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Status Report

ILLINOIS STATE GEOLOGICAL SURVEY
PRAIRIE RESEARCH INSTITUTE

Total Records: 1028

Top 3 County Records		Top 3 Log Type Records		Top 3 Coal Records		Top 3 Member Records	
Wayne	1028	Electric Log	836	SPRINGFIELD	843	SPRINGFIELD COAL	843
		Survey Sample Study	50	HERRIN	669	HERRIN COAL	669
		Drillers Log	32	HOUCHIN CREEK	417	HOUCHIN CREEK COAL	417

Data Summary

Cross-tabulation of all selected logs, individual logs will vary.
Tabulation of logged intervals only, invidual logs will vary.

Depth and Thickness measurements in feet

Member	Lithology	Avg. Depth	Min. Depth	Max. Depth	Avg. Thk	Min. Thk	Max. Thk
CARTHAGE	LIMESTONE	**562.3**	344.0	773.0	**8.8**	5.0	16.0
WEST FRANKLIN	LIMESTONE	**794.3**	645.0	859.0	**7.0**	4.0	10.0
PIASA	LIMESTONE	**881.3**	785.0	941.0	**4.3**	1.0	10.0
DANVILLE	COAL	**897.0**	815.0	1104.0	**2.3**	1.0	4.5
BANKSTON FORK	LIMESTONE	**950.6**	870.0	991.0	**4.1**	2.0	6.0
ANVIL ROCK	SANDSTONE	**932.4**	840.0	1026.0	**28.8**	1.5	120.0
CONANT	LIMESTONE	**1051.8**	1051.8	1051.8	**0.3**	0.3	0.3
JAMESTOWN	COAL	**1004.3**	906.5	1055.2	**0.5**	0.2	1.3
BRERETON	LIMESTONE	**947.5**	884.3	1056.2	**3.3**	0.3	6.0
ANNA	SHALE	**949.1**	887.8	1057.3	**1.9**	0.6	5.4
HERRIN	COAL	**989.3**	851.0	1150.0	**3.5**	1.0	7.4
HIGGINSVILLE	LIMESTONE	**921.1**	896.3	935.7	**2.1**	1.1	3.8
BRIAR HILL	COAL	**1027.7**	917.0	1175.0	**1.6**	0.5	4.0
ST. DAVID	LIMESTONE	**1075.5**	1012.0	1138.0	**1.7**	1.0	2.0
TURNER MINE	SHALE	**1073.2**	1014.0	1140.0	**2.7**	1.0	6.0
DYKERSBURG	SHALE	**990.0**	932.0	1124.0	**44.1**	7.5	62.5
SPRINGFIELD	COAL	**1068.7**	914.0	1211.0	**3.7**	0.1	8.0
EXCELLO	SHALE	**1150.0**	1103.5	1236.0	**3.9**	2.0	8.0
HOUCHIN CREEK	COAL	**1167.1**	1035.0	1320.0	**2.7**	1.0	10.0
MECCA QUARRY	SHALE	**1223.4**	1177.0	1315.0	**2.2**	1.0	4.0
COLCHESTER	COAL	**1238.3**	1150.0	1377.0	**1.2**	0.5	3.5
SEELYVILLE	COAL	**1304.4**	1278.4	1383.5	**5.6**	2.0	8.8
DEKOVEN	COAL	**1277.5**	1174.0	1415.0	**3.3**	1.0	60.1
LOWER DEKOVEN	COAL	**1306.2**	1207.0	1418.5	**1.4**	0.9	2.0
DAVIS	COAL	**1322.7**	1209.0	1445.0	**3.6**	1.0	6.8
SEAHORNE LS	LIMESTONE	**1306.6**	1305.8	1307.4	**2.7**	2.5	2.9
				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: 19100566000C **VERSION:** 1 **PROJECT:** CGT-SCILL
COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 1 **QUARTERS/FOOTAGES:** NE NW SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.600242 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.555458 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 449.0 **LOGGED (FT.):** 1020.5 **LOG TYPE:** Electric Log
SOURCE: SKELLY OIL CO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-568.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1017.0	

MAPID: 19100566000C **VERSION:** 2 **PROJECT:** CIRC 164
COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 1 **QUARTERS/FOOTAGES:** NE NW SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.600242 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.555458 **DATE COLLECTED:** 0 / 0 / 1945
SURFACE ELEVATION (FT.): 449.0 **LOGGED (FT.):** 3055.0 **LOG TYPE:**
SOURCE: SKELLY OC, HOOVER E A 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-57.0	BOND	CARTHAGE	LIMESTONE	-	506.0	
-492.0	CARBONDALE	HERRIN	COAL	-	941.0	

MAPID: 19100912000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' N line, 330' E line
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.586319 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.562814 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 1031.0 **LOG TYPE:** Electric Log
SOURCE: K & H DRLG CO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-47.0	BOND	CARTHAGE	LIMESTONE	-	552.0	
-459.0	CARBONDALE	HERRIN	COAL	-	964.0	
-522.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1027.0	

MAPID: 19100012000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 2 **QUARTERS/FOOTAGES:** SE SW NW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.618957 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.556938 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 481.0 **LOGGED (FT.):** 1052.0 **LOG TYPE:** Electric Log
SOURCE: GULF REFINING CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-569.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1050.0	

MAPID: 19100012000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 2 **QUARTERS/FOOTAGES:** SE SW NW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.618957 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.556938 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 481.0 **LOGGED (FT.):** 3186.0 **LOG TYPE:**
SOURCE: GULF REF, BURROUGH E **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-77.0	BOND	CARTHAGE	LIMESTONE	-	558.0	
-485.0	CARBONDALE	HERRIN	COAL	-	966.0	

MAPID: 19100913000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.609527 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.558906 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 477.0 **LOGGED (FT.):** 1058.0 **LOG TYPE:** Electric Log
SOURCE: RYAN OIL CO., ETAL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-577.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1054.0	

MAPID: 19100708000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.635216 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.549336 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 518.0 **LOGGED (FT.):** 1076.0 **LOG TYPE:** Electric Log
SOURCE: LYNNS J J **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-554.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1072.0	

MAPID: 19107409000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.628322 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.551319 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 480.0 **LOGGED (FT.):** 1056.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-572.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1052.0	

MAPID: 19100914000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 5 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.665088 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.557852 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 525.0 **LOGGED (FT.):** 1072.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-543.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1068.0	

MAPID: 19104206000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 5 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW SE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.667536 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.550542 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 526.0 **LOGGED (FT.):** 1065.5 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-536.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1062.0	

MAPID: 19100567000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 8 **QUARTERS/FOOTAGES:** NE NW NW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.674399 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.546836 **DATE COLLECTED:** 0 / 0 / 1944
SURFACE ELEVATION (FT.): 528.0 **LOGGED (FT.):** 3153.0 **LOG TYPE:**
SOURCE: MAGNOLIA, SHANNON R 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-80.0	BOND	CARTHAGE	LIMESTONE	-	608.0	
-458.0	CARBONDALE	HERRIN	COAL	-	986.0	

MAPID: 19100916000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.644466 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.536414 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 502.0 **LOGGED (FT.):** 1035.0 **LOG TYPE:** Electric Log
SOURCE: IL MID-CONTINENT OIL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-531.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1033.0	

MAPID: 19104084000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.646755 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.54726 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 519.0 **LOGGED (FT.):** 1072.5 **LOG TYPE:** Electric Log
SOURCE: SHENDAL DEAN **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-550.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1069.0	

MAPID: 19104454000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.655898 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.534243 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 1012.0 **LOG TYPE:** Electric Log
SOURCE: MAGNOLIA PETROLEUM **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-518.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1008.0	

MAPID: 19103530000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.628381 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.540439 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 493.0 **LOGGED (FT.):** 1068.0 **LOG TYPE:** Electric Log
SOURCE: SANDERS & FYE OIL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-571.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1064.0	

MAPID: 19129069000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.637571 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.543843 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 497.0 **LOGGED (FT.):** 1047.5 **LOG TYPE:** Electric Log
SOURCE: JUNIPER PETROLEUM CORP. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-547.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1044.0	

MAPID: 19100568000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 11 **QUARTERS/FOOTAGES:** NW SW SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.612108 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.537137 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 444.0 **LOGGED (FT.):** 969.0 **LOG TYPE:** Electric Log
SOURCE: BORAH, DR. O. C. ETAL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-521.0	CARBONDALE	SPRINGFIELD	COAL	4.0	965.0	

MAPID: 19100568000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 11 **QUARTERS/FOOTAGES:** NW SW SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.612108 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.537137 **DATE COLLECTED:** 0 / 0 / 1947
SURFACE ELEVATION (FT.): 444.0 **LOGGED (FT.):** 3082.0 **LOG TYPE:**
SOURCE: BORAH O C, JONES E 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-44.0	BOND	CARTHAGE	LIMESTONE	-	488.0	
-452.0	CARBONDALE	HERRIN	COAL	-	896.0	

MAPID: 19103337000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.621459 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.538812 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 468.0 **LOGGED (FT.):** 1006.0 **LOG TYPE:** Electric Log
SOURCE: TURNER PETROLEUM **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-533.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1001.0	

MAPID: 19100920000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.591163 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.537344 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 459.0 **LOGGED (FT.):** 1011.5 **LOG TYPE:** Electric Log
SOURCE: LUCAS, W. O. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-549.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1008.0	

MAPID: 19100569000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 13 **QUARTERS/FOOTAGES:** SE NE SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.595856 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.524532 **DATE COLLECTED:** 0 / 0 / 1943
SURFACE ELEVATION (FT.): 503.0 **LOGGED (FT.):** 3132.0 **LOG TYPE:**
SOURCE: POWERS ETL, BURG POWLS 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-65.0	BOND	CARTHAGE	LIMESTONE	-	568.0	
-504.0	CARBONDALE	HERRIN	COAL	-	1007.0	

MAPID: 19104086000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.595824 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.533681 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 473.0 **LOGGED (FT.):** 1029.5 **LOG TYPE:** Electric Log
SOURCE: LUCAS, W. O. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-553.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1026.0	

MAPID: 19105171000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.595862 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.522701 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 508.0 **LOGGED (FT.):** 1082.0 **LOG TYPE:** Electric Log
SOURCE: BOOTH, CHARLES E. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-570.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1078.0	

MAPID: 19100923000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE NW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.616836 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.52979 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 470.0 **LOGGED (FT.):** 989.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-516.0	CARBONDALE	SPRINGFIELD	COAL	3.0	986.0	

MAPID: 19100925000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.616899 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.520672 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 453.0 **LOGGED (FT.):** 968.0 **LOG TYPE:** Electric Log
SOURCE: SUPERIOR OIL COMPANY **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-513.0	CARBONDALE	SPRINGFIELD	COAL	2.0	966.0	

MAPID: 19103167000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.61453 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.5207 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 463.0 **LOGGED (FT.):** 990.0 **LOG TYPE:** Electric Log
SOURCE: SUPERIOR OIL COMPANY **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-523.0	CARBONDALE	SPRINGFIELD	COAL	4.0	986.0	

MAPID: 19100570000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 15 **QUARTERS/FOOTAGES:** SE SE NE

QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.623836 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.52787 **DATE COLLECTED:** 0 / 0 / 1942

SURFACE ELEVATION (FT.): 477.0 **LOGGED (FT.):** 3102.0 **LOG TYPE:**

SOURCE: OIL MANGMT, WARD S 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-40.0	BOND	CARTHAGE	LIMESTONE	-	517.0	
-446.0	CARBONDALE	HERRIN	COAL	-	923.0	

MAPID: 19100927000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SW

QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.633113 **GEOLOGIST:** C TREWORGY

CONFIDENTIAL: N **LATITUDE:** 38.52218 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 507.0 **LOGGED (FT.):** 1046.0 **LOG TYPE:** Electric Log

SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-535.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1042.0	

MAPID: 19104215000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NW

QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.637654 **GEOLOGIST:** C TREWORGY

CONFIDENTIAL: N **LATITUDE:** 38.531165 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 517.0 **LOGGED (FT.):** 1047.0 **LOG TYPE:** Electric Log

SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-527.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1044.0	

MAPID: 19100928000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 16 **QUARTERS/FOOTAGES:** 660' N line, 330' E line of SW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.651464 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.524398 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 514.0 **LOGGED (FT.):** 1029.0 **LOG TYPE:** Electric Log
SOURCE: DUNCAN, WALTER **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-511.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1025.0	

MAPID: 19104468000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SE NW NW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.655931 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.530618 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 491.0 **LOGGED (FT.):** 1016.0 **LOG TYPE:** Electric Log
SOURCE: MAGNOLIA PETROLEUM **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-521.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1012.0	

MAPID: 19104470000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.653664 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.527065 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 510.0 **LOGGED (FT.):** 1029.5 **LOG TYPE:** Electric Log
SOURCE: IL MID-CONTINENT OIL **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-516.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1026.0	

MAPID: 19101491000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.669781 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.525031 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 510.0 **LOGGED (FT.):** 996.0 **LOG TYPE:** Electric Log
SOURCE: GAINES ROY E **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-482.0	CARBONDALE	SPRINGFIELD	COAL	4.0	992.0	

MAPID: 19100571000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 18 **QUARTERS/FOOTAGES:** SW SE SW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.692377 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.519567 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 519.0 **LOGGED (FT.):** 968.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-445.0	CARBONDALE	SPRINGFIELD	COAL	4.0	964.0	

MAPID: 19100571000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 18 **QUARTERS/FOOTAGES:** SW SE SW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.692377 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.519567 **DATE COLLECTED:** 0 / 0 / 1947
SURFACE ELEVATION (FT.): 519.0 **LOGGED (FT.):** 3025.0 **LOG TYPE:**
SOURCE: NAT ASSOC, DONOHO L 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
24.0	BOND	CARTHAGE	LIMESTONE	-	495.0	
-383.0	CARBONDALE	HERRIN	COAL	-	902.0	

MAPID: 19100572000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 18 **QUARTERS/FOOTAGES:** SW NW SE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.687082 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.523207 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 506.0 **LOGGED (FT.):** 1036.0 **LOG TYPE:** Electric Log
SOURCE: GULF REFINING CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-459.0	CARBONDALE	SPRINGFIELD	COAL	4.0	965.0	

MAPID: 19100572000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 18 **QUARTERS/FOOTAGES:** SW NW SE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.687082 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.523207 **DATE COLLECTED:** 0 / 0 / 1943
SURFACE ELEVATION (FT.): 506.0 **LOGGED (FT.):** 2948.0 **LOG TYPE:**
SOURCE: GULF REF, VEST LINDA 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
7.0	BOND	CARTHAGE	LIMESTONE	-	499.0	
-399.0	CARBONDALE	HERRIN	COAL	-	905.0	

MAPID: 19100464000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 19 **QUARTERS/FOOTAGES:** NW SW NW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.697696 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.514154 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 501.0 **LOGGED (FT.):** 918.0 **LOG TYPE:** Electric Log
SOURCE: GULF REFINING CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-413.0	CARBONDALE	SPRINGFIELD	COAL	4.0	914.0	

MAPID: 19100464000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 19 **QUARTERS/FOOTAGES:** NW SW NW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.697696 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.514154 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 501.0 **LOGGED (FT.):** 3011.0 **LOG TYPE:**
SOURCE: GULF REF, HENSON A M 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
51.0	BOND	CARTHAGE	LIMESTONE	-	450.0	
-350.0	CARBONDALE	HERRIN	COAL	-	851.0	

MAPID: 19100573000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 19 **QUARTERS/FOOTAGES:** NW NW SE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.687202 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.510544 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 514.0 **LOGGED (FT.):** 995.0 **LOG TYPE:** Electric Log
SOURCE: GULF REFINING CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-477.0	CARBONDALE	SPRINGFIELD	COAL	4.0	991.0	

MAPID: 19100573000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 19 **QUARTERS/FOOTAGES:** NW NW SE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.687202 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.510544 **DATE COLLECTED:** 0 / 0 / 1943
SURFACE ELEVATION (FT.): 514.0 **LOGGED (FT.):** 3077.0 **LOG TYPE:**
SOURCE: GULF REF, HIGGINS T 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-2.0	BOND	CARTHAGE	LIMESTONE	-	516.0	
-410.0	CARBONDALE	HERRIN	COAL	-	924.0	

MAPID: 19100934000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.689578 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.517902 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 517.0 **LOGGED (FT.):** 972.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-452.0	CARBONDALE	SPRINGFIELD	COAL	3.0	969.0	

MAPID: 19100574000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 20 **QUARTERS/FOOTAGES:** SE SW SE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.665342 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.50517 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 480.0 **LOGGED (FT.):** 972.0 **LOG TYPE:** Electric Log
SOURCE: KINGWOOD OIL CO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-22.0	BOND	CARTHAGE	LIMESTONE	-	502.0	
-488.0	CARBONDALE	SPRINGFIELD	COAL	4.0	968.0	

MAPID: 19100574000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 20 **QUARTERS/FOOTAGES:** SE SW SE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.665342 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.50517 **DATE COLLECTED:** 0 / 0 / 1947
SURFACE ELEVATION (FT.): 480.0 **LOGGED (FT.):** 3068.0 **LOG TYPE:**
SOURCE: KINGWOODOC, MELTON DAN 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-22.0	BOND	CARTHAGE	LIMESTONE	-	502.0	
-420.0	CARBONDALE	HERRIN	COAL	4.0	900.0	

MAPID: 19100574000C **VERSION:** 4 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 20 **QUARTERS/FOOTAGES:** SE SW SE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.665342 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.50517 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3068.0 **LOG TYPE:** Survey Sample Study
SOURCE: KINGWOOD OIL CO. **WELL TYPE:** Oil and Gas Test
COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 19100575000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 21 **QUARTERS/FOOTAGES:** SW NW SE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.649236 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.509064 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 516.0 **LOGGED (FT.):** 1048.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-48.0	BOND	CARTHAGE	LIMESTONE	-	564.0	
-528.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1044.0	

MAPID: 19100575000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 21 **QUARTERS/FOOTAGES:** SW NW SE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.649236 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.509064 **DATE COLLECTED:** 0 / 0 / 1947
SURFACE ELEVATION (FT.): 516.0 **LOGGED (FT.):** 3077.0 **LOG TYPE:**
SOURCE: NAT ASSOC, HOLLEMAN W 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-49.0	BOND	CARTHAGE	LIMESTONE	-	565.0	
-462.0	CARBONDALE	HERRIN	COAL	-	978.0	

MAPID: 19100935000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 330' W line
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.658355 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.517858 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 1018.0 **LOG TYPE:** Electric Log
SOURCE: GAINES ROY E **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	SPRINGFIELD	COAL	3.0	1015.0	

MAPID: 19100576000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 23 **QUARTERS/FOOTAGES:** NE NE SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.605214 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.511741 **DATE COLLECTED:** 0 / 0 / 1947
SURFACE ELEVATION (FT.): 457.0 **LOGGED (FT.):** 2942.0 **LOG TYPE:**
SOURCE: PURITN DRC, SPICER H 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-61.0	BOND	CARTHAGE	LIMESTONE	-	518.0	
-492.0	CARBONDALE	HERRIN	COAL	-	949.0	

MAPID: 19100707000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.609896 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.509886 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 484.0 **LOGGED (FT.):** 1039.0 **LOG TYPE:** Electric Log
SOURCE: TEX HARVEY OIL CO **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-54.0	BOND	CARTHAGE	LIMESTONE	-	538.0	
-552.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1036.0	

MAPID: 19100940000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.616897 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.518852 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 464.0 **LOGGED (FT.):** 980.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-513.0	CARBONDALE	SPRINGFIELD	COAL	3.0	977.0	

MAPID: 19101846000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.614552 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.515259 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 464.0 **LOGGED (FT.):** 991.0 **LOG TYPE:** Electric Log
SOURCE: FLOYD & HENSON INC **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-524.0	CARBONDALE	SPRINGFIELD	COAL	3.0	988.0	

MAPID: 19104248000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' S line, 360' W line of SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.612173 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.506243 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 446.0 **LOGGED (FT.):** 1007.0 **LOG TYPE:** Electric Log
SOURCE: JET OIL CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-558.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1004.0	

MAPID: 19100430000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 24 **QUARTERS/FOOTAGES:** NE NE SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.58661 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.511833 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 493.0 **LOGGED (FT.):** 1041.0 **LOG TYPE:** Electric Log
SOURCE: BELL BROTHERS **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-545.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1038.0	

MAPID: 19100430000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 24 **QUARTERS/FOOTAGES:** NE NE SE

QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.58661 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.511833 **DATE COLLECTED:** 0 / 0 / 1942

SURFACE ELEVATION (FT.): 493.0 **LOGGED (FT.):** 3185.0 **LOG TYPE:**

SOURCE: BELL BROS, JONES E 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-49.0	BOND	CARTHAGE	LIMESTONE	-	542.0	
-482.0	CARBONDALE	HERRIN	COAL	-	975.0	

MAPID: 19100577000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 24 **QUARTERS/FOOTAGES:** SW SE NW

QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.598222 **GEOLOGIST:** C TREWORGY

CONFIDENTIAL: N **LATITUDE:** 38.513595 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 501.0 **LOGGED (FT.):** 1068.0 **LOG TYPE:** Electric Log

SOURCE: TEX HARVEY OIL CO **WELL TYPE:** Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-563.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1064.0	

MAPID: 19100577000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 24 **QUARTERS/FOOTAGES:** SW SE NW

QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.598222 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.513595 **DATE COLLECTED:** 0 / 0 / 1947

SURFACE ELEVATION (FT.): 501.0 **LOGGED (FT.):** 3173.0 **LOG TYPE:**

SOURCE: TEX HARVEY, DUNLAP A 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-63.0	BOND	CARTHAGE	LIMESTONE	-	564.0	
-489.0	CARBONDALE	HERRIN	COAL	-	990.0	

MAPID: 19100578000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 24 **QUARTERS/FOOTAGES:** SW SW NW

QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.602872 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.51357 **DATE COLLECTED:** 0 / 0 / 1947

SURFACE ELEVATION (FT.): 479.0 **LOGGED (FT.):** 2960.0 **LOG TYPE:**

SOURCE: PURITN DRC, HAWKINS M 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-67.0	BOND	CARTHAGE	LIMESTONE	-	546.0	
-492.0	CARBONDALE	HERRIN	COAL	-	971.0	

MAPID: 19100579000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 25 **QUARTERS/FOOTAGES:** SW SW NE

QUADRANGLE: CRISP **LONGITUDE:** -88.593638 **GEOLOGIST:** C TREWORGY

CONFIDENTIAL: N **LATITUDE:** 38.499103 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 452.0 **LOGGED (FT.):** 963.0 **LOG TYPE:** Electric Log

SOURCE: DEEP ROCK OIL CORP **WELL TYPE:** Plugged and/or Abandoned

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-508.0	CARBONDALE	SPRINGFIELD	COAL	3.0	960.0	

MAPID: 19100579000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 25 **QUARTERS/FOOTAGES:** SW SW NE

QUADRANGLE: CRISP **LONGITUDE:** -88.593638 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.499103 **DATE COLLECTED:** 0 / 0 / 1946

SURFACE ELEVATION (FT.): 452.0 **LOGGED (FT.):** 3086.0 **LOG TYPE:**

SOURCE: DEEP ROCK, SPICER U S 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-26.0	BOND	CARTHAGE	LIMESTONE	-	478.0	
-444.0	CARBONDALE	HERRIN	COAL	-	896.0	

MAPID: 19100942000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' N line, 330' W line
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.602919 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.504501 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 484.0 **LOGGED (FT.):** 1040.0 **LOG TYPE:** Electric Log
SOURCE: SCHUMACHER & TAYLOR **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-55.0	BOND	CARTHAGE	LIMESTONE	-	539.0	
-552.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1036.0	

MAPID: 19107682000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 25 **QUARTERS/FOOTAGES:** 405' S line, 405' E line of SW NW
QUADRANGLE: CRISP **LONGITUDE:** -88.60087 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.499284 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 448.0 **LOGGED (FT.):** 969.0 **LOG TYPE:** Electric Log
SOURCE: FARRAR OIL CO., INC. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-517.0	CARBONDALE	SPRINGFIELD	COAL	4.0	965.0	

MAPID: 19100580000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 26 **QUARTERS/FOOTAGES:** SW SW NW
QUADRANGLE: CRISP **LONGITUDE:** -88.621568 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.498844 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 440.0 **LOGGED (FT.):** 975.5 **LOG TYPE:** Electric Log
SOURCE: KINGWOOD OIL CO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-532.0	CARBONDALE	SPRINGFIELD	COAL	3.5	972.0	

MAPID: 19100580000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 26 **QUARTERS/FOOTAGES:** SW SW NW

QUADRANGLE: CRISP **LONGITUDE:** -88.621568 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.498844 **DATE COLLECTED:** 0 / 0 / 1944

SURFACE ELEVATION (FT.): 440.0 **LOGGED (FT.):** 3153.0 **LOG TYPE:**

SOURCE: KINGWOODOC, BURKITT A 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-40.0	BOND	CARTHAGE	LIMESTONE	-	480.0	
-464.0	CARBONDALE	HERRIN	COAL	-	904.0	

MAPID: 19100581000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 26 **QUARTERS/FOOTAGES:** SE SE SE

QUADRANGLE: CRISP **LONGITUDE:** -88.605271 **GEOLOGIST:** C TREWORGY

CONFIDENTIAL: N **LATITUDE:** 38.491789 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 444.0 **LOGGED (FT.):** 955.5 **LOG TYPE:** Electric Log

SOURCE: OBERING ERNEST A **WELL TYPE:** Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-508.0	CARBONDALE	SPRINGFIELD	COAL	3.5	952.0	

MAPID: 19100581000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 26 **QUARTERS/FOOTAGES:** SE SE SE

QUADRANGLE: CRISP **LONGITUDE:** -88.605271 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.491789 **DATE COLLECTED:** 0 / 0 / 1946

SURFACE ELEVATION (FT.): 444.0 **LOGGED (FT.):** 3117.0 **LOG TYPE:**

SOURCE: OBERING E, MILNER T L 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-16.0	BOND	CARTHAGE	LIMESTONE	-	460.0	
-442.0	CARBONDALE	HERRIN	COAL	-	886.0	

MAPID: 19104221000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.614581 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.500753 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 435.0 **LOGGED (FT.):** 987.0 **LOG TYPE:** Electric Log
SOURCE: SHOOTS GEO E **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-61.0	BOND	CARTHAGE	LIMESTONE	-	496.0	
-548.0	CARBONDALE	SPRINGFIELD	COAL	4.0	983.0	

MAPID: 19104281000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SW
QUADRANGLE: CRISP **LONGITUDE:** -88.621525 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.495182 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 427.0 **LOGGED (FT.):** 963.0 **LOG TYPE:** Electric Log
SOURCE: MCELYEA, PAUL W. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-533.0	CARBONDALE	SPRINGFIELD	COAL	3.0	960.0	

MAPID: 19100582000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 27 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.640043 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.49663 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 416.0 **LOGGED (FT.):** 998.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-80.0	BOND	CARTHAGE	LIMESTONE	-	496.0	
-578.0	CARBONDALE	SPRINGFIELD	COAL	4.0	994.0	

MAPID: 19100582000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 27 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.640043 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.49663 **DATE COLLECTED:** 0 / 0 / 1947
SURFACE ELEVATION (FT.): 456.0 **LOGGED (FT.):** 3100.0 **LOG TYPE:**
SOURCE: TEXAS CO, SCOTT W 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-40.0	BOND	CARTHAGE	LIMESTONE	-	496.0	
-460.0	CARBONDALE	HERRIN	COAL	-	916.0	

MAPID: 19103396000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.6538 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.498118 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 448.0 **LOGGED (FT.):** 978.0 **LOG TYPE:** Electric Log
SOURCE: SKILES OIL CORP **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-48.0	BOND	CARTHAGE	LIMESTONE	-	496.0	
-526.0	CARBONDALE	SPRINGFIELD	COAL	4.0	974.0	

MAPID: 19104089000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NE NE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.642388 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.503776 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 488.0 **LOGGED (FT.):** 1024.0 **LOG TYPE:** Electric Log
SOURCE: FOX, PETER BREWING **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-532.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1020.0	

MAPID: 19104481000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.653787 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.490895 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 492.0 **LOGGED (FT.):** 1023.5 **LOG TYPE:** Electric Log
SOURCE: JET OIL CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-528.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1020.0	

MAPID: 19100948000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.674537 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.490628 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 472.0 **LOGGED (FT.):** 987.0 **LOG TYPE:** Electric Log
SOURCE: KAUFMAN, E.H. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-512.0	CARBONDALE	SPRINGFIELD	COAL	3.0	984.0	

MAPID: 19104483000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.665318 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.49432 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 474.0 **LOGGED (FT.):** 996.0 **LOG TYPE:** Electric Log
SOURCE: MCCOLLUM & KINCAID **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-41.0	BOND	CARTHAGE	LIMESTONE	-	515.0	
-518.0	CARBONDALE	SPRINGFIELD	COAL	4.0	992.0	

MAPID: 19104261000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.68848 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.496086 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 430.0 **LOGGED (FT.):** 966.0 **LOG TYPE:** Electric Log
SOURCE: PEP DRILLING COMPANY **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-45.0	BOND	CARTHAGE	LIMESTONE	-	475.0	
-533.0	CARBONDALE	SPRINGFIELD	COAL	3.0	963.0	

MAPID: 19107418000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.679195 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.494242 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 432.0 **LOGGED (FT.):** 950.0 **LOG TYPE:** Electric Log
SOURCE: N V DUNCAN DRILLING **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-514.0	CARBONDALE	SPRINGFIELD	COAL	4.0	946.0	

MAPID: 19104222000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.683755 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.48687 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 429.0 **LOGGED (FT.):** 973.5 **LOG TYPE:** Electric Log
SOURCE: DULL, JOE A. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-541.0	CARBONDALE	SPRINGFIELD	COAL	3.5	970.0	

MAPID: 19104233000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 31 **QUARTERS/FOOTAGES:** 970' S line, 330' E line of NE SW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.68835 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.4813 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 427.0 **LOGGED (FT.):** 978.0 **LOG TYPE:** Electric Log
SOURCE: LINDSAY, THEODORE R. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-547.0	CARBONDALE	SPRINGFIELD	COAL	4.0	974.0	

MAPID: 19104276000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.681398 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.481425 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 431.0 **LOGGED (FT.):** 976.0 **LOG TYPE:** Electric Log
SOURCE: LINDSAY, THEODORE R. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-54.0	BOND	CARTHAGE	LIMESTONE	-	485.0	
-542.0	CARBONDALE	SPRINGFIELD	COAL	3.0	973.0	

MAPID: 19100002000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 32 **QUARTERS/FOOTAGES:** SE SE NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.660686 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.483458 **DATE COLLECTED:** 0 / 0 / 1941
SURFACE ELEVATION (FT.): 432.0 **LOGGED (FT.):** 2992.0 **LOG TYPE:**
SOURCE: WISER OC, ELLIS ED 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-44.0	BOND	CARTHAGE	LIMESTONE	-	476.0	
-459.0	CARBONDALE	HERRIN	COAL	-	891.0	

MAPID: 19104287000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.667585 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.485219 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 465.0 **LOGGED (FT.):** 992.0 **LOG TYPE:** Electric Log
SOURCE: LOUDON PIPELINE CO **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-39.0	BOND	CARTHAGE	LIMESTONE	-	504.0	
-524.0	CARBONDALE	SPRINGFIELD	COAL	3.0	989.0	

MAPID: 19100952000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.651501 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.487306 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 462.0 **LOGGED (FT.):** 1018.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-551.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1013.0	

MAPID: 19104486000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.656094 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.485373 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 453.0 **LOGGED (FT.):** 980.0 **LOG TYPE:** Electric Log
SOURCE: FARRAR, FLETCHER F. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-44.0	BOND	CARTHAGE	LIMESTONE	-	497.0	
-523.0	CARBONDALE	SPRINGFIELD	COAL	4.0	976.0	

MAPID: 19100003000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 35 **QUARTERS/FOOTAGES:** NE NW SW
QUADRANGLE: CRISP **LONGITUDE:** -88.619202 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.482492 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 446.0 **LOGGED (FT.):** 939.0 **LOG TYPE:** Electric Log
SOURCE: N V DUNCAN DRILLING **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-12.0	BOND	CARTHAGE	LIMESTONE	-	458.0	
-489.0	CARBONDALE	SPRINGFIELD	COAL	4.0	935.0	

MAPID: 19100003000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 35 **QUARTERS/FOOTAGES:** NE NW SW
QUADRANGLE: CRISP **LONGITUDE:** -88.619202 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.482492 **DATE COLLECTED:** 0 / 0 / 1941
SURFACE ELEVATION (FT.): 446.0 **LOGGED (FT.):** 3110.0 **LOG TYPE:**
SOURCE: DUNCAN INC, GUTHRIE 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-14.0	BOND	CARTHAGE	LIMESTONE	-	460.0	
-422.0	CARBONDALE	HERRIN	COAL	-	868.0	

MAPID: 19101880000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE
QUADRANGLE: CRISP **LONGITUDE:** -88.60529 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.482708 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 450.0 **LOGGED (FT.):** 1003.5 **LOG TYPE:** Electric Log
SOURCE: DUNCAN, N. V., EST. OF **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-551.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1001.0	

MAPID: 19103669000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' S line, 330' E line
QUADRANGLE: CRISP **LONGITUDE:** -88.605302 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.477272 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 1024.0 **LOG TYPE:** Electric Log
SOURCE: DULL, JOE A. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-560.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1020.0	

MAPID: 19104487000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NE
QUADRANGLE: CRISP **LONGITUDE:** -88.612224 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.488049 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 456.0 **LOGGED (FT.):** 959.0 **LOG TYPE:** Electric Log
SOURCE: DUNCAN, N. V., EST. OF **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-500.0	CARBONDALE	SPRINGFIELD	COAL	3.0	956.0	

MAPID: 19100613000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 36 **QUARTERS/FOOTAGES:** SE NE SW
QUADRANGLE: CRISP **LONGITUDE:** -88.596015 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.480938 **DATE COLLECTED:** 0 / 0 / 1947
SURFACE ELEVATION (FT.): 457.0 **LOGGED (FT.):** 3117.0 **LOG TYPE:**
SOURCE: RBNSN PUCK, SMITH JOHN 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-68.0	BOND	CARTHAGE	LIMESTONE	-	525.0	
-498.0	CARBONDALE	HERRIN	COAL	-	955.0	

MAPID: 19103655000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW SW
QUADRANGLE: CRISP **LONGITUDE:** -88.602971 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.479101 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 450.0 **LOGGED (FT.):** 1003.0 **LOG TYPE:** Electric Log
SOURCE: LINDSAY, THEODORE R. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-550.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1000.0	

MAPID: 19103712000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 5E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NW
QUADRANGLE: CRISP **LONGITUDE:** -88.598315 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.48457 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 473.0 **LOGGED (FT.):** 1029.0 **LOG TYPE:** Electric Log
SOURCE: CALVERT DRILLING, INC. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-50.0	BOND	CARTHAGE	LIMESTONE	-	523.0	
-552.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1025.0	

MAPID: 19107552000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW
QUADRANGLE: CISNE **LONGITUDE:** -88.481132 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.554067 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 510.0 **LOGGED (FT.):** 1180.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-154.0	BOND	CARTHAGE	LIMESTONE	-	664.0	
-589.0	CARBONDALE	HERRIN	COAL	-	1099.0	
-666.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1176.0	

MAPID: 19107557000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SE
QUADRANGLE: CISNE **LONGITUDE:** -88.474267 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.54656 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 497.0 **LOGGED (FT.):** 1179.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-678.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1175.0	

MAPID: 19100742000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NE
QUADRANGLE: CISNE **LONGITUDE:** -88.495009 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.556306 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 484.0 **LOGGED (FT.):** 1144.0 **LOG TYPE:** Electric Log
SOURCE: SAN, W. O. DRLG. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-156.0	BOND	CARTHAGE	LIMESTONE	-	640.0	
-588.0	CARBONDALE	HERRIN	COAL	-	1072.0	
-656.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1140.0	

MAPID: 19103427000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.506958 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.551177 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 507.0 **LOGGED (FT.):** 1114.0 **LOG TYPE:** Electric Log
SOURCE: STEEL J W **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-603.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1110.0	

MAPID: 19104243000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW
QUADRANGLE: CISNE **LONGITUDE:** -88.499823 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.547292 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 502.0 **LOGGED (FT.):** 1143.5 **LOG TYPE:** Electric Log
SOURCE: SMITH A & MILTON **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-638.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1140.0	

MAPID: 19100954000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' S line, 990' E line of NE SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.521049 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.551714 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 523.0 **LOGGED (FT.):** 1158.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-138.0	BOND	CARTHAGE	LIMESTONE	-	661.0	
-567.0	CARBONDALE	HERRIN	COAL	-	1090.0	
-631.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1154.0	

MAPID: 19103383000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.511641 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.555019 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 517.0 **LOGGED (FT.):** 1179.0 **LOG TYPE:** Electric Log
SOURCE: STEELE J W **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-658.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1175.0	

MAPID: 19100956000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 4 **QUARTERS/FOOTAGES:** 663' S line, 686' E line
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.529435 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.549344 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 546.0 **LOGGED (FT.):** 1168.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-618.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1164.0	

MAPID: 19104091000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW NE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.535408 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.557666 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 512.0 **LOGGED (FT.):** 1153.0 **LOG TYPE:** Electric Log
SOURCE: DUNCAN, WALTER **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-138.0	BOND	CARTHAGE	LIMESTONE	-	650.0	
-572.0	CARBONDALE	HERRIN	COAL	-	1084.0	
-638.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1150.0	

MAPID: 19107586000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.54251 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.554329 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 498.0 **LOGGED (FT.):** 1124.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-622.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1120.0	

MAPID: 19107534000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 5 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.556854 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.558381 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 494.0 **LOGGED (FT.):** 1118.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-111.0	BOND	CARTHAGE	LIMESTONE	-	605.0	
-553.0	CARBONDALE	HERRIN	COAL	-	1047.0	
-620.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1114.0	

MAPID: 19107544000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 5 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.54729 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.554493 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 502.0 **LOGGED (FT.):** 1126.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-620.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1122.0	

MAPID: 19100740000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.580364 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.557016 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 516.0 **LOGGED (FT.):** 1039.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-36.0	BOND	CARTHAGE	LIMESTONE	-	552.0	
-455.0	CARBONDALE	HERRIN	COAL	-	971.0	
-519.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1035.0	

MAPID: 19107502000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.566416 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.558854 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 1098.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-595.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1094.0	

MAPID: 19100739000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.573563 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.542448 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 475.0 **LOGGED (FT.):** 1019.0 **LOG TYPE:** Electric Log
SOURCE: LUCAS DEVELPMNT **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-83.0	BOND	CARTHAGE	LIMESTONE	-	558.0	
-523.0	CARBONDALE	HERRIN	COAL	-	998.0	
-589.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1064.0	

MAPID: 19100957000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.571299 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.535152 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 477.0 **LOGGED (FT.):** 1060.0 **LOG TYPE:** Electric Log
SOURCE: LUCAS, W. O. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-579.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1056.0	

MAPID: 19128501000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 8 **QUARTERS/FOOTAGES:** 990' S line, 990' E line of SW NE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.554465 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.543925 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 496.0 **LOGGED (FT.):** 1120.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-620.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1116.0	

MAPID: 19100738000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' N line, 330' E line
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.528201 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.546546 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 544.0 **LOGGED (FT.):** 3322.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-554.0	CARBONDALE	HERRIN	COAL	4.5	1098.0	
-621.0	CARBONDALE	SPRINGFIELD	COAL	6.0	1165.0	

MAPID: 19100961000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE NE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.530668 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.544796 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 551.0 **LOGGED (FT.):** 1174.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-222.0	BOND	CARTHAGE	LIMESTONE	-	773.0	
-550.0	CARBONDALE	HERRIN	COAL	-	1101.0	
-620.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1171.0	

MAPID: 19100737000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 10 **QUARTERS/FOOTAGES:** 681' N line, 678' W line
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.524665 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.545431 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 525.0 **LOGGED (FT.):** 1158.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-131.0	BOND	CARTHAGE	LIMESTONE	-	656.0	
-559.0	CARBONDALE	HERRIN	COAL	-	1084.0	
-629.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1154.0	

MAPID: 19100736000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SW
QUADRANGLE: CISNE **LONGITUDE:** -88.499908 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.534477 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 481.0 **LOGGED (FT.):** 1146.0 **LOG TYPE:** Electric Log
SOURCE: STEWART OIL CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-160.0	BOND	CARTHAGE	LIMESTONE	-	641.0	
-597.0	CARBONDALE	HERRIN	COAL	-	1078.0	
-662.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1143.0	

MAPID: 19128385000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE NW
QUADRANGLE: CISNE **LONGITUDE:** -88.483422 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.54136 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 523.0 **LOGGED (FT.):** 1215.0 **LOG TYPE:** Electric Log
SOURCE: TERRA RESOURCES **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-178.0	BOND	CARTHAGE	LIMESTONE	-	701.0	
-581.0	CARBONDALE	DANVILLE	COAL	4.5	1104.0	
-622.0	CARBONDALE	HERRIN	COAL	4.0	1145.0	
-688.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1211.0	

MAPID: 19100735000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 13 **QUARTERS/FOOTAGES:** 660' S line, 660' W line of SE SW
QUADRANGLE: CISNE **LONGITUDE:** -88.482484 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.51843 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 486.0 **LOGGED (FT.):** 1189.0 **LOG TYPE:** Electric Log
SOURCE: RAMAN HERMAN **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-178.0	BOND	CARTHAGE	LIMESTONE	-	664.0	
-626.0	CARBONDALE	HERRIN	COAL	-	1112.0	
-699.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1185.0	

MAPID: 19100734000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' N line, 330' E line
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.528341 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.53182 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 521.0 **LOGGED (FT.):** 1174.0 **LOG TYPE:** Electric Log
SOURCE: MENHALL, J. W. & CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-149.0	BOND	CARTHAGE	LIMESTONE	-	670.0	
-585.0	CARBONDALE	HERRIN	COAL	-	1106.0	
-649.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1170.0	

MAPID: 19100733000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' N line, 330' W line
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.58414 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.533443 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 493.0 **LOGGED (FT.):** 1043.0 **LOG TYPE:** Electric Log
SOURCE: REA-POWERS **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-546.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1039.0	

MAPID: 19103415000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.575948 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.524123 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 504.0 **LOGGED (FT.):** 1073.0 **LOG TYPE:** Electric Log
SOURCE: PEARSON, CHRIS SR., EST. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-66.0	BOND	CARTHAGE	LIMESTONE	-	570.0	
-496.0	CARBONDALE	HERRIN	COAL	-	1000.0	
-566.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1070.0	

MAPID: 19100732000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.573665 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.511297 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 478.0 **LOGGED (FT.):** 1037.0 **LOG TYPE:** Electric Log
SOURCE: RYAN OIL CO., ETAL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-64.0	BOND	CARTHAGE	LIMESTONE	-	542.0	
-482.0	CARBONDALE	HERRIN	COAL	-	960.0	
-556.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1034.0	

MAPID: 19106523000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.566717 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.50948 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 515.0 **LOGGED (FT.):** 1092.5 **LOG TYPE:** Electric Log
SOURCE: FALESE OIL CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-575.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1090.0	

