	429.0
-42.0	CARBONDALE	HOUCHIN CREEK	COAL	-	506.0
-118.0	CARBONDALE	COLCHESTER	COAL	-	582.0

MAPID: 10127794000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 30 QUARTERS/FOOTAGES: 605' S line, 713' E line of SE

QUADRANGLE: SUMNER LONGITUDE: -87.781171 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.74737 DATE COLLECTED:

SURFACE ELEVATION (FT.): 516.0 LOGGED (FT.): 673.0 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
136.0	CARBONDALE	DANVILLE	COAL	2.0	380.0
87.0	CARBONDALE	JAMESTOWN	COAL	3.5	429.0
81.0	CARBONDALE	HERRIN	COAL	-	435.0
12.0	CARBONDALE	SPRINGFIELD	COAL	3.5	504.0
-74.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0
-157.0	CARBONDALE	COLCHESTER	COAL	-	673.0

MAPID: 10128099000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 30 QUARTERS/FOOTAGES: 487' S line, 688' E line of NE NW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.790034 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.757969 DATE COLLECTED:

SURFACE ELEVATION (FT.): 465.0 LOGGED (FT.): 631.0 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
135.0	CARBONDALE	DANVILLE	COAL	2.5	330.0
89.0	CARBONDALE	JAMESTOWN	COAL	3.0	376.0
83.0	CARBONDALE	HERRIN	COAL	-	382.0
8.0	CARBONDALE	SPRINGFIELD	COAL	3.0	457.0
-70.0	CARBONDALE	HOUCHIN CREEK	COAL	-	535.0
-166.0	CARBONDALE	COLCHESTER	COAL	-	631.0

MAPID: 10100445000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 31 QUARTERS/FOOTAGES: 672' N line, 660' E line of SW

QUADRANGLE: SUMNER LONGITUDE: -87.790068 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.736316 DATE COLLECTED:

SURFACE ELEVATION (FT.): 539.0 LOGGED (FT.): 782.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	361.0
67.0	CARBONDALE	DANVILLE	COAL	2.5	472.0
19.0	CARBONDALE	JAMESTOWN	COAL	-	520.0
-59.0	CARBONDALE	SPRINGFIELD	COAL	3.0	598.0
-149.0	CARBONDALE	HOUCHIN CREEK	COAL	-	688.0
-234.0	CARBONDALE	COLCHESTER	COAL	-	773.0
-243.0	SPOON	SEELYVILLE	COAL	-	782.0

MAPID: 10127705000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 31 QUARTERS/FOOTAGES: 26' S line, 1274' E line of NE
 QUADRANGLE: SUMNER LONGITUDE: -87.78319 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.738349 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 547.0 LOGGED (FT.): 756.5 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
111.0	CARBONDALE	DANVILLE	COAL	2.5	436.0
66.0	CARBONDALE	JAMESTOWN	COAL	3.0	481.0
60.0	CARBONDALE	HERRIN	COAL	-	487.0
-11.0	CARBONDALE	SPRINGFIELD	COAL	3.5	558.0
-99.0	CARBONDALE	HOUCHIN CREEK	COAL	-	646.0
-190.0	CARBONDALE	COLCHESTER	COAL	-	737.0
-205.0	SPOON	SEELYVILLE	COAL	4.5	752.0

MAPID: 10100284000C VERSION: 1

PROJECT: CONTROL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 32 QUARTERS/FOOTAGES: 300' N line, 660' W line of SE
 QUADRANGLE: SUMNER LONGITUDE: -87.767016 GEOLOGIST: HINES
 CONFIDENTIAL: N LATITUDE: 38.737713 DATE COLLECTED:
 SURFACE ELEVATION (FT.): LOGGED (FT.): 1400.0 LOG TYPE: Survey Sample Study
 SOURCE: OHIO OIL CO., THE 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: 10127712000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 32 QUARTERS/FOOTAGES: 1323' N line, 84' E line of NE
 QUADRANGLE: SUMNER LONGITUDE: -87.760249 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.7424 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 476.0 LOGGED (FT.): 736.0 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
74.0	CARBONDALE	DANVILLE	COAL	2.5	402.0
29.0	CARBONDALE	JAMESTOWN	COAL	3.5	447.0
23.0	CARBONDALE	HERRIN	COAL	1.5	453.0
-46.0	CARBONDALE	SPRINGFIELD	COAL	2.5	522.0
-126.0	CARBONDALE	HOUCHIN CREEK	COAL	-	602.0
-224.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-257.0	SPOON	SEELYVILLE	COAL	3.0	733.0

MAPID: 10127821000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 32 QUARTERS/FOOTAGES: 632' S line, 599' E line of NW

QUADRANGLE: SUMNER LONGITUDE: -87.77144 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.740212 DATE COLLECTED:

SURFACE ELEVATION (FT.): 510.0 LOGGED (FT.): 695.5 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
118.0	CARBONDALE	DANVILLE	COAL	2.0	392.0
75.0	CARBONDALE	JAMESTOWN	COAL	3.5	435.0
69.0	CARBONDALE	HERRIN	COAL	2.0	441.0
-1.0	CARBONDALE	SPRINGFIELD	COAL	3.0	511.0
-86.0	CARBONDALE	HOUCHIN CREEK	COAL	-	596.0
-166.0	CARBONDALE	COLCHESTER	COAL	-	676.0
-183.0	SPOON	SEELYVILLE	COAL	2.5	693.0

MAPID: 10128167000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 32 QUARTERS/FOOTAGES: 680' S line, 613' W line of SE SE

QUADRANGLE: SUMNER LONGITUDE: -87.762529 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.733093 DATE COLLECTED:

SURFACE ELEVATION (FT.): 465.0 LOGGED (FT.): 684.0 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
98.0	CARBONDALE	DANVILLE	COAL	3.0	367.0
60.0	CARBONDALE	JAMESTOWN	COAL	3.5	405.0
52.0	CARBONDALE	HERRIN	COAL	1.5	413.0
-7.0	CARBONDALE	SPRINGFIELD	COAL	2.5	472.0
-105.0	CARBONDALE	HOUCHIN CREEK	COAL	-	570.0
-200.0	CARBONDALE	COLCHESTER	COAL	-	665.0
-215.0	SPOON	SEELYVILLE	COAL	4.0	680.0

MAPID: 10104889000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 33 QUARTERS/FOOTAGES: 660' S line, 660' W line
 QUADRANGLE: SUMNER LONGITUDE: -87.757717 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.73309 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 451.0 LOGGED (FT.): 709.5 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
190.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	261.0
66.0	CARBONDALE	DANVILLE	COAL	2.0	385.0
23.0	CARBONDALE	JAMESTOWN	COAL	-	428.0
-51.0	CARBONDALE	SPRINGFIELD	COAL	2.5	502.0
-139.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0
-237.0	CARBONDALE	COLCHESTER	COAL	-	688.0
-256.0	SPOON	SEELYVILLE	COAL	2.5	707.0

MAPID: 10104893000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 33 QUARTERS/FOOTAGES: SW NW NE
 QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.749366 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.743382 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 459.0 LOGGED (FT.): 772.0 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
125.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	334.0
-5.0	CARBONDALE	DANVILLE	COAL	3.0	464.0
-51.0	CARBONDALE	JAMESTOWN	COAL	4.5	510.0
-59.0	CARBONDALE	HERRIN	COAL	2.0	518.0
-129.0	CARBONDALE	SPRINGFIELD	COAL	4.0	588.0
-218.0	CARBONDALE	HOUCHIN CREEK	COAL	-	677.0
-304.0	CARBONDALE	COLCHESTER	COAL	-	763.0
-313.0	SPOON	SEELYVILLE	COAL	-	772.0

MAPID: 10100446000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 34 QUARTERS/FOOTAGES: 330' S line, 462' W line of SE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.730108 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.732594 DATE COLLECTED:

SURFACE ELEVATION (FT.): 500.0 LOGGED (FT.): 796.0 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
135.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	365.0
18.0	CARBONDALE	DANVILLE	COAL	1.5	482.0
-27.0	CARBONDALE	JAMESTOWN	COAL	3.5	527.0
-31.0	CARBONDALE	HERRIN	COAL	-	531.0
-102.0	CARBONDALE	SPRINGFIELD	COAL	3.0	602.0
-186.0	CARBONDALE	HOUCHIN CREEK	COAL	-	686.0
-284.0	CARBONDALE	COLCHESTER	COAL	-	784.0
-293.0	SPOON	SEELYVILLE	COAL	3.0	793.0

MAPID: 10100447000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 35 QUARTERS/FOOTAGES: SW NW NW

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.721132 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.743756 DATE COLLECTED:

SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 736.0 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
123.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	307.0
10.0	CARBONDALE	DANVILLE	COAL	2.0	420.0
-40.0	CARBONDALE	JAMESTOWN	COAL	-	470.0
-109.0	CARBONDALE	SPRINGFIELD	COAL	2.5	539.0
-190.0	CARBONDALE	HOUCHIN CREEK	COAL	-	620.0
-297.0	CARBONDALE	COLCHESTER	COAL	-	727.0
-306.0	SPOON	SEELYVILLE	COAL	-	736.0

MAPID: 1010045000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 35 QUARTERS/FOOTAGES: 990' N line, 165' W line of SE SE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.707585 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.733024 DATE COLLECTED:

SURFACE ELEVATION (FT.): 489.0 LOGGED (FT.): 788.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	334.0
39.0	CARBONDALE	DANVILLE	COAL	-	450.0
-4.0	CARBONDALE	JAMESTOWN	COAL	-	493.0
-73.0	CARBONDALE	SPRINGFIELD	COAL	2.5	562.0
-151.0	CARBONDALE	HOUCHIN CREEK	COAL	-	640.0
-283.0	CARBONDALE	COLCHESTER	COAL	-	772.0
-299.0	SPOON	SEELYVILLE	COAL	-	788.0

MAPID: 10100004000C VERSION: 2

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 36 QUARTERS/FOOTAGES: SW SE NE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.687949 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.740636 DATE COLLECTED:

SURFACE ELEVATION (FT.): 418.0 LOGGED (FT.): 601.0 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
125.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	293.0
8.0	CARBONDALE	DANVILLE	COAL	-	410.0
-29.0	CARBONDALE	JAMESTOWN	COAL	-	447.0
-99.0	CARBONDALE	SPRINGFIELD	COAL	3.0	517.0
-183.0	CARBONDALE	HOUCHIN CREEK	COAL	-	601.0

MAPID: 10100004000C VERSION: 3

PROJECT: CONTROL

COUNTY: LAWRENCE TWP/RNG: 4N 12W SECTION: 36 QUARTERS/FOOTAGES: SW SE NE

QUADRANGLE: LAWRENCEVILLE LONGITUDE: -87.687949 GEOLOGIST: HINES

CONFIDENTIAL: N LATITUDE: 38.740636 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 1998.0 LOG TYPE: Survey Sample Study

SOURCE: WALDEN WELBY M 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: 10100683000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 1 QUARTERS/FOOTAGES: SE NE NE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.797643 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.81624 DATE COLLECTED:

SURFACE ELEVATION (FT.): 437.0 LOGGED (FT.): 776.0 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
110.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	327.0
3.0	CARBONDALE	DANVILLE	COAL	1.5	434.0
-46.0	CARBONDALE	JAMESTOWN	COAL	-	483.0
-53.0	CARBONDALE	HERRIN	COAL	-	490.0
-121.0	CARBONDALE	SPRINGFIELD	COAL	2.5	558.0
-201.0	CARBONDALE	HOUCHIN CREEK	COAL	-	638.0
-318.0	CARBONDALE	COLCHESTER	COAL	-	755.0
-337.0	SPOON	SEELYVILLE	COAL	2.0	774.0

MAPID: 10105774000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 1 QUARTERS/FOOTAGES: 10' N line, 10' W line of NE SE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.801079 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.811425 DATE COLLECTED:

SURFACE ELEVATION (FT.): 435.0 LOGGED (FT.): 733.0 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
156.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	279.0
46.0	CARBONDALE	DANVILLE	COAL	-	389.0
1.0	CARBONDALE	JAMESTOWN	COAL	-	434.0
-80.0	CARBONDALE	SPRINGFIELD	COAL	3.0	515.0
-275.0	CARBONDALE	COLCHESTER	COAL	-	710.0
-295.0	SPOON	SEELYVILLE	COAL	3.0	730.0

MAPID: 10101536000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 2 QUARTERS/FOOTAGES: SE SE SW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.824196 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.80641 DATE COLLECTED:

SURFACE ELEVATION (FT.): 437.0 LOGGED (FT.): 801.0 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
94.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	343.0
-20.0	CARBONDALE	DANVILLE	COAL	2.0	457.0
-70.0	CARBONDALE	JAMESTOWN	COAL	4.5	507.0
-78.0	CARBONDALE	HERRIN	COAL	-	515.0
-136.0	CARBONDALE	SPRINGFIELD	COAL	4.0	573.0
-208.0	CARBONDALE	HOUCHIN CREEK	COAL	-	645.0
-321.0	CARBONDALE	COLCHESTER	COAL	-	758.0
-360.0	SPOON	SEELYVILLE	COAL	4.0	797.0

MAPID: 10104937000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 2 QUARTERS/FOOTAGES: SW NE NW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.826524 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.81754 DATE COLLECTED:

SURFACE ELEVATION (FT.): 435.0 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.)	
				UNIT	OVERBURDEN COMMENT
10.0	CARBONDALE	DANVILLE	COAL	2.0	425.0
-37.0	CARBONDALE	JAMESTOWN	COAL	-	472.0
-45.0	CARBONDALE	HERRIN	COAL	3.0	480.0
-103.0	CARBONDALE	SPRINGFIELD	COAL	3.5	538.0
-175.0	CARBONDALE	HOUCHIN CREEK	COAL	-	610.0
-298.0	CARBONDALE	COLCHESTER	COAL	-	733.0
-323.0	SPOON	SEELYVILLE	COAL	2.0	758.0

MAPID: 10104939000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 2 QUARTERS/FOOTAGES: SE SE NE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.814714 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.813841 DATE COLLECTED:

SURFACE ELEVATION (FT.): 427.0 LOGGED (FT.): 721.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	290.0
32.0	CARBONDALE	DANVILLE	COAL	2.5	395.0
-17.0	CARBONDALE	JAMESTOWN	COAL	-	444.0
-26.0	CARBONDALE	HERRIN	COAL	-	453.0
-85.0	CARBONDALE	SPRINGFIELD	COAL	3.5	512.0
-161.0	CARBONDALE	HOUCHIN CREEK	COAL	-	588.0
-257.0	CARBONDALE	COLCHESTER	COAL	-	684.0
-291.0	SPOON	SEELYVILLE	COAL	3.0	718.0

MAPID: 10100430000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 8 QUARTERS/FOOTAGES: NW NE SE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.87401 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.79728 DATE COLLECTED:

SURFACE ELEVATION (FT.): 504.0 LOGGED (FT.): 1076.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-106.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	610.0
-234.0	CARBONDALE	DANVILLE	COAL	-	738.0
-289.0	CARBONDALE	JAMESTOWN	COAL	-	793.0
-368.0	CARBONDALE	SPRINGFIELD	COAL	4.0	872.0
-434.0	CARBONDALE	HOUCHIN CREEK	COAL	-	938.0
-572.0	CARBONDALE	COLCHESTER	COAL	-	1076.0

MAPID: 10100431000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 9 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.852699 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.791772 DATE COLLECTED:

SURFACE ELEVATION (FT.): 485.0 LOGGED (FT.): 967.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-48.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	533.0
-173.0	CARBONDALE	DANVILLE	COAL	-	658.0
-222.0	CARBONDALE	JAMESTOWN	COAL	4.0	707.0
-233.0	CARBONDALE	HERRIN	COAL	-	718.0
-305.0	CARBONDALE	SPRINGFIELD	COAL	4.0	790.0
-361.0	CARBONDALE	HOUCHIN CREEK	COAL	-	846.0
-482.0	CARBONDALE	COLCHESTER	COAL	-	967.0

MAPID: 10102420000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 10 QUARTERS/FOOTAGES: NE NW NW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.847779 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.804605 DATE COLLECTED:

SURFACE ELEVATION (FT.): 457.0 LOGGED (FT.): 886.0 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
-6.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	463.0
-129.0	CARBONDALE	DANVILLE	COAL	2.0	586.0
-181.0	CARBONDALE	JAMESTOWN	COAL	3.5	638.0
-189.0	CARBONDALE	HERRIN	COAL	-	646.0
-259.0	CARBONDALE	SPRINGFIELD	COAL	5.0	716.0
-320.0	CARBONDALE	HOUCHIN CREEK	COAL	-	777.0
-429.0	CARBONDALE	COLCHESTER	COAL	-	886.0

MAPID: 10101577000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 11 QUARTERS/FOOTAGES: NE SE NW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.824242 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.800882 DATE COLLECTED:

SURFACE ELEVATION (FT.): 452.0 LOGGED (FT.): 753.0 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
118.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	334.0
2.0	CARBONDALE	DANVILLE	COAL	-	450.0
-50.0	CARBONDALE	JAMESTOWN	COAL	4.0	502.0
-56.0	CARBONDALE	HERRIN	COAL	2.0	508.0
-111.0	CARBONDALE	SPRINGFIELD	COAL	3.5	563.0
-185.0	CARBONDALE	HOUCHIN CREEK	COAL	-	637.0
-301.0	CARBONDALE	COLCHESTER	COAL	-	753.0

MAPID: 10101662000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 11 QUARTERS/FOOTAGES: SW SE SE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.817251 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.791664 DATE COLLECTED:

SURFACE ELEVATION (FT.): 462.0 LOGGED (FT.): 770.0 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
146.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	316.0
32.0	CARBONDALE	DANVILLE	COAL	-	430.0
-16.0	CARBONDALE	JAMESTOWN	COAL	-	478.0
-25.0	CARBONDALE	HERRIN	COAL	-	487.0
-96.0	CARBONDALE	SPRINGFIELD	COAL	3.0	558.0
-176.0	CARBONDALE	HOUCHIN CREEK	COAL	-	638.0
-268.0	CARBONDALE	COLCHESTER	COAL	-	730.0
-306.0	SPOON	SEELYVILLE	COAL	2.0	768.0

MAPID: 10105632000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 12 QUARTERS/FOOTAGES: 10' S line, 10' W line of NE NE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.801071 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.800399 DATE COLLECTED:

SURFACE ELEVATION (FT.): 434.0 LOGGED (FT.): 675.0 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
222.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	212.0
124.0	CARBONDALE	DANVILLE	COAL	-	310.0
75.0	CARBONDALE	JAMESTOWN	COAL	4.0	359.0
4.0	CARBONDALE	SPRINGFIELD	COAL	3.0	430.0
-66.0	CARBONDALE	HOUCHIN CREEK	COAL	-	500.0
-211.0	CARBONDALE	COLCHESTER	COAL	-	645.0
-239.0	SPOON	SEELYVILLE	COAL	2.0	673.0

MAPID: 10101526000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 13 QUARTERS/FOOTAGES: 660' S line, 660' E line of NW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.808251 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.784114 DATE COLLECTED:

SURFACE ELEVATION (FT.): 426.0 LOGGED (FT.): 711.0 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
181.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	245.0
73.0	CARBONDALE	DANVILLE	COAL	-	353.0
20.0	CARBONDALE	JAMESTOWN	COAL	4.0	406.0
14.0	CARBONDALE	HERRIN	COAL	-	412.0
-70.0	CARBONDALE	SPRINGFIELD	COAL	-	496.0
-148.0	CARBONDALE	HOUCHIN CREEK	COAL	-	574.0
-244.0	CARBONDALE	COLCHESTER	COAL	-	670.0
-281.0	SPOON	SEELYVILLE	COAL	4.0	707.0

MAPID: 10101709000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 4N 13W

SECTION: 13

QUARTERS/FOOTAGES: SE NW SW

QUADRANGLE: CHAUNCEY

LONGITUDE: -87.811886

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.779597

DATE COLLECTED:

SURFACE ELEVATION (FT.): 427.0

LOGGED (FT.): 735.0

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
127.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	300.0
37.0	CARBONDALE	DANVILLE	COAL	-	390.0
-12.0	CARBONDALE	JAMESTOWN	COAL	4.0	439.0
-18.0	CARBONDALE	HERRIN	COAL	-	445.0
-101.0	CARBONDALE	SPRINGFIELD	COAL	3.5	528.0
-184.0	CARBONDALE	HOUCHIN CREEK	COAL	-	611.0
-270.0	CARBONDALE	COLCHESTER	COAL	-	697.0
-304.0	SPOON	SEELYVILLE	COAL	4.0	731.0

MAPID: 10101926000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 4N 13W

SECTION: 13

QUARTERS/FOOTAGES: 1650' S line, 990' E line of NW

QUADRANGLE: CHAUNCEY

LONGITUDE: -87.809374

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.786855

DATE COLLECTED:

SURFACE ELEVATION (FT.): 426.0

LOGGED (FT.): 723.0

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
162.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	264.0
35.0	CARBONDALE	DANVILLE	COAL	4.0	391.0
10.0	CARBONDALE	JAMESTOWN	COAL	4.0	416.0
5.0	CARBONDALE	HERRIN	COAL	-	421.0
-64.0	CARBONDALE	SPRINGFIELD	COAL	3.5	490.0
-153.0	CARBONDALE	HOUCHIN CREEK	COAL	-	579.0
-274.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-297.0	SPOON	SEELYVILLE	COAL	-	723.0

MAPID: 10102033000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 13 QUARTERS/FOOTAGES: 10' S line, 10' W line of NE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.805913 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.782301 DATE COLLECTED:

SURFACE ELEVATION (FT.): 438.0 LOGGED (FT.): 680.5 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
211.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	227.0
104.0	CARBONDALE	DANVILLE	COAL	-	334.0
55.0	CARBONDALE	JAMESTOWN	COAL	-	383.0
51.0	CARBONDALE	HERRIN	COAL	-	387.0
-35.0	CARBONDALE	SPRINGFIELD	COAL	-	473.0
-112.0	CARBONDALE	HOUCHIN CREEK	COAL	-	550.0
-212.0	CARBONDALE	COLCHESTER	COAL	-	650.0
-240.0	SPOON	SEELYVILLE	COAL	2.5	678.0

MAPID: 10101339000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 14 QUARTERS/FOOTAGES: NE NE SE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.818026 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.782315 DATE COLLECTED:

SURFACE ELEVATION (FT.): 436.0 LOGGED (FT.): 739.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
126.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	310.0
3.0	CARBONDALE	DANVILLE	COAL	-	433.0
-45.0	CARBONDALE	JAMESTOWN	COAL	3.5	481.0
-54.0	CARBONDALE	HERRIN	COAL	-	490.0
-129.0	CARBONDALE	SPRINGFIELD	COAL	4.0	565.0
-215.0	CARBONDALE	HOUCHIN CREEK	COAL	-	651.0
-303.0	CARBONDALE	COLCHESTER	COAL	-	739.0

MAPID: 10101890000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 14 QUARTERS/FOOTAGES: 370' N line, 688' E line of NW NE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.820828 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.789744 DATE COLLECTED:

SURFACE ELEVATION (FT.): 483.0 LOGGED (FT.): 816.5 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
120.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	363.0
1.0	CARBONDALE	DANVILLE	COAL	2.0	482.0
-48.0	CARBONDALE	JAMESTOWN	COAL	3.5	531.0
-55.0	CARBONDALE	HERRIN	COAL	-	538.0
-123.0	CARBONDALE	SPRINGFIELD	COAL	3.0	606.0
-203.0	CARBONDALE	HOUCHIN CREEK	COAL	-	686.0
-293.0	CARBONDALE	COLCHESTER	COAL	-	776.0
-332.0	SPOON	SEELYVILLE	COAL	1.5	815.0

MAPID: 10100424000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 15 QUARTERS/FOOTAGES: SE NW NW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.848012 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.788069 DATE COLLECTED:

SURFACE ELEVATION (FT.): 479.0 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
-37.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	516.0
-169.0	CARBONDALE	DANVILLE	COAL	-	648.0
-225.0	CARBONDALE	JAMESTOWN	COAL	-	704.0
-235.0	CARBONDALE	HERRIN	COAL	4.0	714.0
-313.0	CARBONDALE	SPRINGFIELD	COAL	5.0	792.0
-378.0	CARBONDALE	HOUCHIN CREEK	COAL	-	857.0
-486.0	CARBONDALE	COLCHESTER	COAL	-	965.0

MAPID: 10100426000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 15 QUARTERS/FOOTAGES: NW NW SW
 QUADRANGLE: CHAUNCEY LONGITUDE: -87.85044 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.782529 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 468.0 LOGGED (FT.): 996.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	518.0
-178.0	CARBONDALE	DANVILLE	COAL	-	646.0
-233.0	CARBONDALE	JAMESTOWN	COAL	5.0	701.0
-244.0	CARBONDALE	HERRIN	COAL	4.0	712.0
-325.0	CARBONDALE	SPRINGFIELD	COAL	5.5	793.0
-394.0	CARBONDALE	HOUCHIN CREEK	COAL	-	862.0
-486.0	CARBONDALE	COLCHESTER	COAL	-	954.0
-528.0	SPOON	SEELYVILLE	COAL	-	996.0

MAPID: 10105470000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 15 QUARTERS/FOOTAGES: NW NW SE
 QUADRANGLE: CHAUNCEY LONGITUDE: -87.841001 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.782485 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 492.0 LOGGED (FT.): 953.0 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
5.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	487.0
-125.0	CARBONDALE	DANVILLE	COAL	-	617.0
-173.0	CARBONDALE	JAMESTOWN	COAL	4.0	665.0
-183.0	CARBONDALE	HERRIN	COAL	2.5	675.0
-259.0	CARBONDALE	SPRINGFIELD	COAL	4.0	751.0
-333.0	CARBONDALE	HOUCHIN CREEK	COAL	-	825.0
-421.0	CARBONDALE	COLCHESTER	COAL	-	913.0
-459.0	SPOON	SEELYVILLE	COAL	2.0	951.0

MAPID: 10100434000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 16 QUARTERS/FOOTAGES: SE NE SW
 QUADRANGLE: CHAUNCEY LONGITUDE: -87.862247 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.780691 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 467.0 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.)		COMMENT
				UNIT	OVERBURDEN	
-82.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	549.0	
-203.0	CARBONDALE	DANVILLE	COAL	-	670.0	
-251.0	CARBONDALE	JAMESTOWN	COAL	4.0	718.0	
-265.0	CARBONDALE	HERRIN	COAL	2.5	732.0	
-335.0	CARBONDALE	SPRINGFIELD	COAL	5.0	802.0	
-417.0	CARBONDALE	HOUCHIN CREEK	COAL	-	884.0	
-503.0	CARBONDALE	COLCHESTER	COAL	-	970.0	

MAPID: 10104993000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 16 QUARTERS/FOOTAGES: NW SE NE
 QUADRANGLE: CHAUNCEY LONGITUDE: -87.855124 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.786232 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 484.0 LOGGED (FT.): 1028.0 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	
-67.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	551.0	
-192.0	CARBONDALE	DANVILLE	COAL	3.0	676.0	
-243.0	CARBONDALE	JAMESTOWN	COAL	4.0	727.0	
-256.0	CARBONDALE	HERRIN	COAL	3.0	740.0	
-330.0	CARBONDALE	SPRINGFIELD	COAL	4.5	814.0	
-395.0	CARBONDALE	HOUCHIN CREEK	COAL	-	879.0	
-504.0	CARBONDALE	COLCHESTER	COAL	-	988.0	
-541.0	SPOON	SEELYVILLE	COAL	3.0	1025.0	

MAPID: 10100422000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 4N 13W **SECTION:** 19 **QUARTERS/FOOTAGES:** SE SE SW
QUADRANGLE: LANDES **LONGITUDE:** -87.900374 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.762315 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 454.0 **LOGGED (FT.):** 1196.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-226.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	680.0
-368.0	CARBONDALE	DANVILLE	COAL	-	822.0
-422.0	CARBONDALE	JAMESTOWN	COAL	5.0	876.0
-434.0	CARBONDALE	HERRIN	COAL	-	888.0
-503.0	CARBONDALE	SPRINGFIELD	COAL	3.5	957.0
-602.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1056.0
-696.0	CARBONDALE	COLCHESTER	COAL	-	1150.0
-742.0	SPOON	SEELYVILLE	COAL	-	1196.0

MAPID: 10100421000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 4N 13W **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' N line, 250' E line
QUADRANGLE: CHAUNCEY **LONGITUDE:** -87.871411 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.775176 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 462.0 **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
-112.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	574.0
-240.0	CARBONDALE	DANVILLE	COAL	-	702.0
-295.0	CARBONDALE	JAMESTOWN	COAL	-	757.0
-304.0	CARBONDALE	HERRIN	COAL	-	766.0
-378.0	CARBONDALE	SPRINGFIELD	COAL	4.0	840.0
-458.0	CARBONDALE	HOUCHIN CREEK	COAL	-	920.0

MAPID: 10101791000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 23 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.816751 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.770489 DATE COLLECTED:

SURFACE ELEVATION (FT.): 430.0 LOGGED (FT.): 715.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	311.0
6.0	CARBONDALE	DANVILLE	COAL	-	424.0
-38.0	CARBONDALE	JAMESTOWN	COAL	-	468.0
-48.0	CARBONDALE	HERRIN	COAL	-	478.0
-120.0	CARBONDALE	SPRINGFIELD	COAL	2.5	550.0
-197.0	CARBONDALE	HOUCHIN CREEK	COAL	-	627.0
-285.0	CARBONDALE	COLCHESTER	COAL	-	715.0

MAPID: 10100418000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 24 QUARTERS/FOOTAGES: 330' N line, 500' E line of SW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.807867 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.766738 DATE COLLECTED:

SURFACE ELEVATION (FT.): 433.0 LOGGED (FT.): 713.0 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
162.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	271.0
55.0	CARBONDALE	DANVILLE	COAL	-	378.0
11.0	CARBONDALE	JAMESTOWN	COAL	3.5	422.0
-183.0	CARBONDALE	HOUCHIN CREEK	COAL	-	616.0
-255.0	CARBONDALE	COLCHESTER	COAL	-	688.0
-280.0	SPOON	SEELYVILLE	COAL	-	713.0

MAPID: 10100832000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 4N 13W **SECTION:** 24 **QUARTERS/FOOTAGES:** 660' N line, 990' E line of NW
QUADRANGLE: CHAUNCEY **LONGITUDE:** -87.809554 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.773221 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 435.0 **LOGGED (FT.):** 650.0 **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
181.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	254.0
75.0	CARBONDALE	DANVILLE	COAL	2.0	360.0
26.0	CARBONDALE	JAMESTOWN	COAL	-	409.0
-60.0	CARBONDALE	SPRINGFIELD	COAL	3.0	495.0
-135.0	CARBONDALE	HOUCHIN CREEK	COAL	-	570.0
-215.0	CARBONDALE	COLCHESTER	COAL	-	650.0

MAPID: 10106155000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 4N 13W **SECTION:** 24 **QUARTERS/FOOTAGES:** SW SE NW
QUADRANGLE: CHAUNCEY **LONGITUDE:** -87.809661 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.768581 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 438.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Nuclear Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: FAIR LOG