MAPID: 19103683000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.561892 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.513044 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 515.0 **LOGGED (FT.):** 1111.0 **LOG TYPE:** Electric Log
SOURCE: PARKER G C **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-592.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1107.0	

MAPID: 19104162000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.557084 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.512866 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 521.0 **LOGGED (FT.):** 1133.0 **LOG TYPE:** Electric Log
SOURCE: KIRBY PETROLEUM **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-120.0	BOND	CARTHAGE	LIMESTONE	-	641.0	
-546.0	CARBONDALE	HERRIN	COAL	-	1067.0	
-609.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1130.0	

MAPID: 19100446000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 660' E line of SW SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.5344 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.506481 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 512.0 **LOGGED (FT.):** 3276.0 **LOG TYPE:** Electric Log
SOURCE: GULF REFINING CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-475.0	CARBONDALE	HERRIN	COAL	3.0	987.0	
-567.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1079.0	
-642.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1154.0	

MAPID: 19100962000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 585' E line of SE SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.529378 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.506268 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 502.0 **LOGGED (FT.):** 1126.5 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-620.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1122.0	

MAPID: 19104209000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.53801 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.504797 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 513.0 **LOGGED (FT.):** 1134.0 **LOG TYPE:** Electric Log
SOURCE: BLACK & BLACK OIL CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-107.0	BOND	CARTHAGE	LIMESTONE	-	620.0	
-552.0	CARBONDALE	HERRIN	COAL	-	1065.0	
-618.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1131.0	

MAPID: 19104494000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 22 **QUARTERS/FOOTAGES:** 710' S line, 1433' E line of SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.513651 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.504964 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 486.0 **LOGGED (FT.):** 1119.0 **LOG TYPE:** Electric Log
SOURCE: SHELL OIL COMPANY **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-114.0	BOND	CARTHAGE	LIMESTONE	-	600.0	
-562.0	CARBONDALE	HERRIN	COAL	-	1048.0	
-630.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1116.0	

MAPID: 19104501000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 22 **QUARTERS/FOOTAGES:** 1002' S line, 670' W line of NW SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.524934 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.509781 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 509.0 **LOGGED (FT.):** 1150.0 **LOG TYPE:** Electric Log
SOURCE: UNITED PRODUCING **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-638.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1147.0	

MAPID: 19100311000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' S line, 660' W line of SE SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.501571 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.503491 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 466.0 **LOGGED (FT.):** 1130.0 **LOG TYPE:** Electric Log
SOURCE: WISER OIL CO., THE **WELL TYPE:** Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-660.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1126.0	

MAPID: 19100963000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' N line, 660' E line of NW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.501348 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.516214 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 459.0 **LOGGED (FT.):** 1164.5 **LOG TYPE:** Electric Log
SOURCE: DAYTON WARD W **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-703.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1162.0	

MAPID: 19100964000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' S line, 680' W line of NW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.506179 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.510927 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 478.0 **LOGGED (FT.):** 1152.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-670.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1148.0	

MAPID: 19103204000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' S line, 660' E line of NE SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.501436 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.507123 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 461.0 **LOGGED (FT.):** 1141.0 **LOG TYPE:** Electric Log
SOURCE: CALDWELL, MARTIN H. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-151.0	BOND	CARTHAGE	LIMESTONE	-	612.0	
-609.0	CARBONDALE	HERRIN	COAL	-	1070.0	
-677.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1138.0	

MAPID: 19100729000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 25 **QUARTERS/FOOTAGES:** 0' N line, 330' E line of NW SE
QUADRANGLE: GEFF **LONGITUDE:** -88.476792 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.494558 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 493.0 **LOGGED (FT.):** 1124.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-103.0	BOND	CARTHAGE	LIMESTONE	-	596.0	
-554.0	CARBONDALE	HERRIN	COAL	-	1047.0	
-628.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1121.0	

MAPID: 19104513000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SE
QUADRANGLE: GEFF **LONGITUDE:** -88.474531 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.488127 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 504.0 **LOGGED (FT.):** 1100.0 **LOG TYPE:** Electric Log
SOURCE: MCKELVY & SIPOHA DRLG. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-593.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1097.0	

MAPID: 19100315000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 26 **QUARTERS/FOOTAGES:** 338' S line, 686' W line of NW NW
QUADRANGLE: CRISP **LONGITUDE:** -88.506202 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.499997 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 486.0 **LOGGED (FT.):** 1120.0 **LOG TYPE:** Electric Log
SOURCE: UNITED PRODUCING **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-108.0	BOND	CARTHAGE	LIMESTONE	-	594.0	
-566.0	CARBONDALE	HERRIN	COAL	-	1052.0	
-631.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1117.0	

MAPID: 19104514000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 660' E line of SE
QUADRANGLE: GEFF **LONGITUDE:** -88.492111 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.4939 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 475.0 **LOGGED (FT.):** 1106.0 **LOG TYPE:** Electric Log
SOURCE: BRAUN, WILBERT R. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-627.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1102.0	

MAPID: 19100319000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' S line, 660' E line of SW
QUADRANGLE: CRISP **LONGITUDE:** -88.520368 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.489447 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 462.0 **LOGGED (FT.):** 1059.0 **LOG TYPE:** Electric Log
SOURCE: WISER OIL CO., THE **WELL TYPE:** Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-593.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1055.0	

MAPID: 19100328000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' S line, 660' E line of NE
QUADRANGLE: CRISP **LONGITUDE:** -88.510937 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.496459 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 1108.0 **LOG TYPE:** Electric Log
SOURCE: WISER OIL CO., THE **WELL TYPE:** Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-614.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1104.0	

MAPID: 19104535000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 671' W line of SE NW
QUADRANGLE: CRISP **LONGITUDE:** -88.520347 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.498632 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 493.0 **LOGGED (FT.):** 1087.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-74.0	BOND	CARTHAGE	LIMESTONE	-	567.0	
-520.0	CARBONDALE	HERRIN	COAL	-	1013.0	
-590.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1083.0	

MAPID: 19103141000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW
QUADRANGLE: CRISP **LONGITUDE:** -88.538113 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.490117 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 1103.0 **LOG TYPE:** Electric Log
SOURCE: PEARSON, CHRIS SR., EST. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-594.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1099.0	

MAPID: 19106656000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 28 **QUARTERS/FOOTAGES:** 335' S line, 681' W line of NW NE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.534484 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.500993 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 514.0 **LOGGED (FT.):** 1126.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-89.0	BOND	CARTHAGE	LIMESTONE	-	603.0	
-532.0	CARBONDALE	HERRIN	COAL	-	1046.0	
-608.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1122.0	

MAPID: 19100728000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SE
QUADRANGLE: CRISP **LONGITUDE:** -88.547557 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.490494 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 515.0 **LOGGED (FT.):** 1150.5 **LOG TYPE:** Electric Log
SOURCE: DUNCAN, WALTER **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-632.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1147.0	

MAPID: 19103288000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.554813 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.503629 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 516.0 **LOGGED (FT.):** 1144.0 **LOG TYPE:** Electric Log
SOURCE: MOHAWK DRILLING CO **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-108.0	BOND	CARTHAGE	LIMESTONE	-	624.0	
-549.0	CARBONDALE	HERRIN	COAL	-	1065.0	
-624.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1140.0	

MAPID: 19100727000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 30 **QUARTERS/FOOTAGES:** 1336' N line, 1378' W line of NW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.580661 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.501229 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 1082.0 **LOG TYPE:** Electric Log
SOURCE: DEEP ROCK OIL CORP **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-86.0	BOND	CARTHAGE	LIMESTONE	-	586.0	
-508.0	CARBONDALE	HERRIN	COAL	-	1008.0	
-579.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1079.0	

MAPID: 19103723000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SE
QUADRANGLE: CRISP **LONGITUDE:** -88.550122 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.477804 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 493.0 **LOGGED (FT.):** 1138.0 **LOG TYPE:** Electric Log
SOURCE: THORPE ROBERT E **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-640.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1133.0	

MAPID: 19107465000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 32 **QUARTERS/FOOTAGES:** 40' S line, 45' E line of NW
QUADRANGLE: CRISP **LONGITUDE:** -88.556186 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.482718 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 1153.0 **LOG TYPE:** Electric Log
SOURCE: KINGWOOD OIL CO **WELL TYPE:** Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-125.0	BOND	CARTHAGE	LIMESTONE	-	630.0	
-578.0	CARBONDALE	HERRIN	COAL	4.0	1083.0	
-645.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1150.0	

MAPID: 19103062000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 33 **QUARTERS/FOOTAGES:** 990' S line, 330' E line of SW
QUADRANGLE: CRISP **LONGITUDE:** -88.538229 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.477291 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 492.0 **LOGGED (FT.):** 1110.0 **LOG TYPE:** Electric Log
SOURCE: PEARSON, CHRIS SR., EST. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-88.0	BOND	CARTHAGE	LIMESTONE	-	580.0	
-541.0	CARBONDALE	HERRIN	COAL	-	1033.0	
-615.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1107.0	

MAPID: 19103174000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 33 **QUARTERS/FOOTAGES:** 305' S line, 305' E line of NE NW
QUADRANGLE: CRISP **LONGITUDE:** -88.538058 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.486384 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 484.0 **LOGGED (FT.):** 1090.0 **LOG TYPE:** Drillers Log
SOURCE: PEARSON, CHRIS SR., EST. **WELL TYPE:** Unsuccessful or Unknown Results
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-602.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1086.0	

MAPID: 19100349000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 34 **QUARTERS/FOOTAGES:** 2286' N line, 660' W line of NE
QUADRANGLE: CRISP **LONGITUDE:** -88.515802 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.482042 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 467.0 **LOGGED (FT.):** 1063.0 **LOG TYPE:** Electric Log
SOURCE: UNITED PRODUCING **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-63.0	BOND	CARTHAGE	LIMESTONE	-	530.0	
-525.0	CARBONDALE	HERRIN	COAL	-	992.0	
-593.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1060.0	

MAPID: 19100355000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 34 **QUARTERS/FOOTAGES:** 337' S line, 660' W line of SW
QUADRANGLE: CRISP **LONGITUDE:** -88.525333 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.474958 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 469.0 **LOGGED (FT.):** 1082.0 **LOG TYPE:** Electric Log
SOURCE: GULF REFINING CO. **WELL TYPE:** Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-610.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1079.0	

MAPID: 19100374000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' N line, 660' E line of SE
QUADRANGLE: GEFF **LONGITUDE:** -88.492359 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.479115 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 471.0 **LOGGED (FT.):** 1094.0 **LOG TYPE:** Electric Log
SOURCE: WISER OIL CO., THE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-619.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1090.0	

MAPID: 19106702000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SW
QUADRANGLE: CRISP **LONGITUDE:** -88.502861 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.479617 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 436.0 **LOGGED (FT.):** 1078.0 **LOG TYPE:** Electric Log
SOURCE: SELF, EDDIE M. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-106.0	BOND	CARTHAGE	LIMESTONE	-	542.0	
-544.0	CARBONDALE	HERRIN	COAL	-	980.0	
-640.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1076.0	

MAPID: 19100376000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 36 **QUARTERS/FOOTAGES:** 659' N line, 419' E line of NW NE
QUADRANGLE: GEFF **LONGITUDE:** -88.477194 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.485412 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 509.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: OLSON OIL CO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	SPRINGFIELD	COAL	0.0		

MAPID: 19100377000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 36 **QUARTERS/FOOTAGES:** 666' S line, 921' W line of NE
QUADRANGLE: GEFF **LONGITUDE:** -88.477274 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.481751 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 515.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: SHELL OIL COMPANY **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	SPRINGFIELD	COAL	0.0		

MAPID: 19100378000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 36 **QUARTERS/FOOTAGES:** 660' S line, 165' W line of NE
QUADRANGLE: GEFF **LONGITUDE:** -88.47993 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.481736 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 511.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: WISER OIL CO., THE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	SPRINGFIELD	COAL	0.0		

MAPID: 19100379000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 36 **QUARTERS/FOOTAGES:** 660' N line, 330' W line of SE
QUADRANGLE: GEFF **LONGITUDE:** -88.479409 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.478093 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 520.0 **LOGGED (FT.):** 1100.0 **LOG TYPE:** Electric Log
SOURCE: OLSON DRLG CO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-576.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1096.0	

MAPID: 19101271000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 36 **QUARTERS/FOOTAGES:** 669' N line, 239' W line of NE NE
QUADRANGLE: GEFF **LONGITUDE:** -88.474883 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.485369 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 509.0 **LOGGED (FT.):** 1093.5 **LOG TYPE:** Electric Log
SOURCE: WISER OIL CO., THE **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-581.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1090.0	

MAPID: 19105179000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 36 **QUARTERS/FOOTAGES:** 810' N line, 330' E line of NW SE
QUADRANGLE: GEFF **LONGITUDE:** -88.476992 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.477677 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 518.0 **LOGGED (FT.):** 1101.0 **LOG TYPE:** Electric Log
SOURCE: SHELL OIL COMPANY **WELL TYPE:** Service Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-64.0	BOND	CARTHAGE	LIMESTONE	-	582.0	
-502.0	CARBONDALE	HERRIN	COAL	-	1020.0	
-581.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1099.0	

MAPID: 19108217000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 6E **SECTION:** 36 **QUARTERS/FOOTAGES:** 670' N line, 330' E line of NW SW
QUADRANGLE: GEFF **LONGITUDE:** -88.486473 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.478066 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 489.0 **LOGGED (FT.):** 1080.0 **LOG TYPE:** Electric Log
SOURCE: FARRAR, FLETCHER F. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-588.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1077.0	

MAPID: 19106742000C **VERSION:** 1 **PROJECT:** CGT-SCILL

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

QUADRANGLE: CISNE **LONGITUDE:** -88.382406 **GEOLOGIST:** C TREWORGY

CONFIDENTIAL: N **LATITUDE:** 38.552715 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 405.0 **LOGGED (FT.):** 978.0 **LOG TYPE:** Electric Log

SOURCE: MCKELVY & SIPOHA DRLG. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-569.0	CARBONDALE	SPRINGFIELD	COAL	4.0	974.0	

MAPID: 19107514000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SE

QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.370985 **GEOLOGIST:** C TREWORGY

CONFIDENTIAL: N **LATITUDE:** 38.545215 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 408.0 **LOGGED (FT.):** 1027.0 **LOG TYPE:** Electric Log

SOURCE: FARRAR OIL CO., INC. **WELL TYPE:** Plugged and/or Abandoned

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-122.0	BOND	CARTHAGE	LIMESTONE	-	530.0	
-553.0	CARBONDALE	HERRIN	COAL	-	961.0	
-616.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1024.0	

MAPID: 19100443000C **VERSION:** 1 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 2 **QUARTERS/FOOTAGES:** 665' S line, 1966' W line of SW

QUADRANGLE: CISNE **LONGITUDE:** -88.395034 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.546436 **DATE COLLECTED:** 11 / 0 / 1942

SURFACE ELEVATION (FT.): 444.0 **LOGGED (FT.):** 1210.0 **LOG TYPE:** Survey Sample Study

SOURCE: PURE OIL CO. A-1 **WELL TYPE:** Dry Hole

COMMENT: COAL DIVISION CONTROL WELL #108

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
444.0			UNKNOWN	800.0	0.0	
-356.0			SHALE	153.0	800.0	
-509.0			LIMESTONE	2.0	953.0	
-511.0			SHALE	27.0	955.0	
-538.0			BLACK SHALE	2.0	982.0	
-540.0	CARBONDALE	DANVILLE	COAL	3.0	984.0	APPROXIMATE THICKNESS
-543.0	CARBONDALE		UNDERCLAY	1.0	987.0	
-544.0	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	988.0	
-550.0	CARBONDALE		SHALE	6.0	994.0	
-556.0	CARBONDALE	ANVIL ROCK	SANDSTONE	28.0	1000.0	
-584.0	CARBONDALE		BLACK SHALE	1.0	1028.0	
-585.0	CARBONDALE		COAL	1.0	1029.0	APPROXIMATE THICKNESS
-586.0	CARBONDALE		SHALE	14.0	1030.0	
-600.0	CARBONDALE	ANNA	BLACK SHALE	3.0	1044.0	
-603.0	CARBONDALE	HERRIN	COAL	5.0	1047.0	
-608.0	CARBONDALE		UNDERCLAY	2.0	1052.0	
-610.0	CARBONDALE		SILTSTONE	50.0	1054.0	
-660.0	CARBONDALE		SHALE	34.0	1104.0	
-694.0	CARBONDALE	ST. DAVID	LIMESTONE	2.0	1138.0	
-696.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	1140.0	
-698.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1142.0	APPROXIMATE THICKNESS
-701.0	CARBONDALE		SHALE	23.0	1145.0	
-724.0	CARBONDALE		BLACK SHALE	2.0	1168.0	
-726.0	CARBONDALE		COAL	4.0	1170.0	APPROXIMATE THICKNESS
-730.0	CARBONDALE		SHALE	36.0	1174.0	

MAPID: 19100443000C **VERSION:** 2 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 2 **QUARTERS/FOOTAGES:** 665' S line, 1966' W line of SW

QUADRANGLE: CISNE **LONGITUDE:** -88.395034 **GEOLOGIST:** HINES

CONFIDENTIAL: N **LATITUDE:** 38.546436 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 2968.0 **LOG TYPE:** Survey Sample Study

SOURCE: PURE OIL CO. **WELL TYPE:** Oil and Gas Test

COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 19103623000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW SE
QUADRANGLE: CISNE **LONGITUDE:** -88.389325 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.549134 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 413.0 **LOGGED (FT.):** 996.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-110.0	BOND	CARTHAGE	LIMESTONE	-	523.0	
-516.0	CARBONDALE	HERRIN	COAL	-	929.0	
-580.0	CARBONDALE	SPRINGFIELD	COAL	3.0	993.0	

MAPID: 19104562000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 2 **QUARTERS/FOOTAGES:** 1660' S line, 980' W line of SW
QUADRANGLE: CISNE **LONGITUDE:** -88.398472 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.549188 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 436.0 **LOGGED (FT.):** 982.5 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Service Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-542.0	CARBONDALE	SPRINGFIELD	COAL	4.5	978.0	

MAPID: 19104584000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NW NE
QUADRANGLE: CISNE **LONGITUDE:** -88.391526 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.558167 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 411.0 **LOGGED (FT.):** 1021.0 **LOG TYPE:** Electric Log
SOURCE: MYERS JOHN W **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-606.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1017.0	

MAPID: 19104585000C **VERSION:** 1 **PROJECT:** IBC XSECT

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' S line, 660' E line of NE NE
QUADRANGLE: CISNE **LONGITUDE:** -88.385872 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.556343 **DATE COLLECTED:** 5 / 0 / 1954
SURFACE ELEVATION (FT.): 407.0 **LOGGED (FT.):** 1170.0 **LOG TYPE:** Company Sample Study
SOURCE: **WELL TYPE:** Producer-Oil
COMMENT: TOPS PICKED FOR ISGS 11:30 X-SECTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-523.0	CARBONDALE	HERRIN	COAL	-	930.0	
-763.0	CARBONDALE	COLCHESTER	COAL	-	1170.0	

MAPID: 19107398000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NW NW
QUADRANGLE: CISNE **LONGITUDE:** -88.40067 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.558235 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 448.0 **LOGGED (FT.):** 1088.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-636.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1084.0	

MAPID: 19104591000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NW
QUADRANGLE: CISNE **LONGITUDE:** -88.416702 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.556514 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 448.0 **LOGGED (FT.):** 1116.0 **LOG TYPE:** Electric Log
SOURCE: JORGENSEN F A ETAL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-664.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1112.0	

MAPID: 19104597000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 3 **QUARTERS/FOOTAGES:** 991' S line, 2279' E line
QUADRANGLE: CISNE **LONGITUDE:** -88.409934 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.547312 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 450.0 **LOGGED (FT.):** 1099.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-645.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1095.0	

MAPID: 19104608000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 3 **QUARTERS/FOOTAGES:** 2381' N line, 2288' E line
QUADRANGLE: CISNE **LONGITUDE:** -88.409887 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.552673 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 448.0 **LOGGED (FT.):** 1116.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-174.0	BOND	CARTHAGE	LIMESTONE	-	622.0	
-604.0	CARBONDALE	HERRIN	COAL	-	1052.0	
-665.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1113.0	

MAPID: 19107370000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 3 **QUARTERS/FOOTAGES:** 360' N line, 330' W line of NE NE
QUADRANGLE: CISNE **LONGITUDE:** -88.405189 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.558228 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 448.0 **LOGGED (FT.):** 1101.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-650.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1098.0	

MAPID: 19100983000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 4 **QUARTERS/FOOTAGES:** 591' N line, 561' E line
QUADRANGLE: CISNE **LONGITUDE:** -88.422082 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.557696 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 435.0 **LOGGED (FT.):** 1107.0 **LOG TYPE:** Electric Log
SOURCE: RUDY, J. W. COMPANY **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-667.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1102.0	

MAPID: 19103405000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW SW
QUADRANGLE: CISNE **LONGITUDE:** -88.437479 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.547579 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 453.0 **LOGGED (FT.):** 1140.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-683.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1136.0	

MAPID: 19103646000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: CISNE **LONGITUDE:** -88.428228 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.55113 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 434.0 **LOGGED (FT.):** 1119.0 **LOG TYPE:** Electric Log
SOURCE: KINGWOOD OIL CO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-182.0	BOND	CARTHAGE	LIMESTONE	-	616.0	
-619.0	CARBONDALE	HERRIN	COAL	-	1053.0	
-680.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1114.0	

MAPID: 19101847000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 5 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NW
QUADRANGLE: CISNE **LONGITUDE:** -88.451344 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.553338 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 465.0 **LOGGED (FT.):** 1134.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-155.0	BOND	CARTHAGE	LIMESTONE	-	620.0	
-597.0	CARBONDALE	HERRIN	COAL	-	1062.0	
-665.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1130.0	

MAPID: 19100984000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NE
QUADRANGLE: CISNE **LONGITUDE:** -88.462921 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.555383 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 470.0 **LOGGED (FT.):** 1160.0 **LOG TYPE:** Electric Log
SOURCE: COLLINS BROTHERS OIL CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-170.0	BOND	CARTHAGE	LIMESTONE	-	640.0	
-622.0	CARBONDALE	HERRIN	COAL	-	1092.0	
-686.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1156.0	

MAPID: 19100985000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: CISNE **LONGITUDE:** -88.465638 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.537469 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 475.0 **LOGGED (FT.):** 1170.0 **LOG TYPE:** Electric Log
SOURCE: CARTER OIL COMPANY **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-170.0	BOND	CARTHAGE	LIMESTONE	-	645.0	
-624.0	CARBONDALE	HERRIN	COAL	-	1099.0	
-692.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1167.0	

MAPID: 19108108000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE
QUADRANGLE: CISNE **LONGITUDE:** -88.458648 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.53908 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 473.0 **LOGGED (FT.):** 1172.0 **LOG TYPE:** Electric Log
SOURCE: REPUBLIC OIL CO., INC. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-696.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1169.0	

MAPID: 19101881000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' S line, 330' E line
QUADRANGLE: CISNE **LONGITUDE:** -88.440032 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.531213 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 473.0 **LOGGED (FT.):** 1131.5 **LOG TYPE:** Electric Log
SOURCE: BOLING-LEVINE, ETAL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-654.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1127.0	

MAPID: 19103205000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE
QUADRANGLE: CISNE **LONGITUDE:** -88.439938 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.538485 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 463.0 **LOGGED (FT.):** 1128.0 **LOG TYPE:** Electric Log
SOURCE: KIME GRANT W **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-157.0	BOND	CARTHAGE	LIMESTONE	-	620.0	
-601.0	CARBONDALE	HERRIN	COAL	-	1064.0	
-662.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1125.0	

MAPID: 19103044000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW SW
QUADRANGLE: CISNE **LONGITUDE:** -88.435406 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.534752 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 463.0 **LOGGED (FT.):** 1128.0 **LOG TYPE:** Electric Log
SOURCE: ATHENE DEV. CO., INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-661.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1124.0	

MAPID: 19103290000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE NE
QUADRANGLE: CISNE **LONGITUDE:** -88.423787 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.541847 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 453.0 **LOGGED (FT.):** 1107.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-651.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1104.0	

MAPID: 19104613000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SE
QUADRANGLE: CISNE **LONGITUDE:** -88.426214 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.536409 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 463.0 **LOGGED (FT.):** 1100.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-167.0	BOND	CARTHAGE	LIMESTONE	-	630.0	
-572.0	CARBONDALE	HERRIN	COAL	-	1035.0	
-631.0	CARBONDALE	SPRINGFIELD	COAL	6.0	1094.0	

MAPID: 19104618000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SW
QUADRANGLE: CISNE **LONGITUDE:** -88.414699 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.536351 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 448.0 **LOGGED (FT.):** 1113.0 **LOG TYPE:** Electric Log
SOURCE: CULLUM & LAWHEAD **WELL TYPE:** Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-170.0	BOND	CARTHAGE	LIMESTONE	-	618.0	
-595.0	CARBONDALE	HERRIN	COAL	-	1043.0	
-662.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1110.0	

MAPID: 19104620000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NE
QUADRANGLE: CISNE **LONGITUDE:** -88.407719 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.543663 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 446.0 **LOGGED (FT.):** 1109.5 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-659.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1105.0	

MAPID: 19107404000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NE
QUADRANGLE: CISNE **LONGITUDE:** -88.403134 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.543672 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 451.0 **LOGGED (FT.):** 1107.0 **LOG TYPE:** Electric Log
SOURCE: MURVIN, JOHN B. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-653.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1104.0	

MAPID: 19100411000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 11 **QUARTERS/FOOTAGES:** 666' N line, 1962' W line of NW
QUADRANGLE: CISNE **LONGITUDE:** -88.395087 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.542762 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 437.0 **LOGGED (FT.):** 1044.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-602.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1039.0	

MAPID: 19104063000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' S line, 330' W line
QUADRANGLE: CISNE **LONGITUDE:** -88.400981 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.531006 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 427.0 **LOGGED (FT.):** 1069.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-639.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1066.0	

MAPID: 19104626000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SE NW
QUADRANGLE: CISNE **LONGITUDE:** -88.394046 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.538259 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 417.0 **LOGGED (FT.):** 1045.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-133.0	BOND	CARTHAGE	LIMESTONE	-	550.0	
-556.0	CARBONDALE	HERRIN	COAL	-	973.0	
-623.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1040.0	

MAPID: 19100993000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.368766 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.537913 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 399.0 **LOGGED (FT.):** 1054.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-153.0	BOND	CARTHAGE	LIMESTONE	-	552.0	
-595.0	CARBONDALE	HERRIN	COAL	-	994.0	
-650.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1049.0	

MAPID: 19104673000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.368871 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.530669 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 438.0 **LOGGED (FT.):** 1081.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-638.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1076.0	

MAPID: 19104685000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NW
QUADRANGLE: CISNE **LONGITUDE:** -88.377866 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.543568 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 415.0 **LOGGED (FT.):** 1011.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-592.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1007.0	

MAPID: 19100774000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 13 **QUARTERS/FOOTAGES:** 279' S line, 330' W line of SE NW
QUADRANGLE: CISNE **LONGITUDE:** -88.378225 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.523435 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 440.0 **LOGGED (FT.):** 1110.0 **LOG TYPE:** Electric Log
SOURCE: IL MID CONTINENT CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-160.0	BOND	CARTHAGE	LIMESTONE	-	600.0	
-600.0	CARBONDALE	HERRIN	COAL	-	1040.0	
-666.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1106.0	

MAPID: 19104066000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.369103 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.519763 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 418.0 **LOGGED (FT.):** 1079.0 **LOG TYPE:** Electric Log
SOURCE: NEW IL MID CONT. OIL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-657.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1075.0	

MAPID: 19104690000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NW
QUADRANGLE: CISNE **LONGITUDE:** -88.380442 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.529111 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 451.0 **LOGGED (FT.):** 1091.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-635.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1086.0	

MAPID: 19104068000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NW
QUADRANGLE: CISNE **LONGITUDE:** -88.401006 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.529181 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 435.0 **LOGGED (FT.):** 1077.5 **LOG TYPE:** Electric Log
SOURCE: WHALEY OIL CORP **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-638.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1073.0	

MAPID: 19104213000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' N line, 330' E line
QUADRANGLE: CISNE **LONGITUDE:** -88.385052 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.529167 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 451.0 **LOGGED (FT.):** 1087.5 **LOG TYPE:** Electric Log
SOURCE: MURVIN, JOHN B. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-633.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1084.0	

MAPID: 19104699000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SW
QUADRANGLE: CISNE **LONGITUDE:** -88.396569 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.519951 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 455.0 **LOGGED (FT.):** 1105.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-136.0	BOND	CARTHAGE	LIMESTONE	-	591.0	
-581.0	CARBONDALE	HERRIN	COAL	-	1036.0	
-645.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1100.0	

MAPID: 19101004000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' N line, 330' E line
QUADRANGLE: CISNE **LONGITUDE:** -88.403326 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.52917 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 445.0 **LOGGED (FT.):** 1084.0 **LOG TYPE:** Electric Log
SOURCE: OLSON DRLG CO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-635.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1080.0	

MAPID: 19104069000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW SE
QUADRANGLE: CISNE **LONGITUDE:** -88.410422 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.518127 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 450.0 **LOGGED (FT.):** 1085.0 **LOG TYPE:** Electric Log
SOURCE: SLAGTER ARTHUR J JR **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-631.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1081.0	

MAPID: 19103003000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 16 **QUARTERS/FOOTAGES:** 2640' S line, 660' W line
QUADRANGLE: CISNE **LONGITUDE:** -88.436793 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.523055 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 463.0 **LOGGED (FT.):** 1100.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-140.0	BOND	CARTHAGE	LIMESTONE	-	603.0	
-567.0	CARBONDALE	HERRIN	COAL	-	1030.0	
-632.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1095.0	

MAPID: 19103696000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 16 **QUARTERS/FOOTAGES:** 780' N line, 500' E line of SW SW
QUADRANGLE: CISNE **LONGITUDE:** -88.436451 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.517218 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 463.0 **LOGGED (FT.):** 1130.0 **LOG TYPE:** Electric Log
SOURCE: FULK, PERRY **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-167.0	BOND	CARTHAGE	LIMESTONE	-	630.0	
-594.0	CARBONDALE	HERRIN	COAL	-	1057.0	
-663.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1126.0	

MAPID: 19104081000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' N line, 330' E line
QUADRANGLE: CISNE **LONGITUDE:** -88.421767 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.529004 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 456.0 **LOGGED (FT.):** 1108.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-648.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1104.0	

MAPID: 19104718000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 16 **QUARTERS/FOOTAGES:** 660' N line, 330' W line of NE
QUADRANGLE: CISNE **LONGITUDE:** -88.428629 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.528234 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 462.0 **LOGGED (FT.):** 1113.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-648.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1110.0	

MAPID: 19100396000C **VERSION:** 1 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 17 **QUARTERS/FOOTAGES:** 660' N line, 330' E line of NE
QUADRANGLE: CISNE **LONGITUDE:** -88.440104 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.52848 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3240.0 **LOG TYPE:** Survey Sample Study
SOURCE: SHELL OIL COMPANY **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: 19101009000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE
QUADRANGLE: CISNE **LONGITUDE:** -88.440303 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.52216 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 468.0 **LOGGED (FT.):** 1106.0 **LOG TYPE:** Electric Log
SOURCE: BREHM, C. E. DRLG.&PROD. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-634.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1102.0	

MAPID: 19103025000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SE
QUADRANGLE: CISNE **LONGITUDE:** -88.444969 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.522279 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 465.0 **LOGGED (FT.):** 1105.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-570.0	CARBONDALE	HERRIN	COAL	-	1035.0	
-635.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1100.0	

MAPID: 19103681000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NW
QUADRANGLE: CISNE **LONGITUDE:** -88.454184 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.527996 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 467.0 **LOGGED (FT.):** 1121.0 **LOG TYPE:** Electric Log
SOURCE: COMMONWEALTH PETRO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-650.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1117.0	

MAPID: 19104723000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NE
QUADRANGLE: CISNE **LONGITUDE:** -88.447182 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.527797 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 467.0 **LOGGED (FT.):** 1111.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-641.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1108.0	

MAPID: 19101010000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 18 **QUARTERS/FOOTAGES:** NW NE
QUADRANGLE: CISNE **LONGITUDE:** -88.464657 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.52905 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 472.0 **LOGGED (FT.):** 1149.0 **LOG TYPE:** Electric Log
SOURCE: CARTER OIL COMPANY **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-672.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1144.0	
-154.0	BOND	CARTHAGE	LIMESTONE	-	626.0	
-604.0	CARBONDALE	HERRIN	COAL	-	1076.0	

MAPID: 19103418000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NE
QUADRANGLE: CISNE **LONGITUDE:** -88.463727 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.515356 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 475.0 **LOGGED (FT.):** 1146.0 **LOG TYPE:** Electric Log
SOURCE: RAPPE, THOMAS C. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-160.0	BOND	CARTHAGE	LIMESTONE	-	635.0	
-600.0	CARBONDALE	HERRIN	COAL	-	1075.0	
-669.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1144.0	

MAPID: 19103265000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NW
QUADRANGLE: CISNE **LONGITUDE:** -88.449863 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.513318 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 456.0 **LOGGED (FT.):** 1104.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-644.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1100.0	

MAPID: 19103736000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NE
QUADRANGLE: CISNE **LONGITUDE:** -88.443013 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.509581 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 458.0 **LOGGED (FT.):** 1118.0 **LOG TYPE:** Electric Log
SOURCE: COMMONWEALTH PETRO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-162.0	BOND	CARTHAGE	LIMESTONE	-	620.0	
-592.0	CARBONDALE	HERRIN	COAL	-	1050.0	
-658.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1116.0	

MAPID: 19103670000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW NW
QUADRANGLE: CISNE **LONGITUDE:** -88.438328 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.51128 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 446.0 **LOGGED (FT.):** 1109.0 **LOG TYPE:** Electric Log
SOURCE: COMMONWEALTH PETRO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-659.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1105.0	

MAPID: 19103688000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SE
QUADRANGLE: CISNE **LONGITUDE:** -88.424543 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.503811 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 454.0 **LOGGED (FT.):** 1101.0 **LOG TYPE:** Electric Log
SOURCE: N V DUNCAN DRILLING **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-145.0	BOND	CARTHAGE	LIMESTONE	-	599.0	
-572.0	CARBONDALE	HERRIN	COAL	-	1026.0	
-645.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1099.0	

MAPID: 19103761000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW
QUADRANGLE: CISNE **LONGITUDE:** -88.419821 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.509165 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 445.0 **LOGGED (FT.):** 1090.0 **LOG TYPE:** Electric Log
SOURCE: MURVIN, JOHN B. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-151.0	BOND	CARTHAGE	LIMESTONE	-	596.0	
-574.0	CARBONDALE	HERRIN	COAL	-	1019.0	
-642.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1087.0	

MAPID: 19100768000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NW
QUADRANGLE: CISNE **LONGITUDE:** -88.401236 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.512634 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 1112.0 **LOG TYPE:** Electric Log
SOURCE: BREHM, C. E. DRLG.&PROD. **WELL TYPE:** Service Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-647.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1107.0	

MAPID: 19101013000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' N line, 330' W line
QUADRANGLE: CISNE **LONGITUDE:** -88.401201 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.514409 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 457.0 **LOGGED (FT.):** 1090.0 **LOG TYPE:** Electric Log
SOURCE: STRICKLAND, FRANK L. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-628.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1085.0	

MAPID: 19104073000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SE
QUADRANGLE: CISNE **LONGITUDE:** -88.387685 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.507248 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 441.0 **LOGGED (FT.):** 1107.0 **LOG TYPE:** Electric Log
SOURCE: DUNCAN, N. V., EST. OF **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-146.0	BOND	CARTHAGE	LIMESTONE	-	587.0	
-575.0	CARBONDALE	HERRIN	COAL	-	1016.0	
-664.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1105.0	

MAPID: 19100767000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.366952 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.514267 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 439.0 **LOGGED (FT.):** 1083.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-159.0	BOND	CARTHAGE	LIMESTONE	-	598.0	
-586.0	CARBONDALE	HERRIN	COAL	-	1025.0	
-641.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1080.0	

MAPID: 19101015000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' N line, 330' W line
QUADRANGLE: CISNE **LONGITUDE:** -88.382983 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.514525 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 443.0 **LOGGED (FT.):** 1111.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-157.0	BOND	CARTHAGE	LIMESTONE	-	600.0	
-577.0	CARBONDALE	HERRIN	COAL	-	1020.0	
-666.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1109.0	

MAPID: 19101016000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' N line, 380' W line of NE SW
QUADRANGLE: GEFF **LONGITUDE:** -88.378535 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.492515 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 437.0 **LOGGED (FT.):** 1098.5 **LOG TYPE:** Electric Log
SOURCE: MACDONELL CO. OF LIMA **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-659.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1096.0	

MAPID: 19101017000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' N line, 330' E line
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.367234 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.499592 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 441.0 **LOGGED (FT.):** 1123.0 **LOG TYPE:** Electric Log
SOURCE: CALVERT DRILLING, INC. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-165.0	BOND	CARTHAGE	LIMESTONE	-	606.0	
-592.0	CARBONDALE	HERRIN	COAL	-	1033.0	
-680.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1121.0	

MAPID: 19101018000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NW
QUADRANGLE: GEFF **LONGITUDE:** -88.396994 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.494462 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 448.0 **LOGGED (FT.):** 1064.0 **LOG TYPE:** Electric Log
SOURCE: DUNCAN, N. V., EST. OF **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-109.0	BOND	CARTHAGE	LIMESTONE	-	557.0	
-532.0	CARBONDALE	HERRIN	COAL	-	980.0	
-614.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1062.0	

MAPID: 19104751000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 26 **QUARTERS/FOOTAGES:** 581' N line, 654' W line
QUADRANGLE: GEFF **LONGITUDE:** -88.400348 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.499329 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 439.0 **LOGGED (FT.):** 1050.5 **LOG TYPE:** Electric Log
SOURCE: PURE OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-608.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1047.0	

MAPID: 19128786000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NE
QUADRANGLE: GEFF **LONGITUDE:** -88.38559 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.498127 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 449.0 **LOGGED (FT.):** 1100.0 **LOG TYPE:** Electric Log
SOURCE: BLACK & BLACK OIL CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-648.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1097.0	

MAPID: 19103103000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE NE
QUADRANGLE: GEFF **LONGITUDE:** -88.406194 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.498186 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 444.0 **LOGGED (FT.):** 1042.5 **LOG TYPE:** Electric Log
SOURCE: PURE OIL CO. **WELL TYPE:** Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-595.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1039.0	

MAPID: 19105186000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 990' E line of SE SE
QUADRANGLE: GEFF **LONGITUDE:** -88.406282 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.488984 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 447.0 **LOGGED (FT.):** 1039.0 **LOG TYPE:** Electric Log
SOURCE: O'BAR OIL PROD., INC. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-118.0	BOND	CARTHAGE	LIMESTONE	-	565.0	
-523.0	CARBONDALE	HERRIN	COAL	-	970.0	
-589.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1036.0	

MAPID: 19101910000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW
QUADRANGLE: GEFF **LONGITUDE:** -88.431912 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.487537 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 445.0 **LOGGED (FT.):** 1099.0 **LOG TYPE:** Electric Log
SOURCE: FLOYD & HENSON INC **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-146.0	BOND	CARTHAGE	LIMESTONE	-	591.0	
-579.0	CARBONDALE	HERRIN	COAL	-	1024.0	
-651.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1096.0	

MAPID: 19101022000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NE
QUADRANGLE: GEFF **LONGITUDE:** -88.440982 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.498678 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 1100.0 **LOG TYPE:** Electric Log
SOURCE: ABNER, RAYMOND **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-156.0	BOND	CARTHAGE	LIMESTONE	-	616.0	
-588.0	CARBONDALE	HERRIN	COAL	-	1048.0	
-637.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1097.0	

MAPID: 19103261000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW
QUADRANGLE: CISNE **LONGITUDE:** -88.468696 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.501063 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 483.0 **LOGGED (FT.):** 1115.5 **LOG TYPE:** Electric Log
SOURCE: HERNDON DRLG. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-629.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1112.0	

MAPID: 19100090000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 31 **QUARTERS/FOOTAGES:** 660' N line, 330' W line of SW
QUADRANGLE: GEFF **LONGITUDE:** -88.469925 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.478199 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 489.0 **LOGGED (FT.):** 1090.0 **LOG TYPE:** Electric Log
SOURCE: AETNA OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-84.0	BOND	CARTHAGE	LIMESTONE	-	573.0	
-507.0	CARBONDALE	HERRIN	COAL	-	996.0	
-599.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1088.0	

MAPID: 19104078000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SW
QUADRANGLE: GEFF **LONGITUDE:** -88.452958 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.476973 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 458.0 **LOGGED (FT.):** 1124.0 **LOG TYPE:** Electric Log
SOURCE: REDWINE NASH ETAL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-592.0	CARBONDALE	HERRIN	COAL	-	1050.0	
-664.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1122.0	

MAPID: 19104790000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW
QUADRANGLE: GEFF **LONGITUDE:** -88.432063 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.480296 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 451.0 **LOGGED (FT.):** 1090.0 **LOG TYPE:** Electric Log
SOURCE: FLOYD & HENSON INC **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-567.0	CARBONDALE	HERRIN	COAL	-	1018.0	
-637.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1088.0	

MAPID: 19104792000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NE
QUADRANGLE: GEFF **LONGITUDE:** -88.427357 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.485609 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 428.0 **LOGGED (FT.):** 1059.0 **LOG TYPE:** Electric Log
SOURCE: SLAGTER ARTHUR J JR **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-628.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1056.0	

MAPID: 19104799000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SW
QUADRANGLE: GEFF **LONGITUDE:** -88.432186 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.474861 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 453.0 **LOGGED (FT.):** 1103.5 **LOG TYPE:** Electric Log
SOURCE: SLAGTER ARTHUR J JR **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-647.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1100.0	

MAPID: 19101273000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' S line, 330' E line
QUADRANGLE: GEFF **LONGITUDE:** -88.404397 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.472688 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 482.0 **LOGGED (FT.):** 1078.0 **LOG TYPE:** Electric Log
SOURCE: NATION OIL CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-592.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1074.0	

MAPID: 19103284000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NE
QUADRANGLE: GEFF **LONGITUDE:** -88.408817 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.481725 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 438.0 **LOGGED (FT.):** 1031.0 **LOG TYPE:** Electric Log
SOURCE: PURE OIL CO. **WELL TYPE:** Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-113.0	BOND	CARTHAGE	LIMESTONE	-	551.0	
-525.0	CARBONDALE	HERRIN	COAL	-	963.0	
-590.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1028.0	

MAPID: 19103401000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW SE
QUADRANGLE: GEFF **LONGITUDE:** -88.411371 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.474554 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 457.0 **LOGGED (FT.):** 1039.5 **LOG TYPE:** Electric Log
SOURCE: NATION OIL CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-579.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1036.0	

MAPID: 19100761000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NW
QUADRANGLE: GEFF **LONGITUDE:** -88.399489 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.483473 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 418.0 **LOGGED (FT.):** 943.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-98.0	BOND	CARTHAGE	LIMESTONE	-	516.0	
-525.0	CARBONDALE	HERRIN	COAL	-	943.0	

MAPID: 19104440000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SW
QUADRANGLE: GEFF **LONGITUDE:** -88.397461 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.472619 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 456.0 **LOGGED (FT.):** 1060.5 **LOG TYPE:** Electric Log
SOURCE: EAGLE EXPLORATION **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-602.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1058.0	

MAPID: 19100760000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 7E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' S line, 330' E line
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.367461 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.472221 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 424.0 **LOGGED (FT.):** 1102.0 **LOG TYPE:** Electric Log
SOURCE: KUTLICH LEO J **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-143.0	BOND	CARTHAGE	LIMESTONE	-	567.0	
-596.0	CARBONDALE	HERRIN	COAL	-	1020.0	
-675.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1099.0	

MAPID: 19101031000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 1 **QUARTERS/FOOTAGES:** 328' S line, 330' E line of NE SW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.267483 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.544723 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 457.0 **LOGGED (FT.):** 1086.0 **LOG TYPE:** Electric Log
SOURCE: SANDERS & FYE DRILLING **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-133.0	BOND	CARTHAGE	LIMESTONE	-	590.0	
-561.0	CARBONDALE	HERRIN	COAL	-	1018.0	
-625.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1082.0	

MAPID: 19103483000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.292978 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.547449 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 463.0 **LOGGED (FT.):** 1117.0 **LOG TYPE:** Electric Log
SOURCE: NOAL PETROLEUM **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-586.0	CARBONDALE	HERRIN	COAL	-	1049.0	
-649.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1112.0	

MAPID: 19101036000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 3 **QUARTERS/FOOTAGES:** SW NW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.309956 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.550772 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 445.0 **LOGGED (FT.):** 1084.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-146.0	BOND	CARTHAGE	LIMESTONE	-	591.0	
-565.0	CARBONDALE	HERRIN	COAL	-	1010.0	
-634.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1079.0	

MAPID: 19107782000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 4 **QUARTERS/FOOTAGES:** NE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.316377 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.553025 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 466.0 **LOGGED (FT.):** 1102.0 **LOG TYPE:** Electric Log
SOURCE: UNION OIL CO. OF CA **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-141.0	BOND	CARTHAGE	LIMESTONE	-	607.0	
-557.0	CARBONDALE	HERRIN	COAL	-	1023.0	
-633.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1099.0	

MAPID: 19107427000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 5 **QUARTERS/FOOTAGES:** NW NW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.346483 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.555965 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 404.0 **LOGGED (FT.):** 1073.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-197.0	BOND	CARTHAGE	LIMESTONE	-	601.0	
-598.0	CARBONDALE	HERRIN	COAL	-	1002.0	
-666.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1070.0	

MAPID: 19104033000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 7 **QUARTERS/FOOTAGES:** 316' S line, 751' E line of NW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.360309 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.534619 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 410.0 **LOGGED (FT.):** 1067.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-155.0	BOND	CARTHAGE	LIMESTONE	-	565.0	
-586.0	CARBONDALE	HERRIN	COAL	-	996.0	
-654.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1064.0	

MAPID: 19104034000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.342687 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.530755 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 416.0 **LOGGED (FT.):** 1075.0 **LOG TYPE:** Electric Log
SOURCE: MCKELVY & SIPOHA DRLG. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-165.0	BOND	CARTHAGE	LIMESTONE	-	581.0	
-594.0	CARBONDALE	HERRIN	COAL	-	1010.0	
-654.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1070.0	

MAPID: 19100086000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 9 **QUARTERS/FOOTAGES:** 658' N line, 1635' W line
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.324477 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.53862 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 435.0 **LOGGED (FT.):** 1072.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-145.0	BOND	CARTHAGE	LIMESTONE	-	580.0	
-569.0	CARBONDALE	HERRIN	COAL	-	1004.0	
-633.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1068.0	

MAPID: 19100885000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' S line, 660' W line of NE SW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.305185 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.530388 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 455.0 **LOGGED (FT.):** 1114.0 **LOG TYPE:** Electric Log
SOURCE: LUCAS, W. O. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-153.0	BOND	CARTHAGE	LIMESTONE	-	608.0	
-585.0	CARBONDALE	HERRIN	COAL	-	1040.0	
-655.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1110.0	

MAPID: 19103691000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.283578 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.537493 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 461.0 **LOGGED (FT.):** 1125.0 **LOG TYPE:** Electric Log
SOURCE: COMMONWEALTH PETRO **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-159.0	BOND	CARTHAGE	LIMESTONE	-	620.0	
-597.0	CARBONDALE	HERRIN	COAL	-	1058.0	
-659.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1120.0	

MAPID: 19103117000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.262891 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.531984 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 469.0 **LOGGED (FT.):** 1099.0 **LOG TYPE:** Electric Log
SOURCE: CLAUSEN-KEYSER **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-134.0	BOND	CARTHAGE	LIMESTONE	-	603.0	
-561.0	CARBONDALE	HERRIN	COAL	-	1030.0	
-625.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1094.0	

MAPID: 19104954000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.274483 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.517444 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 454.0 **LOGGED (FT.):** 1088.0 **LOG TYPE:** Electric Log
SOURCE: LUCAS W D **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-143.0	BOND	CARTHAGE	LIMESTONE	-	597.0	
-564.0	CARBONDALE	HERRIN	COAL	-	1018.0	
-630.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1084.0	

MAPID: 19100400000C **VERSION:** 1 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 14 **QUARTERS/FOOTAGES:** 1984' N line, 659' W line
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.291558 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.520426 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3080.0 **LOG TYPE:** Survey Sample Study
SOURCE: PURE OIL CO. **WELL TYPE:** Oil and Gas Test
COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 19104958000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 14 **QUARTERS/FOOTAGES:** 1983' S line, 2025' E line of SE

QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.282765 **GEOLOGIST:** C TREWORGY

CONFIDENTIAL: N **LATITUDE:** 38.5167 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 454.0 **LOGGED (FT.):** 1096.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-130.0	BOND	CARTHAGE	LIMESTONE	-	584.0	
-576.0	CARBONDALE	HERRIN	COAL	-	1030.0	
-638.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1092.0	

MAPID: 19100880000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 15 **QUARTERS/FOOTAGES:** 1980' S line, 1942' E line

QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.300689 **GEOLOGIST:** C TREWORGY

CONFIDENTIAL: N **LATITUDE:** 38.516846 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 425.0 **LOGGED (FT.):** 1076.0 **LOG TYPE:** Electric Log

SOURCE: **WELL TYPE:** Plugged and/or Abandoned

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-157.0	BOND	CARTHAGE	LIMESTONE	-	582.0	
-579.0	CARBONDALE	HERRIN	COAL	-	1004.0	
-647.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1072.0	

MAPID: 19104974000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NE

QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.317774 **GEOLOGIST:** C TREWORGY

CONFIDENTIAL: N **LATITUDE:** 38.521376 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 444.0 **LOGGED (FT.):** 1087.0 **LOG TYPE:** Electric Log

SOURCE: CALVERT DRILLING, INC. **WELL TYPE:** Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-146.0	BOND	CARTHAGE	LIMESTONE	-	590.0	
-574.0	CARBONDALE	HERRIN	COAL	-	1018.0	
-638.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1082.0	

MAPID: 19100878000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' S line, 340' W line of NE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.338116 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.519826 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 401.0 **LOGGED (FT.):** 1042.0 **LOG TYPE:** Electric Log
SOURCE: JOHNSON RUSSELL P **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-153.0	BOND	CARTHAGE	LIMESTONE	-	554.0	
-570.0	CARBONDALE	HERRIN	COAL	-	971.0	
-637.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1038.0	

MAPID: 19100877000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.349573 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.516345 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 423.0 **LOGGED (FT.):** 1105.0 **LOG TYPE:** Electric Log
SOURCE: MENHALL, J. W. & CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-187.0	BOND	CARTHAGE	LIMESTONE	-	610.0	
-624.0	CARBONDALE	HERRIN	COAL	-	1047.0	
-677.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1100.0	

MAPID: 19100876000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 19 **QUARTERS/FOOTAGES:** 1650' S line, 1650' E line
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.354287 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.501817 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 445.0 **LOGGED (FT.):** 1142.0 **LOG TYPE:** Electric Log
SOURCE: IL MID CONTINENT CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-181.0	BOND	CARTHAGE	LIMESTONE	-	626.0	
-619.0	CARBONDALE	HERRIN	COAL	-	1064.0	
-693.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1138.0	

MAPID: 19103737000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.335978 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.505237 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 415.0 **LOGGED (FT.):** 1090.0 **LOG TYPE:** Electric Log
SOURCE: APACHE PETR. DEVELOP. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-170.0	BOND	CARTHAGE	LIMESTONE	-	585.0	
-604.0	CARBONDALE	HERRIN	COAL	-	1019.0	
-672.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1087.0	

MAPID: 19101067000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 21 **QUARTERS/FOOTAGES:** 323' N line, 330' E line of NE SE NE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.313313 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.506837 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 394.0 **LOGGED (FT.):** 1044.0 **LOG TYPE:** Electric Log
SOURCE: BENSON, COMER W. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-575.0	CARBONDALE	HERRIN	COAL	-	969.0	
-645.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1039.0	

MAPID: 19104978000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.301835 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.508657 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 408.0 **LOGGED (FT.):** 1066.0 **LOG TYPE:** Electric Log
SOURCE: HARRIS, R. A. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-158.0	BOND	CARTHAGE	LIMESTONE	-	566.0	
-577.0	CARBONDALE	HERRIN	COAL	-	985.0	
-654.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1062.0	

MAPID: 19104993000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.283604 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.501324 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 434.0 **LOGGED (FT.):** 1054.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Service Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-106.0	BOND	CARTHAGE	LIMESTONE	-	540.0	
-616.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1050.0	

MAPID: 19104041000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.269963 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.504855 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 419.0 **LOGGED (FT.):** 1059.0 **LOG TYPE:** Electric Log
SOURCE: WEST DRLG. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-136.0	BOND	CARTHAGE	LIMESTONE	-	555.0	
-568.0	CARBONDALE	HERRIN	COAL	-	987.0	
-637.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1056.0	

MAPID: 19103263000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SW
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.272313 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.488573 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 400.0 **LOGGED (FT.):** 1039.0 **LOG TYPE:** Electric Log
SOURCE: JACKSON & WRATHER CO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-556.0	CARBONDALE	HERRIN	COAL	3.5	956.0	
-588.0	CARBONDALE	BRIAR HILL	COAL	-	988.0	
-635.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1035.0	

MAPID: 19103046000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.283641 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.490452 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 427.0 **LOGGED (FT.):** 1070.0 **LOG TYPE:** Electric Log
SOURCE: MT. CARMEL DRLG. CO. **WELL TYPE:** Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-133.0	BOND	CARTHAGE	LIMESTONE	-	560.0	
-561.0	CARBONDALE	HERRIN	COAL	-	988.0	
-640.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1067.0	

MAPID: 19105020000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' S line, 990' W line of NE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.29954 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.490513 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 394.0 **LOGGED (FT.):** 1023.0 **LOG TYPE:** Electric Log
SOURCE: SLAPE, DON DRILLING **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-135.0	BOND	CARTHAGE	LIMESTONE	-	529.0	
-549.0	CARBONDALE	HERRIN	COAL	-	943.0	
-626.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1020.0	

MAPID: 19103600000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.317821 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.490544 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 403.0 **LOGGED (FT.):** 1068.0 **LOG TYPE:** Electric Log
SOURCE: DEE BROTHERS **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-147.0	BOND	CARTHAGE	LIMESTONE	-	550.0	
-570.0	CARBONDALE	HERRIN	COAL	-	973.0	
-661.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1064.0	

MAPID: 19105031000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.338304 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.488874 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 437.0 **LOGGED (FT.):** 1109.0 **LOG TYPE:** Electric Log
SOURCE: GEORGE & WRATHER OIL **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-155.0	BOND	CARTHAGE	LIMESTONE	-	592.0	
-668.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1105.0	

MAPID: 19100865000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.356721 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.489151 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 433.0 **LOGGED (FT.):** 1126.0 **LOG TYPE:** Electric Log
SOURCE: ASHLAND OIL&REF. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-177.0	BOND	CARTHAGE	LIMESTONE	-	610.0	
-599.0	CARBONDALE	HERRIN	COAL	-	1032.0	
-689.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1122.0	

MAPID: 19103243000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SW
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.359264 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.472839 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 423.0 **LOGGED (FT.):** 1102.0 **LOG TYPE:** Electric Log
SOURCE: LAUDERDALE OIL PROP **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-162.0	BOND	CARTHAGE	LIMESTONE	-	585.0	
-596.0	CARBONDALE	HERRIN	COAL	-	1019.0	
-674.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1097.0	

MAPID: 19103355000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.338473 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.474377 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 397.0 **LOGGED (FT.):** 1054.0 **LOG TYPE:** Electric Log
SOURCE: REYNOLDS EARL B **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-133.0	BOND	CARTHAGE	LIMESTONE	-	530.0	
-568.0	CARBONDALE	HERRIN	COAL	4.0	965.0	
-600.0	CARBONDALE	BRIAR HILL	COAL	-	997.0	
-654.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1051.0	

MAPID: 19105092000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.320116 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.474274 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 393.0 **LOGGED (FT.):** 1052.0 **LOG TYPE:** Electric Log
SOURCE: MURVIN & STEBER DRLG **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-138.0	BOND	CARTHAGE	LIMESTONE	-	531.0	
-563.0	CARBONDALE	HERRIN	COAL	-	956.0	
-656.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1049.0	

MAPID: 19100098000C **VERSION:** 1 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' N line, 660' E line of SE NW
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.305341 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.477853 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3281.0 **LOG TYPE:** Survey Sample Study
SOURCE: HUPP W E 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	THICKNESS (FT.) OVERBURDEN	COMMENT
-			NO RECORD	0.0	0.0	

MAPID: 19105103000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.304173 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.476065 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 386.0 **LOGGED (FT.):** 1029.0 **LOG TYPE:** Electric Log
SOURCE: CULLUM & LAWHEAD **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-126.0	BOND	CARTHAGE	LIMESTONE	-	512.0	
-567.0	CARBONDALE	HERRIN	COAL	-	953.0	
-638.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1024.0	

MAPID: 19105123000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SW
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.288205 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.472395 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 400.0 **LOGGED (FT.):** 977.0 **LOG TYPE:** Electric Log
SOURCE: WOJCICKI JOHN A **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-87.0	BOND	CARTHAGE	LIMESTONE	-	487.0	
-513.0	CARBONDALE	HERRIN	COAL	-	913.0	
-574.0	CARBONDALE	SPRINGFIELD	COAL	3.0	974.0	

MAPID: 19104164000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 8E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NW
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.272363 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.477684 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 415.0 **LOGGED (FT.):** 1023.0 **LOG TYPE:** Electric Log
SOURCE: INGLIS, JACK OIL PROP. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-105.0	BOND	CARTHAGE	LIMESTONE	-	520.0	
-541.0	CARBONDALE	HERRIN	COAL	-	956.0	
-604.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1019.0	

MAPID: 19107411000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.15604 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.548215 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 395.0 **LOGGED (FT.):** 1037.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-562.0	CARBONDALE	HERRIN	COAL	-	957.0	
-638.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1033.0	

MAPID: 19100911000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.176601 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.5537 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 397.0 **LOGGED (FT.):** 1057.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-144.0	BOND	CARTHAGE	LIMESTONE	-	541.0	
-581.0	CARBONDALE	HERRIN	COAL	-	978.0	
-656.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1053.0	

MAPID: 19105137000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NW
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.194909 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.550101 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 399.0 **LOGGED (FT.):** 1049.0 **LOG TYPE:** Electric Log
SOURCE: WRATHER JOHN **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-147.0	BOND	CARTHAGE	LIMESTONE	-	546.0	
-574.0	CARBONDALE	HERRIN	COAL	-	973.0	
-646.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1045.0	

MAPID: 19104142000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.210895 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.548386 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 422.0 **LOGGED (FT.):** 1083.0 **LOG TYPE:** Electric Log
SOURCE: BLACK & BLACK OIL CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-161.0	BOND	CARTHAGE	LIMESTONE	-	583.0	
-586.0	CARBONDALE	HERRIN	COAL	-	1008.0	
-658.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1080.0	

MAPID: 19100908000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 5 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SW
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.234111 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.544796 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 437.0 **LOGGED (FT.):** 1090.0 **LOG TYPE:** Electric Log
SOURCE: MCMANAMY, JOHN L. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-137.0	BOND	CARTHAGE	LIMESTONE	-	574.0	
-580.0	CARBONDALE	HERRIN	COAL	-	1017.0	
-649.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1086.0	

MAPID: 19100907000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 6 **QUARTERS/FOOTAGES:** 3908' N line, 2247' E line
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.247903 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.54459 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 435.0 **LOGGED (FT.):** 1060.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-131.0	BOND	CARTHAGE	LIMESTONE	-	566.0	
-559.0	CARBONDALE	HERRIN	COAL	-	994.0	
-625.0	CARBONDALE	SPRINGFIELD	COAL	-	1060.0	

MAPID: 19103997000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE NW
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.234021 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.537362 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 411.0 **LOGGED (FT.):** 1062.0 **LOG TYPE:** Electric Log
SOURCE: DUNCAN, N. V., EST. OF **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-155.0	BOND	CARTHAGE	LIMESTONE	-	566.0	
-579.0	CARBONDALE	HERRIN	COAL	-	990.0	
-647.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1058.0	

MAPID: 19103998000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SW
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.215266 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.52824 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 402.0 **LOGGED (FT.):** 1057.0 **LOG TYPE:** Electric Log
SOURCE: GEORGE & WRATHER OIL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-129.0	BOND	CARTHAGE	LIMESTONE	-	531.0	
-581.0	CARBONDALE	HERRIN	COAL	-	983.0	
-651.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1053.0	

MAPID: 19101123000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SW
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.201665 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.530109 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 397.0 **LOGGED (FT.):** 1051.0 **LOG TYPE:** Electric Log
SOURCE: ROSS & ROSS **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-113.0	BOND	CARTHAGE	LIMESTONE	-	510.0	
-573.0	CARBONDALE	HERRIN	COAL	-	970.0	
-650.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1047.0	

MAPID: 19100100000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 11 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.183454 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.531773 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 1037.0 **LOG TYPE:** Electric Log
SOURCE: KINGWOOD OIL CO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	BOND	CARTHAGE	LIMESTONE	-	500.0	
-	CARBONDALE	HERRIN	COAL	-	945.0	
-	CARBONDALE	SPRINGFIELD	COAL	4.0	1033.0	

MAPID: 19103999000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 12 **QUARTERS/FOOTAGES:** 660' S line, 330' E line of SW
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.158211 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.527355 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 392.0 **LOGGED (FT.):** 1037.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-546.0	CARBONDALE	HERRIN	COAL	-	938.0	
-643.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1035.0	

MAPID: 19105142000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SW
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.16041 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.517341 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 395.0 **LOGGED (FT.):** 1043.0 **LOG TYPE:** Electric Log
SOURCE: WINMAR OIL CO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-566.0	CARBONDALE	HERRIN	COAL	-	961.0	
-645.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1040.0	

MAPID: 19103412000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SW
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.178707 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.513656 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 396.0 **LOGGED (FT.):** 1043.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-561.0	CARBONDALE	HERRIN	COAL	-	957.0	
-644.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1040.0	

MAPID: 19100901000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 15 **QUARTERS/FOOTAGES:** 660' S line, 660' W line of NW
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.200357 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.520086 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 436.0 **LOGGED (FT.):** 1086.0 **LOG TYPE:** Drillers Log
SOURCE: LAMBERT BURR **WELL TYPE:** Unsuccessful or Unknown Results
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-101.0	BOND	CARTHAGE	LIMESTONE	-	537.0	
-557.0	CARBONDALE	HERRIN	COAL	-	993.0	
-645.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1081.0	

MAPID: 19101135000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NW
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.194766 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.520981 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 422.0 **LOGGED (FT.):** 1070.0 **LOG TYPE:** Electric Log
SOURCE: RYAN OIL CO., ETAL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-118.0	BOND	CARTHAGE	LIMESTONE	-	540.0	
-576.0	CARBONDALE	HERRIN	COAL	-	998.0	
-645.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1067.0	

MAPID: 19104331000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW NE
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.229033 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.520973 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 431.0 **LOGGED (FT.):** 1092.0 **LOG TYPE:** Electric Log
SOURCE: BLACK & BLACK OIL CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-144.0	BOND	CARTHAGE	LIMESTONE	-	575.0	
-590.0	CARBONDALE	HERRIN	COAL	-	1021.0	
-658.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1089.0	

MAPID: 19108036000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 18 **QUARTERS/FOOTAGES:** 360' N line, 330' W line of NE SE
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.242946 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.517437 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 459.0 **LOGGED (FT.):** 1113.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-137.0	BOND	CARTHAGE	LIMESTONE	-	596.0	
-585.0	CARBONDALE	HERRIN	COAL	-	1044.0	
-650.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1109.0	

MAPID: 19101136000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NE
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.243048 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.510284 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 468.0 **LOGGED (FT.):** 1124.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-144.0	BOND	CARTHAGE	LIMESTONE	-	612.0	
-582.0	CARBONDALE	HERRIN	COAL	-	1050.0	
-652.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1120.0	

MAPID: 19100899000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SW
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.233774 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.502938 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 464.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: FREEMAN COAL MINING CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	SPRINGFIELD	COAL	0.0		

MAPID: 19105161000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.217678 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.499254 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 473.0 **LOGGED (FT.):** 1114.0 **LOG TYPE:** Electric Log
SOURCE: HIGGINS OIL CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-545.0	CARBONDALE	HERRIN	COAL	-	1018.0	
-637.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1110.0	

MAPID: 19103364000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NE
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.19014 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.50822 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 405.0 **LOGGED (FT.):** 1061.0 **LOG TYPE:** Electric Log
SOURCE: ROBINSON & PUCKETT, INC. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-563.0	CARBONDALE	HERRIN	COAL	-	968.0	
-653.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1058.0	

MAPID: 19101138000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE NE
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.16954 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.506427 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 394.0 **LOGGED (FT.):** 1043.0 **LOG TYPE:** Electric Log
SOURCE: WINMAR OIL CO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-568.0	CARBONDALE	HERRIN	COAL	-	962.0	
-645.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1039.0	

MAPID: 19103346000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.158242 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.4902 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 393.0 **LOGGED (FT.):** 1037.0 **LOG TYPE:** Electric Log
SOURCE: STRUM, A. & SONS **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-563.0	CARBONDALE	HERRIN	COAL	-	956.0	
-640.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1033.0	

MAPID: 19104001000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 990' W line of SW NW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.180918 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.491954 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 424.0 **LOGGED (FT.):** 1069.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-563.0	CARBONDALE	HERRIN	COAL	-	987.0	
-642.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1066.0	

MAPID: 19100895000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW SE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.192444 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.484699 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 427.0 **LOGGED (FT.):** 1093.0 **LOG TYPE:** Electric Log
SOURCE: AETNA OIL CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-588.0	CARBONDALE	HERRIN	COAL	-	1015.0	
-662.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1089.0	

MAPID: 19100894000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.210823 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.482904 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 441.0 **LOGGED (FT.):** 1123.0 **LOG TYPE:** Electric Log
SOURCE: SLAGTER ARTHUR J JR **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-603.0	CARBONDALE	HERRIN	COAL	-	1044.0	
-678.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1119.0	

MAPID: 19101141000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.231464 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.486608 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 474.0 **LOGGED (FT.):** 1080.0 **LOG TYPE:** Electric Log
SOURCE: DAVIS C G **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-82.0	BOND	CARTHAGE	LIMESTONE	-	556.0	
-522.0	CARBONDALE	HERRIN	COAL	-	996.0	
-603.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1077.0	

MAPID: 19105148000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.242824 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.483057 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 413.0 **LOGGED (FT.):** 1033.0 **LOG TYPE:** Electric Log
SOURCE: WAND **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-546.0	CARBONDALE	HERRIN	COAL	-	959.0	
-618.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1031.0	

MAPID: 19101146000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' N line, 660' E line of SW
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.250907 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.474006 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 453.0 **LOGGED (FT.):** 1061.0 **LOG TYPE:** Electric Log
SOURCE: ANDERSON, JABE J. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-92.0	BOND	CARTHAGE	LIMESTONE	-	545.0	
-545.0	CARBONDALE	HERRIN	COAL	-	998.0	
-605.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1058.0	

MAPID: 19101279000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.231475 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.473949 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 459.0 **LOGGED (FT.):** 1061.0 **LOG TYPE:** Electric Log
SOURCE: RUDY JOHN W EST **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-76.0	BOND	CARTHAGE	LIMESTONE	-	535.0	
-532.0	CARBONDALE	HERRIN	COAL	-	991.0	
-599.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1058.0	

MAPID: 19103069000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.21771 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.470282 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 445.0 **LOGGED (FT.):** 1103.0 **LOG TYPE:** Electric Log
SOURCE: CALVERT DRILLING, INC. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-98.0	BOND	CARTHAGE	LIMESTONE	-	543.0	
-583.0	CARBONDALE	HERRIN	COAL	-	1028.0	
-655.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1100.0	

MAPID: 19101280000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.197091 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.473895 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 402.0 **LOGGED (FT.):** 1048.0 **LOG TYPE:** Electric Log
SOURCE: RYAN OIL CO., ETAL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-578.0	CARBONDALE	HERRIN	COAL	-	980.0	
-642.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1044.0	

MAPID: 19101281000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1N 9E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.174042 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.475717 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 387.0 **LOGGED (FT.):** 1063.0 **LOG TYPE:** Electric Log
SOURCE: DAYTON WARD W **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-587.0	CARBONDALE	HERRIN	COAL	-	974.0	
-673.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1060.0	

MAPID: 19100408000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' S line, 660' W line of NE

QUADRANGLE: CRISP **LONGITUDE:** -88.593274 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.469961 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 491.0 **LOGGED (FT.):** 3278.0 **LOG TYPE:** Electric Log

SOURCE: GULF REFINING CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-551.0	CARBONDALE	HERRIN	COAL	4.0	1042.0	
-595.0	CARBONDALE	BRIAR HILL	COAL	-	1086.0	
-621.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1112.0	
-679.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1170.0	

MAPID: 19100408000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' S line, 660' W line of NE

QUADRANGLE: CRISP **LONGITUDE:** -88.593274 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.469961 **DATE COLLECTED:** 0 / 0 / 1942

SURFACE ELEVATION (FT.): 491.0 **LOGGED (FT.):** 3278.0 **LOG TYPE:**

SOURCE: GULF REF, MELTON F 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-110.0	BOND	CARTHAGE	LIMESTONE	-	601.0	
-550.0	CARBONDALE	HERRIN	COAL	5.0	1041.0	

MAPID: 19100408000C **VERSION:** 3 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' S line, 660' W line of NE

QUADRANGLE: CRISP **LONGITUDE:** -88.593274 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.469961 **DATE COLLECTED:** 9 / 0 / 1942

SURFACE ELEVATION (FT.): 491.0 **LOGGED (FT.):** 3278.0 **LOG TYPE:** Survey Sample Study

SOURCE: GULF REFINING CO 1 **WELL TYPE:** Plugged and/or Abandoned

COMMENT: SAMPLE STUDY CONTROL WELL #66

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
491.0			UNKNOWN	156.0	0.0	
335.0			SANDSTONE	33.0	156.0	WITH STREAKS OF BLACKSHALE
302.0			COAL	-	189.0	STREAK
302.0			SANDSTONE	16.0	189.0	
286.0			BLACK SHALE & COAL	1.0	205.0	WITH UNDERCLAY
285.0			LIMESTONE	1.0	206.0	
284.0			SANDSTONE	6.0	207.0	
278.0			BLACK SHALE & COAL	2.0	213.0	WITH UNDERCLAY
276.0			SANDSTONE	1.0	215.0	
275.0			BLACK SHALE	1.0	216.0	
274.0			COAL	1.0	217.0	
273.0			SANDSTONE	12.0	218.0	
261.0			BLACK SHALE	-	230.0	
261.0			SHALE	8.0	230.0	
253.0			BLACK SHALE & COAL	1.0	238.0	
252.0			SHALE & SANDSTONE	3.0	239.0	
249.0			CALCAREOUS SHALE	6.0	242.0	
243.0			BLACK SHALE	1.0	248.0	
242.0			COAL	2.0	249.0	
240.0			UNDERCLAY	1.0	251.0	
239.0			SHALE	8.0	252.0	
231.0			SILTSTONE	4.0	260.0	
227.0			SHALE	6.0	264.0	
221.0			SILTSTONE	14.0	270.0	
207.0			SHALE	26.0	284.0	COAL STREAKS
181.0			SILTSTONE	5.0	310.0	
176.0			COAL	-	315.0	STREAK
176.0			SHALE	8.0	315.0	
168.0			LIMESTONE	4.0	323.0	
164.0			SILTSTONE	5.0	327.0	
159.0			SHALE	32.0	332.0	
127.0			BLACK SHALE	3.0	364.0	
124.0			LIMESTONE	2.0	367.0	
122.0			BLACK SHALE	1.0	369.0	
121.0			COAL	1.0	370.0	
120.0			UNDERCLAY	3.0	371.0	
117.0			SHALE	4.0	374.0	
113.0			SILTSTONE	37.0	378.0	
76.0			LIMESTONE	2.0	415.0	

74.0			BLACK SHALE	1.0	417.0	
73.0			COAL	1.0	418.0	
72.0			UNDERCLAY	1.0	419.0	
71.0			SANDSTONE	46.0	420.0	
25.0			SHALE	28.0	466.0	
-3.0			BLACK SHALE & COAL	6.0	494.0	COAL STREAK
-9.0			LIMESTONE	1.0	500.0	
-10.0			SANDSTONE	14.0	501.0	
-24.0			LIMESTONE	2.0	515.0	
-26.0			SILTSTONE	6.0	517.0	
-32.0			SHALE	5.0	523.0	
-37.0			SILTSTONE	10.0	528.0	
-47.0			SHALE	13.0	538.0	
-60.0			BLACK SHALE & COAL	1.0	551.0	WITH UNDERCLAY; BKSH STREAK; COAL STREAK
-61.0			SHALE	10.0	552.0	
-71.0			UNCLASSIFIED	2.0	562.0	COAL STREAK
-73.0			SILTSTONE	40.0	564.0	
-113.0	BOND	CARTHAGE	LIMESTONE	9.0	604.0	
-122.0	MODESTO		SHALE	7.0	613.0	
-129.0	MODESTO		BLACK SHALE	4.0	620.0	
-133.0	MODESTO		SHALE	28.0	624.0	
-161.0	MODESTO		SILTSTONE	17.0	652.0	
-178.0	MODESTO		LIMESTONE	1.0	669.0	
-179.0	MODESTO		SHALE	28.0	670.0	
-207.0	MODESTO		BLACK SHALE	2.0	698.0	WITH UNDERCLAY
-209.0	MODESTO		SHALE	4.0	700.0	
-213.0	MODESTO		LIMESTONE	4.0	704.0	
-217.0	MODESTO		SANDSTONE	4.0	708.0	
-221.0	MODESTO		SILTSTONE	8.0	712.0	
-229.0	MODESTO		SHALE	2.0	720.0	
-231.0	MODESTO		SILTSTONE	32.0	722.0	
-263.0	MODESTO		SHALE	31.0	754.0	
-294.0	MODESTO		BLACK SHALE	1.0	785.0	
-295.0	MODESTO		SILTSTONE	18.0	786.0	
-313.0	MODESTO		SHALE	24.0	804.0	
-337.0	MODESTO		BLACK SHALE	2.0	828.0	
-339.0	MODESTO		UNDERCLAY	4.0	830.0	
-343.0	MODESTO		SHALE	22.0	834.0	
-365.0	MODESTO		LIMESTONE	4.0	856.0	
-369.0			SILTSTONE	36.0	860.0	WITH SANDSTONE
-405.0			SHALE	54.0	896.0	
-459.0			SILTSTONE	14.0	950.0	
-473.0			CALCAREOUS SHALE	20.0	964.0	
-493.0			SILTSTONE	4.0	984.0	WITH SHALE
-497.0	CARBONDALE	BANKSTON FORK	LIMESTONE	6.0	988.0	
-503.0	CARBONDALE		SILTSTONE	2.0	994.0	
-505.0	CARBONDALE		SHALE	14.0	996.0	

-519.0	CARBONDALE	BRERETON	LIMESTONE	4.0	1010.0	
-523.0	CARBONDALE	HERRIN	COAL	5.0	1014.0	APPROXIMATE THICKNESS
-528.0	CARBONDALE		UNDERCLAY	1.0	1019.0	
-529.0	CARBONDALE		SILTSTONE	2.0	1020.0	WITH SANDSTONE
-531.0	CARBONDALE		LIMESTONE	2.0	1022.0	
-533.0	CARBONDALE		SILTSTONE	16.0	1024.0	
-549.0	CARBONDALE		SHALE	8.0	1040.0	
-557.0	CARBONDALE		SILTSTONE	2.0	1048.0	
-559.0	CARBONDALE		SHALE	15.0	1050.0	
-574.0	CARBONDALE		BLACK SHALE	-	1065.0	
-574.0	CARBONDALE	BRIAR HILL	COAL	2.0	1065.0	APPROXIMATE THICKNESS
-576.0	CARBONDALE		UNDERCLAY	1.0	1067.0	
-577.0	CARBONDALE		SILTSTONE	6.0	1068.0	
-583.0	CARBONDALE		SHALE	10.0	1074.0	
-593.0	CARBONDALE	ST. DAVID	LIMESTONE	2.0	1084.0	
-595.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	1086.0	
-596.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1087.0	APPROXIMATE THICKNESS
-599.0	CARBONDALE		UNDERCLAY	1.0	1090.0	
-600.0	CARBONDALE		SHALE	3.0	1091.0	END OF SAMPLE STUDY

MAPID: 19100408000C **VERSION:** 4 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' S line, 660' W line of NE

QUADRANGLE: CRISP **LONGITUDE:** -88.593274 **GEOLOGIST:** HINES

CONFIDENTIAL: N **LATITUDE:** 38.469961 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3278.0 **LOG TYPE:** Survey Sample Study

SOURCE: GULF REFINING CO. **WELL TYPE:** Oil and Gas Test

COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 19103654000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' N line, 330' W line
QUADRANGLE: CRISP **LONGITUDE:** -88.604433 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.475438 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 457.0 **LOGGED (FT.):** 3074.0 **LOG TYPE:** Electric Log
SOURCE: LINDSAY, THEODORE R. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-503.0	CARBONDALE	HERRIN	COAL	2.0	960.0	
-544.0	CARBONDALE	BRIAR HILL	COAL	-	1001.0	
-573.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1030.0	
-633.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1090.0	

MAPID: 19103682000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NE
QUADRANGLE: CRISP **LONGITUDE:** -88.606695 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.471742 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 454.0 **LOGGED (FT.):** 3116.0 **LOG TYPE:** Electric Log
SOURCE: LINDSAY, THEODORE R. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-504.0	CARBONDALE	HERRIN	COAL	3.0	958.0	
-574.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1028.0	
-636.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1090.0	

MAPID: 19103986000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.641282 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.474767 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 461.0 **LOGGED (FT.):** 3105.0 **LOG TYPE:** Electric Log
SOURCE: MACDONELL CO. OF LIMA **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-441.0	CARBONDALE	HERRIN	COAL	-	902.0	
-486.0	CARBONDALE	BRIAR HILL	COAL	-	947.0	
-510.0	CARBONDALE	SPRINGFIELD	COAL	3.0	971.0	
-574.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1035.0	

MAPID: 19100583000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 5 **QUARTERS/FOOTAGES:** SW SW NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.669752 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.468893 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 426.0 **LOGGED (FT.):** 3017.0 **LOG TYPE:** Electric Log
SOURCE: BELL BROTHERS **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-493.0	CARBONDALE	HERRIN	COAL	2.0	919.0	
-526.0	CARBONDALE	BRIAR HILL	COAL	-	952.0	
-554.0	CARBONDALE	SPRINGFIELD	COAL	3.0	980.0	
-629.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1055.0	

MAPID: 19100583000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 5 **QUARTERS/FOOTAGES:** SW SW NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.669752 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.468893 **DATE COLLECTED:** 0 / 0 / 1945
SURFACE ELEVATION (FT.): 426.0 **LOGGED (FT.):** 3017.0 **LOG TYPE:**
SOURCE: BELL BROS, GARRISON 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-64.0	BOND	CARTHAGE	LIMESTONE	-	490.0	
-492.0	CARBONDALE	HERRIN	COAL	-	918.0	

MAPID: 19103722000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.683844 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.47054 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 462.0 **LOGGED (FT.):** 2942.0 **LOG TYPE:** Electric Log
SOURCE: PURE OIL CO., THE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-486.0	CARBONDALE	HERRIN	COAL	3.0	948.0	
-548.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1010.0	
-622.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1084.0	

MAPID: 19100584000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 7 **QUARTERS/FOOTAGES:** SE SE NW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.690901 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.454242 **DATE COLLECTED:** 0 / 0 / 1943
SURFACE ELEVATION (FT.): 464.0 **LOGGED (FT.):** 3069.0 **LOG TYPE:**
SOURCE: GULF REF, BEECHER E 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-41.0	BOND	CARTHAGE	LIMESTONE	-	505.0	
-466.0	CARBONDALE	HERRIN	COAL	-	930.0	

MAPID: 19103987000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.683918 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.446827 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 482.0 **LOGGED (FT.):** 3085.0 **LOG TYPE:** Electric Log
SOURCE: CALVERT DRILLING, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-495.0	CARBONDALE	HERRIN	COAL	4.0	977.0	
-529.0	CARBONDALE	BRIAR HILL	COAL	-	1011.0	
-554.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1036.0	
-630.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1112.0	

MAPID: 19100020000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 9 **QUARTERS/FOOTAGES:** SE NE SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.644004 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.451044 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 423.0 **LOGGED (FT.):** 3154.0 **LOG TYPE:**
SOURCE: WILLIAMS B, CRUMBACHER 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-97.0	BOND	CARTHAGE	LIMESTONE	-	520.0	
-529.0	CARBONDALE	HERRIN	COAL	-	952.0	

MAPID: 19103634000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.651171 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.450923 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 432.0 **LOGGED (FT.):** 3114.0 **LOG TYPE:** Electric Log
SOURCE: BLACK & BLACK OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-533.0	CARBONDALE	HERRIN	COAL	4.0	965.0	
-594.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1026.0	
-674.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1106.0	

MAPID: 19101438000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 10 **QUARTERS/FOOTAGES:** 990' N line, 840' W line of SW SW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.63994 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.447438 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 419.0 **LOGGED (FT.):** 3132.0 **LOG TYPE:** Electric Log
SOURCE: GAINES ROY E **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-559.0	CARBONDALE	HERRIN	COAL	3.0	978.0	
-599.0	CARBONDALE	BRIAR HILL	COAL	-	1018.0	
-624.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1043.0	
-705.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1124.0	

MAPID: 19100559000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 11 **QUARTERS/FOOTAGES:** SE SE NW
QUADRANGLE: CRISP **LONGITUDE:** -88.616043 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.455071 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 478.0 **LOGGED (FT.):** 3261.0 **LOG TYPE:** Electric Log
SOURCE: GULF REFINING CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-556.0	CARBONDALE	HERRIN	COAL	2.0	1034.0	
-599.0	CARBONDALE	BRIAR HILL	COAL	-	1077.0	
-624.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1102.0	
-700.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1178.0	

MAPID: 19100559000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 11 **QUARTERS/FOOTAGES:** SE SE NW
QUADRANGLE: CRISP **LONGITUDE:** -88.616043 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.455071 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 478.0 **LOGGED (FT.):** 3259.0 **LOG TYPE:**
SOURCE: GULF ET AL, TALBERT C 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-122.0	BOND	CARTHAGE	LIMESTONE	-	600.0	
-555.0	CARBONDALE	HERRIN	COAL	-	1033.0	

MAPID: 19100559000C **VERSION:** 3 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 11 **QUARTERS/FOOTAGES:** SE SE NW
QUADRANGLE: CRISP **LONGITUDE:** -88.616043 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.455071 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 478.0 **LOGGED (FT.):** 1361.0 **LOG TYPE:** Electric Log
SOURCE: GULF REFINING CO E HELMRICH 559 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
478.0			UNKNOWN	1288.0	0.0	
-810.0	CARBONDALE	COLCHESTER	COAL	1.0	1288.0	
-811.0	CARBONDALE		UNKNOWN	47.0	1289.0	
-858.0	CARBONDALE	DEKOVEN	COAL	3.0	1336.0	
-861.0	CARBONDALE		UNKNOWN	20.0	1339.0	
-881.0	CARBONDALE	DAVIS	COAL	2.0	1359.0	

MAPID: 19100585000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 12 **QUARTERS/FOOTAGES:** SE SW NW
QUADRANGLE: CRISP **LONGITUDE:** -88.601745 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.455163 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 472.0 **LOGGED (FT.):** 3301.0 **LOG TYPE:** Electric Log
SOURCE: ROBINSON & PUCKETT, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-571.0	CARBONDALE	HERRIN	COAL	3.0	1043.0	
-612.0	CARBONDALE	BRIAR HILL	COAL	-	1084.0	
-642.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1114.0	
-720.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1192.0	

MAPID: 19100585000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 12 **QUARTERS/FOOTAGES:** SE SW NW

QUADRANGLE: CRISP **LONGITUDE:** -88.601745 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.455163 **DATE COLLECTED:** 0 / 0 / 1947

SURFACE ELEVATION (FT.): 472.0 **LOGGED (FT.):** 3301.0 **LOG TYPE:**

SOURCE: RBNSN PUCK, PEDDICORD 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-130.0	BOND	CARTHAGE	LIMESTONE	-	602.0	
-568.0	CARBONDALE	HERRIN	COAL	-	1040.0	

MAPID: 19101439000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SW

QUADRANGLE: CRISP **LONGITUDE:** -88.616142 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.436596 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 449.0 **LOGGED (FT.):** 3270.0 **LOG TYPE:** Electric Log

SOURCE: WINMAR OIL CO **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-568.0	CARBONDALE	HERRIN	COAL	3.0	1017.0	
-607.0	CARBONDALE	BRIAR HILL	COAL	-	1056.0	
-632.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1081.0	
-710.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1159.0	

MAPID: 19100586000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 15 **QUARTERS/FOOTAGES:** SW SW SE

QUADRANGLE: SHIELDS **LONGITUDE:** -88.632602 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.43272 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 413.0 **LOGGED (FT.):** 3189.0 **LOG TYPE:** Electric Log

SOURCE: WHITE EAGLE OIL CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-557.0	CARBONDALE	HERRIN	COAL	3.0	970.0	
-582.0	CARBONDALE	BRIAR HILL	COAL	-	995.0	
-617.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1030.0	
-699.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1112.0	

MAPID: 19100586000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 15 **QUARTERS/FOOTAGES:** SW SW SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.632602 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.43272 **DATE COLLECTED:** 0 / 0 / 1946
SURFACE ELEVATION (FT.): 413.0 **LOGGED (FT.):** 3189.0 **LOG TYPE:**
SOURCE: WHTE EAGLE, ILL FRM CP 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-103.0	BOND	CARTHAGE	LIMESTONE	-	516.0	
-557.0	CARBONDALE	HERRIN	COAL	-	970.0	