MAPID: 10101079000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 4N 13W **SECTION:** 25 **QUARTERS/FOOTAGES:** NE SW SW
QUADRANGLE: SUMNER **LONGITUDE:** -87.812043 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.748287 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 466.0 **LOGGED (FT.):** 847.0 **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
96.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	370.0
-14.0	CARBONDALE	DANVILLE	COAL	-	480.0
-62.0	CARBONDALE	JAMESTOWN	COAL	-	528.0
-79.0	CARBONDALE	HERRIN	COAL	-	545.0
-162.0	CARBONDALE	SPRINGFIELD	COAL	-	628.0
-244.0	CARBONDALE	HOUCHIN CREEK	COAL	-	710.0
-349.0	CARBONDALE	COLCHESTER	COAL	-	815.0
-379.0	SPOON	SEELYVILLE	COAL	2.0	845.0

MAPID: 10105511000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 25 QUARTERS/FOOTAGES: 0' N line, 660' E line of SE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.798983 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.752846 DATE COLLECTED:

SURFACE ELEVATION (FT.): 484.0 LOGGED (FT.): 773.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	336.0
35.0	CARBONDALE	DANVILLE	COAL	-	449.0
-12.0	CARBONDALE	JAMESTOWN	COAL	-	496.0
-24.0	CARBONDALE	HERRIN	COAL	-	508.0
-94.0	CARBONDALE	SPRINGFIELD	COAL	4.0	578.0
-181.0	CARBONDALE	HOUCHIN CREEK	COAL	-	665.0
-276.0	CARBONDALE	COLCHESTER	COAL	-	760.0
-289.0	SPOON	SEELYVILLE	COAL	-	773.0

MAPID: 10100420000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 28 QUARTERS/FOOTAGES: SE SW NE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.857817 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.754856 DATE COLLECTED:

SURFACE ELEVATION (FT.): 453.0 LOGGED (FT.): 1032.0 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
-94.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	547.0
-228.0	CARBONDALE	DANVILLE	COAL	-	681.0
-275.0	CARBONDALE	JAMESTOWN	COAL	-	728.0
-285.0	CARBONDALE	HERRIN	COAL	-	738.0
-357.0	CARBONDALE	SPRINGFIELD	COAL	5.0	810.0
-434.0	CARBONDALE	HOUCHIN CREEK	COAL	-	887.0
-537.0	CARBONDALE	COLCHESTER	COAL	-	990.0
-577.0	SPOON	SEELYVILLE	COAL	2.0	1030.0

MAPID: 10128181000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 31 QUARTERS/FOOTAGES: NW SE SW

QUADRANGLE: CLAREMONT LONGITUDE: -87.902974 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.734789 DATE COLLECTED:

SURFACE ELEVATION (FT.): 534.0 LOGGED (FT.): 1280.0 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
-222.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	756.0
-377.0	CARBONDALE	DANVILLE	COAL	-	911.0
-427.0	CARBONDALE	JAMESTOWN	COAL	4.5	961.0
-439.0	CARBONDALE	HERRIN	COAL	-	973.0
-506.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1040.0
-596.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1130.0
-716.0	CARBONDALE	COLCHESTER	COAL	-	1250.0
-746.0	SPOON	SEELYVILLE	COAL	-	1280.0

MAPID: 10100415000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 34 QUARTERS/FOOTAGES: NE NE SW

QUADRANGLE: SUMNER LONGITUDE: -87.847237 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.73823 DATE COLLECTED:

SURFACE ELEVATION (FT.): 553.0 LOGGED (FT.): 1034.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-47.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	600.0
-181.0	CARBONDALE	DANVILLE	COAL	2.5	734.0
-225.0	CARBONDALE	JAMESTOWN	COAL	-	778.0
-311.0	CARBONDALE	SPRINGFIELD	COAL	3.5	864.0
-393.0	CARBONDALE	HOUCHIN CREEK	COAL	-	946.0
-481.0	CARBONDALE	COLCHESTER	COAL	-	1034.0

MAPID: 10100412000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 4N 13W

SECTION: 35

QUARTERS/FOOTAGES: NW NW NE

QUADRANGLE: SUMNER

LONGITUDE: -87.823718

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.74469

DATE COLLECTED:

SURFACE ELEVATION (FT.): 473.0

LOGGED (FT.): 903.0

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	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	444.0
-90.0	CARBONDALE	DANVILLE	COAL	2.0	563.0
-137.0	CARBONDALE	JAMESTOWN	COAL	2.0	610.0
-145.0	CARBONDALE	HERRIN	COAL	2.0	618.0
-219.0	CARBONDALE	SPRINGFIELD	COAL	3.5	692.0
-300.0	CARBONDALE	HOUCHIN CREEK	COAL	-	773.0
-403.0	CARBONDALE	COLCHESTER	COAL	-	876.0
-428.0	SPOON	SEELYVILLE	COAL	2.0	901.0

MAPID: 10100414000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 4N 13W

SECTION: 35

QUARTERS/FOOTAGES: NE NE SE

QUADRANGLE: SUMNER

LONGITUDE: -87.816775

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.737261

DATE COLLECTED:

SURFACE ELEVATION (FT.): 568.0

LOGGED (FT.): 935.0

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	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	484.0
-36.0	CARBONDALE	DANVILLE	COAL	2.0	604.0
-80.0	CARBONDALE	JAMESTOWN	COAL	-	648.0
-180.0	CARBONDALE	SPRINGFIELD	COAL	-	748.0
-270.0	CARBONDALE	HOUCHIN CREEK	COAL	-	838.0
-367.0	CARBONDALE	COLCHESTER	COAL	-	935.0

MAPID: 10101138000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 36 QUARTERS/FOOTAGES: SE SW NE

QUADRANGLE: SUMNER LONGITUDE: -87.802642 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.739016 DATE COLLECTED:

SURFACE ELEVATION (FT.): 505.0 LOGGED (FT.): 866.5 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
93.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	412.0
-28.0	CARBONDALE	DANVILLE	COAL	-	533.0
-72.0	CARBONDALE	JAMESTOWN	COAL	3.0	577.0
-79.0	CARBONDALE	HERRIN	COAL	2.0	584.0
-151.0	CARBONDALE	SPRINGFIELD	COAL	3.0	656.0
-241.0	CARBONDALE	HOUCHIN CREEK	COAL	-	746.0
-328.0	CARBONDALE	COLCHESTER	COAL	-	833.0
-357.0	SPOON	SEELYVILLE	COAL	4.5	862.0

MAPID: 10105018000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 4N 13W SECTION: 36 QUARTERS/FOOTAGES: NE SW NW

QUADRANGLE: SUMNER LONGITUDE: -87.812053 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.740909 DATE COLLECTED:

SURFACE ELEVATION (FT.): 524.0 LOGGED (FT.): 907.0 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
84.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	440.0
-36.0	CARBONDALE	DANVILLE	COAL	2.5	560.0
-85.0	CARBONDALE	JAMESTOWN	COAL	3.0	609.0
-90.0	CARBONDALE	HERRIN	COAL	2.0	614.0
-174.0	CARBONDALE	SPRINGFIELD	COAL	4.0	698.0
-265.0	CARBONDALE	HOUCHIN CREEK	COAL	-	789.0
-367.0	CARBONDALE	COLCHESTER	COAL	-	891.0
-379.0	SPOON	SEELYVILLE	COAL	4.0	903.0

MAPID: 10106978000C VERSION: 1

PROJECT: CONF

COUNTY: LAWRENCE TWP/RNG: 5N 10W SECTION: 29 QUARTERS/FOOTAGES: SE NE

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.540768 GEOLOGIST: LOG BOOK

CONFIDENTIAL: N LATITUDE: 38.846997 DATE COLLECTED: 4 / 16 / 1968

SURFACE ELEVATION (FT.): 420.0 LOGGED (FT.): 414.0 LOG TYPE: Drillers Log

SOURCE: TEMPLETON 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
197.3	MODESTO	PIRTLE (IN)	COAL	1.3	222.7
142.7	SHELBURN	DANVILLE	COAL	2.7	277.3
94.6	SHELBURN	JAMESTOWN	COAL	3.3	325.4
88.2	CARBONDALE	HERRIN	COAL	1.8	331.8
40.6	CARBONDALE	BRIAR HILL	COAL	2.8	379.4
13.8	CARBONDALE	SPRINGFIELD	COAL	5.3	406.2

MAPID: 10106978000C VERSION: 2

PROJECT: AVAIL

COUNTY: LAWRENCE TWP/RNG: 5N 10W SECTION: 29 QUARTERS/FOOTAGES: SE NE

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.540768 GEOLOGIST: UITEMP

CONFIDENTIAL: N LATITUDE: 38.846997 DATE COLLECTED: 4 / 16 / 1968

SURFACE ELEVATION (FT.): 420.0 LOGGED (FT.): 414.0 LOG TYPE: Drillers Log

SOURCE: TEMPLETON COAL CO 1 WELL TYPE: Coal Test

COMMENT: CONFIDENTIAL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
420.0	PLEISTOCENE		CLAY	4.0	0.0	BROWN
416.0	PLEISTOCENE		SAND	10.0	4.0	BROWN
406.0			GRAY SHALE	34.0	14.0	
372.0			GRAY SHALE	26.3	48.0	
345.7			BLACK SHALE	2.4	74.3	
343.3			GRAY SHALE	3.3	76.7	
340.0			GRAY SHALE	50.0	80.0	
290.0			GRAY SHALE	11.0	130.0	
279.0			SANDSTONE	15.5	141.0	GRAY
263.5			GRAY SHALE	19.5	156.5	
244.0			GRAY SHALE	2.3	176.0	
241.7	MODESTO	WEST FRANKLIN	LIMESTONE	3.3	178.3	GRAY
238.3	MODESTO		GRAY SHALE	4.3	181.7	
234.0	MODESTO		GRAY SHALE	7.5	186.0	
226.5	MODESTO		CALCAREOUS SANDSTONE	4.5	193.5	GRAY
222.0	MODESTO		SANDSTONE	18.5	198.0	GRAY
203.5	MODESTO		GRAY SHALE	6.2	216.5	
197.3	MODESTO	PIRTLE (IN)	COAL	1.3	222.7	BLACK
196.0	MODESTO		GRAY SHALE	2.0	224.0	
194.0	MODESTO		GRAY SHALE	49.0	226.0	
145.0	MODESTO		GRAY SHALE	2.3	275.0	
142.7	CARBONDALE	DANVILLE	COAL	2.7	277.3	BLACK
140.0	CARBONDALE		UNDERCLAY	3.5	280.0	GRAY
136.5	CARBONDALE		GRAY SHALE	6.5	283.5	
130.0	CARBONDALE		GRAY SHALE	5.5	290.0	
124.5	CARBONDALE		SANDSTONE	17.5	295.5	GRAY
107.0	CARBONDALE		GRAY SHALE	8.5	313.0	
98.5	CARBONDALE		GRAY SHALE	3.9	321.5	
94.6	CARBONDALE	JAMESTOWN	COAL	3.3	325.4	BLACK
91.3	CARBONDALE		UNDERCLAY	3.2	328.7	SHALEY;GY
88.2	CARBONDALE	HERRIN	COAL	1.8	331.8	BLACK
86.4	CARBONDALE		UNDERCLAY	4.8	333.6	GRAY
81.7	CARBONDALE		LIMESTONE	1.7	338.3	GRAY
80.0	CARBONDALE		GRAY SHALE	4.0	340.0	
76.0	CARBONDALE		GRAY SHALE	25.5	344.0	
50.5	CARBONDALE		GRAY SHALE	9.9	369.5	
40.6	CARBONDALE	BRIAR HILL	COAL	2.8	379.4	
37.7	CARBONDALE		UNDERCLAY	2.8	382.3	SHALEY;GY

35.0	CARBONDALE		GRAY SHALE	11.0	385.0	
24.0	CARBONDALE		GRAY SHALE	6.5	396.0	
17.5	CARBONDALE	ST. DAVID	LIMESTONE	1.2	402.5	GRAY
16.3	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	403.7	
13.8	CARBONDALE	SPRINGFIELD	COAL	5.3	406.2	BLACK
8.5	CARBONDALE		UNDERCLAY	2.5	411.5	GRAY

MAPID: 10106979000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: LAWRENCE **TWP/RNG:** 5N 10W **SECTION:** 29 **QUARTERS/FOOTAGES:** 1' N line, 100' E line of NE NW
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.548212 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.852507 **DATE COLLECTED:** 5 / 10 / 1968
SURFACE ELEVATION (FT.): 470.0 **LOGGED (FT.):** 472.0 **LOG TYPE:** Drillers Log
SOURCE: TEMPLETON COAL CO 3 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
194.7	MODESTO	PIRTLE (IN)	COAL	1.3	275.3	
140.7	SHELBURN	DANVILLE	COAL	2.5	329.3	
95.3	SHELBURN	JAMESTOWN	COAL	3.2	374.7	
88.1	CARBONDALE	HERRIN	COAL	1.4	381.9	
34.4	CARBONDALE	BRIAR HILL	COAL	2.7	435.6	
6.2	CARBONDALE	SPRINGFIELD	COAL	6.2	463.8	

MAPID: 10106979000C VERSION: 2

PROJECT: AVAIL

COUNTY: LAWRENCE TWP/RNG: 5N 10W SECTION: 29 QUARTERS/FOOTAGES: 1' N line, 100' E line of NE NW

QUADRANGLE: RUSSELLVILLE

LONGITUDE: -87.548212

GEOLOGIST: UITEMP

CONFIDENTIAL: N

LATITUDE: 38.852507

DATE COLLECTED: 5 / 10 / 1968

SURFACE ELEVATION (FT.): 470.0

LOGGED (FT.): 472.0

LOG TYPE: Drillers Log

SOURCE: TEMPLETON COAL CO 3

WELL TYPE: Coal Test

COMMENT: CONFIDENTIAL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
470.0	PLEISTOCENE		CLAY	3.0	0.0	BROWN
467.0	PLEISTOCENE		SAND	11.0	3.0	BROWN
456.0			GRAY SHALE	21.6	14.0	
434.5			GRAY SHALE	3.5	35.5	
431.0			GRAY SHALE	3.0	39.0	
428.0			GRAY SHALE	43.5	42.0	
384.5			SANDSTONE	10.5	85.5	GRAY
374.0			GRAY SHALE	25.7	96.0	
348.3			BLACK SHALE	2.8	121.7	
345.5			GRAY SHALE	5.5	124.5	
340.0			GRAY SHALE	4.3	130.0	
335.7			LIMESTONE	0.7	134.3	GRAY
335.0			GRAY SHALE	5.0	135.0	
330.0			GRAY SHALE	8.2	140.0	
321.8			SANDSTONE	6.3	148.2	GRAY
315.5			GRAY SHALE	10.5	154.5	
305.0			SANDSTONE	45.7	165.0	GRAY
259.3			COAL	0.3	210.7	BLACK
259.0			UNDERCLAY	2.5	211.0	GRAY
256.5			GRAY SHALE	2.5	213.5	
254.0			GRAY SHALE	7.2	216.0	
246.8			GRAY SHALE	1.1	223.2	
245.7	MODESTO	WEST FRANKLIN	LIMESTONE	0.8	224.3	GRAY
245.0	MODESTO	WEST FRANKLIN	GRAY SHALE	0.6	225.0	
244.4	MODESTO	WEST FRANKLIN	LIMESTONE	3.9	225.6	GRAY
240.5	MODESTO		GRAY SHALE	7.0	229.5	
233.5	MODESTO		GRAY SHALE	8.7	236.5	
224.8	MODESTO		GRAY SHALE	2.5	245.2	
222.3	MODESTO		GRAY SHALE	17.3	247.7	
205.0	MODESTO		GRAY SHALE	10.3	265.0	
194.7	MODESTO	PIRTLE (IN)	COAL	1.3	275.3	BLACK
193.4	MODESTO		GRAY SHALE	5.4	276.6	
188.0	MODESTO		GRAY SHALE	26.0	282.0	
162.0	MODESTO		SANDSTONE	14.5	308.0	GRAY
147.5	MODESTO		GRAY SHALE	4.5	322.5	
143.0	MODESTO		GRAY SHALE	2.3	327.0	
140.7	CARBONDALE	DANVILLE	COAL	2.5	329.3	BLACK
138.2	CARBONDALE		UNDERCLAY	3.7	331.8	GRAY
134.5	CARBONDALE		GRAY SHALE	2.5	335.5	