MAPID: 19100586000C **VERSION:** 3 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 15 **QUARTERS/FOOTAGES:** SW SW SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.632602 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.43272 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 413.0 **LOGGED (FT.):** 1268.0 **LOG TYPE:** Electric Log
SOURCE: WHITE EAGLE OIL CO. 586 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
413.0			UNKNOWN	1197.0	0.0	
-784.0	CARBONDALE	COLCHESTER	COAL	1.0	1197.0	
-785.0	CARBONDALE		UNKNOWN	45.0	1198.0	
-830.0	CARBONDALE	DEKOVEN	COAL	2.0	1243.0	
-832.0	CARBONDALE		UNKNOWN	21.0	1245.0	
-853.0	CARBONDALE	DAVIS	COAL	2.0	1266.0	

MAPID: 19100560000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 17 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.679404 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.432118 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 494.0 **LOGGED (FT.):** 3086.0 **LOG TYPE:**
SOURCE: CENTRLPIPE, EDMINSON F 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-30.0	BOND	CARTHAGE	LIMESTONE	-	524.0	

MAPID: 19100561000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 17 **QUARTERS/FOOTAGES:** SW SW NW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.679326 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.439486 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 3028.0 **LOG TYPE:** Electric Log
SOURCE: WEBSTER & WIX **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-570.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1030.0	
-644.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1104.0	

MAPID: 19100561000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 17 **QUARTERS/FOOTAGES:** SW SW NW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.679326 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.439486 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 3028.0 **LOG TYPE:**
SOURCE: WEBSTER J, ELLIS J H 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-52.0	BOND	CARTHAGE	LIMESTONE	-	512.0	

MAPID: 19100426000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 18 **QUARTERS/FOOTAGES:** SW SW SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.68873 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.432118 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 535.0 **LOGGED (FT.):** 2969.0 **LOG TYPE:**
SOURCE: NAT PET, ELLIS J W 1B 1B **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-5.0	BOND	CARTHAGE	LIMESTONE	-	540.0	

MAPID: 19100427000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 18 **QUARTERS/FOOTAGES:** SE NW SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.686357 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.435795 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 556.0 **LOGGED (FT.):** 2982.0 **LOG TYPE:**
SOURCE: NAT PET, ELLIS COM 1 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-11.0	BOND	CARTHAGE	LIMESTONE	-	567.0	

MAPID: 19100428000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 18 **QUARTERS/FOOTAGES:** SE SW NW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.695649 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.439474 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 3100.0 **LOG TYPE:**
SOURCE: BELL&BRNKR, WILSON H B 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
7.0	BOND	CARTHAGE	LIMESTONE	-	492.0	

MAPID: 19100450000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 18 **QUARTERS/FOOTAGES:** NW SE NW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.693294 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.441313 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 502.0 **LOGGED (FT.):** 2955.0 **LOG TYPE:**
SOURCE: GULF REF, LANCY ROSA 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-8.0	BOND	CARTHAGE	LIMESTONE	-	510.0	

MAPID: 19100460000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 18 **QUARTERS/FOOTAGES:** NW SE NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.683964 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.441314 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 480.0 **LOGGED (FT.):** 2920.0 **LOG TYPE:**
SOURCE: GULF REF, ELLIS J W 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-36.0	BOND	CARTHAGE	LIMESTONE	-	516.0	

MAPID: 19100461000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 18 **QUARTERS/FOOTAGES:** SW NE SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.684023 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.435792 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 513.0 **LOGGED (FT.):** 2967.0 **LOG TYPE:**
SOURCE: GULF REF, ELLIS J W 2 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-26.0	BOND	CARTHAGE	LIMESTONE	-	539.0	

MAPID: 19100462000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 18 **QUARTERS/FOOTAGES:** 676' N line, 668' W line of NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.687422 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.444046 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 478.0 **LOGGED (FT.):** 2918.0 **LOG TYPE:** Electric Log
SOURCE: GULF REFINING CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-547.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1025.0	
-622.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1100.0	

MAPID: 19100462000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 18 **QUARTERS/FOOTAGES:** 676' N line, 668' W line of NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.687422 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.444046 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 478.0 **LOGGED (FT.):** 2918.0 **LOG TYPE:**
SOURCE: GULF REF, MINOR B 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-38.0	BOND	CARTHAGE	LIMESTONE	-	516.0	

MAPID: 19100462000C **VERSION:** 4 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 18 **QUARTERS/FOOTAGES:** 676' N line, 668' W line of NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.687422 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.444046 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 2918.0 **LOG TYPE:** Survey Sample Study
SOURCE: GULF REFINING CO. **WELL TYPE:** Oil and Gas Test
COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 19103773000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.684013 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.437642 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 517.0 **LOGGED (FT.):** 3016.0 **LOG TYPE:** Electric Log
SOURCE: GULF OIL CORPORATION **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-551.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1068.0	
-629.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1146.0	

MAPID: 19100009000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 19 **QUARTERS/FOOTAGES:** SE NW SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.68656 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.421056 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 512.0 **LOGGED (FT.):** 2916.0 **LOG TYPE:**
SOURCE: GULF REF, WILSON F 2 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
5.0	BOND	CARTHAGE	LIMESTONE	-	507.0	

MAPID: 19100010000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 19 **QUARTERS/FOOTAGES:** NW SE NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.684153 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.426586 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 2925.0 **LOG TYPE:**
SOURCE: GULF REF, WILSON F 3 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-15.0	BOND	CARTHAGE	LIMESTONE	-	515.0	

MAPID: 19100414000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 19 **QUARTERS/FOOTAGES:** SE NW SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.68656 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.421056 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 512.0 **LOGGED (FT.):** 2924.0 **LOG TYPE:**
SOURCE: MCBRIDEINC, CREIGH COM 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
12.0	BOND	CARTHAGE	LIMESTONE	-	500.0	

MAPID: 19100425000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 19 **QUARTERS/FOOTAGES:** SW SW SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.688915 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.417367 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 2888.0 **LOG TYPE:**
SOURCE: MCBRIDEINC, YOUNG COMM 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
4.0	BOND	CARTHAGE	LIMESTONE	-	486.0	
-438.0	CARBONDALE	HERRIN	COAL	-	928.0	

MAPID: 19100463000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 19 **QUARTERS/FOOTAGES:** SW NE NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.684121 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.428427 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 485.0 **LOGGED (FT.):** 2920.0 **LOG TYPE:**
SOURCE: GULF REF, WILSON F 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-15.0	BOND	CARTHAGE	LIMESTONE	-	500.0	

MAPID: 19100480000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 19 **QUARTERS/FOOTAGES:** NW SE SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.684283 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.419212 **DATE COLLECTED:** 0 / 0 / 1943
SURFACE ELEVATION (FT.): 508.0 **LOGGED (FT.):** 2913.0 **LOG TYPE:**
SOURCE: DELK CORP, WILSON RAY 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-4.0	BOND	CARTHAGE	LIMESTONE	-	512.0	
-447.0	CARBONDALE	HERRIN	COAL	-	955.0	

MAPID: 19100526000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 19 **QUARTERS/FOOTAGES:** SE NE SW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.691179 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.421055 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 485.0 **LOGGED (FT.):** 3068.0 **LOG TYPE:**
SOURCE: MCBRIDEINC, BYARS E J 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
9.0	BOND	CARTHAGE	LIMESTONE	-	476.0	

MAPID: 19100527000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 19 **QUARTERS/FOOTAGES:** SE SE NW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.69114 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.424744 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 493.0 **LOGGED (FT.):** 2874.0 **LOG TYPE:**
SOURCE: GULF REF, GARRISON L 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
18.0	BOND	CARTHAGE	LIMESTONE	-	475.0	

MAPID: 19101442000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.686624 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.417357 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 2908.0 **LOG TYPE:** Electric Log
SOURCE: MCBRIDE, W. C., INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-439.0	CARBONDALE	HERRIN	COAL	3.0	929.0	
-474.0	CARBONDALE	BRIAR HILL	COAL	-	964.0	
-502.0	CARBONDALE	SPRINGFIELD	COAL	4.0	992.0	
-583.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1073.0	

MAPID: 19103098000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.679436 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.430285 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 478.0 **LOGGED (FT.):** 3060.0 **LOG TYPE:** Electric Log
SOURCE: SOIL TESTING SERVICE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-550.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1028.0	
-629.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1107.0	

MAPID: 19100587000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 21 **QUARTERS/FOOTAGES:** SW SW SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.651558 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.417806 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 476.0 **LOGGED (FT.):** 3186.0 **LOG TYPE:** Electric Log
SOURCE: GULF REFINING CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-571.0	CARBONDALE	BRIAR HILL	COAL	-	1047.0	
-594.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1070.0	
-678.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1154.0	

MAPID: 19100587000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 21 **QUARTERS/FOOTAGES:** SW SW SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.651558 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.417806 **DATE COLLECTED:** 0 / 0 / 1947
SURFACE ELEVATION (FT.): 476.0 **LOGGED (FT.):** 3136.0 **LOG TYPE:**
SOURCE: GULF REF, BOZARTH R 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-66.0	BOND	CARTHAGE	LIMESTONE	-	542.0	

MAPID: 19100588000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 21 **QUARTERS/FOOTAGES:** SE SW SW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.658609 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.417664 **DATE COLLECTED:** 0 / 0 / 1947
SURFACE ELEVATION (FT.): 506.0 **LOGGED (FT.):** 3155.0 **LOG TYPE:**
SOURCE: MITCHELL M, ELLIS RAY 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-44.0	BOND	CARTHAGE	LIMESTONE	-	550.0	

MAPID: 19100589000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 21 **QUARTERS/FOOTAGES:** NE SE SW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.653888 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.419582 **DATE COLLECTED:** 0 / 0 / 1946
SURFACE ELEVATION (FT.): 491.0 **LOGGED (FT.):** 3124.0 **LOG TYPE:**
SOURCE: MARKHAM E, KEELR ELIS 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-57.0	BOND	CARTHAGE	LIMESTONE	-	548.0	

MAPID: 19103988000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' N line, 330' W line
QUADRANGLE: CRISP **LONGITUDE:** -88.623265 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.431087 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 438.0 **LOGGED (FT.):** 3209.0 **LOG TYPE:** Electric Log
SOURCE: PEP DRILLING COMPANY **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-540.0	CARBONDALE	HERRIN	COAL	3.0	978.0	
-575.0	CARBONDALE	BRIAR HILL	COAL	-	1013.0	
-619.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1057.0	
-704.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1142.0	

MAPID: 19100439000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 24 **QUARTERS/FOOTAGES:** NE NW SE
QUADRANGLE: CRISP **LONGITUDE:** -88.592763 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.423922 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 423.0 **LOGGED (FT.):** 3240.0 **LOG TYPE:** Electric Log
SOURCE: DICKERSON T B **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-547.0	CARBONDALE	HERRIN	COAL	3.0	970.0	
-591.0	CARBONDALE	BRIAR HILL	COAL	-	1014.0	
-627.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1050.0	
-707.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1130.0	

MAPID: 19100439000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 24 **QUARTERS/FOOTAGES:** NE NW SE
QUADRANGLE: CRISP **LONGITUDE:** -88.592763 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.423922 **DATE COLLECTED:** 0 / 0 / 1941
SURFACE ELEVATION (FT.): 423.0 **LOGGED (FT.):** 3240.0 **LOG TYPE:**
SOURCE: DICKERSN T, GREER J 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-107.0	BOND	CARTHAGE	LIMESTONE	-	530.0	
-546.0	CARBONDALE	HERRIN	COAL	-	969.0	

MAPID: 19100562000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 25 **QUARTERS/FOOTAGES:** NW SW SW
QUADRANGLE: CRISP **LONGITUDE:** -88.604897 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.405352 **DATE COLLECTED:** 0 / 0 / 1944
SURFACE ELEVATION (FT.): 412.0 **LOGGED (FT.):** 3175.0 **LOG TYPE:**
SOURCE: GULF REF, MEYERS F 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-58.0	BOND	CARTHAGE	LIMESTONE	-	470.0	

MAPID: 19103989000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NW
QUADRANGLE: CRISP **LONGITUDE:** -88.604767 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.414584 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 435.0 **LOGGED (FT.):** 3206.0 **LOG TYPE:** Electric Log
SOURCE: PIPES PURSIE E **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-535.0	CARBONDALE	HERRIN	COAL	3.0	970.0	
-572.0	CARBONDALE	BRIAR HILL	COAL	-	1007.0	
-612.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1047.0	
-698.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1133.0	

MAPID: 19100590000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 26 **QUARTERS/FOOTAGES:** NW NW NE
QUADRANGLE: CRISP **LONGITUDE:** -88.614044 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.41637 **DATE COLLECTED:** 0 / 0 / 1945
SURFACE ELEVATION (FT.): 441.0 **LOGGED (FT.):** 3158.0 **LOG TYPE:**
SOURCE: GULF REF, ANDERSON M 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-54.0	BOND	CARTHAGE	LIMESTONE	-	495.0	

MAPID: 19100591000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 26 **QUARTERS/FOOTAGES:** NE NW NW
QUADRANGLE: CRISP **LONGITUDE:** -88.621028 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.416313 **DATE COLLECTED:** 0 / 0 / 1947
SURFACE ELEVATION (FT.): 410.0 **LOGGED (FT.):** 3179.0 **LOG TYPE:**
SOURCE: GULF REF, LLOYD W 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-40.0	BOND	CARTHAGE	LIMESTONE	-	450.0	

MAPID: 19100592000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 26 **QUARTERS/FOOTAGES:** NE SW NW
QUADRANGLE: CRISP **LONGITUDE:** -88.621077 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.41263 **DATE COLLECTED:** 0 / 0 / 1947
SURFACE ELEVATION (FT.): 410.0 **LOGGED (FT.):** 3162.0 **LOG TYPE:**
SOURCE: OHIO OIL, NEWCMB ETL 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-36.0	BOND	CARTHAGE	LIMESTONE	-	446.0	

MAPID: 19100614000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 26 **QUARTERS/FOOTAGES:** SE SW SE
QUADRANGLE: CRISP **LONGITUDE:** -88.611913 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.40346 **DATE COLLECTED:** 0 / 0 / 1947
SURFACE ELEVATION (FT.): 414.0 **LOGGED (FT.):** 3097.0 **LOG TYPE:**
SOURCE: MITCHELL M, BARNET UNT 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-52.0	BOND	CARTHAGE	LIMESTONE	-	466.0	

MAPID: 19103990000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 330' E line

QUADRANGLE: CRISP **LONGITUDE:** -88.607053 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.416438 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 430.0 **LOGGED (FT.):** 3190.0 **LOG TYPE:** Electric Log

SOURCE: PEP DRILLING COMPANY **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-546.0	CARBONDALE	HERRIN	COAL	3.0	976.0	
-596.0	CARBONDALE	BRIAR HILL	COAL	-	1026.0	
-621.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1051.0	
-710.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1140.0	

MAPID: 19105678000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE NE

QUADRANGLE: CRISP **LONGITUDE:** -88.609421 **GEOLOGIST:** STRAAYER

CONFIDENTIAL: N **LATITUDE:** 38.414545 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 433.0 **LOGGED (FT.):** 1286.0 **LOG TYPE:** Electric Log

SOURCE: AUBREY TENNANT OIL CO 5678 **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
433.0			UNKNOWN	1210.0	0.0	
-777.0	CARBONDALE	COLCHESTER	COAL	1.0	1210.0	
-778.0	CARBONDALE		UNKNOWN	34.0	1211.0	
-812.0	CARBONDALE	DEKOVEN	COAL	3.0	1245.0	
-815.0	CARBONDALE		UNKNOWN	36.0	1248.0	
-851.0	CARBONDALE	DAVIS	COAL	2.0	1284.0	

MAPID: 19100593000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 27 **QUARTERS/FOOTAGES:** SW SW SW

QUADRANGLE: SHIELDS **LONGITUDE:** -88.642224 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.403145 **DATE COLLECTED:** 0 / 0 / 1945

SURFACE ELEVATION (FT.): 463.0 **LOGGED (FT.):** 2968.0 **LOG TYPE:**

SOURCE: MITCHELL M, CORNSTBL E 1 **WELL TYPE:** Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-41.0	BOND	CARTHAGE	LIMESTONE	-	504.0	

MAPID: 19100594000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 27 **QUARTERS/FOOTAGES:** NW SW SW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.642215 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.405001 **DATE COLLECTED:** 0 / 0 / 1946
SURFACE ELEVATION (FT.): 471.0 **LOGGED (FT.):** 3082.0 **LOG TYPE:**
SOURCE: MITCHELL M, CORNSTBL E 5 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-43.0	BOND	CARTHAGE	LIMESTONE	-	514.0	

MAPID: 19100595000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 27 **QUARTERS/FOOTAGES:** SW NW SW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.642207 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.406859 **DATE COLLECTED:** 0 / 0 / 1946
SURFACE ELEVATION (FT.): 476.0 **LOGGED (FT.):** 3126.0 **LOG TYPE:**
SOURCE: GULF REF, NORA 2 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-38.0	BOND	CARTHAGE	LIMESTONE	-	514.0	

MAPID: 19100596000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 27 **QUARTERS/FOOTAGES:** SW SW NW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.642194 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.410572 **DATE COLLECTED:** 0 / 0 / 1946
SURFACE ELEVATION (FT.): 477.0 **LOGGED (FT.):** 3129.0 **LOG TYPE:**
SOURCE: GULF REF, NORA 3 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-38.0	BOND	CARTHAGE	LIMESTONE	-	515.0	

MAPID: 19100597000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 27 **QUARTERS/FOOTAGES:** SE SW SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.630538 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.403318 **DATE COLLECTED:** 0 / 0 / 1946
SURFACE ELEVATION (FT.): 467.0 **LOGGED (FT.):** 3101.0 **LOG TYPE:**
SOURCE: GULF REF, CORNSTBL E 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-53.0	BOND	CARTHAGE	LIMESTONE	-	520.0	

MAPID: 19103991000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NE SW SW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.639864 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.405049 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 465.0 **LOGGED (FT.):** 3097.0 **LOG TYPE:** Electric Log
SOURCE: MITCHELL M J **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-565.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1030.0	
-650.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1115.0	

MAPID: 19100598000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 28 **QUARTERS/FOOTAGES:** NW SE SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.646925 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.404944 **DATE COLLECTED:** 0 / 0 / 1946
SURFACE ELEVATION (FT.): 486.0 **LOGGED (FT.):** 3108.0 **LOG TYPE:**
SOURCE: MITCHELL M, CORNSTUBBL 2 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-52.0	BOND	CARTHAGE	LIMESTONE	-	538.0	

MAPID: 19100599000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 28 **QUARTERS/FOOTAGES:** SE SE SW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.654017 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.403017 **DATE COLLECTED:** 0 / 0 / 1947
SURFACE ELEVATION (FT.): 451.0 **LOGGED (FT.):** 3082.0 **LOG TYPE:**
SOURCE: MITCHELL M, HENRY E 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-49.0	BOND	CARTHAGE	LIMESTONE	-	500.0	

MAPID: 19100600000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 28 **QUARTERS/FOOTAGES:** NE NE SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.64455 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.408684 **DATE COLLECTED:** 0 / 0 / 1946
SURFACE ELEVATION (FT.): 502.0 **LOGGED (FT.):** 3132.0 **LOG TYPE:**
SOURCE: SLIVKA&SON, SLEDGE 2 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-46.0	BOND	CARTHAGE	LIMESTONE	-	548.0	

MAPID: 19100601000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 28 **QUARTERS/FOOTAGES:** SW NW SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.651633 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.406735 **DATE COLLECTED:** 0 / 0 / 1946
SURFACE ELEVATION (FT.): 475.0 **LOGGED (FT.):** 3104.0 **LOG TYPE:**
SOURCE: SLIVKA&SON, SLEDGE 3 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-35.0	BOND	CARTHAGE	LIMESTONE	-	510.0	

MAPID: 19103992000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW NW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.661033 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.412121 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 468.0 **LOGGED (FT.):** 3113.0 **LOG TYPE:** Electric Log
SOURCE: DUNCAN, N. V., EST. OF **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-487.0	CARBONDALE	HERRIN	COAL	2.0	955.0	
-516.0	CARBONDALE	BRIAR HILL	COAL	-	984.0	
-549.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1017.0	
-628.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1096.0	

MAPID: 19100602000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 29 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.663449 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.402923 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 474.0 **LOGGED (FT.):** 1263.5 **LOG TYPE:** Electric Log
SOURCE: M.J.MITCHELL 602 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
474.0			UNKNOWN	1199.0	0.0	
-725.0	CARBONDALE	COLCHESTER	COAL	1.0	1199.0	
-726.0	CARBONDALE		UNKNOWN	33.0	1200.0	
-759.0	CARBONDALE	DEKOVEN	COAL	2.0	1233.0	
-761.0	CARBONDALE		UNKNOWN	27.0	1235.0	
-788.0	CARBONDALE	DAVIS	COAL	1.5	1262.0	

MAPID: 19100602000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 29 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.663449 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.402923 **DATE COLLECTED:** 0 / 0 / 1947
SURFACE ELEVATION (FT.): 474.0 **LOGGED (FT.):** 3158.0 **LOG TYPE:**
SOURCE: MITCHELL M, BLACKBRN S 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-51.0	BOND	CARTHAGE	LIMESTONE	-	525.0	
-500.0	CARBONDALE	HERRIN	COAL	-	974.0	

MAPID: 19103993000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.663367 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.410247 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 477.0 **LOGGED (FT.):** 3150.0 **LOG TYPE:** Electric Log
SOURCE: DUNCAN, N. V., EST. OF **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-491.0	CARBONDALE	HERRIN	COAL	2.0	968.0	
-527.0	CARBONDALE	BRIAR HILL	COAL	-	1004.0	
-549.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1026.0	
-627.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1104.0	

MAPID: 19100558000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 30 **QUARTERS/FOOTAGES:** NW NW NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.688932 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.415534 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 474.0 **LOGGED (FT.):** 3056.0 **LOG TYPE:**
SOURCE: MCBRIDEINC, GREGORY S 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-4.0	BOND	CARTHAGE	LIMESTONE	-	478.0	
-450.0	CARBONDALE	HERRIN	COAL	-	924.0	

MAPID: 19100603000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 30 **QUARTERS/FOOTAGES:** SE NE SW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.691309 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.406429 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 456.0 **LOGGED (FT.):** 3020.0 **LOG TYPE:** Electric Log
SOURCE: DELK INVEST CORP **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-501.0	CARBONDALE	HERRIN	COAL	4.0	957.0	
-542.0	CARBONDALE	BRIAR HILL	COAL	-	998.0	
-568.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1024.0	
-650.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1106.0	

MAPID: 19100603000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 30 **QUARTERS/FOOTAGES:** SE NE SW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.691309 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.406429 **DATE COLLECTED:** 0 / 0 / 1944
SURFACE ELEVATION (FT.): 456.0 **LOGGED (FT.):** 3020.0 **LOG TYPE:**
SOURCE: DELK CORP, JONES H 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-46.0	BOND	CARTHAGE	LIMESTONE	-	502.0	
-500.0	CARBONDALE	HERRIN	COAL	-	956.0	

MAPID: 19100604000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 30 **QUARTERS/FOOTAGES:** NW NE NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.684335 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.415538 **DATE COLLECTED:** 0 / 0 / 1943
SURFACE ELEVATION (FT.): 488.0 **LOGGED (FT.):** 3010.0 **LOG TYPE:**
SOURCE: MCBRIDEINC, NEWTON 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-6.0	BOND	CARTHAGE	LIMESTONE	-	494.0	
-449.0	CARBONDALE	HERRIN	COAL	-	937.0	

MAPID: 19100605000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 32 **QUARTERS/FOOTAGES:** SE SE NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.66349 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.395579 **DATE COLLECTED:** 0 / 0 / 1944
SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 3196.0 **LOG TYPE:**
SOURCE: TICK H P, HEIDGR ETL **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-77.0	BOND	CARTHAGE	LIMESTONE	-	537.0	
-528.0	CARBONDALE	HERRIN	COAL	-	988.0	

MAPID: 19103536000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE NW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.675155 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.399131 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 445.0 **LOGGED (FT.):** 3158.0 **LOG TYPE:** Electric Log
SOURCE: BREUER & CURREN OIL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-513.0	CARBONDALE	HERRIN	COAL	3.0	958.0	
-594.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1039.0	
-679.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1124.0	

MAPID: 19100606000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 33 **QUARTERS/FOOTAGES:** NE SE NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.644743 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.397604 **DATE COLLECTED:** 0 / 0 / 1945
SURFACE ELEVATION (FT.): 464.0 **LOGGED (FT.):** 3188.0 **LOG TYPE:**
SOURCE: SCHOCK W O, BOWYER J 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-32.0	BOND	CARTHAGE	LIMESTONE	-	496.0	

MAPID: 19100607000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 33 **QUARTERS/FOOTAGES:** NE NW NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.649327 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.401224 **DATE COLLECTED:** 0 / 0 / 1946
SURFACE ELEVATION (FT.): 466.0 **LOGGED (FT.):** 3105.0 **LOG TYPE:**
SOURCE: MAGNOLIA, TYLER C 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-48.0	BOND	CARTHAGE	LIMESTONE	-	514.0	

MAPID: 19100608000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 33 **QUARTERS/FOOTAGES:** SE NE SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.644942 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.392105 **DATE COLLECTED:** 0 / 0 / 1945
SURFACE ELEVATION (FT.): 454.0 **LOGGED (FT.):** 3235.0 **LOG TYPE:**
SOURCE: TEXAS CO, BOWYER J 1B **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-34.0	BOND	CARTHAGE	LIMESTONE	-	488.0	

MAPID: 19101457000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.64699 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.401251 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 465.0 **LOGGED (FT.):** 3108.0 **LOG TYPE:** Electric Log
SOURCE: GULF REFINING CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-539.0	CARBONDALE	BRIAR HILL	COAL	-	1004.0	
-567.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1032.0	
-653.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1118.0	

MAPID: 19100609000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 34 **QUARTERS/FOOTAGES:** SW SE NW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.637814 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.395854 **DATE COLLECTED:** 0 / 0 / 1947
SURFACE ELEVATION (FT.): 458.0 **LOGGED (FT.):** 3178.0 **LOG TYPE:**
SOURCE: TEXAS CO, BOWYER J 2A **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-13.0	BOND	CARTHAGE	LIMESTONE	-	471.0	

MAPID: 19100610000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 34 **QUARTERS/FOOTAGES:** NW SW NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.633076 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.397754 **DATE COLLECTED:** 0 / 0 / 1946
SURFACE ELEVATION (FT.): 457.0 **LOGGED (FT.):** 2977.0 **LOG TYPE:**
SOURCE: TEXAS CO, CURRY E 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-26.0	BOND	CARTHAGE	LIMESTONE	-	483.0	

MAPID: 19100611000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 34 **QUARTERS/FOOTAGES:** NE NE SE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.62624 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.394149 **DATE COLLECTED:** 0 / 0 / 1945
SURFACE ELEVATION (FT.): 457.0 **LOGGED (FT.):** 3267.0 **LOG TYPE:**
SOURCE: FOSTR&RUSH, EDMONSON 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-35.0	BOND	CARTHAGE	LIMESTONE	-	492.0	

MAPID: 19100612000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 34 **QUARTERS/FOOTAGES:** NE SE SW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.635709 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.390364 **DATE COLLECTED:** 0 / 0 / 1947
SURFACE ELEVATION (FT.): 446.0 **LOGGED (FT.):** 3000.0 **LOG TYPE:**
SOURCE: GULF REF, GREGORY M **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-26.0	BOND	CARTHAGE	LIMESTONE	-	472.0	

MAPID: 19101458000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NW
QUADRANGLE: SHIELDS **LONGITUDE:** -88.635324 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.399554 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 459.0 **LOGGED (FT.):** 3170.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-548.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1007.0	
-631.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1090.0	

MAPID: 19101851000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE
QUADRANGLE: CRISP **LONGITUDE:** -88.614283 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.401618 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 412.0 **LOGGED (FT.):** 3135.0 **LOG TYPE:** Electric Log
SOURCE: GEORGE & WRATHER OIL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-598.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1010.0	
-684.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1096.0	

MAPID: 19103775000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 5E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: CRISP **LONGITUDE:** -88.595726 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.394464 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 428.0 **LOGGED (FT.):** 3193.0 **LOG TYPE:** Electric Log
SOURCE: N V DUNCAN DRILLING **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-609.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1037.0	
-695.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1123.0	

MAPID: 19104003000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 1 **QUARTERS/FOOTAGES:** SE NW SW
QUADRANGLE: GEFF **LONGITUDE:** -88.487525 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.46431 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 483.0 **LOGGED (FT.):** 3205.0 **LOG TYPE:** Electric Log
SOURCE: MURVIN & STEBER DRLG. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-540.0	CARBONDALE	HERRIN	COAL	3.0	1023.0	
-580.0	CARBONDALE	BRIAR HILL	COAL	-	1063.0	
-622.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1105.0	
-703.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1186.0	

MAPID: 19104004000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SE
QUADRANGLE: CRISP **LONGITUDE:** -88.518828 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.464994 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 453.0 **LOGGED (FT.):** 3188.0 **LOG TYPE:** Electric Log
SOURCE: RELIANCE OIL CORP. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-532.0	CARBONDALE	HERRIN	COAL	2.0	985.0	
-620.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1073.0	
-702.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1155.0	

MAPID: 19100403000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 4 **QUARTERS/FOOTAGES:** 506' N line, 713' E line of NW
QUADRANGLE: CRISP **LONGITUDE:** -88.541553 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.473282 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 484.0 **LOGGED (FT.):** 3224.0 **LOG TYPE:** Electric Log
SOURCE: MID-CONTINENT PETROL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-542.0	CARBONDALE	HERRIN	COAL	5.0	1026.0	
-582.0	CARBONDALE	BRIAR HILL	COAL	-	1066.0	
-618.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1102.0	
-676.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1160.0	

MAPID: 19100403000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 4 **QUARTERS/FOOTAGES:** 506' N line, 713' E line of NW
QUADRANGLE: CRISP **LONGITUDE:** -88.541553 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.473282 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3224.0 **LOG TYPE:** Survey Sample Study
SOURCE: MID-CONTINENT PETROL **WELL TYPE:** Oil and Gas Test
COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 19100403000C **VERSION:** 4 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 4 **QUARTERS/FOOTAGES:** 506' N line, 713' E line of NW

QUADRANGLE: CRISP **LONGITUDE:** -88.541553 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.473282 **DATE COLLECTED:** 11 / 0 / 1942

SURFACE ELEVATION (FT.): 484.0 **LOGGED (FT.):** 3112.0 **LOG TYPE:** Survey Sample Study

SOURCE: MID-CONTINENT PET. CO 1 **WELL TYPE:** Plugged and/or Abandoned

COMMENT: COAL DIVISION CONTROL WELL 91

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
484.0			UNKNOWN	150.0	0.0	
334.0			SANDSTONE	54.0	150.0	WITH SILTSTONE
280.0			LIMESTONE	1.0	204.0	
279.0			BLACK SHALE & COAL	1.0	205.0	
278.0			SANDSTONE	8.0	206.0	
270.0			LIMESTONE	2.0	214.0	
268.0			SHALE	12.0	216.0	
256.0			SILTSTONE	50.0	228.0	WITH SANDSTONE
206.0			BLACK SHALE	2.0	278.0	WITH CLAY
204.0			SHALE	8.0	280.0	
196.0			SILTSTONE	8.0	288.0	
188.0			LIMESTONE	2.0	296.0	
186.0			SILTSTONE	8.0	298.0	
178.0			BLACK SHALE & COAL	1.0	306.0	WITH UNDERCLAY
177.0			SHALE	29.0	307.0	
148.0			SILTSTONE	40.0	336.0	
108.0			BLACK SHALE & COAL	2.0	376.0	WITH UNDERCLAY
106.0			SILTSTONE	28.0	378.0	WITH SANDSTONE
78.0			BLACK SHALE & COAL	2.0	406.0	
76.0			SILTSTONE	26.0	408.0	
50.0			SHALE	8.0	434.0	
42.0			SILTSTONE	18.0	442.0	
24.0			SHALE	12.0	460.0	
12.0			BLACK SHALE	1.0	472.0	
11.0			COAL	1.0	473.0	
10.0			UNDERCLAY	2.0	474.0	
8.0			SANDSTONE	16.0	476.0	
-8.0			LIMESTONE	3.0	492.0	
-11.0			SILTSTONE	25.0	495.0	
-36.0			SHALE	9.0	520.0	
-45.0			BLACK SHALE & COAL	2.0	529.0	WITH UNDERCLAY
-47.0			SHALE	6.0	531.0	
-53.0			LIMESTONE	1.0	537.0	
-54.0			BLACK SHALE & COAL	2.0	538.0	WITH UNDERCLAY
-56.0			SANDSTONE	20.0	540.0	
-76.0			SILTSTONE	16.0	560.0	
-92.0	BOND	CARTHAGE	LIMESTONE	7.0	576.0	
-99.0			BLACK SHALE	1.0	583.0	

-100.0		COAL	2.0	584.0	WITH UNDERCLAY
-102.0		SILTSTONE	67.0	586.0	WITH SANDSTONE
-169.0		LIMESTONE	1.0	653.0	
-170.0		BLACK SHALE	13.0	654.0	
-183.0		SHALE	16.0	667.0	
-199.0		LIMESTONE	1.0	683.0	
-200.0		BLACK SHALE & COAL	2.0	684.0	WITH UNDERCLAY
-202.0		SHALE	5.0	686.0	
-207.0		LIMESTONE	1.0	691.0	
-208.0		DARK SHALE	3.0	692.0	
-211.0		SILTSTONE	47.0	695.0	
-258.0		SHALE	13.0	742.0	
-271.0		LIMESTONE	1.0	755.0	
-272.0		SHALE	14.0	756.0	
-286.0		SANDSTONE	4.0	770.0	
-290.0		LIMESTONE	1.0	774.0	
-291.0		SANDSTONE	17.0	775.0	
-308.0		SHALE	22.0	792.0	
-330.0		SANDSTONE	10.0	814.0	
-340.0		SILTSTONE	17.0	824.0	
-357.0		LIMESTONE	2.0	841.0	
-359.0		SILTSTONE	1.0	843.0	
-360.0		SHALE	18.0	844.0	
-378.0		SILTSTONE	10.0	862.0	
-388.0		SANDSTONE	20.0	872.0	
-408.0		SILTSTONE	54.0	892.0	
-462.0		SHALE	35.0	946.0	
-497.0		BLACK SHALE	1.0	981.0	
-498.0		SILTSTONE	2.0	982.0	WITH BLACK SHALE
-500.0	CARBONDALE	COAL	4.0	984.0	APPROXIMATE THICKNESS
-504.0		UNDERCLAY	1.0	988.0	
-505.0		SILTSTONE	9.0	989.0	END OF SAMPLE STUDY

MAPID: 19103188000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SE
QUADRANGLE: CRISP **LONGITUDE:** -88.53803 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.46523 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 479.0 **LOGGED (FT.):** 3225.0 **LOG TYPE:** Electric Log
SOURCE: TIPPS, SAM **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-571.0	CARBONDALE	HERRIN	COAL	3.0	1050.0	
-608.0	CARBONDALE	BRIAR HILL	COAL	-	1087.0	
-646.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1125.0	
-721.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1200.0	

MAPID: 19103807000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 5 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SW
QUADRANGLE: CRISP **LONGITUDE:** -88.564485 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.467495 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 475.0 **LOGGED (FT.):** 3292.0 **LOG TYPE:** Electric Log
SOURCE: BARNSDALE INC., INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-569.0	CARBONDALE	HERRIN	COAL	3.0	1044.0	
-609.0	CARBONDALE	BRIAR HILL	COAL	-	1084.0	
-635.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1110.0	
-697.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1172.0	

MAPID: 19100725000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 7 **QUARTERS/FOOTAGES:** 1680' N line, 1658' E line
QUADRANGLE: CRISP **LONGITUDE:** -88.574089 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.456675 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 451.0 **LOGGED (FT.):** 3225.0 **LOG TYPE:** Electric Log
SOURCE: PURE OIL CO., THE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-559.0	CARBONDALE	HERRIN	COAL	4.0	1010.0	
-603.0	CARBONDALE	BRIAR HILL	COAL	-	1054.0	
-633.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1084.0	
-703.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1154.0	

MAPID: 19101381000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' S line, 1035' E line of SE

QUADRANGLE: CRISP **LONGITUDE:** -88.552747 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.447013 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 449.0 **LOGGED (FT.):** 3187.0 **LOG TYPE:** Electric Log

SOURCE: PURE OIL CO., THE **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-557.0	CARBONDALE	HERRIN	COAL	4.0	1006.0	
-603.0	CARBONDALE	BRIAR HILL	COAL	-	1052.0	
-634.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1083.0	
-710.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1159.0	

MAPID: 19132202000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 8 **QUARTERS/FOOTAGES:** 430' S line, 330' W line of SE

QUADRANGLE: CRISP **LONGITUDE:** -88.557558 **GEOLOGIST:** STRAAYER

CONFIDENTIAL: N **LATITUDE:** 38.447433 **DATE COLLECTED:** 11 / 1 / 1993

SURFACE ELEVATION (FT.): 435.0 **LOGGED (FT.):** 1211.0 **LOG TYPE:** Nuclear Log

SOURCE: BOOTH OIL CO INC 32202 **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
435.0			UNKNOWN	1150.0	0.0	
-715.0	CARBONDALE	COLCHESTER	COAL	1.0	1150.0	
-716.0	CARBONDALE		UNKNOWN	23.0	1151.0	
-739.0	CARBONDALE	DEKOVEN	COAL	2.0	1174.0	
-741.0	CARBONDALE		UNKNOWN	31.0	1176.0	
-772.0	CARBONDALE	LOWER DEKOVEN	COAL	1.0	1207.0	
-773.0	CARBONDALE		UNKNOWN	1.0	1208.0	
-774.0	CARBONDALE	DAVIS	COAL	2.0	1209.0	

MAPID: 19104006000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SE
QUADRANGLE: CRISP **LONGITUDE:** -88.535657 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.452427 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 459.0 **LOGGED (FT.):** 3234.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-561.0	CARBONDALE	HERRIN	COAL	4.0	1020.0	
-601.0	CARBONDALE	BRIAR HILL	COAL	-	1060.0	
-639.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1098.0	
-721.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1180.0	

MAPID: 19101389000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SE NE
QUADRANGLE: CRISP **LONGITUDE:** -88.511785 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.453779 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 428.0 **LOGGED (FT.):** 3330.0 **LOG TYPE:** Electric Log
SOURCE: IN FARM BUR. COOP. ASSOC **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-541.0	CARBONDALE	HERRIN	COAL	3.0	969.0	
-582.0	CARBONDALE	BRIAR HILL	COAL	-	1010.0	
-621.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1049.0	
-702.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1130.0	

MAPID: 19104008000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SW
QUADRANGLE: CRISP **LONGITUDE:** -88.502268 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.448154 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 446.0 **LOGGED (FT.):** 3080.0 **LOG TYPE:** Electric Log
SOURCE: ASHLAND OIL&REF. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-512.0	CARBONDALE	HERRIN	COAL	3.0	958.0	
-604.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1050.0	
-684.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1130.0	

MAPID: 19132399000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 11 **QUARTERS/FOOTAGES:** 380' S line, 330' W line of NE SW
QUADRANGLE: CRISP **LONGITUDE:** -88.504726 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.450138 **DATE COLLECTED:** 10 / 4 / 1995
SURFACE ELEVATION (FT.): 420.0 **LOGGED (FT.):** 1284.5 **LOG TYPE:** Electric Log
SOURCE: DEMIER OIL CO 32399 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
420.0			UNKNOWN	1215.0	0.0	
-795.0	CARBONDALE	COLCHESTER	COAL	1.0	1215.0	
-796.0	CARBONDALE		UNKNOWN	32.0	1216.0	
-828.0	CARBONDALE	DEKOVEN	COAL	2.5	1248.0	
-830.5	CARBONDALE		UNKNOWN	31.5	1250.5	
-862.0	CARBONDALE	DAVIS	COAL	2.5	1282.0	

MAPID: 19103538000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 12 **QUARTERS/FOOTAGES:** NW SE NE
QUADRANGLE: GEFF **LONGITUDE:** -88.475325 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.453876 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 477.0 **LOGGED (FT.):** 3320.0 **LOG TYPE:** Electric Log
SOURCE: SKILES OIL CORP **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-569.0	CARBONDALE	HERRIN	COAL	4.0	1046.0	
-611.0	CARBONDALE	BRIAR HILL	COAL	-	1088.0	
-637.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1114.0	
-723.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1200.0	

MAPID: 19103642000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 13 **QUARTERS/FOOTAGES:** SW SE NW
QUADRANGLE: GEFF **LONGITUDE:** -88.485448 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.438228 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 446.0 **LOGGED (FT.):** 3297.0 **LOG TYPE:** Electric Log
SOURCE: SHELL OIL COMPANY **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-548.0	CARBONDALE	HERRIN	COAL	3.0	994.0	
-632.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1078.0	
-714.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1160.0	

MAPID: 19101395000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE
QUADRANGLE: CRISP **LONGITUDE:** -88.500137 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.431282 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 429.0 **LOGGED (FT.):** 3823.0 **LOG TYPE:** Electric Log
SOURCE: THOMPSON R I **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-534.0	CARBONDALE	HERRIN	COAL	3.0	963.0	
-628.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1057.0	
-707.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1136.0	

MAPID: 19105155000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW SE
QUADRANGLE: CRISP **LONGITUDE:** -88.519246 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.433531 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 449.0 **LOGGED (FT.):** 1334.0 **LOG TYPE:** Electric Log
SOURCE: MAX E LAZICH 5155 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
449.0			UNKNOWN	1262.0	0.0	
-813.0	CARBONDALE	COLCHESTER	COAL	1.0	1262.0	
-814.0	CARBONDALE		UNKNOWN	38.0	1263.0	
-852.0	CARBONDALE	DEKOVEN	COAL	2.0	1301.0	
-854.0	CARBONDALE		UNKNOWN	29.0	1303.0	
-883.0	CARBONDALE	DAVIS	COAL	2.0	1332.0	

MAPID: 19105155000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW SE
QUADRANGLE: CRISP **LONGITUDE:** -88.519246 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.433531 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 449.0 **LOGGED (FT.):** 3285.0 **LOG TYPE:** Electric Log
SOURCE: LAZICH MAX E **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-548.0	CARBONDALE	HERRIN	COAL	3.0	997.0	
-587.0	CARBONDALE	BRIAR HILL	COAL	-	1036.0	
-631.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1080.0	
-714.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1163.0	

MAPID: 19101397000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW
QUADRANGLE: CRISP **LONGITUDE:** -88.540576 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.445066 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 444.0 **LOGGED (FT.):** 3205.0 **LOG TYPE:** Electric Log
SOURCE: LESH, D. B. DRILLING **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-599.0	CARBONDALE	BRIAR HILL	COAL	-	1043.0	
-635.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1079.0	
-714.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1158.0	

MAPID: 19104010000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SW
QUADRANGLE: CRISP **LONGITUDE:** -88.559974 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.436175 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 455.0 **LOGGED (FT.):** 3072.0 **LOG TYPE:** Electric Log
SOURCE: PEARSON, CHRIS SR., EST. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-547.0	CARBONDALE	HERRIN	COAL	3.0	1002.0	
-590.0	CARBONDALE	BRIAR HILL	COAL	-	1045.0	
-623.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1078.0	
-701.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1156.0	

MAPID: 19100716000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NE
QUADRANGLE: CRISP **LONGITUDE:** -88.569551 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.441998 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 454.0 **LOGGED (FT.):** 3276.0 **LOG TYPE:** Electric Log
SOURCE: LEAVITT S H **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-537.0	CARBONDALE	HERRIN	COAL	3.0	991.0	
-584.0	CARBONDALE	BRIAR HILL	COAL	-	1038.0	
-607.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1061.0	
-686.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1140.0	

MAPID: 19104011000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SE
QUADRANGLE: CRISP **LONGITUDE:** -88.569695 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.41987 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 450.0 **LOGGED (FT.):** 3229.0 **LOG TYPE:** Electric Log
SOURCE: MIAMI OPERATING CO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-541.0	CARBONDALE	HERRIN	COAL	2.0	991.0	
-584.0	CARBONDALE	BRIAR HILL	COAL	-	1034.0	
-614.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1064.0	
-694.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1144.0	

MAPID: 19100395000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 20 **QUARTERS/FOOTAGES:** 660' S line, 660' W line of NW NE
QUADRANGLE: CRISP **LONGITUDE:** -88.556572 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.42959 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 447.0 **LOGGED (FT.):** 3200.0 **LOG TYPE:** Electric Log
SOURCE: TAYLOR & DUNCAN, ETAL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-537.0	CARBONDALE	HERRIN	COAL	3.0	984.0	
-577.0	CARBONDALE	BRIAR HILL	COAL	-	1024.0	
-610.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1057.0	
-687.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1134.0	

MAPID: 19100395000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 20 **QUARTERS/FOOTAGES:** 660' S line, 660' W line of NW NE
QUADRANGLE: CRISP **LONGITUDE:** -88.556572 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.42959 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3200.0 **LOG TYPE:** Survey Sample Study
SOURCE: TAYLOR & DUNCAN, 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	THICKNESS (FT.) OVERBURDEN	COMMENT
-			NO RECORD	0.0	0.0	

MAPID: 19100395000C **VERSION:** 4 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 20 **QUARTERS/FOOTAGES:** 660' S line, 660' W line of NW NE

QUADRANGLE: CRISP **LONGITUDE:** -88.556572 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.42959 **DATE COLLECTED:** 5 / 0 / 1942

SURFACE ELEVATION (FT.): 447.0 **LOGGED (FT.):** 3200.0 **LOG TYPE:** Survey Sample Study

SOURCE: TAYLOR, DUNCAN ET AL 1 **WELL TYPE:** Producer-Oil and Gas

COMMENT: COAL DIVISION STUDY 132-1040

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
447.0			UNKNOWN	132.0	0.0	
315.0			SANDSTONE	18.0	132.0	
297.0			SHALE	4.0	150.0	
293.0			BLACK SHALE & COAL	2.0	154.0	
291.0			SHALE	6.0	156.0	
285.0			LIMESTONE & SHALE	2.0	162.0	
283.0			SHALE	6.0	164.0	
277.0			LIMESTONE	2.0	170.0	
275.0			SHALE	43.0	172.0	
232.0			COAL	1.0	215.0	
231.0			COAL WITH SHALE	4.0	216.0	
227.0			SHALE	9.0	220.0	
218.0			LIMESTONE	2.0	229.0	
216.0			SHALE	9.0	231.0	
207.0			LIMESTONE	3.0	240.0	
204.0			SHALE	3.0	243.0	
201.0			COAL	0.5	246.0	
200.5			UNDERCLAY	0.5	246.5	
200.0			SHALE	18.0	247.0	
182.0			LIMESTONE	1.0	265.0	
181.0			SHALE	4.0	266.0	
177.0			SANDSTONE	10.0	270.0	
167.0			SANDSTONE/SHALE	8.0	280.0	
159.0			SHALE	77.0	288.0	
82.0			LIMESTONE	1.0	365.0	
81.0			SHALE	4.0	366.0	
77.0			COAL	1.0	370.0	
76.0			UNDERCLAY	0.5	371.0	
75.5			SHALE	6.5	371.5	
69.0			LIMESTONE	2.0	378.0	
67.0			BLACK SHALE	2.0	380.0	
65.0			SHALE	32.0	382.0	WITH SILTSTONE
33.0			BLACK SHALE	1.0	414.0	
32.0			COAL	1.0	415.0	
31.0			SHALE	2.0	416.0	
29.0			SANDSTONE	1.0	418.0	
28.0			LIMESTONE	7.0	419.0	
21.0			SANDSTONE	10.0	426.0	WITH BLACK SHALE
11.0			SHALE	2.0	436.0	

9.0			LIMESTONE	2.0	438.0	
7.0			SHALE	8.0	440.0	
-1.0			SILTSTONE	2.0	448.0	
-3.0			SANDSTONE	14.0	450.0	
-17.0			DARK SHALE	18.0	464.0	
-35.0			LIMESTONE	0.5	482.0	
-35.5			DARK SHALE	1.5	482.5	
-37.0			COAL	2.0	484.0	
-39.0			UNDERCLAY	0.7	486.0	
-39.7			LIMESTONE	1.3	486.7	
-41.0			SHALE	2.0	488.0	
-43.0			SANDSTONE	6.0	490.0	
-49.0			SHALE	24.0	496.0	
-73.0			LIMESTONE	8.0	520.0	
-81.0			SHALE	44.5	528.0	WITH BLACK SHALE
-125.5			LIMESTONE	0.5	572.5	
-126.0			SHALE	51.0	573.0	
-177.0			LIMESTONE	1.0	624.0	
-178.0			SHALE	12.0	625.0	
-190.0			COAL	1.0	637.0	
-191.0			BLACK SHALE	4.0	638.0	
-195.0			SHALE	10.0	642.0	
-205.0			LIMESTONE	1.0	652.0	
-206.0			SHALE	31.0	653.0	
-237.0			SANDSTONE	12.0	684.0	
-249.0			SHALE	12.0	696.0	
-261.0			LIMESTONE	2.0	708.0	
-263.0			SHALE	10.0	710.0	
-273.0			BLACK SHALE	0.6	720.0	
-273.6			COAL	1.4	720.6	
-275.0			UNDERCLAY	0.4	722.0	
-275.4			SHALE	0.6	722.4	
-276.0			LIMESTONE	3.0	723.0	
-279.0			SHALE	22.0	726.0	
-301.0			COAL	2.0	748.0	
-303.0			SHALE	4.0	750.0	COAL STRINGERS
-307.0			SHALE	34.0	754.0	
-341.0			SANDSTONE	28.0	788.0	
-369.0	MODESTO		DARK SHALE	3.0	816.0	
-372.0	MODESTO		BLACK SHALE & COAL	1.0	819.0	
-373.0	MODESTO		SHALE	4.0	820.0	
-377.0	MODESTO		SANDSTONE	5.5	824.0	
-382.5	MODESTO		COAL	0.5	829.5	
-383.0	MODESTO		SHALE	64.0	830.0	
-447.0	MODESTO		LIMESTONE	2.0	894.0	
-449.0	MODESTO		SHALE	22.0	896.0	
-471.0	MODESTO	PIASA	LIMESTONE	2.0	918.0	

-473.0	MODESTO		SHALE	6.0	920.0	
-479.0	CARBONDALE	DANVILLE	COAL	4.0	926.0	APPROXIMATE THICKNESS
-483.0	CARBONDALE		SHALE	18.0	930.0	
-501.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	948.0	
-505.0	CARBONDALE		SILTSTONE	4.0	952.0	
-509.0	CARBONDALE	ANVIL ROCK	SANDSTONE	12.0	956.0	
-521.0	CARBONDALE		SHALE	12.0	968.0	
-533.0	CARBONDALE	BRERETON	LIMESTONE	4.0	980.0	
-537.0	CARBONDALE	HERRIN	COAL	5.0	984.0	APPROXIMATE THICKNESS
-542.0	CARBONDALE		SILTSTONE	11.0	989.0	
-553.0	CARBONDALE		SHALE	8.0	1000.0	
-561.0	CARBONDALE		SHALE & SANDSTONE	10.0	1008.0	
-571.0	CARBONDALE		SILTSTONE	10.0	1018.0	
-581.0	CARBONDALE	BRIAR HILL	COAL	2.0	1028.0	APPROXIMATE THICKNESS
-583.0	CARBONDALE		SHALE	10.0	1030.0	

MAPID: 19104012000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW

QUADRANGLE: CRISP **LONGITUDE:** -88.567373 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.423534 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 453.0 **LOGGED (FT.):** 3167.0 **LOG TYPE:** Electric Log

SOURCE: MIAMI OPERATING CO **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-533.0	CARBONDALE	HERRIN	COAL	4.0	986.0	
-578.0	CARBONDALE	BRIAR HILL	COAL	-	1031.0	
-607.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1060.0	
-684.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1137.0	

MAPID: 19104015000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 21 **QUARTERS/FOOTAGES:** 430' S line, 330' E line of SW

QUADRANGLE: CRISP **LONGITUDE:** -88.541032 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.417661 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 447.0 **LOGGED (FT.):** 3190.0 **LOG TYPE:** Electric Log

SOURCE: CUMMINGS N A **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-480.0	CARBONDALE	HERRIN	COAL	3.0	927.0	
-538.0	CARBONDALE	BRIAR HILL	COAL	-	985.0	
-567.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1014.0	
-649.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1096.0	

MAPID: 19104016000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 22 **QUARTERS/FOOTAGES:** 660' N line, 330' W line of SW
QUADRANGLE: CRISP **LONGITUDE:** -88.528889 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.42187 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 441.0 **LOGGED (FT.):** 3259.0 **LOG TYPE:** Electric Log
SOURCE: SINCLAIR WYOMING OIL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-519.0	CARBONDALE	HERRIN	COAL	2.0	960.0	
-566.0	CARBONDALE	BRIAR HILL	COAL	-	1007.0	
-597.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1038.0	
-679.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1120.0	

MAPID: 19104017000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** 370' N line, 330' E line of SE SE
QUADRANGLE: GEFF **LONGITUDE:** -88.493065 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.418109 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 428.0 **LOGGED (FT.):** 3262.0 **LOG TYPE:** Electric Log
SOURCE: ROBINSON & PUCKETT, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-522.0	CARBONDALE	HERRIN	COAL	3.0	950.0	
-616.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1044.0	
-701.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1129.0	

MAPID: 19104019000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 24 **QUARTERS/FOOTAGES:** NE SW SW
QUADRANGLE: GEFF **LONGITUDE:** -88.48829 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.417982 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 434.0 **LOGGED (FT.):** 3275.0 **LOG TYPE:** Electric Log
SOURCE: STRUM, A. & SONS **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-548.0	CARBONDALE	HERRIN	COAL	3.0	982.0	
-646.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1080.0	
-726.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1160.0	

MAPID: 19103105000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 25 **QUARTERS/FOOTAGES:** SE SE SW
QUADRANGLE: GEFF **LONGITUDE:** -88.483995 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.401146 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 429.0 **LOGGED (FT.):** 3317.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-612.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1041.0	
-720.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1149.0	

MAPID: 19100061000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 26 **QUARTERS/FOOTAGES:** 660' N line, 330' W line of NE NW
QUADRANGLE: CRISP **LONGITUDE:** -88.505369 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.41374 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 412.0 **LOGGED (FT.):** 1294.0 **LOG TYPE:** Electric Log
SOURCE: C.F. FRAZIER 61 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
412.0			UNKNOWN	1212.0	0.0	
-800.0	CARBONDALE	COLCHESTER	COAL	1.0	1212.0	
-801.0	CARBONDALE		UNKNOWN	41.0	1213.0	
-842.0	CARBONDALE	DEKOVEN	COAL	2.0	1254.0	
-844.0	CARBONDALE		UNKNOWN	35.0	1256.0	
-879.0	CARBONDALE	DAVIS	COAL	3.0	1291.0	

MAPID: 19104020000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NE SE
QUADRANGLE: GEFF **LONGITUDE:** -88.493463 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.405235 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 433.0 **LOGGED (FT.):** 3254.0 **LOG TYPE:** Electric Log
SOURCE: WATKINS DRLG CO INC **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-613.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1046.0	
-711.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1144.0	

MAPID: 19104021000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 27 **QUARTERS/FOOTAGES:** 671' S line, 330' W line of SE SW
QUADRANGLE: CRISP **LONGITUDE:** -88.52485 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.403034 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 453.0 **LOGGED (FT.):** 3202.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-532.0	CARBONDALE	BRIAR HILL	COAL	-	985.0	
-564.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1017.0	
-657.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1110.0	

MAPID: 19104022000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 28 **QUARTERS/FOOTAGES:** NW SE SE
QUADRANGLE: CRISP **LONGITUDE:** -88.534287 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.404165 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 466.0 **LOGGED (FT.):** 3172.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-471.0	CARBONDALE	HERRIN	COAL	2.0	937.0	
-521.0	CARBONDALE	BRIAR HILL	COAL	-	987.0	
-550.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1016.0	
-644.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1110.0	

MAPID: 19103809000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 29 **QUARTERS/FOOTAGES:** SW SE NE
QUADRANGLE: CRISP **LONGITUDE:** -88.553342 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.410032 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 443.0 **LOGGED (FT.):** 3185.0 **LOG TYPE:** Electric Log
SOURCE: PEARSON, CHRIS SR., EST. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-504.0	CARBONDALE	HERRIN	COAL	-	947.0	
-560.0	CARBONDALE	BRIAR HILL	COAL	-	1003.0	
-582.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1025.0	
-677.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1120.0	

MAPID: 19132336000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 29 **QUARTERS/FOOTAGES:** 990' N line, 330' E line of NE

QUADRANGLE: CRISP **LONGITUDE:** -88.550881 **GEOLOGIST:** STRAAYER

CONFIDENTIAL: N **LATITUDE:** 38.413817 **DATE COLLECTED:** 1 / 5 / 1995

SURFACE ELEVATION (FT.): 444.0 **LOGGED (FT.):** 1281.0 **LOG TYPE:** Nuclear Log

SOURCE: SHAKESPEARE OIL CO. **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
444.0			UNKNOWN	1197.0	0.0	
-753.0	CARBONDALE	COLCHESTER	COAL	1.0	1197.0	THICKNESS LESS THAN 16"
-754.0	CARBONDALE		UNKNOWN	43.0	1198.0	
-797.0	CARBONDALE	DEKOVEN	COAL	3.0	1241.0	
-800.0	CARBONDALE		UNKNOWN	33.0	1244.0	
-833.0	CARBONDALE	DAVIS	COAL	4.0	1277.0	

MAPID: 19104023000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 30 **QUARTERS/FOOTAGES:** NW SW SW

QUADRANGLE: CRISP **LONGITUDE:** -88.586118 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.4051 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 440.0 **LOGGED (FT.):** 3220.0 **LOG TYPE:** Electric Log

SOURCE: STANFORD OIL & GAS **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-555.0	CARBONDALE	HERRIN	COAL	2.0	995.0	
-596.0	CARBONDALE	BRIAR HILL	COAL	-	1036.0	
-629.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1069.0	
-720.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1160.0	

MAPID: 19104025000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW NW

QUADRANGLE: CRISP **LONGITUDE:** -88.586288 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.397838 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 434.0 **LOGGED (FT.):** 3982.0 **LOG TYPE:** Electric Log

SOURCE: BOLIN, D. H. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-526.0	CARBONDALE	HERRIN	COAL	3.0	960.0	
-569.0	CARBONDALE	BRIAR HILL	COAL	-	1003.0	
-603.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1037.0	
-693.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1127.0	

MAPID: 19100398000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 32 **QUARTERS/FOOTAGES:** NW SE

QUADRANGLE: CRISP **LONGITUDE:** -88.557165 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.39262 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 435.0 **LOGGED (FT.):** 3230.0 **LOG TYPE:** Electric Log

SOURCE: GULF REFINING CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-605.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1040.0	
-705.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1140.0	

MAPID: 19100398000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 32 **QUARTERS/FOOTAGES:** NW SE

QUADRANGLE: CRISP **LONGITUDE:** -88.557165 **GEOLOGIST:** HINES

CONFIDENTIAL: N **LATITUDE:** 38.39262 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3230.0 **LOG TYPE:** Survey Sample Study

SOURCE: GULF REFINING CO. **WELL TYPE:** Oil and Gas Test

COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 19100398000C **VERSION:** 4 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 32 **QUARTERS/FOOTAGES:** NW SE

QUADRANGLE: CRISP **LONGITUDE:** -88.557165 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.39262 **DATE COLLECTED:** 9 / 0 / 1942

SURFACE ELEVATION (FT.): 435.0 **LOGGED (FT.):** 1500.0 **LOG TYPE:** Survey Sample Study

SOURCE: GULF REFINING COA 1 **WELL TYPE:** Dry Hole

COMMENT: SAMPLE STUDY CONTROL WELL #67

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
435.0			UNKNOWN	110.0	0.0	
325.0			SANDSTONE	6.0	110.0	
319.0			LIMESTONE	4.0	116.0	
315.0			SHALE	70.0	120.0	WITH SILTSTONE
245.0			SANDSTONE	8.0	190.0	
237.0			LIMESTONE	6.0	198.0	
231.0			SANDSTONE	48.0	204.0	
183.0			LIMESTONE	4.0	252.0	
179.0			SANDSTONE	74.0	256.0	WITH SILTSTONE
105.0			LIMESTONE	2.0	330.0	
103.0			BLACK SHALE	3.0	332.0	
100.0			COAL	1.0	335.0	STREAK
99.0			UNDERCLAY	4.0	336.0	
95.0			SILTY SHALE	34.0	340.0	
61.0			COAL	1.0	374.0	APPROXIMATE THICKNESS
60.0			UNDERCLAY	3.0	375.0	
57.0			SANDSTONE	2.0	378.0	
55.0			SHALE	4.0	380.0	
51.0			SANDSTONE	46.0	384.0	
5.0			SHALE	13.0	430.0	
-8.0			BLACK SHALE	1.0	443.0	
-9.0			COAL	1.0	444.0	STREAK
-10.0			UNDERCLAY	1.0	445.0	
-11.0			SHALE	20.0	446.0	
-31.0			LIMESTONE & SHALE	6.0	466.0	
-37.0	BOND	CARTHAGE	LIMESTONE	16.0	472.0	
-53.0	MODESTO		SHALE	1.0	488.0	
-54.0	MODESTO		BLACK SHALE	1.0	489.0	
-55.0	MODESTO		UNDERCLAY	2.0	490.0	
-57.0	MODESTO		SHALE & SANDSTONE	6.0	492.0	
-63.0	MODESTO		BLACK SHALE & COAL	2.0	498.0	WITH UNDERCLAY
-65.0	MODESTO		SANDSTONE/SHALE	42.0	500.0	WITH MINOR LS
-107.0	MODESTO		CLAYSTONE & SHALE	2.0	542.0	
-109.0	MODESTO		SILTY SHALE	64.0	544.0	
-173.0	MODESTO		BLACK SHALE	4.0	608.0	
-177.0	MODESTO		UNDERCLAY	6.0	612.0	
-183.0	MODESTO		SILTY SHALE	112.0	618.0	
-295.0	MODESTO		SANDSTONE	70.0	730.0	
-365.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	800.0	

-374.0	MODESTO		SHALE	1.0	809.0	
-375.0	MODESTO		SILTSTONE	14.0	810.0	
-389.0	MODESTO		SHALE	42.0	824.0	
-431.0	MODESTO		SILTSTONE	4.0	866.0	
-435.0	MODESTO		SHALE	2.0	870.0	
-437.0	MODESTO		BLACK SHALE	2.0	872.0	
-439.0	CARBONDALE	DANVILLE	COAL	1.0	874.0	APPROXIMATE THICKNESS
-440.0	CARBONDALE		SHALE	25.0	875.0	
-465.0	CARBONDALE	ANVIL ROCK	SANDSTONE	120.0	900.0	
-585.0	CARBONDALE		SILTSTONE	16.0	1020.0	WITH SHALE
-601.0	CARBONDALE		LIMESTONE	2.0	1036.0	
-603.0	CARBONDALE		SHALE	2.0	1038.0	
-605.0	CARBONDALE	TURNER MINE	BLACK SHALE	6.0	1040.0	
-611.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1046.0	APPROXIMATE THICKNESS
-613.0	CARBONDALE		SHALE & SANDSTONE	42.0	1048.0	
-655.0	CARBONDALE		SILTSTONE	40.0	1090.0	
-695.0	CARBONDALE		SHALE	6.0	1130.0	
-701.0	CARBONDALE		SILTSTONE	4.0	1136.0	
-705.0	CARBONDALE		LIMESTONE	2.0	1140.0	
-707.0	CARBONDALE		BLACK SHALE	1.0	1142.0	
-708.0	CARBONDALE		SHALE	5.0	1143.0	
-713.0	CARBONDALE	HOUCHIN CREEK	BLACK SHALE & COAL	2.0	1148.0	
-715.0	CARBONDALE		SHALE	4.0	1150.0	
-719.0	CARBONDALE		BLACK SHALE	4.0	1154.0	
-723.0	CARBONDALE		SHALE & SANDSTONE	22.0	1158.0	
-745.0	CARBONDALE		SILTSTONE	50.0	1180.0	WITH SHALE
-795.0	CARBONDALE		SHALE & SANDSTONE	38.0	1230.0	
-833.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	1268.0	
-835.0	CARBONDALE	COLCHESTER	COAL	2.0	1270.0	APPROXIMATE THICKNESS
-837.0	SPOON		SHALE	30.0	1272.0	WITH SANDSTONE INTERBEDS
-867.0	SPOON		BLACK SHALE	2.0	1302.0	
-869.0	SPOON	SEELYVILLE	COAL	2.0	1304.0	APPROXIMATE THICKNESS
-871.0	SPOON		UNDERCLAY	2.0	1306.0	
-873.0	SPOON		SHALE	12.0	1308.0	
-885.0	SPOON		UNDERCLAY	1.0	1320.0	
-886.0	SPOON		SILTSTONE	5.0	1321.0	
-891.0	SPOON		SHALE	6.0	1326.0	
-897.0	SPOON		LIMESTONE	4.0	1332.0	
-901.0			SANDSTONE	60.0	1336.0	WITH SILTSTONE
-961.0			SHALE	30.0	1396.0	
-991.0			CLAYSTONE & SHALE	2.0	1426.0	UNDERCLAY
-993.0			SANDSTONE	38.0	1428.0	
-1031.0			LIMESTONE	2.0	1466.0	
-1033.0			SHALE	18.0	1468.0	
-1051.0			SHALE & SANDSTONE	14.0	1486.0	

MAPID: 19104024000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 33 **QUARTERS/FOOTAGES:** NE SE
QUADRANGLE: CRISP **LONGITUDE:** -88.53332 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.392114 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 450.0 **LOGGED (FT.):** 3224.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-560.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1010.0	
-660.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1110.0	

MAPID: 19104026000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 34 **QUARTERS/FOOTAGES:** 483' S line, 330' W line of NW SW
QUADRANGLE: CRISP **LONGITUDE:** -88.529782 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.391537 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 446.0 **LOGGED (FT.):** 3243.0 **LOG TYPE:** Electric Log
SOURCE: RELIANCE OIL CORP. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-544.0	CARBONDALE	BRIAR HILL	COAL	-	990.0	
-571.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1017.0	
-671.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1117.0	

MAPID: 19104336000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 35 **QUARTERS/FOOTAGES:** NW NW NE
QUADRANGLE: CRISP **LONGITUDE:** -88.50096 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.399784 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 418.0 **LOGGED (FT.):** 3386.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-647.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1065.0	
-752.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1170.0	

MAPID: 19104027000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 6E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SW
QUADRANGLE: GEFF **LONGITUDE:** -88.484415 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.388187 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 408.0 **LOGGED (FT.):** 3307.0 **LOG TYPE:** Electric Log
SOURCE: KENNARD J L **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-580.0	CARBONDALE	HERRIN	COAL	3.0	988.0	
-612.0	CARBONDALE	BRIAR HILL	COAL	-	1020.0	
-664.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1072.0	
-768.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1176.0	

MAPID: 19101287000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NE
QUADRANGLE: GEFF **LONGITUDE:** -88.3907 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.46521 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 456.0 **LOGGED (FT.):** 3264.0 **LOG TYPE:** Electric Log
SOURCE: MAMMOTH PROD & REFG **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-553.0	CARBONDALE	HERRIN	COAL	2.0	1009.0	
-650.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1106.0	
-756.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1212.0	

MAPID: 19103787000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SE
QUADRANGLE: GEFF **LONGITUDE:** -88.406938 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.459937 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 469.0 **LOGGED (FT.):** 3200.0 **LOG TYPE:** Electric Log
SOURCE: GENERAL AMERICAN OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-556.0	CARBONDALE	HERRIN	COAL	2.0	1025.0	
-607.0	CARBONDALE	BRIAR HILL	COAL	-	1076.0	
-638.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1107.0	
-743.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1212.0	

MAPID: 19101296000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 4 **QUARTERS/FOOTAGES:** NW NW NE
QUADRANGLE: GEFF **LONGITUDE:** -88.429688 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.471202 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 450.0 **LOGGED (FT.):** 1142.0 **LOG TYPE:** Electric Log
SOURCE: SLAGTER ARTHUR J JR **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-192.0	BOND	CARTHAGE	LIMESTONE	-	642.0	
-620.0	CARBONDALE	HERRIN	COAL	-	1070.0	
-688.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1138.0	

MAPID: 19103969000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE NE
QUADRANGLE: GEFF **LONGITUDE:** -88.425126 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.469296 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 464.0 **LOGGED (FT.):** 3225.0 **LOG TYPE:** Electric Log
SOURCE: ROGNLIEN C M **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-553.0	CARBONDALE	HERRIN	COAL	3.0	1017.0	
-606.0	CARBONDALE	BRIAR HILL	COAL	-	1070.0	
-629.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1093.0	
-726.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1190.0	

MAPID: 19100755000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 5 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE
QUADRANGLE: GEFF **LONGITUDE:** -88.441383 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.464078 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 479.0 **LOGGED (FT.):** 3266.0 **LOG TYPE:** Electric Log
SOURCE: SLAGTER ARTHUR J JR **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-565.0	CARBONDALE	HERRIN	COAL	3.0	1044.0	
-641.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1120.0	
-734.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1213.0	

MAPID: 19103970000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' S line, 330' E line
QUADRANGLE: GEFF **LONGITUDE:** -88.460067 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.45885 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 481.0 **LOGGED (FT.):** 3364.0 **LOG TYPE:** Electric Log
SOURCE: NOAL PETROLEUM **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-591.0	CARBONDALE	HERRIN	COAL	3.0	1072.0	
-675.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1156.0	
-763.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1244.0	

MAPID: 19101298000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' S line, 1155' E line
QUADRANGLE: GEFF **LONGITUDE:** -88.463435 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.444283 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 470.0 **LOGGED (FT.):** 3330.0 **LOG TYPE:** Electric Log
SOURCE: BARTMES, ROSS **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-572.0	CARBONDALE	HERRIN	COAL	3.0	1042.0	
-620.0	CARBONDALE	BRIAR HILL	COAL	-	1090.0	
-645.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1115.0	
-736.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1206.0	

MAPID: 19101300000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 8 **QUARTERS/FOOTAGES:** 1650' S line, 330' W line
QUADRANGLE: GEFF **LONGITUDE:** -88.458106 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.447855 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 484.0 **LOGGED (FT.):** 3350.0 **LOG TYPE:** Electric Log
SOURCE: MACDONELL CO. OF LIMA **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-586.0	CARBONDALE	HERRIN	COAL	2.0	1070.0	
-664.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1148.0	
-758.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1242.0	

MAPID: 19104185000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NE
QUADRANGLE: GEFF **LONGITUDE:** -88.446275 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.455004 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 489.0 **LOGGED (FT.):** 1387.8 **LOG TYPE:** Electric Log
SOURCE: THO NATION 0IL CO **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-836.0	CARBONDALE	COLCHESTER	COAL	0.5	1325.0	
-871.0	CARBONDALE	DEKOVEN	COAL	3.0	1360.0	
-874.0	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1363.0	
-895.0	CARBONDALE	DAVIS	COAL	3.3	1384.0	

MAPID: 19103386000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' N line, 990' E line
QUADRANGLE: GEFF **LONGITUDE:** -88.425428 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.456507 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 466.0 **LOGGED (FT.):** 3229.0 **LOG TYPE:** Electric Log
SOURCE: NATION OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-564.0	CARBONDALE	HERRIN	COAL	3.0	1030.0	
-618.0	CARBONDALE	BRIAR HILL	COAL	-	1084.0	
-640.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1106.0	
-738.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1204.0	

MAPID: 19103971000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' N line, 167' E line of NW
QUADRANGLE: GEFF **LONGITUDE:** -88.413355 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.456355 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 3214.0 **LOG TYPE:** Electric Log
SOURCE: PURE OIL CO., THE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-556.0	CARBONDALE	HERRIN	COAL	3.0	1016.0	
-606.0	CARBONDALE	BRIAR HILL	COAL	-	1066.0	
-632.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1092.0	
-738.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1198.0	

MAPID: 19103972000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 11 **QUARTERS/FOOTAGES:** 469' S line, 737' E line of SW SW

QUADRANGLE: GEFF **LONGITUDE:** -88.401891 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.443784 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 459.0 **LOGGED (FT.):** 3148.0 **LOG TYPE:** Electric Log

SOURCE: BARTMES, ROSS **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-573.0	CARBONDALE	HERRIN	COAL	3.0	1032.0	
-659.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1118.0	
-771.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1230.0	

MAPID: 19111887000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 11 **QUARTERS/FOOTAGES:** 990' N line, 330' E line of NW NW

QUADRANGLE: GEFF **LONGITUDE:** -88.400176 **GEOLOGIST:** JACOBSON

CONFIDENTIAL: N **LATITUDE:** 38.454367 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 402.0 **LOGGED (FT.):** 1381.0 **LOG TYPE:** Electric Log

SOURCE: MURYIN & STEBOR DRLG.CO **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
402.0			UNKNOWN	1310.0	0.0	
-908.0	CARBONDALE	COLCHESTER	COAL	0.5	1310.0	
-908.5	CARBONDALE		UNKNOWN	49.5	1310.5	
-958.0	CARBONDALE	DEKOVEN	COAL	1.5	1360.0	
-959.5	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1361.5	
-959.6	CARBONDALE		UNKNOWN	18.5	1361.6	
-978.0	CARBONDALE	DAVIS	COAL	1.0	1380.0	

MAPID: 19101315000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE

QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.368077 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.448397 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 410.0 **LOGGED (FT.):** 3283.0 **LOG TYPE:** Electric Log

SOURCE: SOHIO PETROLEUM CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-594.0	CARBONDALE	HERRIN	COAL	3.0	1004.0	
-674.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1084.0	
-784.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1194.0	

MAPID: 19103973000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SE

QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.370352 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.448428 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 405.0 **LOGGED (FT.):** 3249.0 **LOG TYPE:** Electric Log

SOURCE: DUNCAN, N. V., EST. OF **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-576.0	CARBONDALE	HERRIN	COAL	2.0	981.0	
-618.0	CARBONDALE	BRIAR HILL	COAL	-	1023.0	
-655.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1060.0	
-767.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1172.0	

MAPID: 19100399000C **VERSION:** 1 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 13 **QUARTERS/FOOTAGES:** 1653' N line, 2299' W line of NW

QUADRANGLE: GEFF **LONGITUDE:** -88.377498 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.437583 **DATE COLLECTED:** 10 / 0 / 1942

SURFACE ELEVATION (FT.): 420.0 **LOGGED (FT.):** 1086.0 **LOG TYPE:** Survey Sample Study

SOURCE: PURE OIL CO. 2-A **WELL TYPE:** Plugged and/or Abandoned

COMMENT: SAMPLE STUDY CONTROL WELL #72

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
420.0			UNKNOWN	220.0	0.0	
200.0			SILTY SHALE	7.0	220.0	
193.0			BLACK SHALE	2.0	227.0	
191.0			COAL	1.0	229.0	
190.0			SHALE	10.0	230.0	
180.0			SHALE & SANDSTONE	7.0	240.0	WITH BLACK SHALE
173.0			LIMESTONE	3.0	247.0	
170.0			SANDSTONE	14.0	250.0	
156.0			SHALE	42.0	264.0	
114.0			SILTSTONE	12.0	306.0	
102.0			SANDSTONE	56.0	318.0	
46.0			SHALE	13.0	374.0	
33.0			LIMESTONE	3.0	387.0	
30.0			SHALE	23.0	390.0	
7.0			LIMESTONE	1.0	413.0	
6.0			BLACK SHALE	4.0	414.0	
2.0			LIMESTONE	2.0	418.0	
0.0			SANDSTONE	24.0	420.0	
-24.0			LIMESTONE	3.0	444.0	
-27.0			SHALE	23.0	447.0	
-50.0			SANDSTONE	12.0	470.0	
-62.0			SILTSTONE	3.0	482.0	
-65.0			COAL	1.0	485.0	
-66.0			SILTSTONE	4.0	486.0	
-70.0			SANDSTONE	32.0	490.0	
-102.0			SILTSTONE	22.0	522.0	
-124.0	BOND	CARTHAGE	LIMESTONE	6.0	544.0	
-130.0			BLACK SHALE	2.0	550.0	
-132.0			SILTSTONE	76.0	552.0	WITH SANDSTONE
-208.0			BLACK SHALE	1.0	628.0	
-209.0			COAL	1.0	629.0	
-210.0			SILTSTONE	23.0	630.0	WITH SHALE
-233.0			COAL	1.0	653.0	
-234.0			SILTSTONE	10.0	654.0	WITH SANDSTONE
-244.0			SHALE	6.0	664.0	
-250.0			SANDSTONE	72.0	670.0	
-322.0			LIMESTONE	6.0	742.0	
-328.0			BLACK SHALE	2.0	748.0	
-330.0			COAL	1.0	750.0	

-331.0			SANDSTONE	1.0	751.0	
-332.0			SILTSTONE	10.0	752.0	
-342.0			LIMESTONE	2.0	762.0	
-344.0			SANDSTONE	34.0	764.0	
-378.0			LIMESTONE	4.0	798.0	
-382.0			BLACK SHALE	2.0	802.0	
-384.0			UNDERCLAY	2.0	804.0	
-386.0			SHALE	4.0	806.0	
-390.0			SILTSTONE	22.0	810.0	
-412.0			SHALE	18.0	832.0	
-430.0			SANDSTONE/SHALE	88.0	850.0	WITH SILTSTONE
-518.0			BLACK SHALE	1.0	938.0	
-519.0	CARBONDALE	DANVILLE	COAL	1.0	939.0	
-520.0	CARBONDALE		SANDSTONE	12.0	940.0	
-532.0	CARBONDALE		SHALE	10.0	952.0	
-542.0	CARBONDALE	BANKSTON FORK	LIMESTONE	2.0	962.0	
-544.0	CARBONDALE		SHALE	6.0	964.0	
-550.0	CARBONDALE	ANVIL ROCK	SANDSTONE	16.0	970.0	
-566.0	CARBONDALE		SHALE	4.0	986.0	
-570.0	CARBONDALE	BRERETON	LIMESTONE	3.0	990.0	
-573.0	CARBONDALE	ANNA	BLACK SHALE	1.0	993.0	
-574.0	CARBONDALE	HERRIN	COAL	4.0	994.0	APPROXIMATE THICKNESS
-578.0	CARBONDALE		UNDERCLAY	2.0	998.0	
-580.0	CARBONDALE		UNKNOWN	4.0	1000.0	
-584.0	CARBONDALE		LIMESTONE	1.0	1004.0	
-585.0	CARBONDALE		SANDSTONE	17.0	1005.0	
-602.0	CARBONDALE		SILTSTONE	4.0	1022.0	
-606.0	CARBONDALE		SHALE	19.0	1026.0	
-625.0	CARBONDALE	BRIAR HILL	COAL	1.0	1045.0	APPROXIMATE THICKNESS
-626.0	CARBONDALE		SANDSTONE	29.0	1046.0	
-655.0	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	1075.0	
-658.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1078.0	APPROXIMATE THICKNESS
-661.0	CARBONDALE		SANDSTONE	5.0	1081.0	

MAPID: 19100399000C **VERSION:** 2 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 13 **QUARTERS/FOOTAGES:** 1653' N line, 2299' W line of NW

QUADRANGLE: GEFF **LONGITUDE:** -88.377498 **GEOLOGIST:** HINES

CONFIDENTIAL: N **LATITUDE:** 38.437583 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3128.0 **LOG TYPE:** Survey Sample Study

SOURCE: PURE 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: 19101316000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 14 **QUARTERS/FOOTAGES:** 958' N line, 123' W line of NW
QUADRANGLE: GEFF **LONGITUDE:** -88.403615 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.439869 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 458.0 **LOGGED (FT.):** 3144.0 **LOG TYPE:** Electric Log
SOURCE: VENUTO A R **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-578.0	CARBONDALE	HERRIN	COAL	4.0	1036.0	
-658.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1116.0	
-770.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1228.0	

MAPID: 19103336000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW
QUADRANGLE: GEFF **LONGITUDE:** -88.421411 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.436256 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 453.0 **LOGGED (FT.):** 3177.0 **LOG TYPE:** Electric Log
SOURCE: SLAPE DON DRLG CO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-534.0	CARBONDALE	HERRIN	COAL	2.0	987.0	
-622.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1075.0	
-724.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1177.0	

MAPID: 19132460000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 15 **QUARTERS/FOOTAGES:** 660' N line, 660' W line of NW
QUADRANGLE: GEFF **LONGITUDE:** -88.420086 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.440769 **DATE COLLECTED:** 10 / 12 / 1996
SURFACE ELEVATION (FT.): 445.0 **LOGGED (FT.):** 1358.8 **LOG TYPE:** Nuclear Log
SOURCE: BERNARD PODOLSKY **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
445.0			UNKNOWN	1278.0	0.0	
-833.0	CARBONDALE	COLCHESTER	COAL	1.0	1278.0	
-834.0	CARBONDALE		UNKNOWN	25.0	1279.0	
-859.0	CARBONDALE	DEKOVEN	COAL	3.0	1304.0	
-862.0	CARBONDALE		UNKNOWN	0.0	1307.0	
-862.0	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1307.0	
-862.0	CARBONDALE		UNKNOWN	48.0	1307.0	
-910.0	CARBONDALE	DAVIS	COAL	3.8	1355.0	

MAPID: 19103249000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NE
QUADRANGLE: GEFF **LONGITUDE:** -88.42821 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.440014 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 3350.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-548.0	CARBONDALE	HERRIN	COAL	2.0	1008.0	
-639.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1099.0	
-738.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1198.0	

MAPID: 19101325000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' S line, 330' E line
QUADRANGLE: GEFF **LONGITUDE:** -88.442456 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.429314 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 471.0 **LOGGED (FT.):** 3337.0 **LOG TYPE:** Electric Log
SOURCE: PERRINE & PERRINE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-597.0	CARBONDALE	HERRIN	COAL	3.0	1068.0	
-643.0	CARBONDALE	BRIAR HILL	COAL	-	1114.0	
-674.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1145.0	
-773.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1244.0	

MAPID: 19103493000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NE
QUADRANGLE: GEFF **LONGITUDE:** -88.465346 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.438839 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 461.0 **LOGGED (FT.):** 3242.0 **LOG TYPE:** Electric Log
SOURCE: SANDERS & FYE DRILLING **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-589.0	CARBONDALE	HERRIN	COAL	3.0	1050.0	
-622.0	CARBONDALE	BRIAR HILL	COAL	-	1083.0	
-650.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1111.0	
-739.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1200.0	

MAPID: 19100471000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 19 **QUARTERS/FOOTAGES:** 660' N line, 660' E line of SE

QUADRANGLE: GEFF **LONGITUDE:** -88.462586 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.419576 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 464.0 **LOGGED (FT.):** 3286.0 **LOG TYPE:** Electric Log

SOURCE: GULF REFINING CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-556.0	CARBONDALE	HERRIN	COAL	3.0	1020.0	
-600.0	CARBONDALE	BRIAR HILL	COAL	-	1064.0	
-633.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1097.0	
-730.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1194.0	

MAPID: 19100471000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 19 **QUARTERS/FOOTAGES:** 660' N line, 660' E line of SE

QUADRANGLE: GEFF **LONGITUDE:** -88.462586 **GEOLOGIST:** HINES

CONFIDENTIAL: N **LATITUDE:** 38.419576 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3286.0 **LOG TYPE:** Survey Sample Study

SOURCE: GULF REFINING CO. **WELL TYPE:** Oil and Gas Test

COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 19100471000C **VERSION:** 4 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 19 **QUARTERS/FOOTAGES:** 660' N line, 660' E line of SE

QUADRANGLE: GEFF **LONGITUDE:** -88.462586 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.419576 **DATE COLLECTED:** 8 / 0 / 1942

SURFACE ELEVATION (FT.): 464.0 **LOGGED (FT.):** 1130.0 **LOG TYPE:** Survey Sample Study

SOURCE: GULF REFINING CO. 3 **WELL TYPE:** Plugged and/or Abandoned

COMMENT: SAMPLE STUDY CONTROL WELL #41

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
464.0			UNKNOWN	250.0	0.0	
214.0			SHALE	16.0	250.0	
198.0			SHALE & SANDSTONE	20.0	266.0	
178.0			SANDSTONE	24.0	286.0	
154.0			SHALE	24.0	310.0	
130.0			LIMESTONE	2.0	334.0	
128.0			BLACK SHALE & COAL	2.0	336.0	THIN COAL
126.0			UNDERCLAY	2.0	338.0	
124.0			SILTSTONE	18.0	340.0	
106.0			BLACK SHALE & COAL	2.0	358.0	THIN COAL
104.0			UNDERCLAY	1.0	360.0	
103.0			LIMESTONE	5.0	361.0	
98.0			SILTSTONE	54.0	366.0	
44.0			LIMESTONE	2.0	420.0	
42.0			SILTSTONE	6.0	422.0	
36.0			BLACK SHALE	3.0	428.0	
33.0			COAL	1.0	431.0	
32.0			SHALE	8.0	432.0	
24.0			LIMESTONE	2.0	440.0	
22.0			SHALE	12.0	442.0	
10.0			BLACK SHALE	2.0	454.0	
8.0			COAL	2.0	456.0	THIN
6.0			SHALE	6.0	458.0	
0.0			SANDSTONE	8.0	464.0	
-8.0			LIMESTONE	4.0	472.0	
-12.0			SHALE	6.0	476.0	
-18.0			BLACK SHALE & COAL	2.0	482.0	THIN COAL
-20.0			SHALE	22.0	484.0	
-42.0			BLACK SHALE	2.0	506.0	
-44.0			COAL	2.0	508.0	WITH UNDERCLAY
-46.0			SHALE	8.0	510.0	
-54.0			BLACK SHALE & COAL	4.0	518.0	THIN COAL
-58.0			SHALE	2.0	522.0	
-60.0			SANDSTONE/SHALE	40.0	524.0	
-100.0	BOND	CARTHAGE	LIMESTONE	8.0	564.0	
-108.0	MODESTO		BLACK SHALE & COAL	2.0	572.0	
-110.0	MODESTO		SHALE	38.0	574.0	
-148.0	MODESTO		SANDSTONE	26.0	612.0	
-174.0	MODESTO		SHALE	38.0	638.0	