132.0	CARBONDALE		LIMESTONE	0.7	338.0	GRAY
131.3	CARBONDALE		GRAY SHALE	5.3	338.7	
126.0	CARBONDALE		GRAY SHALE	4.0	344.0	
122.0	CARBONDALE		SANDSTONE	9.5	348.0	GRAY
112.5	CARBONDALE		GRAY SHALE	9.5	357.5	
103.0	CARBONDALE		GRAY SHALE	7.7	367.0	
95.3	CARBONDALE	JAMESTOWN	COAL	3.2	374.7	BLACK
92.2	CARBONDALE		GRAY SHALE	4.1	377.8	
88.1	CARBONDALE	HERRIN	COAL	1.4	381.9	BLACK
86.7	CARBONDALE		UNDERCLAY	2.2	383.3	GRAY
84.5	CARBONDALE		GRAY SHALE	1.2	385.5	
83.3	CARBONDALE		GRAY SHALE	3.3	386.7	
80.0	CARBONDALE		GRAY SHALE	6.5	390.0	
73.5	CARBONDALE		SANDSTONE	18.5	396.5	GRAY
55.0	CARBONDALE		GRAY SHALE	8.0	415.0	
47.0	CARBONDALE		GRAY SHALE	12.6	423.0	
34.4	CARBONDALE	BRIAR HILL	COAL	2.7	435.6	BLACK
31.7	CARBONDALE		GRAY SHALE	0.8	438.3	
31.0	CARBONDALE		GRAY SHALE	3.5	439.0	
27.5	CARBONDALE		SANDSTONE	2.5	442.5	GRAY
25.0	CARBONDALE		GRAY SHALE	12.0	445.0	
13.0	CARBONDALE		LIMESTONE	0.8	457.0	GRAY
12.2	CARBONDALE		BLACK SHALE	4.3	457.8	
7.9	CARBONDALE		GRAY SHALE	1.8	462.1	
6.2	CARBONDALE	SPRINGFIELD	COAL	6.2	463.8	BLACK
0.0	CARBONDALE		UNDERCLAY	2.0	470.0	GRAY

MAPID: 10106982000C VERSION: 1

PROJECT: CONF

COUNTY: LAWRENCE TWP/RNG: 5N 10W SECTION: 29

QUARTERS/FOOTAGES: SW SW SE NW

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.552098

GEOLOGIST: LOG BOOK

CONFIDENTIAL: N LATITUDE: 38.84563

DATE COLLECTED: 4 / 16 / 1968

SURFACE ELEVATION (FT.): 477.0 LOGGED (FT.): 675.0

LOG TYPE: Drillers Log

SOURCE: TEMPLETON 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	
347.7			COAL	0.3	129.3	
193.2	MODESTO	PIRTLE (IN)	COAL	1.0	283.8	
136.4	SHELBURN	DANVILLE	COAL	2.8	340.6	
92.5	SHELBURN	JAMESTOWN	COAL	3.1	384.5	
87.2	CARBONDALE	HERRIN	COAL	1.8	389.8	
31.7	CARBONDALE	BRIAR HILL	COAL	2.3	445.3	
2.6	CARBONDALE	SPRINGFIELD	COAL	5.5	474.4	
-76.1	CARBONDALE	HOUCHIN CREEK	COAL	1.2	553.1	
-170.7	CARBONDALE	COLCHESTER	COAL	0.8	647.7	
-185.4	CARBONDALE	SEELYVILLE	COAL	2.4	662.4	SPLIT
-190.6	CARBONDALE	SEELYVILLE	COAL	0.4	667.6	SPLIT

MAPID: 10106982000C VERSION: 2

PROJECT: AVAIL

COUNTY: LAWRENCE TWP/RNG: 5N 10W SECTION: 29 QUARTERS/FOOTAGES: SW SW SE NW

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.552098 GEOLOGIST: UITEMP

CONFIDENTIAL: N LATITUDE: 38.84563 DATE COLLECTED: 4 / 16 / 1968

SURFACE ELEVATION (FT.): 477.0 LOGGED (FT.): 675.0 LOG TYPE: Drillers Log

SOURCE: TEMPLETON COAL CO 2 WELL TYPE: Coal Test

COMMENT: CONFIDENTIAL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
477.0	PLEISTOCENE		CLAY	1.5	0.0	BROWN
475.5	PLEISTOCENE		CLAY	6.5	1.5	BROWN
469.0	PLEISTOCENE		SAND	4.0	8.0	BROWN
465.0	PLEISTOCENE		SAND	13.0	12.0	GRAY
452.0	PLEISTOCENE		SAND/CLAY	17.2	25.0	GRAY
434.8			GRAY SHALE	13.8	42.2	
421.0			GRAY SHALE	16.7	56.0	
404.3			GRAY SHALE	1.8	72.7	
402.5			GRAY SHALE	17.0	74.5	
385.5			SANDSTONE	9.5	91.5	GRAY
376.0			GRAY SHALE	25.7	101.0	
350.3			BLACK SHALE	2.6	126.7	
347.7			COAL	0.3	129.3	BLACK
347.5			GRAY SHALE	3.0	129.5	
344.5			GRAY SHALE	5.5	132.5	
339.0			SANDSTONE	8.0	138.0	GRAY
331.0			GRAY SHALE	39.0	146.0	
292.0			SANDSTONE	50.5	185.0	GRAY
241.5			GRAY SHALE	1.0	235.5	
240.5	MODESTO	WEST FRANKLIN	LIMESTONE	3.2	236.5	GRAY
237.3	MODESTO		GRAY SHALE	5.3	239.7	
232.0	MODESTO		GRAY SHALE	8.2	245.0	
223.8	MODESTO		SANDSTONE	4.2	253.2	GRAY
219.7	MODESTO		SANDSTONE	15.7	257.3	GRAY
204.0	MODESTO		GRAY SHALE	10.8	273.0	
193.2	MODESTO	PIRTLE (IN)	COAL	1.4	283.8	BLACK
191.8	MODESTO		GRAY SHALE	2.3	285.2	
189.5	MODESTO		GRAY SHALE	51.0	287.5	
138.5	MODESTO		GRAY SHALE	2.1	338.5	
136.4	CARBONDALE	DANVILLE	COAL	2.8	340.6	BLACK
133.6	CARBONDALE		UNDERCLAY	2.6	343.4	GRAY
131.0	CARBONDALE		GRAY SHALE	7.0	346.0	
124.0	CARBONDALE		GRAY SHALE	1.5	353.0	
122.5	CARBONDALE		SANDSTONE	18.5	354.5	GRAY
104.0	CARBONDALE		GRAY SHALE	8.0	373.0	
96.0	CARBONDALE		GRAY SHALE	3.5	381.0	
92.5	CARBONDALE	JAMESTOWN	COAL	3.1	384.5	BLACK
89.4	CARBONDALE		GRAY SHALE	2.3	387.6	
87.2	CARBONDALE	HERRIN	COAL	1.8	389.8	BLACK

85.3	CARBONDALE		UNDERCLAY	4.3	391.7	GRAY
81.1	CARBONDALE		LIMESTONE	2.5	395.9	GRAY
78.6	CARBONDALE		GRAY SHALE	4.1	398.4	
74.5	CARBONDALE		GRAY SHALE	3.5	402.5	
71.0	CARBONDALE		SANDSTONE	16.0	406.0	GRAY
55.0	CARBONDALE		GRAY SHALE	10.5	422.0	
44.5	CARBONDALE		GRAY SHALE	12.8	432.5	
31.7	CARBONDALE	BRIAR HILL	COAL	2.3	445.3	BLACK
29.3	CARBONDALE		UNDERCLAY	2.3	447.7	GRAY
27.0	CARBONDALE		GRAY SHALE	12.5	450.0	
14.5	CARBONDALE		GRAY SHALE	7.0	462.5	
7.5	CARBONDALE	ST. DAVID	LIMESTONE	1.9	469.5	GRAY
5.6	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	471.4	
2.6	CARBONDALE	SPRINGFIELD	COAL	5.4	474.4	BLACK
-2.8	CARBONDALE		UNDERCLAY	5.2	479.8	GRAY
-8.0	CARBONDALE		GRAY SHALE	0.0	485.0	
-8.0	CARBONDALE		GRAY SHALE	56.0	485.0	
-64.0	CARBONDALE		SHALE	6.2	541.0	
-70.2	CARBONDALE		SHALE	5.9	547.2	
-76.1	CARBONDALE		SHALE	1.2	553.1	
-77.3	CARBONDALE		GRAY SHALE	7.8	554.3	
-85.0	CARBONDALE		SANDSTONE	81.0	562.0	GRAY
-166.0	CARBONDALE		GRAY SHALE	4.5	643.0	
-170.5	CARBONDALE		COAL	0.8	647.5	BLACK
-171.3	CARBONDALE		UNDERCLAY	9.8	648.3	GRAY
-181.0	CARBONDALE		GRAY SHALE	1.4	658.0	
-182.4	CARBONDALE		BLACK SHALE	2.0	659.4	
-184.4	CARBONDALE	COLCHESTER	COAL	2.3	661.4	BLACK
-186.7	SPOON		GRAY SHALE	3.9	663.7	
-190.6	SPOON		COAL	0.4	667.6	BLACK
-191.0	SPOON		UNDERCLAY	0.3	668.0	GRAY
-191.3	SPOON		GRAY SHALE	6.8	668.3	

MAPID: 10100871000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 10W SECTION: 31 QUARTERS/FOOTAGES: NW NW NW
 QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.574806 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.837147 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 469.0 LOGGED (FT.): 667.0 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	
248.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	221.0	
140.0	CARBONDALE	DANVILLE	COAL	3.5	329.0	
89.0	CARBONDALE	HERRIN	COAL	-	380.0	
18.0	CARBONDALE	SPRINGFIELD	COAL	4.0	451.0	
-93.0	CARBONDALE	HOUCHIN CREEK	COAL	-	562.0	
-186.0	CARBONDALE	COLCHESTER	COAL	-	655.0	
-198.0	SPOON	SEELYVILLE	COAL	-	667.0	

MAPID: 10107062000C VERSION: 1

PROJECT: CONF

COUNTY: LAWRENCE TWP/RNG: 5N 10W SECTION: 31 QUARTERS/FOOTAGES: 86' N line, 10' E line of SW
 QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.566859 GEOLOGIST: LOG BOOK
 CONFIDENTIAL: N LATITUDE: 38.830264 DATE COLLECTED: 9 / 19 / 1968
 SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 419.8 LOG TYPE: Survey Core Study
 SOURCE: TEMPLETON COAL CO 12 WELL TYPE: Coal Test
 COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
203.7	MODESTO	PIRTLE (IN)	COAL	1.4	224.3	
149.6	SHELBURN	DANVILLE	COAL	2.5	278.4	
101.4	SHELBURN	JAMESTOWN	COAL	3.3	326.6	
96.1	CARBONDALE	HERRIN	COAL	1.7	331.9	
44.0	CARBONDALE	BRIAR HILL	COAL	2.6	384.0	
14.7	CARBONDALE	SPRINGFIELD	COAL	5.0	413.3	

MAPID: 10107062000C VERSION: 2

PROJECT: AVAIL

COUNTY: LAWRENCE TWP/RNG: 5N 10W SECTION: 31 QUARTERS/FOOTAGES: 86' N line, 10' E line of SW

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.566859 GEOLOGIST: UITEMP

CONFIDENTIAL: N LATITUDE: 38.830264 DATE COLLECTED: 9 / 19 / 1968

SURFACE ELEVATION (FT.): 428.0 LOGGED (FT.): 419.8 LOG TYPE: Drillers Log

SOURCE: TEMPLETON COAL CO 12 WELL TYPE: Coal Test

COMMENT: CONFIDENTIAL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
428.0	PLEISTOCENE		CLAY	6.5	0.0	GRAY
421.5			GRAY SHALE	13.0	6.5	
408.5			BLACK SHALE	2.5	19.5	
406.0			GRAY SHALE	9.0	22.0	
397.0			GRAY SHALE	13.5	31.0	
383.5			GRAY SHALE	5.8	44.5	
377.7			CALCAREOUS SHALE	2.8	50.3	
375.0			GRAY SHALE	11.5	53.0	
363.5			GRAY SHALE	10.3	64.5	
353.2			BLACK SHALE	1.3	74.8	
351.8			GRAY SHALE	4.7	76.2	
347.2			CALCAREOUS SHALE	4.2	80.8	
343.0			GRAY SHALE	27.0	85.0	
316.0			GRAY SHALE	16.5	112.0	
299.5			GRAY SHALE	6.5	128.5	
293.0			SANDSTONE	39.4	135.0	GRAY
253.6	MODESTO	WEST FRANKLIN	LIMESTONE	5.3	174.4	BROWN
248.3	MODESTO		GRAY SHALE	3.8	179.7	
244.5	MODESTO		BROWN SHALE	2.0	183.5	
242.5	MODESTO		GRAY SHALE	4.2	185.5	
238.3	MODESTO		CALCAREOUS SHALE	2.2	189.7	
236.2	MODESTO		SANDSTONE	3.8	191.8	GRAY
232.3	MODESTO		CALCAREOUS SANDSTONE	2.3	195.7	GRAY
230.0	MODESTO		SANDSTONE	13.5	198.0	GRAY
216.5	MODESTO		GRAY SHALE	9.5	211.5	
207.0	MODESTO		GRAY SHALE	3.3	221.0	
203.7	MODESTO	PIRTLE (IN)	COAL	1.4	224.3	BLACK
202.2	MODESTO		GRAY SHALE	3.3	225.8	
199.0	MODESTO		GRAY SHALE	23.0	229.0	
176.0	MODESTO		SANDSTONE	19.5	252.0	GRAY
156.5	MODESTO		SANDY SHALE	4.5	271.5	
152.0	MODESTO		GRAY SHALE	2.4	276.0	
149.6	CARBONDALE	DANVILLE	COAL	2.5	278.4	BLACK
147.1	CARBONDALE		UNDERCLAY	3.3	280.9	SHALEY;GY
143.7	CARBONDALE		GRAY SHALE	3.8	284.3	
140.0	CARBONDALE		CALCAREOUS SHALE	1.8	288.0	
138.2	CARBONDALE		GRAY SHALE	3.8	289.8	
134.3	CARBONDALE		LIMESTONE	0.7	293.7	GRAY