-212.0	MODESTO		BLACK SHALE & COAL	2.0	676.0	THIN COAL
-214.0	MODESTO		SHALE	24.0	678.0	
-238.0	MODESTO		SHALE & SANDSTONE	14.0	702.0	
-252.0	MODESTO		SANDSTONE	112.0	716.0	
-364.0	MODESTO		SHALE	14.0	828.0	
-378.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	842.0	
-388.0	MODESTO		BLACK SHALE	6.0	852.0	
-394.0	MODESTO		SHALE	36.0	858.0	
-430.0	MODESTO		SHALE & SANDSTONE	18.0	894.0	
-448.0	MODESTO		SILTSTONE	40.0	912.0	WITH SHALE
-488.0	MODESTO		SHALE	10.0	952.0	
-498.0	MODESTO		BLACK SHALE	3.0	962.0	
-501.0	CARBONDALE	DANVILLE	COAL	3.0	965.0	APPROXIMATE THICKNESS
-504.0	CARBONDALE		SHALE	14.0	968.0	
-518.0	CARBONDALE	BANKSTON FORK	LIMESTONE	2.0	982.0	
-520.0	CARBONDALE		SILTSTONE	6.0	984.0	
-526.0	CARBONDALE	ANVIL ROCK	SANDSTONE	14.0	990.0	
-540.0	CARBONDALE		SHALE	10.0	1004.0	
-550.0	CARBONDALE	BRERETON	LIMESTONE	4.0	1014.0	
-554.0	CARBONDALE	HERRIN	COAL	6.0	1018.0	
-560.0	CARBONDALE		SILTSTONE	24.0	1024.0	WITH LIMESTONE AND SHALE
-584.0	CARBONDALE		SHALE & SANDSTONE	20.0	1048.0	
-604.0	CARBONDALE		BLACK SHALE	1.0	1068.0	
-605.0	CARBONDALE	BRIAR HILL	COAL	3.0	1069.0	APPROXIMATE THICKNESS
-608.0	CARBONDALE		SANDSTONE	24.0	1072.0	
-632.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	1096.0	
-634.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1098.0	APPROXIMATE THICKNESS
-638.0	CARBONDALE		UNDERCLAY	2.0	1102.0	
-640.0	CARBONDALE		SHALE	26.0	1104.0	

MAPID: 19103367000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NE

QUADRANGLE: GEFF **LONGITUDE:** -88.468099 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.426144 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 459.0 **LOGGED (FT.):** 3266.0 **LOG TYPE:** Electric Log

SOURCE: LEWIS, ELIZABETH K. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-580.0	CARBONDALE	HERRIN	COAL	3.0	1039.0	
-611.0	CARBONDALE	BRIAR HILL	COAL	-	1070.0	
-643.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1102.0	
-737.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1196.0	

MAPID: 19103400000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SW
QUADRANGLE: GEFF **LONGITUDE:** -88.459151 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.418571 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 446.0 **LOGGED (FT.):** 3262.0 **LOG TYPE:** Electric Log
SOURCE: CALDWELL, MARTIN H. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-564.0	CARBONDALE	HERRIN	COAL	3.0	1010.0	
-610.0	CARBONDALE	BRIAR HILL	COAL	-	1056.0	
-642.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1088.0	
-744.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1190.0	

MAPID: 19103977000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SE NW
QUADRANGLE: GEFF **LONGITUDE:** -88.435719 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.423733 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 457.0 **LOGGED (FT.):** 3161.0 **LOG TYPE:** Electric Log
SOURCE: SKILES, C. E., INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-581.0	CARBONDALE	HERRIN	COAL	3.0	1038.0	
-623.0	CARBONDALE	BRIAR HILL	COAL	-	1080.0	
-657.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1114.0	
-749.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1206.0	

MAPID: 19103513000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SE
QUADRANGLE: GEFF **LONGITUDE:** -88.410356 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.419738 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 423.0 **LOGGED (FT.):** 3313.0 **LOG TYPE:** Electric Log
SOURCE: N V DUNCAN DRILLING **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-566.0	CARBONDALE	HERRIN	COAL	2.0	989.0	
-642.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1065.0	
-749.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1172.0	

MAPID: 19101337000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' N line, 330' W line
QUADRANGLE: GEFF **LONGITUDE:** -88.403217 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.426932 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 425.0 **LOGGED (FT.):** 3258.0 **LOG TYPE:** Electric Log
SOURCE: LESH, D. B. DRILLING **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-557.0	CARBONDALE	HERRIN	COAL	3.0	982.0	
-649.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1074.0	
-753.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1178.0	

MAPID: 19101338000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' N line, 1667' E line
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.373271 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.426492 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 427.0 **LOGGED (FT.):** 3322.0 **LOG TYPE:** Electric Log
SOURCE: PURE OIL CO., THE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-602.0	CARBONDALE	HERRIN	COAL	2.0	1029.0	
-686.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1113.0	
-800.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1227.0	

MAPID: 19101340000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.371581 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.40105 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 462.0 **LOGGED (FT.):** 3361.0 **LOG TYPE:** Electric Log
SOURCE: BREHM, C. E. DRLG.&PROD. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-611.0	CARBONDALE	HERRIN	COAL	2.0	1073.0	
-656.0	CARBONDALE	BRIAR HILL	COAL	-	1118.0	
-686.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1148.0	
-791.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1253.0	

MAPID: 19103978000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NW

QUADRANGLE: GEFF **LONGITUDE:** -88.401497 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.406821 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 431.0 **LOGGED (FT.):** 3272.0 **LOG TYPE:** Electric Log

SOURCE: TIPPS, SAM **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-579.0	CARBONDALE	HERRIN	COAL	3.0	1010.0	
-622.0	CARBONDALE	BRIAR HILL	COAL	-	1053.0	
-651.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1082.0	
-757.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1188.0	

MAPID: 19105921000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SW

QUADRANGLE: GEFF **LONGITUDE:** -88.399361 **GEOLOGIST:** JACOBSON

CONFIDENTIAL: N **LATITUDE:** 38.40131 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 448.0 **LOGGED (FT.):** 1356.0 **LOG TYPE:** Electric Log

SOURCE: AURORA GASOLINE CO **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
448.0			UNKNOWN	1273.0	0.0	
-825.0	CARBONDALE	COLCHESTER	COAL	0.5	1273.0	
-825.5	CARBONDALE		UNKNOWN	41.5	1273.5	
-867.0	CARBONDALE	DEKOVEN	COAL	3.0	1315.0	
-870.0	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1318.0	
-870.0	CARBONDALE		UNKNOWN	34.0	1318.0	
-904.0	CARBONDALE	DAVIS	COAL	4.0	1352.0	

MAPID: 19103979000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NW

QUADRANGLE: GEFF **LONGITUDE:** -88.422277 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.410745 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 447.0 **LOGGED (FT.):** 3277.0 **LOG TYPE:** Electric Log

SOURCE: GRIFFIN WILLIAM D **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-560.0	CARBONDALE	HERRIN	COAL	-	1007.0	
-603.0	CARBONDALE	BRIAR HILL	COAL	-	1050.0	
-633.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1080.0	
-737.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1184.0	

MAPID: 19101349000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 28 **QUARTERS/FOOTAGES:** 660' S line, 565' W line of SW SW
QUADRANGLE: GEFF **LONGITUDE:** -88.440336 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.400925 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 469.0 **LOGGED (FT.):** 3285.0 **LOG TYPE:** Electric Log
SOURCE: PURE OIL CO., THE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-647.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1116.0	
-737.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1206.0	

MAPID: 19103368000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SE
QUADRANGLE: GEFF **LONGITUDE:** -88.4457 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.40376 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 438.0 **LOGGED (FT.):** 3292.0 **LOG TYPE:** Electric Log
SOURCE: INGLIS, JACK OIL PROP. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-650.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1088.0	
-752.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1190.0	

MAPID: 19131648000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' E line
QUADRANGLE: GEFF **LONGITUDE:** -88.443509 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.400068 **DATE COLLECTED:** 11 / 10 / 1986
SURFACE ELEVATION (FT.): 465.0 **LOGGED (FT.):** 1371.5 **LOG TYPE:** Nuclear Log
SOURCE: RUDY J.W. COMPANY **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
465.0			UNKNOWN	1296.0	0.0	
-831.0	CARBONDALE	COLCHESTER	COAL	0.5	1296.0	
-831.5	CARBONDALE		UNKNOWN	51.5	1296.5	
-883.0	CARBONDALE	DEKOVEN	COAL	3.0	1348.0	
-886.0	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1351.0	
-886.0	CARBONDALE		UNKNOWN	16.0	1351.0	
-902.0	CARBONDALE	DAVIS	COAL	4.5	1367.0	

MAPID: 19100433000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 30 **QUARTERS/FOOTAGES:** E2 SE
QUADRANGLE: GEFF **LONGITUDE:** -88.463111 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.403183 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 428.0 **LOGGED (FT.):** 3225.0 **LOG TYPE:** Electric Log
SOURCE: DEEP ROCK OIL CORP **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-644.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1072.0	
-748.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1176.0	

MAPID: 19103303000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 31 **QUARTERS/FOOTAGES:** NW SW NE
QUADRANGLE: GEFF **LONGITUDE:** -88.469172 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.395096 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 417.0 **LOGGED (FT.):** 3275.0 **LOG TYPE:** Electric Log
SOURCE: MCKELVY & SIPOHA DRLG. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-632.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1049.0	
-737.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1154.0	

MAPID: 19103981000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NW SW NW
QUADRANGLE: GEFF **LONGITUDE:** -88.459913 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.394902 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 456.0 **LOGGED (FT.):** 3263.0 **LOG TYPE:** Electric Log
SOURCE: MEYER CLIFFORD J **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-578.0	CARBONDALE	HERRIN	COAL	3.0	1034.0	
-620.0	CARBONDALE	BRIAR HILL	COAL	-	1076.0	
-654.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1110.0	
-762.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1218.0	

MAPID: 19103983000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 33 **QUARTERS/FOOTAGES:** 764' N line, 660' W line
QUADRANGLE: GEFF **LONGITUDE:** -88.440124 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.396989 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 483.0 **LOGGED (FT.):** 3296.0 **LOG TYPE:** Electric Log
SOURCE: PURE OIL CO., THE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-619.0	CARBONDALE	BRIAR HILL	COAL	-	1102.0	
-649.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1132.0	
-747.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1230.0	

MAPID: 19103984000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 34 **QUARTERS/FOOTAGES:** 660' S line, 120' W line of SE SW
QUADRANGLE: GEFF **LONGITUDE:** -88.419228 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.386083 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 429.0 **LOGGED (FT.):** 3245.0 **LOG TYPE:** Electric Log
SOURCE: JENKINS, GORDON T. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-560.0	CARBONDALE	HERRIN	COAL	2.0	989.0	
-605.0	CARBONDALE	BRIAR HILL	COAL	-	1034.0	
-635.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1064.0	
-745.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1174.0	

MAPID: 19103985000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW
QUADRANGLE: GEFF **LONGITUDE:** -88.397211 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.39762 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 476.0 **LOGGED (FT.):** 3319.0 **LOG TYPE:** Electric Log
SOURCE: MACDONELL CO. OF LIMA **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-571.0	CARBONDALE	HERRIN	COAL	2.0	1047.0	
-610.0	CARBONDALE	BRIAR HILL	COAL	-	1086.0	
-639.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1115.0	
-744.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1220.0	

MAPID: 19101370000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 7E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW SW
QUADRANGLE: GEFF **LONGITUDE:** -88.383448 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.388406 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 469.0 **LOGGED (FT.):** 3387.0 **LOG TYPE:** Electric Log
SOURCE: NATION OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-587.0	CARBONDALE	HERRIN	COAL	2.0	1056.0	
-635.0	CARBONDALE	BRIAR HILL	COAL	-	1104.0	
-663.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1132.0	
-773.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1242.0	

MAPID: 19103510000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.265504 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.464822 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 409.0 **LOGGED (FT.):** 3177.0 **LOG TYPE:** Electric Log
SOURCE: PARTLOW & COCHONOUR **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-554.0	CARBONDALE	HERRIN	COAL	3.0	963.0	
-588.0	CARBONDALE	BRIAR HILL	COAL	-	997.0	
-612.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1021.0	
-715.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1124.0	

MAPID: 19103931000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' S line, 327' W line of SE SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.297779 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.459449 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 410.0 **LOGGED (FT.):** 3160.0 **LOG TYPE:** Electric Log
SOURCE: FULK, PERRY **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-551.0	CARBONDALE	HERRIN	COAL	2.0	961.0	
-613.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1023.0	
-724.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1134.0	

MAPID: 19103934000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.313391 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.464931 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 411.0 **LOGGED (FT.):** 3910.0 **LOG TYPE:** Electric Log
SOURCE: JARVIS VERNON D **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-548.0	CARBONDALE	HERRIN	COAL	2.0	959.0	
-577.0	CARBONDALE	BRIAR HILL	COAL	-	988.0	
-629.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1040.0	
-743.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1154.0	

MAPID: 19103935000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 5 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.347854 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.462582 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 400.0 **LOGGED (FT.):** 3150.0 **LOG TYPE:** Electric Log
SOURCE: CALVERT DRILLING, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-584.0	CARBONDALE	HERRIN	COAL	3.0	984.0	
-610.0	CARBONDALE	BRIAR HILL	COAL	-	1010.0	
-670.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1070.0	
-776.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1176.0	

MAPID: 19103936000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.35719 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.459784 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 401.0 **LOGGED (FT.):** 3213.0 **LOG TYPE:** Electric Log
SOURCE: NATION OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-568.0	CARBONDALE	HERRIN	COAL	2.0	969.0	
-619.0	CARBONDALE	BRIAR HILL	COAL	-	1020.0	
-647.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1048.0	
-753.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1154.0	

MAPID: 19100405000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 7 **QUARTERS/FOOTAGES:** 660' N line, 660' W line of SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.356208 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.449862 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 440.0 **LOGGED (FT.):** 3319.0 **LOG TYPE:** Electric Log
SOURCE: DEEP ROCK OIL CORP **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-544.0	CARBONDALE	HERRIN	COAL	3.0	984.0	
-637.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1077.0	
-738.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1178.0	

MAPID: 19100405000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 7 **QUARTERS/FOOTAGES:** 660' N line, 660' W line of SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.356208 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.449862 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3319.0 **LOG TYPE:** Survey Sample Study
SOURCE: DEEP ROCK OIL CORP **WELL TYPE:** Oil and Gas Test
COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 19103937000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 7 **QUARTERS/FOOTAGES:** SW SW NW
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.365707 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.45262 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 404.0 **LOGGED (FT.):** 3186.0 **LOG TYPE:** Electric Log
SOURCE: PURE OIL CO., THE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-550.0	CARBONDALE	HERRIN	COAL	3.0	954.0	
-583.0	CARBONDALE	BRIAR HILL	COAL	-	987.0	
-625.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1029.0	
-731.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1135.0	

MAPID: 19100141000C **VERSION:** 1 **PROJECT:** NCRDS87

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 8 **QUARTERS/FOOTAGES:** SW NE

QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.337771 **GEOLOGIST:** WEIBEL

CONFIDENTIAL: N **LATITUDE:** 38.453389 **DATE COLLECTED:** 4 / 27 / 1925

SURFACE ELEVATION (FT.): 404.0 **LOGGED (FT.):** 1175.0 **LOG TYPE:** Drillers Log

SOURCE: **WELL TYPE:** Water Well

COMMENT: LOCATION AND ELEVATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
404.0			UNCONSOLIDATED	50.0	0.0	
354.0	BOND		SANDSTONE	35.0	50.0	
319.0	BOND		SHALE	315.0	85.0	
4.0	BOND		LIMESTONE	5.0	400.0	
-1.0	BOND		SHALE	151.0	405.0	
-152.0	BOND	CARTHAGE	LIMESTONE	10.0	556.0	UNCERTAIN CORRELATION
-162.0	MODESTO		COAL	1.0	566.0	
-163.0	MODESTO		SHALE	98.0	567.0	
-261.0	MODESTO		SANDSTONE	120.0	665.0	
-381.0	MODESTO	PIASA	LIMESTONE	10.0	785.0	UNCERTAIN CORRELATION
-391.0	CARBONDALE		SHALE	165.0	795.0	
-556.0	CARBONDALE		LIMESTONE	10.0	960.0	
-566.0	CARBONDALE		BLACK SHALE	5.0	970.0	
-571.0	CARBONDALE		LIMESTONE	10.0	975.0	UNCERTAIN CORRELATION
-581.0	CARBONDALE		BLACK SHALE	40.0	985.0	UNCERTAIN CORRELATION
-621.0	CARBONDALE		SANDSTONE	10.0	1025.0	
-631.0	CARBONDALE		BLACK SHALE	31.0	1035.0	UNCERTAIN CORRELATION
-662.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	1066.0	UNCERTAIN CORRELATION
-663.0	CARBONDALE		SHALE	8.0	1067.0	
-671.0	CARBONDALE		SANDSTONE	15.0	1075.0	
-686.0			SHALE	85.0	1090.0	

MAPID: 19101197000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.332022 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.456051 **DATE COLLECTED:** 9 / 24 / 1949
SURFACE ELEVATION (FT.): 416.0 **LOGGED (FT.):** 1375.0 **LOG TYPE:** Electric Log
SOURCE: KEOUGHAN DRILLING CO **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-865.0	CARBONDALE	COLCHESTER	COAL	0.5	1281.0	
-894.0	CARBONDALE	DEKOVEN	COAL	1.8	1310.0	
-895.8	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1311.8	
-954.0	CARBONDALE	DAVIS	COAL	5.0	1370.0	
-895.8	CARBONDALE		UNKNOWN	58.2	1311.8	

MAPID: 19103123000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.338981 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.448945 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 407.0 **LOGGED (FT.):** 3195.0 **LOG TYPE:** Electric Log
SOURCE: RUDY JOHN W EST **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-597.0	CARBONDALE	HERRIN	COAL	3.0	1004.0	
-637.0	CARBONDALE	BRIAR HILL	COAL	-	1044.0	
-684.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1091.0	
-787.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1194.0	

MAPID: 19100829000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.3185 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.45054 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 467.0 **LOGGED (FT.):** 3155.0 **LOG TYPE:** Electric Log
SOURCE: PURE OIL CO., THE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-556.0	CARBONDALE	HERRIN	COAL	2.0	1023.0	
-587.0	CARBONDALE	BRIAR HILL	COAL	-	1054.0	
-640.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1107.0	
-737.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1204.0	

MAPID: 19103370000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NW

QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.311488 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.45588 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 471.0 **LOGGED (FT.):** 3260.0 **LOG TYPE:** Electric Log

SOURCE: SWARTZ JUNIOR G **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-531.0	CARBONDALE	HERRIN	COAL	4.0	1002.0	
-621.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1092.0	
-729.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1200.0	

MAPID: 19101206000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NW

QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.293341 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.45588 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 396.0 **LOGGED (FT.):** 3164.0 **LOG TYPE:** Electric Log

SOURCE: PURE OIL CO., THE **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-550.0	CARBONDALE	HERRIN	COAL	4.0	946.0	
-616.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1012.0	
-720.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1116.0	

MAPID: 19106198000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.293312 **GEOLOGIST:** JACOBSON

CONFIDENTIAL: N **LATITUDE:** 38.457625 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 392.0 **LOGGED (FT.):** 1279.5 **LOG TYPE:** Electric Log

SOURCE: PURO OIL CO **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
392.0			UNKNOWN	1196.0	0.0	
-804.0	CARBONDALE	COLCHESTER	COAL	0.5	1196.0	
-804.5	CARBONDALE		UNKNOWN	48.5	1196.5	
-853.0	CARBONDALE	DEKOVEN	COAL	1.5	1245.0	
-854.5	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1246.5	
-854.5	CARBONDALE		UNKNOWN	31.5	1246.5	
-886.0	CARBONDALE	DAVIS	COAL	1.5	1278.0	

MAPID: 19101208000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NW
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.274859 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.455821 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 385.0 **LOGGED (FT.):** 3100.0 **LOG TYPE:** Electric Log
SOURCE: IL MID-CONTINENT OIL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-567.0	CARBONDALE	HERRIN	COAL	4.0	952.0	
-595.0	CARBONDALE	BRIAR HILL	COAL	-	980.0	
-619.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1004.0	
-725.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1110.0	

MAPID: 19101211000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.266276 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.430466 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 385.0 **LOGGED (FT.):** 3215.0 **LOG TYPE:** Electric Log
SOURCE: PURE OIL CO., THE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-541.0	CARBONDALE	HERRIN	COAL	2.0	926.0	
-577.0	CARBONDALE	BRIAR HILL	COAL	-	962.0	
-610.0	CARBONDALE	SPRINGFIELD	COAL	3.0	995.0	
-709.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1094.0	

MAPID: 19101216000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.286955 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.430585 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 439.0 **LOGGED (FT.):** 3135.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-556.0	CARBONDALE	HERRIN	COAL	3.0	995.0	
-620.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1059.0	
-727.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1166.0	

MAPID: 19101219000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 15 **QUARTERS/FOOTAGES:** 1958' S line, 988' W line
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.309742 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.435257 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 453.0 **LOGGED (FT.):** 3244.0 **LOG TYPE:** Electric Log
SOURCE: PURE OIL CO., THE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-524.0	CARBONDALE	HERRIN	COAL	2.0	977.0	
-607.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1060.0	
-707.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1160.0	

MAPID: 19103416000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.305022 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.443339 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 469.0 **LOGGED (FT.):** 1377.0 **LOG TYPE:** Electric Log
SOURCE: T.G. JENKINS **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-814.0	CARBONDALE	COLCHESTER	COAL	0.5	1283.0	
-863.0	CARBONDALE	DEKOVEN	COAL	1.3	1332.0	
-903.0	CARBONDALE	LOWER DEKOVEN	COAL	1.8	1372.0	ALMOST MERGED WITH DAVIS
-904.8	CARBONDALE		UNKNOWN	0.2	1373.8	
-905.0	CARBONDALE	DAVIS	COAL	3.0	1374.0	

MAPID: 19103941000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.323223 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.443435 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 440.0 **LOGGED (FT.):** 3226.0 **LOG TYPE:** Electric Log
SOURCE: SLAGTER PRODUCING CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-575.0	CARBONDALE	HERRIN	COAL	5.0	1015.0	
-638.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1078.0	
-738.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1178.0	

MAPID: 19103942000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.332348 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.441713 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 412.0 **LOGGED (FT.):** 3216.0 **LOG TYPE:** Electric Log
SOURCE: LOHMANN-JOHNSON DRLG. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-597.0	CARBONDALE	HERRIN	COAL	2.0	1009.0	
-635.0	CARBONDALE	BRIAR HILL	COAL	-	1047.0	
-683.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1095.0	
-792.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1204.0	

MAPID: 19103944000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 18 **QUARTERS/FOOTAGES:** NE SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.35182 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.43542 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 468.0 **LOGGED (FT.):** 3210.0 **LOG TYPE:** Electric Log
SOURCE: NOAL PETROLEUM **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-606.0	CARBONDALE	HERRIN	COAL	2.0	1074.0	
-636.0	CARBONDALE	BRIAR HILL	COAL	-	1104.0	
-690.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1158.0	
-799.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1267.0	

MAPID: 19103945000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' S line, 0' E line of SW NW
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.363067 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.423725 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 428.0 **LOGGED (FT.):** 3134.0 **LOG TYPE:** Electric Log
SOURCE: NOAH, FRED A. & SONS **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-605.0	CARBONDALE	HERRIN	COAL	3.0	1033.0	
-688.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1116.0	
-792.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1220.0	

MAPID: 19103947000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.332941 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.419979 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 474.0 **LOGGED (FT.):** 3300.0 **LOG TYPE:** Electric Log
SOURCE: MISENER, WAYNE DRLG. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-588.0	CARBONDALE	HERRIN	COAL	3.0	1062.0	
-674.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1148.0	
-783.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1257.0	

MAPID: 19103948000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.317055 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.416521 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 482.0 **LOGGED (FT.):** 3298.0 **LOG TYPE:** Electric Log
SOURCE: DUNCAN, N. V., EST. OF **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-572.0	CARBONDALE	HERRIN	COAL	6.0	1054.0	
-626.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1108.0	
-732.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1214.0	

MAPID: 19103138000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SW
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.312423 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.42009 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 480.0 **LOGGED (FT.):** 3269.0 **LOG TYPE:** Electric Log
SOURCE: BELL, KENNETH C. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-570.0	CARBONDALE	HERRIN	COAL	3.0	1050.0	
-624.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1104.0	
-732.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1212.0	

MAPID: 19103950000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 23 **QUARTERS/FOOTAGES:** 606' S line, 334' E line of SW NE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.282496 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.424083 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 401.0 **LOGGED (FT.):** 2430.0 **LOG TYPE:** Electric Log
SOURCE: HACK DRLG CO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-509.0	CARBONDALE	HERRIN	COAL	2.0	910.0	
-589.0	CARBONDALE	SPRINGFIELD	COAL	3.0	990.0	
-695.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1096.0	

MAPID: 19103202000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.259519 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.423248 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 486.0 **LOGGED (FT.):** 3343.0 **LOG TYPE:** Electric Log
SOURCE: FULK, PERRY **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-454.0	CARBONDALE	HERRIN	COAL	3.0	940.0	
-493.0	CARBONDALE	BRIAR HILL	COAL	-	979.0	
-520.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1006.0	
-624.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1110.0	

MAPID: 19101892000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.285003 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.407079 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 438.0 **LOGGED (FT.):** 3285.0 **LOG TYPE:** Electric Log
SOURCE: NATION OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-525.0	CARBONDALE	HERRIN	COAL	3.0	963.0	
-568.0	CARBONDALE	BRIAR HILL	COAL	-	1006.0	
-595.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1033.0	
-706.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1144.0	

MAPID: 19106379000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.28044 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.403472 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 422.0 **LOGGED (FT.):** 1293.0 **LOG TYPE:** Electric Log
SOURCE: CALVORT DRLG CO **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
422.0			UNKNOWN	1220.0	0.0	
-798.0	CARBONDALE	COLCHESTER	COAL	0.5	1220.0	
-798.5	CARBONDALE		UNKNOWN	32.5	1220.5	
-831.0	CARBONDALE	DEKOVEN	COAL	3.8	1253.0	
-834.8	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1256.8	
-834.8	CARBONDALE		UNKNOWN	33.2	1256.8	
-868.0	CARBONDALE	DAVIS	COAL	3.0	1290.0	

MAPID: 19100556000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 27 **QUARTERS/FOOTAGES:** 1657' N line, 1654' W line
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.307982 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.410927 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 449.0 **LOGGED (FT.):** 3192.0 **LOG TYPE:** Electric Log
SOURCE: PURE OIL CO., THE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-533.0	CARBONDALE	HERRIN	COAL	4.0	982.0	
-571.0	CARBONDALE	BRIAR HILL	COAL	-	1020.0	
-603.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1052.0	
-708.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1157.0	

MAPID: 19100556000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 27 **QUARTERS/FOOTAGES:** 1657' N line, 1654' W line
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.307982 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.410927 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3192.0 **LOG TYPE:** Survey Sample Study
SOURCE: PURE 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: 19103612000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.301081 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.410809 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 483.0 **LOGGED (FT.):** 3929.0 **LOG TYPE:** Electric Log
SOURCE: NATION OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-505.0	CARBONDALE	HERRIN	COAL	3.0	988.0	
-553.0	CARBONDALE	BRIAR HILL	COAL	-	1036.0	
-583.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1066.0	
-691.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1174.0	

MAPID: 19103954000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.319456 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.412837 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 470.0 **LOGGED (FT.):** 3220.0 **LOG TYPE:** Electric Log
SOURCE: DUNCAN, N. V., EST. OF **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-558.0	CARBONDALE	HERRIN	COAL	3.0	1028.0	
-634.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1104.0	
-740.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1210.0	

MAPID: 19103956000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.337916 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.403687 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 470.0 **LOGGED (FT.):** 3308.0 **LOG TYPE:** Electric Log
SOURCE: PURE OIL CO., THE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-608.0	CARBONDALE	HERRIN	COAL	3.0	1078.0	
-647.0	CARBONDALE	BRIAR HILL	COAL	-	1117.0	
-676.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1146.0	
-788.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1258.0	

MAPID: 19106456000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE NE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.335337 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.412753 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 508.0 **LOGGED (FT.):** 1447.0 **LOG TYPE:** Electric Log
SOURCE: ILL PUR OIL COMPANY **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
508.0			UNKNOWN	1377.0	0.0	
-869.0	CARBONDALE	COLCHESTER	COAL	0.5	1377.0	
-869.5	CARBONDALE		UNKNOWN	37.5	1377.5	
-907.0	CARBONDALE	DEKOVEN	COAL	3.5	1415.0	
-910.5	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1418.5	
-910.5	CARBONDALE		UNKNOWN	26.5	1418.5	
-937.0	CARBONDALE	DAVIS	COAL	2.0	1445.0	

MAPID: 19101258000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' S line, 330' E line
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.351582 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.401949 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 480.0 **LOGGED (FT.):** 3434.0 **LOG TYPE:** Electric Log
SOURCE: NATION OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-664.0	CARBONDALE	HERRIN	COAL	3.0	1144.0	
-695.0	CARBONDALE	BRIAR HILL	COAL	-	1175.0	
-726.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1206.0	
-840.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1320.0	

MAPID: 19101261000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.354099 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.392882 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 3260.0 **LOG TYPE:** Electric Log
SOURCE: MEYER CLIFFORD J **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-605.0	CARBONDALE	HERRIN	COAL	2.0	1065.0	
-654.0	CARBONDALE	BRIAR HILL	COAL	-	1114.0	
-684.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1144.0	
-794.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1254.0	

MAPID: 19103959000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NE SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.335861 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.392823 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 433.0 **LOGGED (FT.):** 3325.0 **LOG TYPE:** Electric Log
SOURCE: FLOYD & HENSON INC **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-574.0	CARBONDALE	HERRIN	COAL	3.0	1007.0	
-630.0	CARBONDALE	BRIAR HILL	COAL	-	1063.0	
-658.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1091.0	
-763.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1196.0	

MAPID: 19103963000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.296721 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.396321 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 447.0 **LOGGED (FT.):** 3280.0 **LOG TYPE:** Electric Log
SOURCE: IL MID CONTINENT CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-522.0	CARBONDALE	HERRIN	COAL	3.0	969.0	
-580.0	CARBONDALE	BRIAR HILL	COAL	-	1027.0	
-608.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1055.0	
-715.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1162.0	

MAPID: 19101265000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.283061 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.389068 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 447.0 **LOGGED (FT.):** 3438.0 **LOG TYPE:** Electric Log
SOURCE: INLAND PRODUCERS CO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-579.0	CARBONDALE	HERRIN	COAL	3.0	1026.0	
-665.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1112.0	
-773.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1220.0	

MAPID: 19101268000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 8E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.269089 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.399845 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 419.0 **LOGGED (FT.):** 3403.0 **LOG TYPE:** Electric Log
SOURCE: ROBINSON & PUCKETT, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-548.0	CARBONDALE	HERRIN	COAL	3.0	967.0	
-607.0	CARBONDALE	BRIAR HILL	COAL	-	1026.0	
-637.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1056.0	
-743.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1162.0	

MAPID: 19101153000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' S line, 330' E line
QUADRANGLE: ALBION NW **LONGITUDE:** -88.148927 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.459092 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 390.0 **LOGGED (FT.):** 3264.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-602.0	CARBONDALE	HERRIN	COAL	3.0	992.0	
-652.0	CARBONDALE	BRIAR HILL	COAL	-	1042.0	
-687.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1077.0	
-793.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1183.0	

MAPID: 19101155000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.190364 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.46093 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 390.0 **LOGGED (FT.):** 3402.0 **LOG TYPE:** Electric Log
SOURCE: MACDONELL CO. OF LIMA **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-571.0	CARBONDALE	HERRIN	COAL	2.0	961.0	
-622.0	CARBONDALE	BRIAR HILL	COAL	-	1012.0	
-651.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1041.0	
-766.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1156.0	

MAPID: 19100850000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 660' E line of NE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.205303 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.466714 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 446.0 **LOGGED (FT.):** 3476.0 **LOG TYPE:** Electric Log
SOURCE: COLLINS BROTHERS OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-594.0	CARBONDALE	HERRIN	COAL	2.0	1040.0	
-638.0	CARBONDALE	BRIAR HILL	COAL	-	1084.0	
-663.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1109.0	
-766.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1212.0	

MAPID: 19103913000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 5 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.233886 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.464734 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 417.0 **LOGGED (FT.):** 3365.0 **LOG TYPE:** Electric Log
SOURCE: LESH, D. B. DRILLING **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-549.0	CARBONDALE	HERRIN	COAL	4.0	966.0	
-587.0	CARBONDALE	BRIAR HILL	COAL	-	1004.0	
-613.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1030.0	
-716.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1133.0	

MAPID: 19100848000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.24298 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.452027 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 389.0 **LOGGED (FT.):** 3340.0 **LOG TYPE:** Electric Log
SOURCE: BRINKERHOFF DRLG. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-567.0	CARBONDALE	HERRIN	COAL	3.0	956.0	
-605.0	CARBONDALE	BRIAR HILL	COAL	-	994.0	
-634.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1023.0	
-735.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1124.0	

MAPID: 19103914000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.233927 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.444766 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 406.0 **LOGGED (FT.):** 1308.0 **LOG TYPE:** Electric Log
SOURCE: SLAGTER PRODUCING CO **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-826.0	CARBONDALE	COLCHESTER	COAL	0.5	1232.0	
-849.0	CARBONDALE	DEKOVEN	COAL	3.0	1255.0	
-852.0	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1258.0	
-899.0	CARBONDALE	DAVIS	COAL	3.0	1305.0	

MAPID: 19103914000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.233927 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.444766 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 406.0 **LOGGED (FT.):** 3394.0 **LOG TYPE:** Electric Log
SOURCE: SLAGTER ARTHUR J JR **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-573.0	CARBONDALE	HERRIN	COAL	3.0	979.0	
-616.0	CARBONDALE	BRIAR HILL	COAL	-	1022.0	
-648.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1054.0	
-758.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1164.0	

MAPID: 19100847000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.208833 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.45014 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 440.0 **LOGGED (FT.):** 3466.0 **LOG TYPE:** Electric Log
SOURCE: SLAGTER ARTHUR J JR **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-620.0	CARBONDALE	HERRIN	COAL	3.0	1060.0	
-676.0	CARBONDALE	BRIAR HILL	COAL	-	1116.0	
-704.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1144.0	
-824.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1264.0	

MAPID: 19103917000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' S line, 990' W line of SE SW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.194972 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.444722 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 388.0 **LOGGED (FT.):** 3440.0 **LOG TYPE:** Electric Log
SOURCE: SLAPE, DON DRILLING **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-617.0	CARBONDALE	HERRIN	COAL	4.0	1005.0	
-657.0	CARBONDALE	BRIAR HILL	COAL	-	1045.0	
-686.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1074.0	
-795.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1183.0	

MAPID: 19100846000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SE SE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.167499 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.444599 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 387.0 **LOGGED (FT.):** 1329.5 **LOG TYPE:** Electric Log
SOURCE: J V CANTERBURY **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-878.0	CARBONDALE	COLCHESTER	COAL	0.5	1265.0	
-878.5	CARBONDALE	DEKOVEN	COAL	0.0	1265.5	
-878.5	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1265.5	
-939.0	CARBONDALE	DAVIS	COAL	3.5	1326.0	

MAPID: 19100846000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SE SE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.167499 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.444599 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 387.0 **LOGGED (FT.):** 3450.0 **LOG TYPE:** Electric Log
SOURCE: CANTERBURY, J. V. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-601.0	CARBONDALE	HERRIN	COAL	3.0	988.0	
-654.0	CARBONDALE	BRIAR HILL	COAL	-	1041.0	
-680.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1067.0	
-800.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1187.0	

MAPID: 19100845000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.151177 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.457271 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 391.0 **LOGGED (FT.):** 3273.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-759.0	CARBONDALE	HERRIN	COAL	2.0	1150.0	
-816.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1207.0	
-921.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1312.0	

MAPID: 19101856000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.15855 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.432062 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 388.0 **LOGGED (FT.):** 3420.0 **LOG TYPE:** Electric Log
SOURCE: RYAN OIL CO., ETAL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-579.0	CARBONDALE	HERRIN	COAL	4.0	967.0	
-627.0	CARBONDALE	BRIAR HILL	COAL	-	1015.0	
-653.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1041.0	
-775.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1163.0	

MAPID: 19103918000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.1768 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.435655 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 384.0 **LOGGED (FT.):** 3430.0 **LOG TYPE:** Electric Log
SOURCE: BREHM, C. E. DRLG.&PROD. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-610.0	CARBONDALE	HERRIN	COAL	3.0	994.0	
-656.0	CARBONDALE	BRIAR HILL	COAL	-	1040.0	
-686.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1070.0	
-806.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1190.0	

MAPID: 19103919000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW SW

QUADRANGLE: ALBION NW **LONGITUDE:** -88.202016 **GEOLOGIST:** JACOBSON

CONFIDENTIAL: N **LATITUDE:** 38.432134 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 433.0 **LOGGED (FT.):** 1373.8 **LOG TYPE:** Electric Log

SOURCE: CALVORT DRILLING,INC **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-882.0	CARBONDALE	COLCHESTER	COAL	0.5	1315.0	
-899.0	CARBONDALE	DEKOVEN	COAL	2.8	1332.0	
-935.0	CARBONDALE	LOWER DEKOVEN	COAL	1.0	1368.0	
-936.0	CARBONDALE		UNKNOWN	1.0	1369.0	
-937.0	CARBONDALE	DAVIS	COAL	3.8	1370.0	

MAPID: 19103919000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW SW

QUADRANGLE: ALBION NW **LONGITUDE:** -88.202016 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.432134 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 433.0 **LOGGED (FT.):** 3438.0 **LOG TYPE:** Electric Log

SOURCE: CALVERT DRILLING, INC. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-605.0	CARBONDALE	HERRIN	COAL	4.0	1038.0	
-655.0	CARBONDALE	BRIAR HILL	COAL	-	1088.0	
-687.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1120.0	
-811.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1244.0	

MAPID: 19103920000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NE

QUADRANGLE: ALBION NW **LONGITUDE:** -88.211162 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.441143 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 443.0 **LOGGED (FT.):** 3465.0 **LOG TYPE:** Electric Log

SOURCE: COLLINS BROTHERS OIL CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-575.0	CARBONDALE	HERRIN	COAL	3.0	1018.0	
-635.0	CARBONDALE	BRIAR HILL	COAL	-	1078.0	
-664.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1107.0	
-769.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1212.0	

MAPID: 19103596000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.224965 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.433913 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 391.0 **LOGGED (FT.):** 3363.0 **LOG TYPE:** Electric Log
SOURCE: O'NEAL, C. E. & CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-577.0	CARBONDALE	HERRIN	COAL	3.0	968.0	
-629.0	CARBONDALE	BRIAR HILL	COAL	-	1020.0	
-662.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1053.0	
-764.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1155.0	

MAPID: 19103524000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.240763 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.437601 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 383.0 **LOGGED (FT.):** 3350.0 **LOG TYPE:** Electric Log
SOURCE: R. K. PETROLEUM CORP. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-564.0	CARBONDALE	HERRIN	COAL	3.0	947.0	
-603.0	CARBONDALE	BRIAR HILL	COAL	-	986.0	
-636.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1019.0	
-741.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1124.0	

MAPID: 19101905000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.243227 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.416012 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 386.0 **LOGGED (FT.):** 3380.0 **LOG TYPE:** Electric Log
SOURCE: ATHA, H. D. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-604.0	CARBONDALE	HERRIN	COAL	4.0	990.0	
-654.0	CARBONDALE	BRIAR HILL	COAL	-	1040.0	
-681.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1067.0	
-794.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1180.0	

MAPID: 19103789000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW NE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.229473 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.424945 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 382.0 **LOGGED (FT.):** 3303.0 **LOG TYPE:** Electric Log
SOURCE: BASIN OIL CORP. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-593.0	CARBONDALE	HERRIN	COAL	3.0	975.0	
-651.0	CARBONDALE	BRIAR HILL	COAL	-	1033.0	
-680.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1062.0	
-788.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1170.0	

MAPID: 19100842000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.213609 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.424927 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 389.0 **LOGGED (FT.):** 5395.0 **LOG TYPE:** Electric Log
SOURCE: LUTTRELL HOMER **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-575.0	CARBONDALE	HERRIN	COAL	3.0	964.0	
-617.0	CARBONDALE	BRIAR HILL	COAL	-	1006.0	
-648.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1037.0	
-756.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1145.0	

MAPID: 19101159000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.199814 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.426761 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 389.0 **LOGGED (FT.):** 3367.0 **LOG TYPE:** Electric Log
SOURCE: MIAMI OPERATING CO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-601.0	CARBONDALE	HERRIN	COAL	-	990.0	
-651.0	CARBONDALE	BRIAR HILL	COAL	-	1040.0	
-681.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1070.0	
-787.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1176.0	

MAPID: 19103544000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.174624 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.423117 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 386.0 **LOGGED (FT.):** 3434.0 **LOG TYPE:** Electric Log
SOURCE: DAVIS ALVA C PETRO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-578.0	CARBONDALE	HERRIN	COAL	3.0	964.0	
-628.0	CARBONDALE	BRIAR HILL	COAL	-	1014.0	
-654.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1040.0	
-770.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1156.0	

MAPID: 19100424000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 24 **QUARTERS/FOOTAGES:** 674' N line, 273' W line of SE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.156525 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.420307 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 389.0 **LOGGED (FT.):** 3360.0 **LOG TYPE:** Electric Log
SOURCE: ALBRIGHT, A. J. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-557.0	CARBONDALE	HERRIN	COAL	3.0	946.0	
-629.0	CARBONDALE	BRIAR HILL	COAL	-	1018.0	
-659.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1048.0	
-775.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1164.0	

MAPID: 19103490000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW NE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.156403 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.410514 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 389.0 **LOGGED (FT.):** 3437.0 **LOG TYPE:** Electric Log
SOURCE: GULF OIL CORPORATION **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-564.0	CARBONDALE	HERRIN	COAL	3.0	953.0	
-607.0	CARBONDALE	BRIAR HILL	COAL	-	996.0	
-645.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1034.0	
-761.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1150.0	

MAPID: 19103058000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.181726 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.407062 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 389.0 **LOGGED (FT.):** 3345.0 **LOG TYPE:** Electric Log
SOURCE: DAVIS ALVA C PETRO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-555.0	CARBONDALE	HERRIN	COAL	-	944.0	
-603.0	CARBONDALE	BRIAR HILL	COAL	-	992.0	
-638.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1027.0	
-749.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1138.0	

MAPID: 19103198000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.174718 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.412396 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 384.0 **LOGGED (FT.):** 1290.8 **LOG TYPE:** Electric Log
SOURCE: THE CARTER OIL **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-834.0	CARBONDALE	COLCHESTER	COAL	0.5	1218.0	
-850.0	CARBONDALE	DEKOVEN	COAL	2.8	1234.0	
-901.0	CARBONDALE	LOWER DEKOVEN	COAL	1.0	1285.0	
-902.0	CARBONDALE		UNKNOWN	1.0	1286.0	
-903.0	CARBONDALE	DAVIS	COAL	3.8	1287.0	