133.7	CARBONDALE		BROWN SHALE	6.2	294.3	
127.5	CARBONDALE		CALCAREOUS SHALE	1.8	300.5	
125.7	CARBONDALE		GRAY SHALE	1.7	302.3	
124.0	CARBONDALE		SANDY SHALE	15.0	304.0	
109.0	CARBONDALE		GRAY SHALE	7.6	319.0	
101.4	CARBONDALE	JAMESTOWN	COAL	3.3	326.6	BLACK
98.2	CARBONDALE		GRAY SHALE	2.1	329.8	
96.1	CARBONDALE	HERRIN	COAL	1.7	331.9	BLACK
94.4	CARBONDALE		UNDERCLAY	1.4	333.6	GRAY
93.0	CARBONDALE		SANDY SHALE	2.8	335.0	
90.2	CARBONDALE		CALCAREOUS SHALE	2.8	337.8	
87.3	CARBONDALE		CLAYSTONE & SILTSTONE	1.2	340.7	SHALEY;GY
86.2	CARBONDALE		GRAY SHALE	9.2	341.8	
77.0	CARBONDALE		SANDSTONE	22.5	351.0	GRAY
54.5	CARBONDALE		GRAY SHALE	10.5	373.5	
44.0	CARBONDALE	BRIAR HILL	COAL	2.6	384.0	BLACK
41.4	CARBONDALE		GRAY SHALE	12.9	386.6	
28.5	CARBONDALE		GRAY SHALE	7.0	399.5	
21.5	CARBONDALE		LIMESTONE	4.1	406.5	GRAY
17.4	CARBONDALE	TURNER MINE	BLACK SHALE	2.7	410.6	
14.7	CARBONDALE	SPRINGFIELD	COAL	5.0	413.3	BLACK
9.7	CARBONDALE		UNDERCLAY	1.8	418.3	GRAY

MAPID: 10107063000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: LAWRENCE **TWP/RNG:** 5N 10W **SECTION:** 31 **QUARTERS/FOOTAGES:** 200' N line, 1200' W line of NE
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.562565 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.837413 **DATE COLLECTED:** 9 / 19 / 1968
SURFACE ELEVATION (FT.): 425.0 **LOGGED (FT.):** 403.8 **LOG TYPE:** Survey Core Study
SOURCE: TEMPLETON COAL CO 13 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN	COMMENT
210.0	MODESTO	PIRTLE (IN)	COAL	1.6	215.0	
145.1	SHELBURN	DANVILLE	COAL	2.7	279.9	
102.3	SHELBURN	JAMESTOWN	COAL	3.3	322.7	
97.6	CARBONDALE	HERRIN	COAL	1.8	327.4	
50.2	CARBONDALE	BRIAR HILL	COAL	2.8	374.8	

MAPID: 10107063000C VERSION: 2

PROJECT: AVAIL

COUNTY: LAWRENCE TWP/RNG: 5N 10W SECTION: 31 QUARTERS/FOOTAGES: 200' N line, 1200' W line of NE

QUADRANGLE: RUSSELLVILLE

LONGITUDE: -87.562565

GEOLOGIST: UITEMP

CONFIDENTIAL: N

LATITUDE: 38.837413

DATE COLLECTED: 9 / 19 / 1968

SURFACE ELEVATION (FT.): 425.0

LOGGED (FT.): 405.0

LOG TYPE: Drillers Log

SOURCE: TEMPLETON COAL CO 13

WELL TYPE: Coal Test

COMMENT: CONFIDENTIAL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
425.0	PLEISTOCENE		CLAY	19.0	0.0	BROWN
406.0	PLEISTOCENE		CLAY	8.5	19.0	GRAY
397.5			GRAY SHALE	9.5	27.5	
388.0			GRAY SHALE	27.5	37.0	
360.5			BLACK SHALE	2.8	64.5	
357.7			GRAY SHALE	7.7	67.3	
350.0			GRAY SHALE	47.5	75.0	
302.5			SANDSTONE	17.5	122.5	GRAY
285.0			GRAY SHALE	11.0	140.0	
274.0			SANDSTONE	10.3	151.0	GRAY
263.7			GRAY SHALE	2.7	161.3	
261.0			SANDSTONE	3.5	164.0	GRAY
257.5			SANDSTONE	1.5	167.5	GRAY
256.0			LIMESTONE	3.2	169.0	BROWN
252.8			GRAY SHALE	1.8	172.2	
251.0			BROWN SHALE	2.2	174.0	
248.8			GRAY SHALE	3.5	176.2	
245.3			GRAY SHALE	2.3	179.7	
243.0			GRAY SHALE	6.3	182.0	
236.7	MODESTO	WEST FRANKLIN	LIMESTONE	2.7	188.3	GRAY
234.0	MODESTO		GRAY SHALE	2.5	191.0	
231.5	MODESTO		GRAY SHALE	14.5	193.5	
217.0	MODESTO		GRAY SHALE	7.0	208.0	
210.0	MODESTO	PIRTLE (IN)	COAL	1.6	215.0	BLACK
208.4	MODESTO		GRAY SHALE	2.9	216.6	
205.5	MODESTO		GRAY SHALE	17.0	219.5	
188.5	MODESTO		SANDSTONE	18.5	236.5	GRAY
170.0	MODESTO		GRAY SHALE	21.5	255.0	
148.5	MODESTO		GRAY SHALE	3.4	276.5	
145.1	CARBONDALE	DANVILLE	COAL	2.7	279.9	BLACK
142.4	CARBONDALE		GRAY SHALE	4.1	282.6	
138.3	CARBONDALE		CALCAREOUS SHALE	3.3	286.7	
135.0	CARBONDALE		GRAY SHALE	6.6	290.0	
128.4	CARBONDALE		GRAY SHALE	2.4	296.6	
126.0	CARBONDALE		GRAY SHALE	2.5	299.0	
123.5	CARBONDALE		SANDSTONE	21.2	301.5	GRAY
102.3	CARBONDALE	JAMESTOWN	COAL	3.3	322.7	BLACK
99.0	CARBONDALE		GRAY SHALE	1.4	326.0	
97.6	CARBONDALE	HERRIN	COAL	1.8	327.4	BLACK

95.7	CARBONDALE		UNDERCLAY	2.4	329.3	GRAY
93.3	CARBONDALE		GRAY SHALE	2.6	331.7	
90.7	CARBONDALE		CLAYSTONE & SILTSTONE	2.3	334.3	SHALEY,GY
88.5	CARBONDALE		GRAY SHALE	24.5	336.5	
64.0	CARBONDALE		GRAY SHALE	13.8	361.0	
50.2	CARBONDALE	BRIAR HILL	COAL	2.8	374.8	BLACK
47.4	CARBONDALE		GRAY SHALE	12.4	377.6	
35.0	CARBONDALE		GRAY SHALE	4.7	390.0	
30.3	CARBONDALE	ST. DAVID	LIMESTONE	3.6	394.7	GRAY
26.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	398.3	
25.5	CARBONDALE	SPRINGFIELD	COAL	3.5	399.5	BLACK
22.0	CARBONDALE		UNDERCLAY	2.0	403.0	GRAY

MAPID: 10107112000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: LAWRENCE **TWP/RNG:** 5N 10W **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' N line, 285' W line
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.574943 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.837183 **DATE COLLECTED:** 9/9/1968
SURFACE ELEVATION (FT.): 470.0 **LOGGED (FT.):** 458.0 **LOG TYPE:** Drillers Log
SOURCE: TEMPLETON 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
198.6	MODESTO	PIRTLE (IN)	COAL	1.3	271.4	
139.7	SHELBURN	DANVILLE	COAL	2.8	330.3	
94.8	SHELBURN	JAMESTOWN	COAL	3.7	375.2	
89.0	CARBONDALE	HERRIN	COAL	1.8	381.0	
36.9	CARBONDALE	BRIAR HILL	COAL	2.4	433.1	
16.4	CARBONDALE	SPRINGFIELD	COAL	4.5	453.6	

MAPID: 10107112000C VERSION: 2

PROJECT: AVAIL

COUNTY: LAWRENCE TWP/RNG: 5N 10W SECTION: 31 QUARTERS/FOOTAGES: 330' N line, 285' W line

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.574943 GEOLOGIST: UITEMP

CONFIDENTIAL: N LATITUDE: 38.837183 DATE COLLECTED: 9 / 9 / 1968

SURFACE ELEVATION (FT.): 470.0 LOGGED (FT.): 458.0 LOG TYPE: Drillers Log

SOURCE: TEMPLETON COAL CO 11 WELL TYPE: Coal Test

COMMENT: CONFIDENTIAL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
470.0	PLEISTOCENE		CLAY	8.0	0.0	BROWN
462.0	PLEISTOCENE		CLAY	11.5	8.0	BROWN
450.5			GRAY SHALE	13.5	19.5	
437.0			GRAY SHALE	39.0	33.0	
398.0			SANDSTONE	21.5	72.0	GRAY
376.5			GRAY SHALE	26.0	93.5	
350.5			BLACK SHALE	2.3	119.5	
348.2			GRAY SHALE	3.2	121.8	
345.0			GRAY SHALE	10.2	125.0	
334.8			CALCAREOUS SHALE	1.3	135.2	
333.5			GRAY SHALE	20.5	136.5	
313.0			SANDSTONE	28.5	157.0	GRAY
284.5			GRAY SHALE	10.5	185.5	
274.0			SANDSTONE	26.3	196.0	GRAY
247.7			CALCAREOUS SANDSTONE	4.3	222.3	GRAY
243.3			GRAY SHALE	11.8	226.7	
231.5			GRAY SHALE	4.3	238.5	
227.2	MODESTO	WEST FRANKLIN	LIMESTONE	0.8	242.8	GRAY
226.5	MODESTO		GRAY SHALE	4.5	243.5	
222.0	MODESTO		GRAY SHALE	19.0	248.0	
203.0	MODESTO		GRAY SHALE	4.4	267.0	
198.6	MODESTO	PIRTLE (IN)	COAL	1.3	271.4	BLACK
197.3	MODESTO		GRAY SHALE	2.3	272.7	
195.0	MODESTO		GRAY SHALE	50.5	275.0	
144.5	MODESTO		GRAY SHALE	4.8	325.5	
139.7	CARBONDALE	DANVILLE	COAL	2.8	330.3	BLACK
136.8	CARBONDALE		UNDERCLAY	2.8	333.2	SHALEY;GY
134.0	CARBONDALE		GRAY SHALE	4.5	336.0	
129.5	CARBONDALE		SANDSTONE	32.2	340.5	GRAY
97.3	CARBONDALE		GRAY SHALE	2.5	372.7	
94.8	CARBONDALE	JAMESTOWN	COAL	3.7	375.2	BLACK
91.2	CARBONDALE		GRAY SHALE	2.2	378.8	
89.0	CARBONDALE	HERRIN	COAL	1.8	381.0	BLACK
87.2	CARBONDALE		UNDERCLAY	2.2	382.8	SHALEY;GY
85.0	CARBONDALE		GRAY SHALE	10.5	385.0	
74.5	CARBONDALE		SANDSTONE	27.5	395.5	GRAY
47.0	CARBONDALE		GRAY SHALE	10.1	423.0	
36.9	CARBONDALE	BRIAR HILL	COAL	2.4	433.1	BLACK

34.5	CARBONDALE		GRAY SHALE	9.5	435.5	
25.0	CARBONDALE		GRAY SHALE	4.7	445.0	
20.3	CARBONDALE		CALCAREOUS SHALE	2.1	449.7	
18.2	CARBONDALE		LIMESTONE	0.8	451.8	GRAY
17.5	CARBONDALE	SPRINGFIELD	COAL	3.3	452.5	BLACK
14.2	CARBONDALE		UNDERCLAY	2.3	455.8	GRAY

MAPID: 10107012000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: LAWRENCE **TWP/RNG:** 5N 11W **SECTION:** 25 **QUARTERS/FOOTAGES:** 37' N line, 96' W line of SE NE
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.580202 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.847959 **DATE COLLECTED:** 7 / 29 / 1968
SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 440.0 **LOG TYPE:** Drillers Log
SOURCE: TEMPLETON COAL CO 5 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
192.8	MODESTO	PIRTLE (IN)	COAL	1.6	267.2	
133.9	SHELBURN	DANVILLE	COAL	2.7	326.1	
99.6	SHELBURN	JAMESTOWN	COAL	3.6	360.4	
92.6	CARBONDALE	HERRIN	COAL	1.8	367.4	
46.2	CARBONDALE	BRIAR HILL	COAL	3.0	413.8	
23.8	CARBONDALE	SPRINGFIELD	COAL	2.9	436.2	

MAPID: 10107012000C VERSION: 2

PROJECT: AVAIL

COUNTY: LAWRENCE TWP/RNG: 5N 11W SECTION: 25 QUARTERS/FOOTAGES: 37' N line, 96' W line of SE NE

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.580202 GEOLOGIST: UITEMP

CONFIDENTIAL: N LATITUDE: 38.847959 DATE COLLECTED: 7 / 29 / 1968

SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 440.0 LOG TYPE: Drillers Log

SOURCE: TEMPLETON COAL CO 5 WELL TYPE: Coal Test

COMMENT: CONFIDENTIAL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0			CLAY	2.5	0.0	BROWN
457.5			CLAY	19.5	2.5	GRAY
438.0			GRAVEL	13.5	22.0	
424.5			GRAY SHALE	10.5	35.5	
414.0			GRAY SHALE	12.5	46.0	
401.5			GRAY SHALE	16.5	58.5	
385.0			GRAY SHALE	13.0	75.0	
372.0			GRAY SHALE	26.5	88.0	
345.5			GRAY SHALE	1.5	114.5	
344.0			BLACK SHALE	3.5	116.0	
340.5			GRAY SHALE	3.2	119.5	
337.3			GRAY SHALE	2.8	122.7	
334.5			GRAY SHALE	31.0	125.5	
303.5			SANDSTONE	60.2	156.5	GRAY
243.3			SANDSTONE	2.8	216.7	GRAY
240.5			SANDSTONE	9.0	219.5	GRAY
231.5			GRAY SHALE	2.2	228.5	
229.3			SANDSTONE	0.8	230.7	GRAY
228.6			GRAY SHALE	3.9	231.4	
224.7	MODESTO	WEST FRANKLIN	LIMESTONE	3.4	235.3	GRAY
221.2	MODESTO		GRAY SHALE	4.3	238.8	
217.0	MODESTO		GRAY SHALE	22.0	243.0	
195.0	MODESTO		GRAY SHALE	2.2	265.0	
192.8	MODESTO	PIRTLE (IN)	COAL	1.6	267.2	BLACK
191.2	MODESTO		GRAY SHALE	2.8	268.8	
188.5	MODESTO		GRAY SHALE	52.0	271.5	
136.5	MODESTO		GRAY SHALE	2.6	323.5	
133.9	CARBONDALE	DANVILLE	COAL	2.7	326.1	BLACK
131.2	CARBONDALE		UNDERCLAY	6.3	328.8	SHALEY,GY
125.0	CARBONDALE		GRAY SHALE	10.5	335.0	
114.5	CARBONDALE		GRAY SHALE	9.5	345.5	
105.0	CARBONDALE		GRAY SHALE	5.4	355.0	
99.6	CARBONDALE	JAMESTOWN	COAL	3.6	360.4	BLACK
96.0	CARBONDALE		GRAY SHALE	3.4	364.0	
92.6	CARBONDALE	HERRIN	COAL	1.8	367.4	BLACK
90.8	CARBONDALE		UNDERCLAY	2.8	369.2	GRAY
88.0	CARBONDALE		GRAY SHALE	2.1	372.0	
85.9	CARBONDALE		GRAY SHALE	2.8	374.1	
83.2	CARBONDALE		GRAY SHALE	9.7	376.8	

73.5	CARBONDALE		SANDSTONE	19.0	386.5	GRAY
54.5	CARBONDALE		GRAY SHALE	8.3	405.5	
46.2	CARBONDALE	BRIAR HILL	COAL	2.3	413.8	BLACK
43.8	CARBONDALE		GRAY SHALE	9.3	416.2	
34.5	CARBONDALE		GRAY SHALE	7.0	425.5	
27.5	CARBONDALE	ST. DAVID	LIMESTONE	1.8	432.5	GRAY
25.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	434.3	
24.2	CARBONDALE	SPRINGFIELD	COAL	3.0	435.8	BLACK
21.2	CARBONDALE		UNDERCLAY	1.2	438.8	GRAY

MAPID: 10100613000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 5N 11W **SECTION:** 27 **QUARTERS/FOOTAGES:** SE SW NE
QUADRANGLE: RUSSELLVILLE **LONGITUDE:** -87.619482 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.845384 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 744.0 **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	
237.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	313.0
121.0	CARBONDALE	DANVILLE	COAL	2.0	429.0
77.0	CARBONDALE	JAMESTOWN	COAL	3.0	473.0
71.0	CARBONDALE	HERRIN	COAL	1.5	479.0
3.0	CARBONDALE	SPRINGFIELD	COAL	3.5	547.0
-109.0	CARBONDALE	HOUCHIN CREEK	COAL	-	659.0
-179.0	CARBONDALE	COLCHESTER	COAL	-	729.0
-194.0	SPOON	SEELYVILLE	COAL	-	744.0

MAPID: 10105033000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 11W SECTION: 27 QUARTERS/FOOTAGES: 350' S line, 675' W line of SE NE

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.61592 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.845393 DATE COLLECTED:

SURFACE ELEVATION (FT.): 573.0 LOGGED (FT.): 779.0 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
231.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	342.0
124.0	CARBONDALE	DANVILLE	COAL	3.0	449.0
74.0	CARBONDALE	JAMESTOWN	COAL	3.0	499.0
68.0	CARBONDALE	HERRIN	COAL	1.0	505.0
0.0	CARBONDALE	SPRINGFIELD	COAL	4.0	573.0
-117.0	CARBONDALE	HOUCHIN CREEK	COAL	-	690.0
-178.0	CARBONDALE	COLCHESTER	COAL	-	751.0
-202.0	SPOON	SEELYVILLE	COAL	4.0	775.0

MAPID: 10107119000C VERSION: 1

PROJECT: CONF

COUNTY: LAWRENCE TWP/RNG: 5N 11W SECTION: 27 QUARTERS/FOOTAGES: 437' S line, 500' E line

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.61533 GEOLOGIST: LOG BOOK

CONFIDENTIAL: N LATITUDE: 38.83806 DATE COLLECTED: 11 / 22 / 1968

SURFACE ELEVATION (FT.): 482.0 LOGGED (FT.): 567.0 LOG TYPE: Drillers Log

SOURCE: TEMPLETON COAL CO 23-D WELL TYPE: Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
434.6			COAL	0.7	47.4
362.3			COAL	1.3	119.7
104.9	MODESTO	PIRTLE (IN)	COAL	1.3	377.1
45.8	SHELBURN	DANVILLE	COAL	2.8	436.2
-4.3	SHELBURN	JAMESTOWN	COAL	3.4	486.3
-8.8	CARBONDALE	HERRIN	COAL	1.8	490.8
-53.9	CARBONDALE	BRIAR HILL	COAL	1.8	535.9
-87.9	CARBONDALE	SPRINGFIELD	COAL	3.7	569.9

MAPID: 10107119000C VERSION: 2

PROJECT: AVAIL

COUNTY: LAWRENCE TWP/RNG: 5N 11W SECTION: 27 QUARTERS/FOOTAGES: 437' S line, 500' E line

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.61533 GEOLOGIST: HOKE

CONFIDENTIAL: N LATITUDE: 38.83806 DATE COLLECTED: 11 / 22 / 1968

SURFACE ELEVATION (FT.): 482.0 LOGGED (FT.): 567.0 LOG TYPE: Drillers Log

SOURCE: TEMPLETON COAL CO 23-D WELL TYPE: Coal Test

COMMENT: CONFIDENTIAL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
482.0	PLEISTOCENE		CLAY	8.5	0.0	BROWN
473.5			SANDSTONE	16.5	8.5	BROWN
457.0			GRAY SHALE	5.5	25.0	
451.5			GRAY SHALE	4.2	30.5	
447.3			GRAY SHALE	12.8	34.7	
434.6			COAL	0.7	47.4	BLACK
433.9			GRAY SHALE	6.9	48.1	
427.0			GRAY SHALE	14.0	55.0	
413.0			GRAY SHALE	16.7	69.0	
396.3			BLACK SHALE	1.3	85.7	
395.0			GRAY SHALE	5.5	87.0	
389.5			GRAY SHALE	8.5	92.5	
381.0			GRAY SHALE	7.0	101.0	
374.0			GRAY SHALE	9.5	108.0	
364.5			GRAY SHALE	2.2	117.5	
362.3			COAL	1.3	119.7	BLACK
361.0			GRAY SHALE	4.5	121.0	
356.5			GRAY SHALE	15.5	125.5	
341.0			GRAY SHALE	9.5	141.0	
331.5			GRAY SHALE	37.5	150.5	
294.0			SANDSTONE	20.5	188.0	GRAY
273.5			GRAY SHALE	16.5	208.5	
257.0			GRAY SHALE	4.3	225.0	
252.7			BLACK SHALE	2.2	229.3	
250.5			GRAY SHALE	4.5	231.5	
246.0			GRAY SHALE	72.0	236.0	
174.0			SANDSTONE	19.2	308.0	GRAY
154.8			GRAY SHALE	1.8	327.2	
153.0			GRAY SHALE	0.8	329.0	
152.2			GRAY SHALE	0.9	329.8	
151.2			LIMESTONE	1.8	330.8	
149.5			SHALE	4.0	332.5	
145.5			SHALE	4.5	336.5	
141.0			SANDY SHALE	30.5	341.0	
110.5			SHALE	5.6	371.5	
104.9			COAL	1.3	377.1	
103.7			SHALE	1.7	378.3	
102.0			SANDY SHALE	53.0	380.0	
49.0			SHALE	3.2	433.0	

45.8	COAL	2.8	436.2	
43.0	CLAYSTONE & SILTSTONE	4.5	439.0	SHLY
38.5	SANDSTONE	40.0	443.5	
-1.5	SHALE	2.8	483.5	
-4.3	COAL	3.4	486.3	
-7.7	SHALE	1.2	489.7	
-8.8	COAL	1.8	490.8	
-10.6	CLAYSTONE & SILTSTONE	1.9	492.6	SHLY
-12.5	SANDY SHALE	1.8	494.5	
-14.3	CALCAREOUS SHALE	2.1	496.3	
-16.4	CLAYSTONE & SILTSTONE	1.6	498.4	SHLY
-18.0	SANDY SHALE	11.5	500.0	
-29.5	SANDSTONE	8.5	511.5	
-38.0	SANDY SHALE	9.0	520.0	
-47.0	SHALE	6.9	529.0	
-53.9	COAL	1.8	535.9	
-55.7	SANDY SHALE	11.3	537.7	
-67.0	SHALE	10.5	549.0	
-77.5	LIMESTONE	1.2	559.5	
-78.7	BLACK SHALE	1.3	560.7	HD
-79.9	COAL	3.6	561.9	
-83.5	UNDERCLAY	1.5	565.5	

MAPID: 10105040000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 5N 11W **SECTION:** 28 **QUARTERS/FOOTAGES:** NW NW SE
QUADRANGLE: BIRDS **LONGITUDE:** -87.640857 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.843569 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 472.0 **LOGGED (FT.):** 690.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: 6'MINSHAL@889, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN COMMENT
207.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	265.0
104.0	CARBONDALE	DANVILLE	COAL	4.0	368.0
50.0	CARBONDALE	JAMESTOWN	COAL	4.0	422.0
44.0	CARBONDALE	HERRIN	COAL	2.0	428.0
-22.0	CARBONDALE	SPRINGFIELD	COAL	3.5	494.0
-141.0	CARBONDALE	HOUCHIN CREEK	COAL	-	613.0
-211.0	CARBONDALE	COLCHESTER	COAL	-	683.0
-218.0	SPOON	SEELYVILLE	COAL	-	690.0

MAPID: 10105059000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 5N 11W

SECTION: 30

QUARTERS/FOOTAGES: SW NW SW

QUADRANGLE: BIRDS

LONGITUDE: -87.683656

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.841838

DATE COLLECTED:

SURFACE ELEVATION (FT.): 442.0

LOGGED (FT.): 763.5

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
152.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	290.0
25.0	CARBONDALE	DANVILLE	COAL	3.0	417.0
-18.0	CARBONDALE	JAMESTOWN	COAL	2.0	460.0
-23.0	CARBONDALE	HERRIN	COAL	2.0	465.0
-93.0	CARBONDALE	SPRINGFIELD	COAL	3.0	535.0
-205.0	CARBONDALE	HOUCHIN CREEK	COAL	-	647.0
-277.0	CARBONDALE	COLCHESTER	COAL	-	719.0
-317.0	SPOON	SEELYVILLE	COAL	4.5	759.0

MAPID: 10102449000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 5N 11W

SECTION: 32

QUARTERS/FOOTAGES: NW NE NW

QUADRANGLE: BIRDS

LONGITUDE: -87.664403

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.836101

DATE COLLECTED:

SURFACE ELEVATION (FT.): 436.0

LOGGED (FT.): 712.5

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
176.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	260.0
56.0	CARBONDALE	DANVILLE	COAL	4.0	380.0
11.0	CARBONDALE	JAMESTOWN	COAL	2.0	425.0
6.0	CARBONDALE	HERRIN	COAL	1.5	430.0
-59.0	CARBONDALE	SPRINGFIELD	COAL	3.5	495.0
-173.0	CARBONDALE	HOUCHIN CREEK	COAL	-	609.0
-244.0	CARBONDALE	COLCHESTER	COAL	-	680.0
-272.0	SPOON	SEELYVILLE	COAL	4.5	708.0

MAPID: 1010506000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 5N 11W

SECTION: 32

QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: BIRDS

LONGITUDE: -87.652824

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.83607

DATE COLLECTED:

SURFACE ELEVATION (FT.): 475.0

LOGGED (FT.): 737.0

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	8.0	198.0
185.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	290.0
67.0	CARBONDALE	DANVILLE	COAL	5.0	408.0
34.0	CARBONDALE	JAMESTOWN	COAL	4.0	441.0
24.0	CARBONDALE	HERRIN	COAL	2.0	451.0
-45.0	CARBONDALE	SPRINGFIELD	COAL	4.0	520.0
-156.0	CARBONDALE	HOUCHIN CREEK	COAL	-	631.0
-235.0	CARBONDALE	COLCHESTER	COAL	-	710.0
-258.0	SPOON	SEELYVILLE	COAL	4.0	733.0

MAPID: 10100701000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 5N 11W

SECTION: 33

QUARTERS/FOOTAGES: NW SE SW

QUADRANGLE: BIRDS

LONGITUDE: -87.645656

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.824855

DATE COLLECTED:

SURFACE ELEVATION (FT.): 442.0

LOGGED (FT.): 725.0

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
168.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	274.0
63.0	CARBONDALE	DANVILLE	COAL	3.0	379.0
8.0	CARBONDALE	JAMESTOWN	COAL	-	434.0
1.0	CARBONDALE	HERRIN	COAL	-	441.0
-69.0	CARBONDALE	SPRINGFIELD	COAL	4.0	511.0
-183.0	CARBONDALE	HOUCHIN CREEK	COAL	-	625.0
-252.0	CARBONDALE	COLCHESTER	COAL	-	694.0
-279.0	SPOON	SEELYVILLE	COAL	4.0	721.0

MAPID: 10100615000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 5N 11W

SECTION: 35

QUARTERS/FOOTAGES: SE SW NW

QUADRANGLE: RUSSELLVILLE

LONGITUDE: -87.609987

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.830297

DATE COLLECTED:

SURFACE ELEVATION (FT.): 483.0

LOGGED (FT.): 725.5

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
381.0	BOND	CARTHAGE	LIMESTONE	8.0	102.0
199.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	284.0
80.0	CARBONDALE	DANVILLE	COAL	4.0	403.0
37.0	CARBONDALE	JAMESTOWN	COAL	2.5	446.0
32.0	CARBONDALE	HERRIN	COAL	1.0	451.0
-45.0	CARBONDALE	SPRINGFIELD	COAL	4.0	528.0
-152.0	CARBONDALE	HOUCHIN CREEK	COAL	-	635.0
-219.0	CARBONDALE	COLCHESTER	COAL	-	702.0
-238.0	SPOON	SEELYVILLE	COAL	4.5	721.0

MAPID: 10105062000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE

TWP/RNG: 5N 11W

SECTION: 35

QUARTERS/FOOTAGES: NE SE SE

QUADRANGLE: RUSSELLVILLE

LONGITUDE: -87.595667

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.824676

DATE COLLECTED:

SURFACE ELEVATION (FT.): 448.0

LOGGED (FT.): 662.5

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
213.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	235.0
105.0	CARBONDALE	DANVILLE	COAL	4.0	343.0
57.0	CARBONDALE	JAMESTOWN	COAL	3.0	391.0
51.0	CARBONDALE	HERRIN	COAL	2.0	397.0
-25.0	CARBONDALE	SPRINGFIELD	COAL	4.5	473.0
-135.0	CARBONDALE	HOUCHIN CREEK	COAL	-	583.0
-195.0	CARBONDALE	COLCHESTER	COAL	-	643.0
-210.0	SPOON	SEELYVILLE	COAL	4.5	658.0

MAPID: 10107028000C VERSION: 1

PROJECT: CONF

COUNTY: LAWRENCE TWP/RNG: 5N 11W SECTION: 35

QUARTERS/FOOTAGES: NE NW SW SE

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.602223

GEOLOGIST: LOG BOOK

CONFIDENTIAL: N LATITUDE: 38.825148

DATE COLLECTED: 8 / 5 / 1968

SURFACE ELEVATION (FT.): 462.0 LOGGED (FT.): 504.0

LOG TYPE: Drillers Log

SOURCE: TEMPLETON COAL CO 7

WELL TYPE: Coal Test

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
98.0	SHELBURN	DANVILLE	COAL	2.4	364.0
52.0	SHELBURN	JAMESTOWN	COAL	3.6	410.0
47.0	CARBONDALE	HERRIN	COAL	2.1	415.0
-4.0	CARBONDALE	BRIAR HILL	COAL	2.5	466.0
-36.0	CARBONDALE	SPRINGFIELD	COAL	5.0	498.0