MAPID: 19100557000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 27 **QUARTERS/FOOTAGES:** 990' S line, 330' E line of NE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.186269 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.410714 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 383.0 **LOGGED (FT.):** 3402.0 **LOG TYPE:** Electric Log
SOURCE: ROBINSON & PUCKETT, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-540.0	CARBONDALE	HERRIN	COAL	4.0	923.0	
-601.0	CARBONDALE	BRIAR HILL	COAL	-	984.0	
-633.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1016.0	
-747.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1130.0	

MAPID: 19100557000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 27 **QUARTERS/FOOTAGES:** 990' S line, 330' E line of NE

QUADRANGLE: ALBION NW **LONGITUDE:** -88.186269 **GEOLOGIST:** HINES

CONFIDENTIAL: N **LATITUDE:** 38.410714 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3402.0 **LOG TYPE:** Survey Sample Study

SOURCE: ROBINSON & PUCKETT, INC. **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: 19100557000C **VERSION:** 4 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 27 **QUARTERS/FOOTAGES:** 990' S line, 330' E line of NE

QUADRANGLE: ALBION NW **LONGITUDE:** -88.186269 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.410714 **DATE COLLECTED:** 10 / 0 / 1943

SURFACE ELEVATION (FT.): 383.0 **LOGGED (FT.):** 2204.0 **LOG TYPE:** Survey Sample Study

SOURCE: ROBINSON-PUCKETT 1 **WELL TYPE:** Dry Hole

COMMENT: SAMPLE STUDY CONTROL WELL #10248

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
383.0			UNKNOWN	160.0	0.0	
223.0			SILTSTONE	45.0	160.0	WITH SHALE
178.0			SHALE	10.0	205.0	
168.0			CLAYSTONE & SHALE	7.0	215.0	
161.0			SHALE	4.0	222.0	
157.0			SANDSTONE	34.0	226.0	
123.0			SHALE	25.0	260.0	
98.0			BLACK SHALE	3.0	285.0	WITH UNDERCLAY
95.0			SANDSTONE	4.0	288.0	
91.0			SHALE	31.0	292.0	
60.0			BLACK SHALE	2.0	323.0	WITH UNDERCLAY
58.0			SANDSTONE	21.0	325.0	
37.0			SANDY SHALE	74.0	346.0	
-37.0			BLACK SHALE	2.0	420.0	
-39.0			SILTSTONE	10.0	422.0	
-49.0			SANDSTONE	102.0	432.0	
-151.0			SHALE	5.0	534.0	
-156.0			BLACK SHALE	7.0	539.0	
-163.0			UNKNOWN	5.0	546.0	
-168.0			SHALE	17.0	551.0	
-185.0			SANDSTONE	12.0	568.0	
-197.0			SILTY SHALE	67.0	580.0	
-264.0	BOND	CARTHAGE	LIMESTONE	7.0	647.0	
-271.0			BLACK SHALE	1.0	654.0	
-272.0			SHALE & SANDSTONE	5.0	655.0	
-277.0			SANDSTONE	28.0	660.0	
-305.0			SHALE	24.0	688.0	
-329.0			SILTSTONE	8.0	712.0	
-337.0			SHALE	5.0	720.0	
-342.0			SHALE & SANDSTONE	9.0	725.0	
-351.0			SANDSTONE	61.0	734.0	
-412.0			SHALE	82.0	795.0	
-494.0			BLACK SHALE	2.0	877.0	
-496.0	CARBONDALE		UNDERCLAY	1.0	879.0	
-497.0	CARBONDALE		SANDSTONE	6.0	880.0	
-503.0	CARBONDALE		SHALE	12.0	886.0	
-515.0	CARBONDALE		LIMESTONE	3.0	898.0	
-518.0	CARBONDALE		SANDSTONE	9.0	901.0	
-527.0	CARBONDALE		SHALE	12.0	910.0	

-539.0	CARBONDALE	BRERETON	BLACK LIMESTONE	2.0	922.0	
-541.0	CARBONDALE		BLACK SHALE	2.0	924.0	WITH UNDERCLAY
-543.0	CARBONDALE		SHALE	4.0	926.0	
-547.0	CARBONDALE		CLAYSTONE & SHALE	2.0	930.0	
-549.0	CARBONDALE		SANDSTONE	48.0	932.0	
-597.0	CARBONDALE		BLACK SHALE & COAL	4.0	980.0	WITH SANDSTONE AND UNDERCLAY
-601.0	CARBONDALE		SANDSTONE/SHALE	14.0	984.0	
-615.0	CARBONDALE		SHALE	11.0	998.0	
-626.0	CARBONDALE		LIMESTONE	2.0	1009.0	
-628.0	CARBONDALE		DARK SHALE	8.0	1011.0	
-636.0	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	1019.0	
-639.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1022.0	APPROXIMATE THICKNESS
-641.0	CARBONDALE		UNDERCLAY	2.0	1024.0	
-643.0	CARBONDALE		SILTSTONE	8.0	1026.0	WITH LIMESTONE
-651.0	CARBONDALE		SANDSTONE	16.0	1034.0	
-667.0	CARBONDALE		SILTSTONE	4.0	1050.0	
-671.0	CARBONDALE		SHALE	78.0	1054.0	
-749.0	CARBONDALE	EXCELLO	BLACK SHALE	8.0	1132.0	
-757.0	CARBONDALE		UNDERCLAY	4.0	1140.0	
-761.0	CARBONDALE		SHALE	29.0	1144.0	
-790.0	CARBONDALE		SILTSTONE	5.0	1173.0	
-795.0	CARBONDALE		SHALE	14.0	1178.0	
-809.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	4.0	1192.0	
-813.0	CARBONDALE	COLCHESTER	COAL	2.0	1196.0	APPROXIMATE THICKNESS
-815.0	SPOON		UNDERCLAY	4.0	1198.0	WITH LIMESTONE
-819.0	SPOON		SILTSTONE	18.0	1202.0	
-837.0	SPOON		BLACK SHALE	1.0	1220.0	
-838.0	SPOON	DEKOVEN	COAL	5.0	1221.0	APPROXIMATE THICKNESS
-843.0	SPOON		UNDERCLAY	2.0	1226.0	
-845.0	SPOON		SHALE	8.0	1228.0	WITH SILTSTONE
-853.0	SPOON		SANDSTONE	4.0	1236.0	
-857.0	SPOON		SHALE	1.0	1240.0	
-858.0	SPOON		SANDSTONE	7.0	1241.0	
-865.0	SPOON		SILTSTONE	14.0	1248.0	
-879.0	SPOON		SHALE	12.0	1262.0	
-891.0	SPOON		BLACK SHALE	1.0	1274.0	
-892.0	SPOON	DAVIS	COAL	4.0	1275.0	
-896.0	SPOON		UNDERCLAY	3.0	1279.0	

MAPID: 19103925000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NW NE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.211324 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.414219 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 384.0 **LOGGED (FT.):** 3400.0 **LOG TYPE:** Electric Log
SOURCE: COLLINS BROTHERS OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-547.0	CARBONDALE	HERRIN	COAL	1.0	931.0	
-606.0	CARBONDALE	BRIAR HILL	COAL	-	990.0	
-639.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1023.0	
-746.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1130.0	

MAPID: 19100838000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.234001 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.401766 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 379.0 **LOGGED (FT.):** 1312.8 **LOG TYPE:** Electric Log
SOURCE: COLLING BROTHERS **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-859.0	CARBONDALE	COLCHESTER	COAL	0.5	1238.0	
-889.0	CARBONDALE	DEKOVEN	COAL	3.0	1268.0	
-892.0	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1271.0	
-929.0	CARBONDALE	DAVIS	COAL	4.8	1308.0	LOWER DEKOVEN MERGED?

MAPID: 19100838000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.234001 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.401766 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 379.0 **LOGGED (FT.):** 3412.0 **LOG TYPE:** Electric Log
SOURCE: COLLINS BROTHERS OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-598.0	CARBONDALE	HERRIN	COAL	3.0	977.0	
-641.0	CARBONDALE	BRIAR HILL	COAL	-	1020.0	
-675.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1054.0	
-789.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1168.0	

MAPID: 19101167000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 30 **QUARTERS/FOOTAGES:** 331' N line, 350' W line of SE NW
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.252646 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.41063 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 408.0 **LOGGED (FT.):** 3440.0 **LOG TYPE:** Electric Log
SOURCE: V T DRILLING CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-584.0	CARBONDALE	HERRIN	COAL	2.0	992.0	
-638.0	CARBONDALE	BRIAR HILL	COAL	-	1046.0	
-666.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1074.0	
-782.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1190.0	

MAPID: 19100837000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.248261 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.392686 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 396.0 **LOGGED (FT.):** 3447.0 **LOG TYPE:** Electric Log
SOURCE: GULF REFINING CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-601.0	CARBONDALE	HERRIN	COAL	3.0	997.0	
-661.0	CARBONDALE	BRIAR HILL	COAL	-	1057.0	
-696.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1092.0	
-808.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1204.0	

MAPID: 19101168000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' N line, 255' E line
QUADRANGLE: ALBION NW **LONGITUDE:** -88.222445 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.399885 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 380.0 **LOGGED (FT.):** 3398.0 **LOG TYPE:** Electric Log
SOURCE: COLLINS BROTHERS OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-555.0	CARBONDALE	HERRIN	COAL	3.0	935.0	
-606.0	CARBONDALE	BRIAR HILL	COAL	-	986.0	
-637.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1017.0	
-744.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1124.0	

MAPID: 19103927000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.215856 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.399895 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 383.0 **LOGGED (FT.):** 3302.0 **LOG TYPE:** Electric Log
SOURCE: COLLINS BROTHERS OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-538.0	CARBONDALE	HERRIN	COAL	3.0	921.0	
-593.0	CARBONDALE	BRIAR HILL	COAL	-	976.0	
-623.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1006.0	
-731.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1114.0	

MAPID: 19101173000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' N line, 330' W line
QUADRANGLE: ALBION NW **LONGITUDE:** -88.202236 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.399867 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 382.0 **LOGGED (FT.):** 3390.0 **LOG TYPE:** Electric Log
SOURCE: COLLINS BROTHERS OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-538.0	CARBONDALE	HERRIN	COAL	3.0	920.0	
-588.0	CARBONDALE	BRIAR HILL	COAL	-	970.0	
-622.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1004.0	
-733.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1115.0	

MAPID: 19103479000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.177222 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.396331 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 391.0 **LOGGED (FT.):** 3345.0 **LOG TYPE:** Electric Log
SOURCE: N V DUNCAN DRILLING **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-564.0	CARBONDALE	HERRIN	COAL	4.0	955.0	
-611.0	CARBONDALE	BRIAR HILL	COAL	-	1002.0	
-649.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1040.0	
-761.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1152.0	

MAPID: 19103527000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 1S 9E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NE NW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.158824 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.399909 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 407.0 **LOGGED (FT.):** 3403.0 **LOG TYPE:** Electric Log
SOURCE: GULF OIL CORPORATION **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-553.0	CARBONDALE	HERRIN	COAL	4.0	960.0	
-595.0	CARBONDALE	BRIAR HILL	COAL	-	1002.0	
-633.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1040.0	
-743.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1150.0	

MAPID: 19100004000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 21 **QUARTERS/FOOTAGES:** NE SE SW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.650382 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.594812 **DATE COLLECTED:** 0 / 0 / 1937
SURFACE ELEVATION (FT.): 586.0 **LOGGED (FT.):** 3313.0 **LOG TYPE:**
SOURCE: BNDM&TREES, NUGNT&ROSE 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-84.0	BOND	CARTHAGE	LIMESTONE	-	670.0	
-464.0	CARBONDALE	HERRIN	COAL	-	1050.0	

MAPID: 19104111000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE NE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.643211 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.603987 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 1079.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-58.0	BOND	CARTHAGE	LIMESTONE	-	608.0	
-525.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1075.0	

MAPID: 19100563000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 22 **QUARTERS/FOOTAGES:** SE SE SW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.63188 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.593209 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 544.0 **LOGGED (FT.):** 1084.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-536.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1080.0	

MAPID: 19100563000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 22 **QUARTERS/FOOTAGES:** SE SE SW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.63188 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.593209 **DATE COLLECTED:** 0 / 0 / 1947
SURFACE ELEVATION (FT.): 544.0 **LOGGED (FT.):** 3025.0 **LOG TYPE:**
SOURCE: NAT ASSOC, HENSON ETL 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-63.0	BOND	CARTHAGE	LIMESTONE	-	607.0	
-469.0	CARBONDALE	HERRIN	COAL	-	1013.0	

MAPID: 19100564000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 22 **QUARTERS/FOOTAGES:** NW NW SE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.629502 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.598674 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 532.0 **LOGGED (FT.):** 1068.0 **LOG TYPE:** Electric Log
SOURCE: LUTTRELL HOMER **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-63.0	BOND	CARTHAGE	LIMESTONE	-	595.0	
-532.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1064.0	

MAPID: 19100564000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 22 **QUARTERS/FOOTAGES:** NW NW SE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.629502 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.598674 **DATE COLLECTED:** 0 / 0 / 1945
SURFACE ELEVATION (FT.): 532.0 **LOGGED (FT.):** 2998.0 **LOG TYPE:**
SOURCE: LUTTRELL H, STOFER COM 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-62.0	BOND	CARTHAGE	LIMESTONE	-	594.0	
-469.0	CARBONDALE	HERRIN	COAL	-	1001.0	

MAPID: 19104188000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.624958 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.595081 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 522.0 **LOGGED (FT.):** 1060.0 **LOG TYPE:** Electric Log
SOURCE: DUNNILL, JOHN F. OIL CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-534.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1056.0	

MAPID: 19100565000C **VERSION:** 1 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.618067 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.598787 **DATE COLLECTED:** 0 / 0 / 1945
SURFACE ELEVATION (FT.): 529.0 **LOGGED (FT.):** 3045.0 **LOG TYPE:**
SOURCE: BREHM C E, TULLY J M 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-71.0	BOND	CARTHAGE	LIMESTONE	-	600.0	
-477.0	CARBONDALE	HERRIN	COAL	-	1006.0	

MAPID: 19101713000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.615767 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.597005 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 522.0 **LOGGED (FT.):** 1068.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-60.0	BOND	CARTHAGE	LIMESTONE	-	582.0	
-542.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1064.0	

MAPID: 19103313000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.620276 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.604209 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 532.0 **LOGGED (FT.):** 1072.0 **LOG TYPE:** Electric Log
SOURCE: HIGGINS&WHITTINGHILL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-536.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1068.0	

MAPID: 19100005000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 24 **QUARTERS/FOOTAGES:** SW NW SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.602013 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.597175 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 509.0 **LOGGED (FT.):** 1060.0 **LOG TYPE:** Electric Log
SOURCE: GERSON A W **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-51.0	BOND	CARTHAGE	LIMESTONE	-	560.0	
-547.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1056.0	

MAPID: 19100005000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 24 **QUARTERS/FOOTAGES:** SW NW SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.602013 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.597175 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 509.0 **LOGGED (FT.):** 3028.0 **LOG TYPE:**
SOURCE: GERSON A W, LEPPO 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-51.0	BOND	CARTHAGE	LIMESTONE	-	560.0	
-475.0	CARBONDALE	HERRIN	COAL	-	984.0	

MAPID: 19101714000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.599936 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.58082 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 494.0 **LOGGED (FT.):** 1050.0 **LOG TYPE:** Electric Log
SOURCE: GRIFFITH WILBUR L **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-80.0	BOND	CARTHAGE	LIMESTONE	-	574.0	
-552.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1046.0	

MAPID: 19100711000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.627332 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.591414 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 1067.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	BOND	CARTHAGE	LIMESTONE	-	589.0	
-	CARBONDALE	SPRINGFIELD	COAL	4.0	1063.0	

MAPID: 19101716000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.636518 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.591344 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 540.0 **LOGGED (FT.):** 1070.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-526.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1066.0	

MAPID: 19104216000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.690199 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.579871 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 464.0 **LOGGED (FT.):** 1001.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-73.0	BOND	CARTHAGE	LIMESTONE	-	537.0	
-533.0	CARBONDALE	SPRINGFIELD	COAL	4.0	997.0	

MAPID: 19100429000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 31 **QUARTERS/FOOTAGES:** NE SW NE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.684139 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.572513 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 526.0 **LOGGED (FT.):** 1087.0 **LOG TYPE:** Electric Log
SOURCE: CARTER J W ETAL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-134.0	BOND	CARTHAGE	LIMESTONE	-	660.0	
-557.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1083.0	

MAPID: 19100429000C **VERSION:** 2 **PROJECT:** CIRC 164

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 31 **QUARTERS/FOOTAGES:** NE SW NE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.684139 **GEOLOGIST:**
CONFIDENTIAL: N **LATITUDE:** 38.572513 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 526.0 **LOGGED (FT.):** 3145.0 **LOG TYPE:**
SOURCE: CRTR J ETL, FATHR COMM 1 **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-104.0	BOND	CARTHAGE	LIMESTONE	-	630.0	
-492.0	CARBONDALE	HERRIN	COAL	-	1018.0	

MAPID: 19103304000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.669448 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.569009 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 520.0 **LOGGED (FT.):** 1084.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-108.0	BOND	CARTHAGE	LIMESTONE	-	628.0	
-560.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1080.0	

MAPID: 19101717000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.641405 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.574917 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 503.0 **LOGGED (FT.):** 1070.0 **LOG TYPE:** Electric Log
SOURCE: GRIFFITH WILBUR L **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-563.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1066.0	

MAPID: 19104113000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.648665 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.563903 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 524.0 **LOGGED (FT.):** 1096.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-104.0	BOND	CARTHAGE	LIMESTONE	-	628.0	
-568.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1092.0	

MAPID: 19107407000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 420' E line of NW
QUADRANGLE: ORCHARDVILLE **LONGITUDE:** -88.651011 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.576601 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 504.0 **LOGGED (FT.):** 1056.5 **LOG TYPE:** Drillers Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-549.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1053.0	

MAPID: 19101718000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.606898 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.577091 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 492.0 **LOGGED (FT.):** 1057.0 **LOG TYPE:** Electric Log
SOURCE: GULF REFINING CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-561.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1053.0	

MAPID: 19101720000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.604745 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.566197 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 475.0 **LOGGED (FT.):** 1049.5 **LOG TYPE:** Electric Log
SOURCE: EVERHART J WILLIAM **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-571.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1046.0	

MAPID: 19101721000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 35 **QUARTERS/FOOTAGES:** 660' S line, 330' W line of NE SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.616265 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.568787 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 506.0 **LOGGED (FT.):** 1094.0 **LOG TYPE:** Electric Log
SOURCE: EVERHART J WILLIAM **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-104.0	BOND	CARTHAGE	LIMESTONE	-	610.0	
-584.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1090.0	

MAPID: 19100709000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.586242 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.568286 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 491.0 **LOGGED (FT.):** 1038.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-543.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1034.0	

MAPID: 19101722000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' N line, 330' W line
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.602258 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.577144 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 1057.0 **LOG TYPE:** Electric Log
SOURCE: ALLEN, W. O. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-549.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1054.0	

MAPID: 19101723000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.593211 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.564542 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 476.0 **LOGGED (FT.):** 1040.0 **LOG TYPE:** Electric Log
SOURCE: EVERHART J WILLIAM **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-562.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1038.0	

MAPID: 19103012000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 5E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.597745 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.569936 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 472.0 **LOGGED (FT.):** 1040.0 **LOG TYPE:** Electric Log
SOURCE: ZICOS, GEORGE **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-79.0	BOND	CARTHAGE	LIMESTONE	-	551.0	
-564.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1036.0	

MAPID: 19101724000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' S line, 330' E line
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.546672 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.592798 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 471.0 **LOGGED (FT.):** 1131.5 **LOG TYPE:** Electric Log
SOURCE: PEKE DRLG. & HALBERT **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-657.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1128.0	

MAPID: 19104214000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.546602 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.60012 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 493.0 **LOGGED (FT.):** 1124.0 **LOG TYPE:** Electric Log
SOURCE: TROOP, R. H. ETAL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-627.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1120.0	

MAPID: 19105159000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.551269 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.602085 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 485.0 **LOGGED (FT.):** 1114.0 **LOG TYPE:** Electric Log
SOURCE: EAST CENT. DEV. CO., INC **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-139.0	BOND	CARTHAGE	LIMESTONE	-	624.0	
-626.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1111.0	

MAPID: 19101725000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 21 **QUARTERS/FOOTAGES:** 990' N line, 330' W line of NE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.534986 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.603436 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 487.0 **LOGGED (FT.):** 1154.5 **LOG TYPE:** Electric Log
SOURCE: SUPERIOR OIL COMPANY **WELL TYPE:** Temporarily Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-663.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1150.0	

MAPID: 19105195000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.535082 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.59246 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 486.0 **LOGGED (FT.):** 1140.5 **LOG TYPE:** Electric Log
SOURCE: MAGNOLIA PETROLEUM **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-650.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1136.0	

MAPID: 19101730000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.525794 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.594033 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 479.0 **LOGGED (FT.):** 1121.0 **LOG TYPE:** Electric Log
SOURCE: THOMPSON ROY I **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-638.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1117.0	

MAPID: 19104115000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.516388 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.595491 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 467.0 **LOGGED (FT.):** 1125.0 **LOG TYPE:** Electric Log
SOURCE: ASHLAND OIL&REF. CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-133.0	BOND	CARTHAGE	LIMESTONE	-	600.0	
-654.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1121.0	

MAPID: 19128428000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.525729 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.603149 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 473.0 **LOGGED (FT.):** 1133.0 **LOG TYPE:** Electric Log
SOURCE: STEPHENS, CHARLES **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-656.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1129.0	

MAPID: 19103630000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: CISNE **LONGITUDE:** -88.497471 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.596776 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 472.0 **LOGGED (FT.):** 1060.0 **LOG TYPE:** Electric Log
SOURCE: SKILES OIL CORP **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-584.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1056.0	

MAPID: 19100746000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE NW
QUADRANGLE: CISNE **LONGITUDE:** -88.483231 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.601908 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 461.0 **LOGGED (FT.):** 1140.0 **LOG TYPE:** Electric Log
SOURCE: BRIDGE, FRANK **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-199.0	BOND	CARTHAGE	LIMESTONE	-	660.0	
-675.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1136.0	

MAPID: 19103966000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SW
QUADRANGLE: CISNE **LONGITUDE:** -88.487991 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.594705 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 482.0 **LOGGED (FT.):** 1150.5 **LOG TYPE:** Electric Log
SOURCE: SHULMAN BROS. INC. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-664.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1146.0	

MAPID: 19100529000C **VERSION:** 2 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW
QUADRANGLE: CISNE **LONGITUDE:** -88.49983 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.582144 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 471.0 **LOGGED (FT.):** 1154.0 **LOG TYPE:** Electric Log
SOURCE: GULF REFINING CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-181.0	BOND	CARTHAGE	LIMESTONE	-	652.0	
-679.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1150.0	

MAPID: 19100529000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW

QUADRANGLE: CISNE **LONGITUDE:** -88.49983 **GEOLOGIST:** HINES

CONFIDENTIAL: N **LATITUDE:** 38.582144 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3241.0 **LOG TYPE:** Survey Sample Study

SOURCE: GULF REFINING CO. **WELL TYPE:** Oil and Gas Test

COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 19100529000C **VERSION:** 4 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW

QUADRANGLE: CISNE **LONGITUDE:** -88.49983 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.582144 **DATE COLLECTED:** 3 / 0 / 1943

SURFACE ELEVATION (FT.): 471.0 **LOGGED (FT.):** 1198.0 **LOG TYPE:** Survey Sample Study

SOURCE: GULF REFINING CO. 1 **WELL TYPE:** Unsuccessful or Unknown Results

COMMENT: COAL DIVISION CONTROL WELL #128

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
471.0			UNKNOWN	160.0	0.0	
311.0			SHALE	40.0	160.0	
271.0			SILTSTONE	20.0	200.0	
251.0			SANDSTONE	6.0	220.0	
245.0			SANDSTONE	44.0	226.0	COAL PARTING NEAR TOP
201.0			SHALE	20.0	270.0	
181.0			SILTSTONE	6.0	290.0	
175.0			LIMESTONE	4.0	296.0	
171.0			SHALE	5.0	300.0	
166.0			SANDSTONE	5.0	305.0	
161.0			SHALE	1.0	310.0	
160.0			LIMESTONE	1.0	311.0	
159.0			SILTSTONE	62.0	312.0	
97.0			SHALE	6.0	374.0	
91.0			LIMESTONE	6.0	380.0	
85.0			SHALE	12.0	386.0	
73.0			LIMESTONE	1.0	398.0	
72.0			SHALE	7.0	399.0	
65.0			LIMESTONE	3.0	406.0	
62.0			SHALE	4.0	409.0	
58.0			LIMESTONE	2.0	413.0	
56.0			SHALE	3.0	415.0	
53.0			SILTSTONE	20.0	418.0	
33.0			SHALE	4.0	438.0	
29.0			SILTSTONE	5.0	442.0	
24.0			LIMESTONE	1.0	447.0	
23.0			SHALE	2.0	448.0	
21.0			LIMESTONE	2.0	450.0	
19.0			SILTSTONE	15.0	452.0	
4.0			LIMESTONE	5.0	467.0	
-1.0			BLACK SHALE & COAL	1.0	472.0	
-2.0			UNDERCLAY	5.0	473.0	
-7.0			SILTSTONE	55.0	478.0	WITH SHALE
-62.0			BLACK SHALE	13.0	533.0	
-75.0			LIMESTONE	4.0	546.0	
-79.0			SANDSTONE	7.0	550.0	
-86.0			SHALE	3.0	557.0	
-89.0			UNKNOWN	5.0	560.0	
-94.0			SILTSTONE	15.0	565.0	

-109.0	SHALE	2.0	580.0	
-111.0	SANDSTONE	6.0	582.0	
-117.0	SILTSTONE	12.0	588.0	
-129.0	LIMESTONE	4.0	600.0	WITH UNDERCLAY
-133.0	SHALE	4.0	604.0	
-137.0	LIMESTONE	6.0	608.0	WITH UNDERCLAY
-143.0	SHALE	10.0	614.0	
-153.0	SANDSTONE	26.0	624.0	
-179.0	LIMESTONE	1.0	650.0	
-180.0	SHALE	3.0	651.0	
-183.0	LIMESTONE	8.0	654.0	
-191.0	BLACK SHALE	4.0	662.0	
-195.0	SHALE	14.0	666.0	
-209.0	NO RECORD	6.0	680.0	
-215.0	SANDSTONE	6.0	686.0	
-221.0	SHALE	16.0	692.0	
-237.0	SANDSTONE	48.0	708.0	
-285.0	SILTSTONE	5.0	756.0	
-290.0	BLACK SHALE	5.0	761.0	
-295.0	SHALE	44.0	766.0	
-339.0	SANDSTONE	42.0	810.0	
-381.0	SHALE	12.0	852.0	
-393.0	LIMESTONE	12.0	864.0	
-405.0	SHALE	4.0	876.0	
-409.0	SILTSTONE	30.0	880.0	
-439.0	SHALE	20.0	910.0	
-459.0	SANDSTONE	10.0	930.0	
-469.0	NO RECORD	12.0	940.0	
-481.0	SANDSTONE/SHALE	18.0	952.0	
-499.0	SILTSTONE	10.0	970.0	
-509.0	SHALE	40.0	980.0	
-549.0	SILTSTONE	30.0	1020.0	
-579.0	SHALE	6.0	1050.0	
-585.0	LIMESTONE	4.0	1056.0	
-589.0	BLACK SHALE	1.0	1060.0	
-590.0	SHALE	7.0	1061.0	
-597.0	SANDSTONE	8.0	1068.0	
-605.0	SILTSTONE	8.0	1076.0	
-613.0	BLACK SHALE	8.0	1084.0	SOME COAL
-621.0	UNDERCLAY	2.0	1092.0	
-623.0	SILTSTONE	2.0	1094.0	
-625.0	SANDSTONE	53.0	1096.0	
-678.0	SHALE	1.0	1149.0	
-679.0	BLACK SHALE	2.0	1150.0	
-681.0	COAL	3.0	1152.0	
-684.0	UNDERCLAY	1.0	1155.0	
-685.0	CLAYSTONE & LIMESTONE	7.0	1156.0	

-692.0	SHALE	4.0	1163.0
-696.0	LIMESTONE	3.0	1167.0
-699.0	SILTSTONE	20.0	1170.0
-719.0	SHALE	4.0	1190.0
-723.0	SILTSTONE	4.0	1194.0

MAPID: 19101731000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NE

QUADRANGLE: CISNE **LONGITUDE:** -88.492762 **GEOLOGIST:** C TREWORGY

CONFIDENTIAL: N **LATITUDE:** 38.583769 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 485.0 **LOGGED (FT.):** 1152.0 **LOG TYPE:** Electric Log

SOURCE: SCHOCK W O **WELL TYPE:** Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-663.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1148.0	

MAPID: 19100743000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NW

QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.525816 **GEOLOGIST:** C TREWORGY

CONFIDENTIAL: N **LATITUDE:** 38.590358 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 480.0 **LOGGED (FT.):** 1121.0 **LOG TYPE:** Electric Log

SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Service Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-637.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1117.0	

MAPID: 19101732000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NE

QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.530444 **GEOLOGIST:** C TREWORGY

CONFIDENTIAL: N **LATITUDE:** 38.590502 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 484.0 **LOGGED (FT.):** 1121.0 **LOG TYPE:** Electric Log

SOURCE: THOMPSON ROY I **WELL TYPE:** Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-632.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1116.0	

MAPID: 19101733000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.537396 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.590706 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 486.0 **LOGGED (FT.):** 1149.5 **LOG TYPE:** Electric Log
SOURCE: GEORGE & WRATHER OIL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-146.0	BOND	CARTHAGE	LIMESTONE	-	632.0	
-659.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1145.0	

MAPID: 19101864000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.553836 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.578382 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 488.0 **LOGGED (FT.):** 1119.0 **LOG TYPE:** Electric Log
SOURCE: GEORGE & WRATHER OIL **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-135.0	BOND	CARTHAGE	LIMESTONE	-	623.0	
-627.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1115.0	

MAPID: 19101734000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' N line, 380' W line of SE SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.576979 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.580565 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 486.0 **LOGGED (FT.):** 1061.0 **LOG TYPE:** Electric Log
SOURCE: MARVIN, GAURD S. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-572.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1058.0	

MAPID: 19107584000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.549244 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.563532 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 1128.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-624.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1124.0	

MAPID: 19100744000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' E line
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.528129 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.575797 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 496.0 **LOGGED (FT.):** 1161.0 **LOG TYPE:** Electric Log
SOURCE: SHULMAN BROS. INC. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-661.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1157.0	

MAPID: 19107587000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SW
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.544569 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.56338 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 497.0 **LOGGED (FT.):** 1120.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-123.0	BOND	CARTHAGE	LIMESTONE	-	620.0	
-620.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1117.0	

MAPID: 19103157000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SE
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.511767 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.562392 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 502.0 **LOGGED (FT.):** 1177.0 **LOG TYPE:** Electric Log
SOURCE: SUN DRLG CO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-156.0	BOND	CARTHAGE	LIMESTONE	-	658.0	
-671.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1173.0	

MAPID: 19104116000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' S line, 330' W line
QUADRANGLE: JOHNSONVILLE **LONGITUDE:** -88.525834 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.562796 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 1160.5 **LOG TYPE:** Electric Log
SOURCE: GLASS, THEO G. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-651.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1156.0	

MAPID: 19100745000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 6E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: CISNE **LONGITUDE:** -88.478737 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.566852 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 462.0 **LOGGED (FT.):** 1124.0 **LOG TYPE:** Electric Log
SOURCE: SLAGTER ARTHUR J JR **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-658.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1120.0	

MAPID: 19100797000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' N line, 330' E line
QUADRANGLE: CISNE **LONGITUDE:** -88.458504 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.602857 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 443.0 **LOGGED (FT.):** 1042.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-177.0	BOND	CARTHAGE	LIMESTONE	-	620.0	
-599.0	CARBONDALE	HERRIN	COAL	-	1042.0	

MAPID: 19100796000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SE
QUADRANGLE: CISNE **LONGITUDE:** -88.444464 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.589695 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 447.0 **LOGGED (FT.):** 1122.0 **LOG TYPE:** Electric Log
SOURCE: SHAFFER & STOLL, INC. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-671.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1118.0	

MAPID: 19101866000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NE
QUADRANGLE: CISNE **LONGITUDE:** -88.446728 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.600721 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 426.0 **LOGGED (FT.):** 1082.0 **LOG TYPE:** Electric Log
SOURCE: STANFORD PETROLEUM **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-171.0	BOND	CARTHAGE	LIMESTONE	-	597.0	
-598.0	CARBONDALE	HERRIN	COAL	-	1024.0	
-651.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1077.0	

MAPID: 19100795000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: CISNE **LONGITUDE:** -88.42806 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.594854 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 419.0 **LOGGED (FT.):** 1112.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-195.0	BOND	CARTHAGE	LIMESTONE	-	614.0	
-621.0	CARBONDALE	HERRIN	COAL	-	1040.0	
-687.0	CARBONDALE	SPRINGFIELD	COAL	6.0	1106.0	

MAPID: 19101735000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NE
QUADRANGLE: CISNE **LONGITUDE:** -88.402524 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.600051 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 418.0 **LOGGED (FT.):** 1070.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-648.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1066.0	

MAPID: 19103289000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: CISNE **LONGITUDE:** -88.409531 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.594631 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 418.0 **LOGGED (FT.):** 1088.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-596.0	CARBONDALE	HERRIN	COAL	-	1014.0	
-665.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1083.0	

MAPID: 19104118000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 22 **QUARTERS/FOOTAGES:** 338' S line, 330' E line
QUADRANGLE: CISNE **LONGITUDE:** -88.40272 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.589119 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 445.0 **LOGGED (FT.):** 1078.5 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-628.0	CARBONDALE	SPRINGFIELD	COAL	5.5	1073.0	

MAPID: 19103269000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 23 **QUARTERS/FOOTAGES:** 350' S line, 360' W line of NW
QUADRANGLE: CISNE **LONGITUDE:** -88.400141 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.596428 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 416.0 **LOGGED (FT.):** 1054.0 **LOG TYPE:** Electric Log
SOURCE: PIONEER OIL COMPANY **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-572.0	CARBONDALE	HERRIN	COAL	2.0	988.0	
-634.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1050.0	

MAPID: 19104324000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE
QUADRANGLE: CISNE **LONGITUDE:** -88.384016 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.594327 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 414.0 **LOGGED (FT.):** 1028.0 **LOG TYPE:** Electric Log
SOURCE: KELLEY&CONRAD&KAYE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-546.0	CARBONDALE	HERRIN	COAL	-	960.0	
-611.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1025.0	

MAPID: 19105220000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' S line, 660' E line of NE
QUADRANGLE: CISNE **LONGITUDE:** -88.385141 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.596166 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 414.0 **LOGGED (FT.):** 1034.0 **LOG TYPE:** Electric Log
SOURCE: PURE OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-617.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1031.0	

MAPID: 19101741000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.374652 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.601595 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 418.0 **LOGGED (FT.):** 1044.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-561.0	CARBONDALE	HERRIN	COAL	2.0	979.0	
-622.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1040.0	

MAPID: 19104321000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW
QUADRANGLE: CISNE **LONGITUDE:** -88.381694 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.594321 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 415.0 **LOGGED (FT.):** 1031.0 **LOG TYPE:** Electric Log
SOURCE: KELLEY&CONRAD&KAYE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-547.0	CARBONDALE	HERRIN	COAL	-	962.0	
-612.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1027.0	

MAPID: 19105247000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.374955 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.583508 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 443.0 **LOGGED (FT.):** 1061.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-551.0	CARBONDALE	HERRIN	COAL	-	994.0	
-614.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1057.0	

MAPID: 19105256000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 25 **QUARTERS/FOOTAGES:** 380' S line, 1706' E line
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.370739 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.574507 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 409.0 **LOGGED (FT.):** 1048.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-634.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1043.0	

MAPID: 19128954000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NW
QUADRANGLE: CISNE **LONGITUDE:** -88.381837 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.586998 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 415.0 **LOGGED (FT.):** 1025.0 **LOG TYPE:** Electric Log
SOURCE: UNION OIL CO. OF CA **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-606.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1021.0	

MAPID: 19101748000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SW
QUADRANGLE: CISNE **LONGITUDE:** -88.398197 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.579948 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 444.0 **LOGGED (FT.):** 1074.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-626.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1070.0	

MAPID: 19101751000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NW
QUADRANGLE: CISNE **LONGITUDE:** -88.400452 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.585431 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 454.0 **LOGGED (FT.):** 1099.5 **LOG TYPE:** Electric Log
SOURCE: SLAPE DON DRLG CO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-642.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1096.0	

MAPID: 19105284000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 26 **QUARTERS/FOOTAGES:** 2275' N line, 999' E line
QUADRANGLE: CISNE **LONGITUDE:** -88.386563 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.581654 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 412.0 **LOGGED (FT.):** 1023.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-543.0	CARBONDALE	HERRIN	COAL	-	955.0	
-607.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1019.0	

MAPID: 19100789000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 27 **QUARTERS/FOOTAGES:** 502' S line, 330' E line of SW NE
QUADRANGLE: CISNE **LONGITUDE:** -88.407425 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.582344 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 444.0 **LOGGED (FT.):** 1080.0 **LOG TYPE:** Electric Log
SOURCE: WAYNE DRLG CO **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-158.0	BOND	CARTHAGE	LIMESTONE	-	602.0	
-569.0	CARBONDALE	HERRIN	COAL	-	1013.0	
-632.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1076.0	

MAPID: 19100014000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW
QUADRANGLE: CISNE **LONGITUDE:** -88.43063 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.574833 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 446.0 **LOGGED (FT.):** 1145.5 **LOG TYPE:** Electric Log
SOURCE: BENDENUM & TREES **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-696.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1142.0	

MAPID: 19105335000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NW
QUADRANGLE: CISNE **LONGITUDE:** -88.432859 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.58217 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 453.0 **LOGGED (FT.):** 1142.0 **LOG TYPE:** Electric Log
SOURCE: TULLEY & CARTER **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-183.0	BOND	CARTHAGE	LIMESTONE	-	636.0	
-619.0	CARBONDALE	HERRIN	COAL	-	1072.0	
-685.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1138.0	

MAPID: 19100787000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW
QUADRANGLE: CISNE **LONGITUDE:** -88.456346 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.580841 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 452.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: PHILLIPS PETROLEUM CO. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	SPRINGFIELD	COAL	0.0		

MAPID: 19105344000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NE
QUADRANGLE: CISNE **LONGITUDE:** -88.446891 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.586095 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 452.0 **LOGGED (FT.):** 1123.0 **LOG TYPE:** Electric Log
SOURCE: STEELE J W **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-168.0	BOND	CARTHAGE	LIMESTONE	-	620.0	
-604.0	CARBONDALE	HERRIN	COAL	-	1056.0	
-668.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1120.0	

MAPID: 19100786000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 32 **QUARTERS/FOOTAGES:** 660' N line, 330' E line of NW
QUADRANGLE: CISNE **LONGITUDE:** -88.449301 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.572461 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log
SOURCE: BELL BROTHERS **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	SPRINGFIELD	COAL	0.0		

MAPID: 19104126000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SE
QUADRANGLE: CISNE **LONGITUDE:** -88.44448 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.566006 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 467.0 **LOGGED (FT.):** 1140.0 **LOG TYPE:** Electric Log
SOURCE: CALVERT DRILLING, INC. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-163.0	BOND	CARTHAGE	LIMESTONE	-	630.0	
-598.0	CARBONDALE	HERRIN	COAL	-	1065.0	
-671.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1138.0	

MAPID: 19101765000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW NW
QUADRANGLE: CISNE **LONGITUDE:** -88.437501 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.569487 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 452.0 **LOGGED (FT.):** 1140.5 **LOG TYPE:** Electric Log
SOURCE: NOAH PETROLEUM, THE **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-685.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1137.0	

MAPID: 19104127000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW
QUADRANGLE: CISNE **LONGITUDE:** -88.430632 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.567602 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 451.0 **LOGGED (FT.):** 1136.0 **LOG TYPE:** Electric Log
SOURCE: CALVERT DRILLING, INC. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-189.0	BOND	CARTHAGE	LIMESTONE	-	640.0	
-611.0	CARBONDALE	HERRIN	COAL	-	1062.0	
-681.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1132.0	

MAPID: 19101770000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 34 **QUARTERS/FOOTAGES:** 2303' N line, 330' E line
QUADRANGLE: CISNE **LONGITUDE:** -88.403092 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.567259 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 449.0 **LOGGED (FT.):** 1089.5 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-636.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1085.0	

MAPID: 19105363000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 34 **QUARTERS/FOOTAGES:** 2294' S line, 2291' W line
QUADRANGLE: CISNE **LONGITUDE:** -88.412317 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.565592 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 443.0 **LOGGED (FT.):** 1089.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-581.0	CARBONDALE	HERRIN	COAL	-	1024.0	
-642.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1085.0	

MAPID: 19105387000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' S line, 998' W line of SW
QUADRANGLE: CISNE **LONGITUDE:** -88.398592 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.560081 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 449.0 **LOGGED (FT.):** 1124.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-671.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1120.0	

MAPID: 19105397000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' S line, 1001' E line of NE SE
QUADRANGLE: CISNE **LONGITUDE:** -88.38693 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.563581 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 444.0 **LOGGED (FT.):** 1034.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-586.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1030.0	

MAPID: 19105411000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NW
QUADRANGLE: CISNE **LONGITUDE:** -88.393685 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.570863 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 450.0 **LOGGED (FT.):** 1080.0 **LOG TYPE:** Electric Log
SOURCE: DAVIS ALVA C PETRO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-239.0	BOND	CARTHAGE	LIMESTONE	-	689.0	
-569.0	CARBONDALE	HERRIN	COAL	-	1019.0	
-626.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1076.0	

MAPID: 19101777000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.365978 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.570711 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 408.0 **LOGGED (FT.):** 1039.5 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Water Injection
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-628.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1036.0	

MAPID: 19104131000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 7E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' S line, 600' W line of SE NW
QUADRANGLE: CISNE **LONGITUDE:** -88.376595 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.567131 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 422.0 **LOGGED (FT.):** 1002.0 **LOG TYPE:** Electric Log
SOURCE: ZANETIS,JOHN M.ESTATE OF **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-97.0	BOND	CARTHAGE	LIMESTONE	-	519.0	
-514.0	CARBONDALE	HERRIN	COAL	-	936.0	
-576.0	CARBONDALE	SPRINGFIELD	COAL	4.0	998.0	

MAPID: 19107799000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 19 **QUARTERS/FOOTAGES:** 527' N line, 1520' E line of NE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.354626 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.600432 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 1082.0 **LOG TYPE:** Electric Log
SOURCE: UNION OIL CO. OF CA **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-140.0	BOND	CARTHAGE	LIMESTONE	-	600.0	
-558.0	CARBONDALE	HERRIN	COAL	-	1018.0	
-617.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1077.0	

MAPID: 19105468000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW SE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.336644 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.591382 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 446.0 **LOGGED (FT.):** 1106.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-590.0	CARBONDALE	HERRIN	COAL	-	1036.0	
-656.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1102.0	