MAPID: 10107028000C VERSION: 2

PROJECT: AVAIL

COUNTY: LAWRENCE TWP/RNG: 5N 11W SECTION: 35 QUARTERS/FOOTAGES: NE NW SW SE

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.602223 GEOLOGIST: UITEMP

CONFIDENTIAL: N LATITUDE: 38.825148 DATE COLLECTED: 8 / 5 / 1968

SURFACE ELEVATION (FT.): 462.0 LOGGED (FT.): 504.0 LOG TYPE: Drillers Log

SOURCE: TEMPLETON COAL CO 7 WELL TYPE: Coal Test

COMMENT: CONFIDENTIAL

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
462.0	PLEISTOCENE		CLAY	6.0	0.0	BROWN
456.0	PLEISTOCENE		SANDY CLAY	10.5	6.0	BROWN
445.5			GRAY SHALE	3.5	16.5	
442.0			GRAY SHALE	17.7	20.0	
424.3			COAL	0.7	37.7	SHALEY
423.7			GRAY SHALE	1.7	38.3	
422.0			GRAY SHALE	2.5	40.0	
419.5			GRAY SHALE	30.0	42.5	
389.5			GRAY SHALE	57.2	72.5	
332.3			GRAY SHALE	1.8	129.7	
330.5			GRAY SHALE	14.5	131.5	
316.0			GRAY SHALE	3.2	146.0	
312.8			CALCAREOUS SHALE	3.2	149.2	
309.7			GRAY SHALE	2.7	152.3	
307.0			GRAY SHALE	34.5	155.0	
272.5			SANDSTONE	63.8	189.5	GRAY
208.7			CALCAREOUS SANDSTONE	1.5	253.3	GRAY
207.2			GRAY SHALE	3.2	254.8	
204.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.8	258.0	GRAY
200.2	MODESTO		GRAY SHALE	8.3	261.8	
192.0	MODESTO		GRAY SHALE	3.2	270.0	
188.8	MODESTO		GRAY SHALE	37.3	273.2	
151.5	MODESTO		GRAY SHALE	2.3	310.5	
149.2	MODESTO	PIRTLE (IN)	COAL	1.3	312.8	BLACK
148.0	MODESTO		GRAY SHALE	4.5	314.0	
143.5	MODESTO		GRAY SHALE	17.5	318.5	
126.0	MODESTO		SANDSTONE	23.5	336.0	GRAY
102.5	MODESTO		GRAY SHALE	4.0	359.5	
98.5	MODESTO		GRAY SHALE	1.3	363.5	
97.2	CARBONDALE	DANVILLE	COAL	2.4	364.8	BLACK
94.7	CARBONDALE		UNDERCLAY	2.8	367.3	SHALEY:GY
92.0	CARBONDALE		CALCAREOUS SHALE	1.7	370.0	
90.3	CARBONDALE		GRAY SHALE	0.7	371.7	
89.7	CARBONDALE		LIMESTONE	1.2	372.3	GRAY
88.5	CARBONDALE		GRAY SHALE	2.5	373.5	
86.0	CARBONDALE		GRAY SHALE	6.0	376.0	
80.0	CARBONDALE		SANDSTONE	12.5	382.0	GRAY
67.5	CARBONDALE		GRAY SHALE	12.0	394.5	

55.5	CARBONDALE		GRAY SHALE	3.8	406.5	
51.7	CARBONDALE	JAMESTOWN	COAL	3.6	410.3	BLACK
48.2	CARBONDALE		GRAY SHALE	2.0	413.8	
46.2	CARBONDALE	HERRIN	COAL	2.1	415.8	BLACK
44.1	CARBONDALE		UNDERCLAY	2.1	417.9	SHALEY,GY
42.0	CARBONDALE		SANDY SHALE	12.5	420.0	
29.5	CARBONDALE		SANDSTONE	24.5	432.5	GRAY
5.0	CARBONDALE		GRAY SHALE	9.6	457.0	
-4.6	CARBONDALE	BRIAR HILL	COAL	2.5	466.6	BLACK
-7.1	CARBONDALE		GRAY SHALE	5.9	469.1	
-13.0	CARBONDALE		SANDSTONE	9.5	475.0	GRAY
-22.5	CARBONDALE		GRAY SHALE	7.3	484.5	
-29.8	CARBONDALE		CALCAREOUS SHALE	2.0	491.8	
-31.8	CARBONDALE		LIMESTONE	1.7	493.8	GRAY
-33.4	CARBONDALE		BLACK SHALE	1.7	495.4	
-35.1	CARBONDALE		GRAY SHALE	1.0	497.1	
-36.1	CARBONDALE	SPRINGFIELD	COAL	5.0	498.1	BLACK
-41.1	CARBONDALE		UNDERCLAY	0.9	503.1	GRAY

MAPID: 10100611000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 11W SECTION: 36 QUARTERS/FOOTAGES: NW NW SE

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.584056 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.828378 DATE COLLECTED:

SURFACE ELEVATION (FT.): 449.0 LOGGED (FT.): 653.0 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	
241.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	208.0	
126.0	CARBONDALE	DANVILLE	COAL	-	323.0	
78.0	CARBONDALE	JAMESTOWN	COAL	2.5	371.0	
73.0	CARBONDALE	HERRIN	COAL	1.5	376.0	
7.0	CARBONDALE	SPRINGFIELD	COAL	3.0	442.0	
-94.0	CARBONDALE	HOUCHIN CREEK	COAL	-	543.0	
-191.0	CARBONDALE	COLCHESTER	COAL	-	640.0	
-201.0	SPOON	SEELYVILLE	COAL	3.0	650.0	

MAPID: 10100870000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 11W SECTION: 36
QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.579448
CONFIDENTIAL: N LATITUDE: 38.835863
SURFACE ELEVATION (FT.): 490.0 LOGGED (FT.): 689.0
SOURCE:
COMMENT: GOOD LOG

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
244.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	246.0
133.0	CARBONDALE	DANVILLE	COAL	4.0	357.0
85.0	CARBONDALE	HERRIN	COAL	1.0	405.0
16.0	CARBONDALE	SPRINGFIELD	COAL	4.0	474.0
-80.0	CARBONDALE	HOUCHIN CREEK	COAL	-	570.0
-187.0	CARBONDALE	COLCHESTER	COAL	-	677.0
-195.0	SPOON	SEELYVILLE	COAL	4.0	685.0

MAPID: 10107066000C VERSION: 1

PROJECT: CONF

COUNTY: LAWRENCE TWP/RNG: 5N 11W SECTION: 36
QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.585351
CONFIDENTIAL: N LATITUDE: 38.829449
SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 441.3
SOURCE: TEMPLETON COAL CO 20-D
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

QUARTERS/FOOTAGES: 47' S line, 34' E line of NW
GEOLOGIST: LOG BOOK
DATE COLLECTED: 10 / 30 / 1968
LOG TYPE: Survey Core Study
WELL TYPE: Coal Test

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
197.7	MODESTO	PIRTLE (IN)	COAL	1.3	262.3
146.6	SHELBURN	DANVILLE	COAL	2.6	313.4
94.5	SHELBURN	JAMESTOWN	COAL	3.6	365.5
89.6	CARBONDALE	HERRIN	COAL	1.5	370.4
50.8	CARBONDALE	BRIAR HILL	COAL	2.3	409.2
24.0	CARBONDALE	SPRINGFIELD	COAL	3.0	436.0

MAPID: 10107066000C VERSION: 2

PROJECT: AVAIL

COUNTY: LAWRENCE TWP/RNG: 5N 11W SECTION: 36 QUARTERS/FOOTAGES: 47' S line, 34' E line of NW

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.585351 GEOLOGIST: UITEMP

CONFIDENTIAL: N LATITUDE: 38.829449 DATE COLLECTED: 10 / 30 / 1968

SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 441.3 LOG TYPE: Drillers Log

SOURCE: TEMPLETON COAL CO WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0	PLEISTOCENE		CLAY	2.0	0.0	BROWN
458.0	PLEISTOCENE		SANDY CLAY	8.0	2.0	BROWN
450.0	PLEISTOCENE		CLAY	6.5	10.0	SHALEY;GY
443.5			GRAY SHALE	31.5	16.5	
412.0			GRAY SHALE	24.5	48.0	
387.5			SANDSTONE	5.5	72.5	GRAY
382.0			GRAY SHALE	30.0	78.0	
352.0			BLACK SHALE	2.5	108.0	
349.5			GRAY SHALE	3.5	110.5	
346.0			SANDY SHALE	16.5	114.0	
329.5			SANDSTONE	79.5	130.5	GRAY
250.0			GRAY SHALE	2.3	210.0	
247.7	MODESTO	WEST FRANKLIN	LIMESTONE	0.8	212.3	GRAY
246.8	MODESTO		CALCAREOUS SHALE	4.2	213.2	
242.7	MODESTO		GRAY SHALE	7.7	217.3	
235.0	MODESTO		SANDY SHALE	9.2	225.0	
225.8	MODESTO		CALCAREOUS SHALE	1.2	234.2	
224.7	MODESTO		GRAY SHALE	4.2	235.3	
220.5	MODESTO		SANDY SHALE	20.0	239.5	
200.5	MODESTO		GRAY SHALE	2.8	259.5	
197.7	MODESTO	PIRTLE (IN)	COAL	1.3	262.3	BLACK
196.3	MODESTO		GRAY SHALE	2.3	263.7	
194.0	MODESTO		SANDY SHALE	44.5	266.0	
149.5	MODESTO		GRAY SHALE	2.9	310.5	
146.6	CARBONDALE	DANVILLE	COAL	2.6	313.4	BLACK
144.0	CARBONDALE		UNDERCLAY	4.0	316.0	SHALEY;GY
140.0	CARBONDALE		GRAY SHALE	3.5	320.0	
136.5	CARBONDALE		SANDSTONE	15.5	323.5	GRAY
121.0	CARBONDALE		SANDY SHALE	19.5	339.0	
101.5	CARBONDALE		GRAY SHALE	7.0	358.5	
94.5	CARBONDALE	JAMESTOWN	COAL	3.6	365.5	BLACK
90.9	CARBONDALE		GRAY SHALE	1.3	369.1	
89.6	CARBONDALE	HERRIN	COAL	1.5	370.4	BLACK
88.1	CARBONDALE		UNDERCLAY	1.8	371.9	GRAY
86.3	CARBONDALE		GRAY SHALE	2.0	373.7	
84.3	CARBONDALE		CALCAREOUS SHALE	0.2	375.7	
84.2	CARBONDALE		CLAYSTONE & SILTSTONE	3.2	375.8	SHALEY;GY
81.0	CARBONDALE		SANDY SHALE	13.5	379.0	
67.5	CARBONDALE		SANDSTONE	10.5	392.5	GRAY

57.0	CARBONDALE		GRAY SHALE	6.2	403.0	
50.8	CARBONDALE	BRIAR HILL	COAL	2.3	409.2	BLACK
48.5	CARBONDALE		GRAY SHALE	18.5	411.5	
30.0	CARBONDALE		GRAY SHALE	5.7	430.0	
24.3	CARBONDALE		CALCAREOUS SHALE	0.3	435.7	
24.0	CARBONDALE	SPRINGFIELD	COAL	3.0	436.0	BLACK
21.0	CARBONDALE		UNDERCLAY	2.0	439.0	GRAY

MAPID: 10100617000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 5N 12W **SECTION:** 25 **QUARTERS/FOOTAGES:** SE SE NE
QUADRANGLE: BIRDS **LONGITUDE:** -87.685721 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.845154 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 462.0 **LOGGED (FT.):** 778.0 **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	7.0	315.0	
25.0	CARBONDALE	DANVILLE	COAL	4.0	437.0	
-100.0	CARBONDALE	SPRINGFIELD	COAL	2.5	562.0	
-213.0	CARBONDALE	HOUCHIN CREEK	COAL	-	675.0	
-288.0	CARBONDALE	COLCHESTER	COAL	-	750.0	
-316.0	SPOON	SEELYVILLE	COAL	-	778.0	

MAPID: 10100618000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: LAWRENCE **TWP/RNG:** 5N 12W **SECTION:** 28 **QUARTERS/FOOTAGES:** NW NW NE
QUADRANGLE: BIRDS **LONGITUDE:** -87.748959 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.84875 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 487.0 **LOGGED (FT.):** 830.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
117.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	370.0	
7.0	CARBONDALE	DANVILLE	COAL	3.0	480.0	
-46.0	CARBONDALE	JAMESTOWN	COAL	3.0	533.0	
-50.0	CARBONDALE	HERRIN	COAL	1.0	537.0	
-124.0	CARBONDALE	SPRINGFIELD	COAL	3.0	611.0	
-223.0	CARBONDALE	HOUCHIN CREEK	COAL	-	710.0	
-321.0	CARBONDALE	COLCHESTER	COAL	-	808.0	
-337.0	SPOON	SEELYVILLE	COAL	6.0	824.0	

MAPID: 10100626000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 12W SECTION: 29 QUARTERS/FOOTAGES: SW NW NW
 QUADRANGLE: CHAUNCEY LONGITUDE: -87.777062 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.846133 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 431.0 LOGGED (FT.): 773.0 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
104.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	327.0
-8.0	CARBONDALE	DANVILLE	COAL	3.5	439.0
-60.0	CARBONDALE	JAMESTOWN	COAL	4.0	491.0
-69.0	CARBONDALE	HERRIN	COAL	2.5	500.0
-126.0	CARBONDALE	SPRINGFIELD	COAL	2.0	557.0
-209.0	CARBONDALE	HOUCHIN CREEK	COAL	-	640.0
-315.0	CARBONDALE	COLCHESTER	COAL	-	746.0
-339.0	SPOON	SEELYVILLE	COAL	3.0	770.0

MAPID: 10100685000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 12W SECTION: 30 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW NW
 QUADRANGLE: CHAUNCEY LONGITUDE: -87.793532 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 38.847063 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 432.0 LOGGED (FT.): 747.5 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
132.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	300.0
28.0	CARBONDALE	DANVILLE	COAL	2.5	404.0
-22.0	CARBONDALE	JAMESTOWN	COAL	4.0	454.0
-28.0	CARBONDALE	HERRIN	COAL	1.5	460.0
-118.0	CARBONDALE	SPRINGFIELD	COAL	-	550.0
-183.0	CARBONDALE	HOUCHIN CREEK	COAL	-	615.0
-298.0	CARBONDALE	COLCHESTER	COAL	-	730.0
-311.0	SPOON	SEELYVILLE	COAL	4.5	743.0

MAPID: 10105068000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 12W SECTION: 30 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW SW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.793446 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.837713 DATE COLLECTED:

SURFACE ELEVATION (FT.): 431.0 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.)	
				UNIT	OVERBURDEN COMMENT
116.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	315.0
8.0	CARBONDALE	DANVILLE	COAL	-	423.0
-42.0	CARBONDALE	JAMESTOWN	COAL	-	473.0
-49.0	CARBONDALE	HERRIN	COAL	-	480.0
-123.0	CARBONDALE	SPRINGFIELD	COAL	-	554.0
-199.0	CARBONDALE	HOUCHIN CREEK	COAL	-	630.0
-302.0	CARBONDALE	COLCHESTER	COAL	-	733.0
-329.0	SPOON	SEELYVILLE	COAL	-	760.0

MAPID: 10106238000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 12W SECTION: 31 QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.786373 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.83118 DATE COLLECTED:

SURFACE ELEVATION (FT.): 444.0 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.)	
				UNIT	OVERBURDEN COMMENT
82.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	362.0
-26.0	CARBONDALE	DANVILLE	COAL	-	470.0
-77.0	CARBONDALE	JAMESTOWN	COAL	-	521.0
-84.0	CARBONDALE	HERRIN	COAL	-	528.0
-169.0	CARBONDALE	SPRINGFIELD	COAL	4.5	613.0
-246.0	CARBONDALE	HOUCHIN CREEK	COAL	-	690.0
-352.0	CARBONDALE	COLCHESTER	COAL	-	796.0
-369.0	SPOON	SEELYVILLE	COAL	3.0	813.0

MAPID: 10102453000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 12W SECTION: 32 QUARTERS/FOOTAGES: SE NE SW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.769979 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.824239 DATE COLLECTED:

SURFACE ELEVATION (FT.): 438.0 LOGGED (FT.): 807.0 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
83.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	355.0
-31.0	CARBONDALE	DANVILLE	COAL	-	469.0
-79.0	CARBONDALE	JAMESTOWN	COAL	-	517.0
-84.0	CARBONDALE	HERRIN	COAL	-	522.0
-160.0	CARBONDALE	SPRINGFIELD	COAL	4.0	598.0
-262.0	CARBONDALE	HOUCHIN CREEK	COAL	-	700.0
-351.0	CARBONDALE	COLCHESTER	COAL	-	789.0
-369.0	SPOON	SEELYVILLE	COAL	-	807.0

MAPID: 10100619000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 12W SECTION: 33 QUARTERS/FOOTAGES: NE NW SW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.755917 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.826497 DATE COLLECTED:

SURFACE ELEVATION (FT.): 493.0 LOGGED (FT.): 840.0 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
91.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	402.0
-25.0	CARBONDALE	DANVILLE	COAL	2.0	518.0
-75.0	CARBONDALE	JAMESTOWN	COAL	4.0	568.0
-81.0	CARBONDALE	HERRIN	COAL	2.5	574.0
-147.0	CARBONDALE	SPRINGFIELD	COAL	3.0	640.0
-257.0	CARBONDALE	HOUCHIN CREEK	COAL	-	750.0
-347.0	CARBONDALE	COLCHESTER	COAL	-	840.0

MAPID: 10128464000C **VERSION:** 1 **PROJECT:** NCRDS88
COUNTY: LAWRENCE **TWP/RNG:** 5N 12W **SECTION:** 34 **QUARTERS/FOOTAGES:** 60' N line, 30' E line
QUADRANGLE: BIRDS **LONGITUDE:** -87.721929 **GEOLOGIST:** R. SMITH
CONFIDENTIAL: N **LATITUDE:** 38.835751 **DATE COLLECTED:** 10 / 21 / 1980
SURFACE ELEVATION (FT.): 466.0 **LOGGED (FT.):** 839.0 **LOG TYPE:** Multiple log types
SOURCE: MOBIL OIL CORP. EI-80-34-9 **WELL TYPE:** Coal Test
COMMENT: GAMMA, DENSITY AND RESIST. LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
466.0			UNCONSOLIDATED	30.0	0.0	
436.0			UNCLASSIFIED	99.5	30.0	BASE OF GLACIAL DRIFT
336.5	MODESTO		COAL	2.0	129.5	
334.5	MODESTO		UNCLASSIFIED	107.5	131.5	
227.0	MODESTO	CHAPEL	BLACK SHALE & CLAY	3.0	239.0	
224.0	MODESTO		UNCLASSIFIED	98.0	242.0	
126.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	340.0	
122.0	MODESTO		UNCLASSIFIED	44.0	344.0	
78.0	MODESTO	PIRTLE (IN)	COAL	0.5	388.0	UNCERTAIN CORRELATION
77.5	MODESTO		UNCLASSIFIED	58.5	388.5	
19.0	CARBONDALE	DANVILLE	COAL	3.0	447.0	
16.0	CARBONDALE		UNCLASSIFIED	51.0	450.0	
-35.0	CARBONDALE	JAMESTOWN	COAL	4.0	501.0	
-39.0	CARBONDALE	ANNA	BLACK SHALE	1.0	505.0	
-40.0	CARBONDALE	HERRIN	COAL	2.5	506.0	
-42.5	CARBONDALE		UNCLASSIFIED	51.5	508.5	
-94.0	CARBONDALE	SPRINGFIELD	COAL	2.5	560.0	
-96.5	CARBONDALE		UNCLASSIFIED	91.0	562.5	
-187.5	CARBONDALE	HOUCHIN CREEK	COAL	1.5	653.5	
-189.0	CARBONDALE		UNCLASSIFIED	137.0	655.0	
-326.0	CARBONDALE	COLCHESTER	COAL	1.0	792.0	
-327.0	SPOON		UNCLASSIFIED	22.0	793.0	
-349.0	SPOON	SEELYVILLE	COAL	8.5	815.0	INCLUDES 2' SHALE PARTING IN CENTER
-357.5	SPOON		UNCLASSIFIED	15.5	823.5	

MAPID: 10102997000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: LAWRENCE **TWP/RNG:** 5N 12W **SECTION:** 36 **QUARTERS/FOOTAGES:**
QUADRANGLE: BIRDS **LONGITUDE:** -87.693861 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.829268 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 25.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. 1 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			COAL	1.5	23.7	

MAPID: 10102997000C **VERSION:** 2 **PROJECT:** AVAIL
COUNTY: LAWRENCE **TWP/RNG:** 5N 12W **SECTION:** 36 **QUARTERS/FOOTAGES:**
QUADRANGLE: BIRDS **LONGITUDE:** -87.693861 **GEOLOGIST:** UITEMP
CONFIDENTIAL: N **LATITUDE:** 38.829268 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 0.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. 1 **WELL TYPE:**
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			NO RECORD	0.0	0.0	DATA NOT ENTERED - SEE ORIGINAL LOG

MAPID: 10102998000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: LAWRENCE **TWP/RNG:** 5N 12W **SECTION:** 36 **QUARTERS/FOOTAGES:**
QUADRANGLE: BIRDS **LONGITUDE:** -87.693861 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.829268 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 43.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN 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	
-			COAL	1.4	41.8	

MAPID: 10102998000C **VERSION:** 2 **PROJECT:** AVAIL
COUNTY: LAWRENCE **TWP/RNG:** 5N 12W **SECTION:** 36 **QUARTERS/FOOTAGES:**
QUADRANGLE: BIRDS **LONGITUDE:** -87.693861 **GEOLOGIST:** UITEMP
CONFIDENTIAL: N **LATITUDE:** 38.829268 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 0.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. 2 **WELL TYPE:**
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			NO RECORD	0.0	0.0	DATA NOT ENTERED - SEE ORIGINAL LOG

MAPID: 10102999000C **VERSION:** 1 **PROJECT:** AVAIL
COUNTY: LAWRENCE **TWP/RNG:** 5N 12W **SECTION:** 36 **QUARTERS/FOOTAGES:**
QUADRANGLE: BIRDS **LONGITUDE:** -87.693861 **GEOLOGIST:** UITEMP
CONFIDENTIAL: N **LATITUDE:** 38.829268 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 0.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. 3 **WELL TYPE:**
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			NO RECORD	0.0	0.0	DATA NOT ENTERED - SEE ORIGINAL LOG

MAPID: 10103001000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: LAWRENCE **TWP/RNG:** 5N 12W **SECTION:** 36 **QUARTERS/FOOTAGES:**
QUADRANGLE: BIRDS **LONGITUDE:** -87.693861 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.829268 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 20.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. 5 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-			COAL	0.7	18.5	

MAPID: 10103001000C **VERSION:** 2 **PROJECT:** AVAIL
COUNTY: LAWRENCE **TWP/RNG:** 5N 12W **SECTION:** 36 **QUARTERS/FOOTAGES:**
QUADRANGLE: BIRDS **LONGITUDE:** -87.693861 **GEOLOGIST:** UITEMP
CONFIDENTIAL: N **LATITUDE:** 38.829268 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 0.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. 5 **WELL TYPE:**
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-			NO RECORD	0.0	0.0	DATA NOT ENTERED - SEE ORIGINAL LOG

MAPID: 10103002000C **VERSION:** 1 **PROJECT:** CONF
COUNTY: LAWRENCE **TWP/RNG:** 5N 12W **SECTION:** 36 **QUARTERS/FOOTAGES:**
QUADRANGLE: BIRDS **LONGITUDE:** -87.693861 **GEOLOGIST:** LOG BOOK
CONFIDENTIAL: N **LATITUDE:** 38.829268 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 34.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. 6 **WELL TYPE:** Coal Test
COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-			COAL	0.9	31.8	

MAPID: 10103002000C VERSION: 2

PROJECT: AVAIL

COUNTY: LAWRENCE TWP/RNG: 5N 12W SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: BIRDS LONGITUDE: -87.693861

GEOLOGIST: UITEMP

CONFIDENTIAL: N LATITUDE: 38.829268

DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 0.0

LOG TYPE: Drillers Log

SOURCE: MORGAN COAL CO. 6

WELL TYPE:

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			NO RECORD	0.0	0.0	DATA NOT ENTERED - SEE ORIGINAL LOG
-			UNCLASSIFIED	0.0		DATA NOT ENTERED - SEE ORIGINAL LOG

MAPID: 10100678000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 13W SECTION: 25 QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.812864

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.835881

DATE COLLECTED:

SURFACE ELEVATION (FT.): 440.0 LOGGED (FT.): 733.0

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	
140.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	300.0	
30.0	CARBONDALE	DANVILLE	COAL	-	410.0	
-17.0	CARBONDALE	JAMESTOWN	COAL	-	457.0	
-22.0	CARBONDALE	HERRIN	COAL	-	462.0	
-88.0	CARBONDALE	SPRINGFIELD	COAL	3.0	528.0	
-160.0	CARBONDALE	HOUCHIN CREEK	COAL	-	600.0	
-270.0	CARBONDALE	COLCHESTER	COAL	-	710.0	
-288.0	SPOON	SEELYVILLE	COAL	5.0	728.0	

MAPID: 10102456000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 13W SECTION: 25 QUARTERS/FOOTAGES: 660' N line, 330' E line of NE NW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.805602 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.848038 DATE COLLECTED:

SURFACE ELEVATION (FT.): 441.0 LOGGED (FT.): 742.5 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
130.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	311.0
16.0	CARBONDALE	DANVILLE	COAL	-	425.0
-33.0	CARBONDALE	JAMESTOWN	COAL	-	474.0
-40.0	CARBONDALE	HERRIN	COAL	-	481.0
-101.0	CARBONDALE	SPRINGFIELD	COAL	3.0	542.0
-176.0	CARBONDALE	HOUCHIN CREEK	COAL	-	617.0
-288.0	CARBONDALE	COLCHESTER	COAL	-	729.0
-298.0	SPOON	SEELYVILLE	COAL	3.5	739.0

MAPID: 10100622000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 13W SECTION: 26 QUARTERS/FOOTAGES: NW NE SE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.817636 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.841473 DATE COLLECTED:

SURFACE ELEVATION (FT.): 437.0 LOGGED (FT.): 749.0 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
130.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	307.0
13.0	CARBONDALE	DANVILLE	COAL	-	424.0
-30.0	CARBONDALE	JAMESTOWN	COAL	3.0	467.0
-94.0	CARBONDALE	SPRINGFIELD	COAL	2.5	531.0
-164.0	CARBONDALE	HOUCHIN CREEK	COAL	-	601.0
-288.0	CARBONDALE	COLCHESTER	COAL	-	725.0
-308.0	SPOON	SEELYVILLE	COAL	4.0	745.0

MAPID: 10100797000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 13W SECTION: 26 QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.819956 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.835918 DATE COLLECTED:

SURFACE ELEVATION (FT.): 433.0 LOGGED (FT.): 735.0 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
113.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	320.0
19.0	CARBONDALE	DANVILLE	COAL	2.5	414.0
-28.0	CARBONDALE	JAMESTOWN	COAL	-	461.0
-36.0	CARBONDALE	HERRIN	COAL	-	469.0
-92.0	CARBONDALE	SPRINGFIELD	COAL	4.0	525.0
-166.0	CARBONDALE	HOUCHIN CREEK	COAL	-	599.0
-282.0	CARBONDALE	COLCHESTER	COAL	-	715.0
-298.0	SPOON	SEELYVILLE	COAL	4.0	731.0

MAPID: 10100624000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 13W SECTION: 27 QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.850496 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.835938 DATE COLLECTED:

SURFACE ELEVATION (FT.): 448.0 LOGGED (FT.): 986.0 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
-64.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	512.0
-199.0	CARBONDALE	DANVILLE	COAL	-	647.0
-246.0	CARBONDALE	JAMESTOWN	COAL	-	694.0
-254.0	CARBONDALE	HERRIN	COAL	-	702.0
-321.0	CARBONDALE	SPRINGFIELD	COAL	5.0	769.0
-396.0	CARBONDALE	HOUCHIN CREEK	COAL	-	844.0
-517.0	CARBONDALE	COLCHESTER	COAL	-	965.0
-532.0	SPOON	SEELYVILLE	COAL	6.0	980.0

MAPID: 10101256000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 13W SECTION: 35 QUARTERS/FOOTAGES: NE NW SE
 QUADRANGLE: CHAUNCEY LONGITUDE: -87.81994 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.826753 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 436.0 LOGGED (FT.): 730.0 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
143.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	293.0
26.0	CARBONDALE	DANVILLE	COAL	-	410.0
-21.0	CARBONDALE	JAMESTOWN	COAL	-	457.0
-28.0	CARBONDALE	HERRIN	COAL	-	464.0
-85.0	CARBONDALE	SPRINGFIELD	COAL	3.5	521.0
-154.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0
-271.0	CARBONDALE	COLCHESTER	COAL	-	707.0
-294.0	SPOON	SEELYVILLE	COAL	-	730.0

MAPID: 10101697000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 13W SECTION: 35 QUARTERS/FOOTAGES: 400' N line, 300' E line of SE SW
 QUADRANGLE: CHAUNCEY LONGITUDE: -87.82451 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 38.822904 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 435.0 LOGGED (FT.): 757.0 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
120.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	315.0
3.0	CARBONDALE	DANVILLE	COAL	2.0	432.0
-46.0	CARBONDALE	JAMESTOWN	COAL	4.0	481.0
-54.0	CARBONDALE	HERRIN	COAL	-	489.0
-112.0	CARBONDALE	SPRINGFIELD	COAL	4.0	547.0
-183.0	CARBONDALE	HOUCHIN CREEK	COAL	-	618.0
-309.0	CARBONDALE	COLCHESTER	COAL	-	744.0
-322.0	SPOON	SEELYVILLE	COAL	-	757.0

MAPID: 10100625000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 13W SECTION: 36 QUARTERS/FOOTAGES: 660' S line, 330' W line of SE SW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.812072 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.822111 DATE COLLECTED:

SURFACE ELEVATION (FT.): 432.0 LOGGED (FT.): 733.0 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	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	295.0
42.0	CARBONDALE	DANVILLE	COAL	2.0	390.0
-6.0	CARBONDALE	JAMESTOWN	COAL	-	438.0
-13.0	CARBONDALE	HERRIN	COAL	-	445.0
-76.0	CARBONDALE	SPRINGFIELD	COAL	3.0	508.0
-148.0	CARBONDALE	HOUCHIN CREEK	COAL	-	580.0
-268.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-298.0	SPOON	SEELYVILLE	COAL	3.0	730.0

MAPID: 10127828000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 13W SECTION: 36 QUARTERS/FOOTAGES: 660' N line, 610' E line of SW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.809507 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.825787 DATE COLLECTED:

SURFACE ELEVATION (FT.): 439.0 LOGGED (FT.): 735.0 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
148.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	291.0
45.0	CARBONDALE	DANVILLE	COAL	3.5	394.0
-1.0	CARBONDALE	JAMESTOWN	COAL	4.0	440.0
-8.0	CARBONDALE	HERRIN	COAL	1.5	447.0
-81.0	CARBONDALE	SPRINGFIELD	COAL	3.0	520.0
-154.0	CARBONDALE	HOUCHIN CREEK	COAL	1.5	593.0
-277.0	CARBONDALE	COLCHESTER	COAL	-	716.0
-296.0	SPOON	SEELYVILLE	COAL	-	735.0

MAPID: 10127928000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: LAWRENCE TWP/RNG: 5N 13W SECTION: 36 QUARTERS/FOOTAGES: 660' S line, 660' E line of NW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.807062 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.829432 DATE COLLECTED:

SURFACE ELEVATION (FT.): 445.0 LOGGED (FT.): 725.0 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
156.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	289.0
52.0	CARBONDALE	DANVILLE	COAL	2.5	393.0
8.0	CARBONDALE	JAMESTOWN	COAL	4.0	437.0
1.0	CARBONDALE	HERRIN	COAL	1.0	444.0
-78.0	CARBONDALE	SPRINGFIELD	COAL	2.5	523.0
-150.0	CARBONDALE	HOUCHIN CREEK	COAL	-	595.0
-269.0	CARBONDALE	COLCHESTER	COAL	-	714.0
-280.0	SPOON	SEELYVILLE	COAL	-	725.0