MAPID: 19100444000C **VERSION:** 1 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 21 **QUARTERS/FOOTAGES:** 995' S line, 982' E line of SE

QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.315899 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.589054 **DATE COLLECTED:** 11 / 0 / 1942

SURFACE ELEVATION (FT.): 454.0 **LOGGED (FT.):** 3060.0 **LOG TYPE:** Survey Sample Study

SOURCE: PURE OIL CO. 1 **WELL TYPE:** Producer-Oil and Gas

COMMENT: COAL DIVISION CONTROL WELL #103

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
454.0			UNKNOWN	10.0	0.0	
444.0			SANDSTONE	30.0	10.0	
414.0			UNKNOWN	10.0	40.0	
404.0			SANDSTONE	20.0	50.0	
384.0			UNKNOWN	10.0	70.0	
374.0			SANDSTONE	14.0	80.0	
360.0			SHALE	3.0	94.0	
357.0			BLACK SHALE	1.0	97.0	
356.0			SANDSTONE	126.0	98.0	
230.0			LIMESTONE	2.0	224.0	
228.0			BLACK SHALE & COAL	2.0	226.0	
226.0			SANDSTONE	22.0	228.0	
204.0			LIMESTONE	2.0	250.0	
202.0			BLACK SHALE & COAL	2.0	252.0	
200.0			SANDSTONE	18.0	254.0	
182.0			SILTSTONE	20.0	272.0	
162.0			SANDSTONE	14.0	292.0	
148.0			BLACK LIMESTONE	2.0	306.0	
146.0			BLACK SHALE	2.0	308.0	
144.0			SILTSTONE	12.0	310.0	
132.0			LIMESTONE	2.0	322.0	
130.0			SANDSTONE	10.0	324.0	
120.0			SHALE	14.0	334.0	
106.0			SILTSTONE	46.0	348.0	
60.0			BLACK SHALE & COAL	2.0	394.0	
58.0			UNDERCLAY	1.0	396.0	
57.0			SANDSTONE	5.0	397.0	
52.0			SILTSTONE	18.0	402.0	
34.0			SHALE	14.0	420.0	
20.0			SANDSTONE	10.0	434.0	
10.0			SHALE	20.0	444.0	
-10.0			SILTSTONE	2.0	464.0	
-12.0			LIMESTONE	2.0	466.0	
-14.0			SILTSTONE	4.0	468.0	
-18.0			SHALE	41.0	472.0	
-59.0			BLACK SHALE & COAL	2.0	513.0	
-61.0			UNDERCLAY	1.0	515.0	
-62.0			SHALE	26.0	516.0	
-88.0			SILTSTONE	8.0	542.0	

-96.0			SANDSTONE	8.0	550.0	
-104.0			BLACK SHALE	1.0	558.0	
-105.0			SANDSTONE	51.0	559.0	
-156.0	BOND	CARTHAGE	LIMESTONE	6.0	610.0	
-162.0	MODESTO		BLACK SHALE & COAL	2.0	616.0	
-164.0	MODESTO		SILTSTONE	43.0	618.0	
-207.0	MODESTO		BLACK SHALE	1.0	661.0	
-208.0	MODESTO		SILTSTONE	6.0	662.0	
-214.0	MODESTO		BLACK SHALE	1.0	668.0	
-215.0	MODESTO		SHALE	11.0	669.0	
-226.0	MODESTO		BLACK SHALE & COAL	2.0	680.0	
-228.0	MODESTO		SHALE	8.0	682.0	
-236.0	MODESTO		SILTSTONE	12.0	690.0	
-248.0	MODESTO		SHALE	10.0	702.0	
-258.0	MODESTO		SILTSTONE	6.0	712.0	
-264.0	MODESTO		SANDSTONE	89.0	718.0	
-353.0	MODESTO		LIMESTONE	2.0	807.0	
-355.0	MODESTO		BLACK SHALE	1.0	809.0	
-356.0	MODESTO		SANDSTONE	16.0	810.0	
-372.0	MODESTO		SHALE	32.0	826.0	
-404.0	MODESTO		SILTSTONE	14.0	858.0	
-418.0	MODESTO		SANDSTONE	23.0	872.0	
-441.0	MODESTO		LIMESTONE	2.0	895.0	
-443.0	MODESTO		BLACK SHALE	1.0	897.0	WITH CLAY
-444.0	MODESTO		SILTSTONE	46.0	898.0	
-490.0	MODESTO		SHALE	34.0	944.0	
-524.0	MODESTO		BLACK SHALE	1.0	978.0	
-525.0	CARBONDALE	DANVILLE	COAL	1.0	979.0	
-526.0	CARBONDALE		UNDERCLAY	2.0	980.0	
-528.0	CARBONDALE		SHALE	4.0	982.0	
-532.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	986.0	
-537.0	CARBONDALE		SHALE	3.0	991.0	
-540.0	CARBONDALE		LIMESTONE	12.0	994.0	
-552.0	CARBONDALE		SHALE	6.0	1006.0	
-558.0	CARBONDALE		BLACK SHALE	4.0	1012.0	
-562.0	CARBONDALE		BLACK SHALE & COAL	2.0	1016.0	.33 FT OF COAL
-564.0	CARBONDALE		BLACK SHALE	2.0	1018.0	WITH UNDERCLAY
-566.0	CARBONDALE	BRERETON	LIMESTONE	4.0	1020.0	
-570.0	CARBONDALE	ANNA	BLACK SHALE	1.0	1024.0	
-571.0	CARBONDALE	HERRIN	COAL	4.0	1025.0	
-575.0	CARBONDALE		UNDERCLAY	3.0	1029.0	
-578.0	CARBONDALE		SANDSTONE	10.0	1032.0	
-588.0	CARBONDALE		SILTSTONE	20.0	1042.0	
-608.0	CARBONDALE		BLACK SHALE	4.0	1062.0	
-612.0	CARBONDALE	BRIAR HILL	COAL	1.0	1066.0	
-613.0	CARBONDALE		UNDERCLAY	3.0	1067.0	
-616.0	CARBONDALE		SILTSTONE	13.0	1070.0	
-629.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	1083.0	

-630.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	1084.0	
-632.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1086.0	APPROXIMATE THICKNESS
-637.0	CARBONDALE		UNDERCLAY	3.0	1091.0	
-640.0	CARBONDALE		LIMESTONE	2.0	1094.0	
-642.0	CARBONDALE		SILTSTONE	33.0	1096.0	
-675.0	CARBONDALE		LIMESTONE	2.0	1129.0	
-677.0	CARBONDALE		SILTSTONE	33.0	1131.0	
-710.0	CARBONDALE		SHALE	9.0	1164.0	
-719.0	CARBONDALE		LIMESTONE	2.0	1173.0	
-721.0	CARBONDALE	EXCELLO	BLACK SHALE	2.0	1175.0	
-723.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	1177.0	
-725.0			UNDERCLAY	1.0	1179.0	
-726.0			SHALE	19.0	1180.0	
-745.0			BLACK SHALE	1.0	1199.0	
-746.0			COAL	0.3	1200.0	
-746.3			UNDERCLAY	0.7	1200.3	
-747.0			SANDSTONE	16.0	1201.0	
-763.0			LIMESTONE	1.0	1217.0	
-764.0			SANDSTONE	5.0	1218.0	
-769.0			BLACK SHALE	1.0	1223.0	
-770.0			SHALE	16.0	1224.0	
-786.0			SILTSTONE	28.0	1240.0	
-814.0			COAL	1.0	1268.0	
-815.0			UNDERCLAY	1.0	1269.0	
-816.0			SHALE	18.0	1270.0	
-834.0			BLACK SHALE	2.0	1288.0	
-836.0			COAL	4.0	1290.0	APPROXIMATE THICKNESS
-840.0			UNDERCLAY	2.0	1294.0	
-842.0			SANDSTONE	34.0	1296.0	
-876.0			SILTSTONE	6.0	1330.0	
-882.0			BLACK SHALE	1.0	1336.0	
-883.0			COAL	1.0	1337.0	
-884.0			UNDERCLAY	1.0	1338.0	
-885.0			SILTSTONE	4.0	1339.0	
-889.0			LIMESTONE	2.0	1343.0	
-891.0			BLACK SHALE	2.0	1345.0	
-893.0			COAL	1.0	1347.0	
-894.0			UNDERCLAY	2.0	1348.0	
-896.0			SHALE	3.0	1350.0	
-899.0			LIMESTONE	4.0	1353.0	
-903.0			SHALE	5.0	1357.0	
-908.0			LIMESTONE	20.0	1362.0	
-928.0			BLACK SHALE & COAL	1.0	1382.0	
-929.0			SHALE	24.0	1383.0	
-953.0			LIMESTONE	1.0	1407.0	
-954.0			SHALE	10.0	1408.0	
-964.0			LIMESTONE	8.0	1418.0	

-972.0	SANDSTONE	45.0	1426.0	
-1017.0	LIMESTONE	1.0	1471.0	
-1018.0	SANDSTONE	3.0	1472.0	
-1021.0	LIMESTONE	2.0	1475.0	
-1023.0	SANDSTONE	6.0	1477.0	
-1029.0	BLACK SHALE & COAL	1.0	1483.0	
-1030.0	SANDSTONE	57.0	1484.0	WITH SILTSTONE
-1087.0	LIMESTONE	8.0	1541.0	
-1095.0	SHALE	6.0	1549.0	
-1101.0	LIMESTONE	4.0	1555.0	
-1105.0	SHALE	9.0	1559.0	
-1114.0	SANDSTONE	16.0	1568.0	
-1130.0	SHALE	4.0	1584.0	
-1134.0	SANDSTONE	8.0	1588.0	
-1142.0	SHALE	2.0	1596.0	
-1144.0	SANDSTONE	44.0	1598.0	
-1188.0	LIMESTONE	2.0	1642.0	
-1190.0	SANDSTONE	6.0	1644.0	
-1196.0	SHALE	11.0	1650.0	
-1207.0	LIMESTONE	1.0	1661.0	
-1208.0	SANDSTONE	2.0	1662.0	
-1210.0	BLACK SHALE & COAL	1.0	1664.0	DEEPEST RECORDED COAL
-1211.0	SANDSTONE	39.0	1665.0	

MAPID: 19100444000C **VERSION:** 2 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 21 **QUARTERS/FOOTAGES:** 995' S line, 982' E line of SE

QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.315899 **GEOLOGIST:** HINES

CONFIDENTIAL: N **LATITUDE:** 38.589054 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 2700.0 **LOG TYPE:** Survey Sample Study

SOURCE: PURE OIL CO. **WELL TYPE:** Oil and Gas Test

COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 19104405000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 21 **QUARTERS/FOOTAGES:** 500' N line, 582' E line of SE NW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.323737 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.596039 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 457.0 **LOGGED (FT.):** 1101.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Service Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-175.0	BOND	CARTHAGE	LIMESTONE	-	632.0	
-589.0	CARBONDALE	HERRIN	COAL	-	1046.0	
-640.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1097.0	

MAPID: 19103454000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 22 **QUARTERS/FOOTAGES:** 170' N line, 60' E line of NW NW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.308158 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.600115 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 478.0 **LOGGED (FT.):** 1122.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-172.0	BOND	CARTHAGE	LIMESTONE	-	650.0	
-575.0	CARBONDALE	HERRIN	COAL	-	1053.0	
-640.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1118.0	

MAPID: 19105514000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.286148 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.589947 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 447.0 **LOGGED (FT.):** 1090.0 **LOG TYPE:** Electric Log
SOURCE: FULK, PERRY **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-155.0	BOND	CARTHAGE	LIMESTONE	-	602.0	
-567.0	CARBONDALE	HERRIN	COAL	-	1014.0	
-639.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1086.0	

MAPID: 19104191000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.265402 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.593032 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 417.0 **LOGGED (FT.):** 1052.0 **LOG TYPE:** Electric Log
SOURCE: MURPHY WILLIAM R **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-139.0	BOND	CARTHAGE	LIMESTONE	-	556.0	
-562.0	CARBONDALE	HERRIN	COAL	-	979.0	
-630.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1047.0	

MAPID: 19103459000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.265261 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.576622 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 429.0 **LOGGED (FT.):** 1071.0 **LOG TYPE:** Electric Log
SOURCE: PARTLOW & COCHONOUR **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-147.0	BOND	CARTHAGE	LIMESTONE	-	576.0	
-569.0	CARBONDALE	HERRIN	COAL	-	998.0	
-637.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1066.0	

MAPID: 19107554000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.288418 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.577264 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 439.0 **LOGGED (FT.):** 1094.0 **LOG TYPE:** Electric Log
SOURCE: CASPIAN OIL **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-175.0	BOND	CARTHAGE	LIMESTONE	-	614.0	
-583.0	CARBONDALE	HERRIN	COAL	-	1022.0	
-651.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1090.0	

MAPID: 19104104000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.302127 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.583161 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 464.0 **LOGGED (FT.):** 1107.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-158.0	BOND	CARTHAGE	LIMESTONE	-	622.0	
-574.0	CARBONDALE	HERRIN	COAL	-	1038.0	
-638.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1102.0	

MAPID: 19100803000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 28 **QUARTERS/FOOTAGES:** 380' N line, 330' W line of SE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.320488 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.578117 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 456.0 **LOGGED (FT.):** 1087.0 **LOG TYPE:** Electric Log
SOURCE: ANDERSON, F. E. & SON **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-563.0	CARBONDALE	HERRIN	COAL	-	1019.0	
-626.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1082.0	

MAPID: 19103717000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.338873 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.584151 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 444.0 **LOGGED (FT.):** 1114.0 **LOG TYPE:** Electric Log
SOURCE: APACHE PETR. DEVELOP. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-601.0	CARBONDALE	HERRIN	COAL	-	1045.0	
-666.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1110.0	

MAPID: 19104105000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.354977 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.584712 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 419.0 **LOGGED (FT.):** 1072.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-161.0	BOND	CARTHAGE	LIMESTONE	-	580.0	
-585.0	CARBONDALE	HERRIN	COAL	-	1004.0	
-649.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1068.0	

MAPID: 19105603000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 31 **QUARTERS/FOOTAGES:** 1650' S line, 330' W line
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.363805 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.563373 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 405.0 **LOGGED (FT.):** 1050.0 **LOG TYPE:** Electric Log
SOURCE: DAVIS ALVA C PETRO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-155.0	BOND	CARTHAGE	LIMESTONE	-	560.0	
-575.0	CARBONDALE	HERRIN	COAL	-	980.0	
-642.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1047.0	

MAPID: 19101818000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW SW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.345896 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.562677 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 406.0 **LOGGED (FT.):** 1073.0 **LOG TYPE:** Electric Log
SOURCE: DORAN THOMAS S **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-187.0	BOND	CARTHAGE	LIMESTONE	-	593.0	
-594.0	CARBONDALE	HERRIN	COAL	-	1000.0	
-664.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1070.0	

MAPID: 19107766000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 33 **QUARTERS/FOOTAGES:** 50' S line, 280' W line of SE SE NW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.322986 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.564829 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 448.0 **LOGGED (FT.):** 1072.0 **LOG TYPE:** Electric Log
SOURCE: UNION OIL CO. OF CA **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-153.0	BOND	CARTHAGE	LIMESTONE	-	601.0	
-549.0	CARBONDALE	HERRIN	COAL	-	997.0	
-619.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1067.0	

MAPID: 19104109000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SE NW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.304471 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.565073 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 458.0 **LOGGED (FT.):** 1102.0 **LOG TYPE:** Electric Log
SOURCE: GRUENERWALD WM **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-167.0	BOND	CARTHAGE	LIMESTONE	-	625.0	
-582.0	CARBONDALE	HERRIN	COAL	-	1040.0	
-639.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1097.0	

MAPID: 19103484000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 35 **QUARTERS/FOOTAGES:** 990' N line, 330' W line of SE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.283789 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.560763 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 452.0 **LOGGED (FT.):** 1104.0 **LOG TYPE:** Electric Log
SOURCE: BLACK & BLACK OIL CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-156.0	BOND	CARTHAGE	LIMESTONE	-	608.0	
-580.0	CARBONDALE	HERRIN	COAL	-	1032.0	
-648.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1100.0	

MAPID: 19105666000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 8E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' N line, 356' W line of NE SE
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.260426 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.561956 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 1052.0 **LOG TYPE:** Electric Log
SOURCE: GEN AM OIL OF TEX **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	BOND	CARTHAGE	LIMESTONE	-	553.0	
-	CARBONDALE	HERRIN	COAL	-	983.0	
-	CARBONDALE	SPRINGFIELD	COAL	4.0	1048.0	

MAPID: 19100861000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 9E **SECTION:** 19 **QUARTERS/FOOTAGES:** 340' S line, 330' W line of NE
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.248704 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.592953 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 403.0 **LOGGED (FT.):** 1047.0 **LOG TYPE:** Electric Log
SOURCE: RUDY JOHN W EST **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-142.0	BOND	CARTHAGE	LIMESTONE	-	545.0	
-572.0	CARBONDALE	HERRIN	COAL	-	975.0	
-639.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1042.0	

MAPID: 19100860000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 9E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW SW
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.237118 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.589229 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 405.0 **LOGGED (FT.):** 1046.0 **LOG TYPE:** Electric Log
SOURCE: SLAPE DON DRLG CO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-155.0	BOND	CARTHAGE	LIMESTONE	-	560.0	
-569.0	CARBONDALE	HERRIN	COAL	-	974.0	
-636.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1041.0	

MAPID: 19108178000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 9E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.211723 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.592116 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 414.0 **LOGGED (FT.):** 1061.0 **LOG TYPE:** Electric Log
SOURCE: R. K. PETROLEUM CORP. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-161.0	BOND	CARTHAGE	LIMESTONE	-	575.0	
-591.0	CARBONDALE	HERRIN	COAL	-	1005.0	
-643.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1057.0	

MAPID: 19107395000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 9E **SECTION:** 22 **QUARTERS/FOOTAGES:** 575' S line, 330' E line of NE SW
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.195414 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.589029 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 428.0 **LOGGED (FT.):** 1093.0 **LOG TYPE:** Electric Log
SOURCE: R. K. PETROLEUM CORP. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-162.0	BOND	CARTHAGE	LIMESTONE	-	590.0	
-591.0	CARBONDALE	HERRIN	COAL	-	1019.0	
-661.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1089.0	

MAPID: 19100859000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 9E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NE
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.174713 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.595512 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 415.0 **LOGGED (FT.):** 1062.0 **LOG TYPE:** Electric Log
SOURCE: ENGLE, GEORGE S. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-112.0	BOND	CARTHAGE	LIMESTONE	-	527.0	
-572.0	CARBONDALE	HERRIN	COAL	-	987.0	
-642.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1057.0	

MAPID: 19100858000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 9E **SECTION:** 24 **QUARTERS/FOOTAGES:** 990' S line, 330' E line of NW
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.158542 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.59352 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 398.0 **LOGGED (FT.):** 1049.0 **LOG TYPE:** Electric Log
SOURCE: TEX HARVEY OIL CO **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-118.0	BOND	CARTHAGE	LIMESTONE	-	516.0	
-560.0	CARBONDALE	HERRIN	COAL	-	958.0	
-646.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1044.0	

MAPID: 19105192000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 9E **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' N line, 935' W line of SE
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.153824 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.575311 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 401.0 **LOGGED (FT.):** 1046.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-129.0	BOND	CARTHAGE	LIMESTONE	-	530.0	
-570.0	CARBONDALE	HERRIN	COAL	-	971.0	
-642.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1043.0	

MAPID: 19105193000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 9E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 990' W line of NE SE
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.167514 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.575442 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 395.0 **LOGGED (FT.):** 1058.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-161.0	BOND	CARTHAGE	LIMESTONE	-	556.0	
-588.0	CARBONDALE	HERRIN	COAL	-	983.0	
-659.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1054.0	

MAPID: 19101837000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 9E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.192892 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.575579 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 407.0 **LOGGED (FT.):** 1076.0 **LOG TYPE:** Electric Log
SOURCE: MILLER, JAMES M. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-145.0	BOND	CARTHAGE	LIMESTONE	-	552.0	
-593.0	CARBONDALE	HERRIN	COAL	-	1000.0	
-665.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1072.0	

MAPID: 19100856000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 9E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.230143 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.577896 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 401.0 **LOGGED (FT.):** 1040.0 **LOG TYPE:** Electric Log
SOURCE: WISER OIL CO., THE **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-137.0	BOND	CARTHAGE	LIMESTONE	-	538.0	
-566.0	CARBONDALE	HERRIN	COAL	-	967.0	
-635.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1036.0	

MAPID: 19103430000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2N 9E **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW SW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.254133 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.574587 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 409.0 **LOGGED (FT.):** 3085.0 **LOG TYPE:** Electric Log
SOURCE: NATION OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-625.0	CARBONDALE	HERRIN	COAL	2.0	1034.0	
-664.0	CARBONDALE	BRIAR HILL	COAL	-	1073.0	
-709.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1118.0	
-819.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1228.0	

MAPID: 19103699000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 9E **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.25095 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.578194 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 405.0 **LOGGED (FT.):** 1022.0 **LOG TYPE:** Electric Log
SOURCE: JENNINGS & KURTZ DRLG. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-125.0	BOND	CARTHAGE	LIMESTONE	-	530.0	
-545.0	CARBONDALE	HERRIN	COAL	-	950.0	
-612.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1017.0	

MAPID: 19103315000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 9E **SECTION:** 31 **QUARTERS/FOOTAGES:** NW SW NW
QUADRANGLE: ENTERPRISE **LONGITUDE:** -88.255997 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.565487 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 416.0 **LOGGED (FT.):** 1054.0 **LOG TYPE:** Electric Log
SOURCE: NATION OIL CO. **WELL TYPE:** Service Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-135.0	BOND	CARTHAGE	LIMESTONE	-	551.0	
-562.0	CARBONDALE	HERRIN	COAL	-	978.0	
-633.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1049.0	

MAPID: 19101879000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 9E **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE NW
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.23466 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.565206 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 427.0 **LOGGED (FT.):** 1046.0 **LOG TYPE:** Electric Log
SOURCE: EWART LOWELL G **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-114.0	BOND	CARTHAGE	LIMESTONE	-	541.0	
-544.0	CARBONDALE	HERRIN	COAL	-	971.0	
-615.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1042.0	

MAPID: 19103607000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 9E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.2114 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.568351 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 400.0 **LOGGED (FT.):** 1081.0 **LOG TYPE:** Electric Log
SOURCE: SKILES OIL CORP **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-160.0	BOND	CARTHAGE	LIMESTONE	-	560.0	
-607.0	CARBONDALE	HERRIN	COAL	-	1007.0	
-677.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1077.0	

MAPID: 19101844000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 9E **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.18596 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.560997 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 396.0 **LOGGED (FT.):** 1062.0 **LOG TYPE:** Electric Log
SOURCE: MCDOWELL, RUSSELL E. **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-157.0	BOND	CARTHAGE	LIMESTONE	-	553.0	
-590.0	CARBONDALE	HERRIN	COAL	-	986.0	
-662.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1058.0	

MAPID: 19101845000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 9E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' N line, 330' E line
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.167397 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.568148 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 400.0 **LOGGED (FT.):** 1054.0 **LOG TYPE:** Electric Log
SOURCE: MIAMI OPERATING CO **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-148.0	BOND	CARTHAGE	LIMESTONE	-	548.0	
-578.0	CARBONDALE	HERRIN	COAL	-	978.0	
-650.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1050.0	

MAPID: 19105672000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2N 9E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW
QUADRANGLE: MOUNT ERIE **LONGITUDE:** -88.158298 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.56087 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 394.0 **LOGGED (FT.):** 1048.0 **LOG TYPE:** Electric Log
SOURCE: COLLINS BROTHERS OIL CO. **WELL TYPE:** Plugged and/or Abandoned
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-115.0	BOND	CARTHAGE	LIMESTONE	-	509.0	
-576.0	CARBONDALE	HERRIN	COAL	-	970.0	
-650.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1044.0	

MAPID: 19101466000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 1 **QUARTERS/FOOTAGES:** NW NE NW
QUADRANGLE: CRISP **LONGITUDE:** -88.600367 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.386957 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 407.0 **LOGGED (FT.):** 3191.0 **LOG TYPE:** Electric Log
SOURCE: CALVERT DRILLING, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-615.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1022.0	
-701.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1108.0	

MAPID: 19101467000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW NE
QUADRANGLE: SHIELDS **LONGITUDE:** -88.689387 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.382249 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 423.0 **LOGGED (FT.):** 3135.0 **LOG TYPE:** Electric Log
SOURCE: MACDONELL CO. OF LIMA **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-535.0	CARBONDALE	HERRIN	COAL	3.0	958.0	
-569.0	CARBONDALE	BRIAR HILL	COAL	-	992.0	
-615.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1038.0	
-689.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1112.0	

MAPID: 19100650000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SW

QUADRANGLE: BLUFORD **LONGITUDE:** -88.69899 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.362002 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 446.0 **LOGGED (FT.):** 3103.0 **LOG TYPE:** Electric Log

SOURCE: MILLER & SMITH **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-495.0	CARBONDALE	HERRIN	COAL	4.0	941.0	
-534.0	CARBONDALE	BRIAR HILL	COAL	-	980.0	
-561.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1007.0	
-634.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1080.0	

MAPID: 19131917000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NW

QUADRANGLE: BLUFORD **LONGITUDE:** -88.696609 **GEOLOGIST:** STRAAYER

CONFIDENTIAL: N **LATITUDE:** 38.369125 **DATE COLLECTED:** 5 / 30 / 1989

SURFACE ELEVATION (FT.): 455.0 **LOGGED (FT.):** 1238.0 **LOG TYPE:** Electric Log

SOURCE: L & M OIL CO 31917 **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
455.0			UNKNOWN	1168.0	0.0	
-713.0	CARBONDALE	COLCHESTER	COAL	1.0	1168.0	
-714.0	CARBONDALE		UNKNOWN	36.0	1169.0	
-750.0	CARBONDALE	DEKOVEN	COAL	0.0	1205.0	
-750.0	CARBONDALE		UNKNOWN	31.0	1205.0	
-781.0	CARBONDALE	DAVIS	COAL	2.0	1236.0	

MAPID: 19103450000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: BLUFORD **LONGITUDE:** -88.670873 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.36362 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 515.0 **LOGGED (FT.):** 1407.0 **LOG TYPE:** Electric Log
SOURCE: J.S. CARTER 3450 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
515.0			UNKNOWN	1308.0	0.0	
-793.0	CARBONDALE	COLCHESTER	COAL	1.0	1308.0	
-794.0	CARBONDALE		UNKNOWN	51.0	1309.0	
-845.0	CARBONDALE	DEKOVEN	COAL	3.0	1360.0	
-848.0	CARBONDALE		UNKNOWN	42.0	1363.0	
-890.0	CARBONDALE	DAVIS	COAL	2.0	1405.0	

MAPID: 19103450000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: BLUFORD **LONGITUDE:** -88.670873 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.36362 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 515.0 **LOGGED (FT.):** 3280.0 **LOG TYPE:** Electric Log
SOURCE: CARTER J S **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-567.0	CARBONDALE	HERRIN	COAL	4.0	1082.0	
-611.0	CARBONDALE	BRIAR HILL	COAL	-	1126.0	
-647.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1162.0	
-719.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1234.0	

MAPID: 19104358000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW
QUADRANGLE: BLUFORD **LONGITUDE:** -88.642627 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.365139 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 441.0 **LOGGED (FT.):** 3285.0 **LOG TYPE:** Electric Log
SOURCE: ROBINSON PRODUCTION INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-549.0	CARBONDALE	HERRIN	COAL	5.0	990.0	
-649.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1090.0	
-723.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1164.0	

MAPID: 19100409000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SE

QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.612397 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.363113 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 404.0 **LOGGED (FT.):** 3278.0 **LOG TYPE:** Electric Log

SOURCE: SINCLAIR WYOMING OIL **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-573.0	CARBONDALE	HERRIN	COAL	4.0	977.0	
-618.0	CARBONDALE	BRIAR HILL	COAL	-	1022.0	
-648.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1052.0	
-726.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1130.0	

MAPID: 19100409000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SE

QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.612397 **GEOLOGIST:** HINES

CONFIDENTIAL: N **LATITUDE:** 38.363113 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3278.0 **LOG TYPE:** Survey Sample Study

SOURCE: SINCLAIR WYOMING OIL **WELL TYPE:** Oil and Gas Test

COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 19100409000C **VERSION:** 4 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SE

QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.612397 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.363113 **DATE COLLECTED:** 5 / 0 / 1942

SURFACE ELEVATION (FT.): 404.0 **LOGGED (FT.):** 1038.0 **LOG TYPE:** Survey Sample Study

SOURCE: SINCLAIR WYOMING OIL CO 1 **WELL TYPE:** Dry Hole

COMMENT: SAMPLE STUDY CONTROL WELL #11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
404.0			UNKNOWN	130.0	0.0	
274.0			SHALE & SANDSTONE	15.0	130.0	
259.0			COAL	5.0	145.0	
254.0			SHALE	40.0	150.0	
214.0			COAL	3.0	190.0	APPROXIMATE THICKNESS
211.0			SHALE & SANDSTONE	2.0	193.0	
209.0			LIMESTONE	2.0	195.0	
207.0			SHALE	13.0	197.0	
194.0			SANDSTONE	20.0	210.0	
174.0			SHALE	60.0	230.0	
114.0			SANDSTONE/SHALE	27.0	290.0	
87.0			LIMESTONE	1.0	317.0	
86.0			SHALE	32.0	318.0	
54.0			LIMESTONE	2.0	350.0	
52.0			SHALE	6.0	352.0	
46.0			COAL	1.0	358.0	APPROXIMATE THICKNESS
45.0			SHALE & SANDSTONE	37.0	359.0	
8.0			COAL	4.0	396.0	
4.0			LIMESTONE & SHALE	4.0	400.0	
0.0			SHALE & SANDSTONE	14.0	404.0	
-14.0			SHALE	6.0	418.0	
-20.0			LIMESTONE & SHALE	14.0	424.0	WITH BLACK SHALE
-34.0			SHALE	25.0	438.0	
-59.0			BLACK SHALE & COAL	1.0	463.0	
-60.0			LIMESTONE & SHALE	2.0	464.0	
-62.0			SANDSTONE/SHALE	8.0	466.0	
-70.0			CALCAREOUS SHALE	8.0	474.0	LIMESTONE IS BLACK
-78.0			SANDSTONE/SHALE	30.0	482.0	
-108.0	BOND	CARTHAGE	LIMESTONE	10.0	512.0	
-118.0			BLACK SHALE	6.0	522.0	
-124.0			SHALE	20.0	528.0	
-144.0			BLACK SHALE & COAL	2.0	548.0	
-146.0			SHALE	79.0	550.0	
-225.0			SHALE/COAL	1.0	629.0	
-226.0			SHALE	4.0	630.0	
-230.0			LIMESTONE	1.0	634.0	
-231.0			SHALE	5.0	635.0	
-236.0			SHALE & SANDSTONE	74.0	640.0	
-310.0			LIMESTONE	2.0	714.0	

-312.0			SHALE/COAL	2.0	716.0	
-314.0			SHALE	12.0	718.0	
-326.0			COAL	2.0	730.0	APPROXIMATE THICKNESS
-328.0			BLACK SHALE	14.0	732.0	
-342.0			LIMESTONE & SHALE	6.0	746.0	
-348.0			SHALE	12.0	752.0	
-360.0			SANDSTONE	82.0	764.0	
-442.0			BLACK SHALE	24.0	846.0	THICKNESS AS PER LOG
-466.0			SHALE	38.0	870.0	
-504.0	CARBONDALE	DANVILLE	BLACK SHALE & COAL	4.0	908.0	
-508.0	CARBONDALE		SHALE	28.0	912.0	
-536.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	940.0	
-541.0	CARBONDALE		SHALE	33.0	945.0	THIN COAL AT 952
-574.0	CARBONDALE	BRERETON	LIMESTONE	3.0	978.0	
-577.0	CARBONDALE	ANNA	BLACK SHALE	1.0	981.0	
-578.0	CARBONDALE	HERRIN	COAL	6.0	982.0	APPROXIMATE THICKNESS
-584.0	CARBONDALE		SHALE	22.0	988.0	WITH TRACE OF COAL
-606.0	CARBONDALE		SHALE	19.0	1010.0	
-625.0	CARBONDALE		BLACK SHALE	2.0	1029.0	
-627.0	CARBONDALE	BRIAR HILL	COAL	3.0	1031.0	APPROXIMATE THICKNESS
-630.0	CARBONDALE		SHALE	4.0	1034.0	WITH TRACE OF COAL

MAPID: 19100409000C **VERSION:** 5 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SE

QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.612397 **GEOLOGIST:** STRAAYER

CONFIDENTIAL: N **LATITUDE:** 38.363113 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 404.0 **LOGGED (FT.):** 1301.0 **LOG TYPE:** Electric Log

SOURCE: SINCLAIR WYOMING OIL CO 409 **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
404.0			UNKNOWN	1199.0	0.0	
-795.0	CARBONDALE	COLCHESTER	COAL	1.0	1199.0	
-796.0	CARBONDALE		UNKNOWN	99.0	1200.0	
-895.0	CARBONDALE	DAVIS	COAL	2.0	1299.0	

MAPID: 19101468000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.593803 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.367704 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 405.0 **LOGGED (FT.):** 3273.0 **LOG TYPE:** Electric Log
SOURCE: NOAL PETROLEUM **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-532.0	CARBONDALE	HERRIN	COAL	4.0	937.0	
-579.0	CARBONDALE	BRIAR HILL	COAL	-	984.0	
-607.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1012.0	
-693.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1098.0	

MAPID: 19103897000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.593913 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.352624 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 427.0 **LOGGED (FT.):** 3284.0 **LOG TYPE:** Electric Log
SOURCE: ROBINSON & PUCKETT, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-560.0	CARBONDALE	HERRIN	COAL	4.0	987.0	
-611.0	CARBONDALE	BRIAR HILL	COAL	-	1038.0	
-646.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1073.0	
-729.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1156.0	

MAPID: 19100648000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NE
QUADRANGLE: BLUFORD **LONGITUDE:** -88.628886 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.350307 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 417.0 **LOGGED (FT.):** 3296.0 **LOG TYPE:** Electric Log
SOURCE: SUPERIOR OIL COMPANY **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-570.0	CARBONDALE	HERRIN	COAL	4.0	987.0	
-617.0	CARBONDALE	BRIAR HILL	COAL	-	1034.0	
-649.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1066.0	
-727.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1144.0	

MAPID: 19100520000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 16 **QUARTERS/FOOTAGES:** 660' S line, 330' E line of NE
QUADRANGLE: BLUFORD **LONGITUDE:** -88.645234 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.351497 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 434.0 **LOGGED (FT.):** 1325.5 **LOG TYPE:** Electric Log
SOURCE: SINCLAIR WYOMING OIL CO 520 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
434.0			UNKNOWN	1225.0	0.0	
-791.0	CARBONDALE	COLCHESTER	COAL	1.0	1225.0	THICKNESS LESS THAN 16"
-792.0	CARBONDALE		UNKNOWN	39.0	1226.0	
-831.0	CARBONDALE	DEKOVEN	COAL	1.0	1265.0	
-832.0	CARBONDALE		UNKNOWN	57.0	1266.0	
-889.0	CARBONDALE	DAVIS	COAL	2.5	1323.0	

MAPID: 19103293000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SW
QUADRANGLE: BLUFORD **LONGITUDE:** -88.698982 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.347386 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 491.0 **LOGGED (FT.):** 3090.0 **LOG TYPE:** Electric Log
SOURCE: SOIL TESTING SERVICE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-496.0	CARBONDALE	HERRIN	COAL	-	987.0	
-541.0	CARBONDALE	BRIAR HILL	COAL	-	1032.0	
-569.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1060.0	
-647.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1138.0	

MAPID: 19100646000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' N line, 330' W line
QUADRANGLE: BLUFORD **LONGITUDE:** -88.699001 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.341875 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 501.0 **LOGGED (FT.):** 3166.0 **LOG TYPE:** Electric Log
SOURCE: GULF REFINING CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-495.0	CARBONDALE	HERRIN	COAL	4.0	996.0	
-539.0	CARBONDALE	BRIAR HILL	COAL	-	1040.0	
-569.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1070.0	
-641.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1142.0	

MAPID: 19101873000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NW
QUADRANGLE: BLUFORD **LONGITUDE:** -88.638604 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.335797 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 444.0 **LOGGED (FT.):** 3346.0 **LOG TYPE:** Electric Log
SOURCE: CALVERT DRILLING, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-563.0	CARBONDALE	HERRIN	COAL	4.0	1007.0	
-616.0	CARBONDALE	BRIAR HILL	COAL	-	1060.0	
-652.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1096.0	
-733.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1177.0	

MAPID: 19100645000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SW
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.620102 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.328288 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 429.0 **LOGGED (FT.):** 3348.0 **LOG TYPE:** Electric Log
SOURCE: ROBINSON EDWARD T **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-587.0	CARBONDALE	HERRIN	COAL	4.0	1016.0	
-638.0	CARBONDALE	BRIAR HILL	COAL	-	1067.0	
-676.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1105.0	
-746.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1175.0	

MAPID: 19103000000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SW
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.598811 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.332072 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 428.0 **LOGGED (FT.):** 3280.0 **LOG TYPE:** Electric Log
SOURCE: ENGLE, GEORGE S. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-620.0	CARBONDALE	BRIAR HILL	COAL	-	1048.0	
-652.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1080.0	
-735.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1163.0	

MAPID: 19100644000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW SW
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.622676 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.317292 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 420.0 **LOGGED (FT.):** 3294.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-572.0	CARBONDALE	HERRIN	COAL	4.0	992.0	
-623.0	CARBONDALE	BRIAR HILL	COAL	-	1043.0	
-660.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1080.0	
-742.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1162.0	

MAPID: 19100643000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW
QUADRANGLE: BLUFORD **LONGITUDE:** -88.636591 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.321066 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 425.0 **LOGGED (FT.):** 3330.0 **LOG TYPE:** Electric Log
SOURCE: ROBINSON EDWARD T **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-561.0	CARBONDALE	HERRIN	COAL	3.0	986.0	
-611.0	CARBONDALE	BRIAR HILL	COAL	-	1036.0	
-647.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1072.0	
-731.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1156.0	

MAPID: 19132522000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SW
QUADRANGLE: BLUFORD **LONGITUDE:** -88.636672 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.315583 **DATE COLLECTED:** 9 / 3 / 1997
SURFACE ELEVATION (FT.): 439.0 **LOGGED (FT.):** 1347.0 **LOG TYPE:** Electric Log
SOURCE: WILBANKS EXPLOR INC 32522 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
439.0			UNKNOWN	1240.0	0.0	
-801.0	CARBONDALE	COLCHESTER	COAL	1.0	1240.0	
-802.0	CARBONDALE		UNKNOWN	42.0	1241.0	
-844.0	CARBONDALE	DEKOVEN	COAL	2.0	1283.0	
-846.0	CARBONDALE		UNKNOWN	60.0	1285.0	
-906.0	CARBONDALE	DAVIS	COAL	2.0	1345.0	

MAPID: 19104190000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SE
QUADRANGLE: BLUFORD **LONGITUDE:** -88.645971 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.315658 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 426.0 **LOGGED (FT.):** 3260.0 **LOG TYPE:** Electric Log
SOURCE: SLAGTER PRODUCING CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-556.0	CARBONDALE	HERRIN	COAL	4.0	982.0	
-604.0	CARBONDALE	BRIAR HILL	COAL	-	1030.0	
-643.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1069.0	
-711.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1137.0	

MAPID: 19104446000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 29 **QUARTERS/FOOTAGES:** 360' N line, 330' W line of SE SW
QUADRANGLE: BLUFORD **LONGITUDE:** -88.676337 **GEOLOGIST:** ELRICK
CONFIDENTIAL: N **LATITUDE:** 38.315807 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 1335.5 **LOG TYPE:** Nuclear Log
SOURCE: NATIONAL ASSOC. PETROLEUM CO. 4446 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
460.0			UNKNOWN	1245.0	0.0	
-785.0	CARBONDALE	COLCHESTER	COAL	1.0	1245.0	
-786.0	CARBONDALE		UNKNOWN	43.0	1246.0	
-829.0	CARBONDALE	DEKOVEN	COAL	2.0	1289.0	
-831.0	CARBONDALE		UNKNOWN	41.0	1291.0	
-872.0	CARBONDALE	DAVIS	COAL	3.5	1332.0	

MAPID: 19104446000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 29 **QUARTERS/FOOTAGES:** 360' N line, 330' W line of SE SW
QUADRANGLE: BLUFORD **LONGITUDE:** -88.676337 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.315807 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 460.0 **LOGGED (FT.):** 3272.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-557.0	CARBONDALE	HERRIN	COAL	4.0	1017.0	
-596.0	CARBONDALE	BRIAR HILL	COAL	-	1056.0	
-629.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1089.0	
-720.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1180.0	

MAPID: 19100642000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 31 **QUARTERS/FOOTAGES:** 660' N line, 660' W line of SE
QUADRANGLE: BLUFORD **LONGITUDE:** -88.689341 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.304077 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 463.0 **LOGGED (FT.):** 3215.0 **LOG TYPE:** Electric Log
SOURCE: HEATH B M ETAL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-504.0	CARBONDALE	HERRIN	COAL	3.0	967.0	
-541.0	CARBONDALE	BRIAR HILL	COAL	-	1004.0	
-577.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1040.0	
-664.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1127.0	

MAPID: 19101473000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE
QUADRANGLE: BLUFORD **LONGITUDE:** -88.646151 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.306466 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 443.0 **LOGGED (FT.):** 3319.0 **LOG TYPE:** Electric Log
SOURCE: SLAGTER ARTHUR J JR **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-563.0	CARBONDALE	HERRIN	COAL	-	1006.0	
-601.0	CARBONDALE	BRIAR HILL	COAL	-	1044.0	
-639.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1082.0	
-727.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1170.0	

MAPID: 19100410000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 35 **QUARTERS/FOOTAGES:** 660' S line, 660' W line of NW
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.624078 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.30722 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 464.0 **LOGGED (FT.):** 3354.0 **LOG TYPE:** Electric Log
SOURCE: DEEP ROCK OIL CORP **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-566.0	CARBONDALE	HERRIN	COAL	4.0	1030.0	
-620.0	CARBONDALE	BRIAR HILL	COAL	-	1084.0	
-658.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1122.0	
-740.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1204.0	

MAPID: 19100410000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 35 **QUARTERS/FOOTAGES:** 660' S line, 660' W line of NW

QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.624078 **GEOLOGIST:** HINES

CONFIDENTIAL: N **LATITUDE:** 38.30722 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3354.0 **LOG TYPE:** Survey Sample Study

SOURCE: DEEP ROCK OIL CORP **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: 19100410000C **VERSION:** 4 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 35 **QUARTERS/FOOTAGES:** 660' S line, 660' W line of NW

QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.624078 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.30722 **DATE COLLECTED:** 2 / 0 / 1943

SURFACE ELEVATION (FT.): 465.0 **LOGGED (FT.):** 1130.0 **LOG TYPE:** Survey Sample Study

SOURCE: DEEP ROCK OIL CORP 1 **WELL TYPE:** Plugged and/or Abandoned

COMMENT: COAL DIVISION CONTROL WELL #120

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
465.0			UNKNOWN	220.0	0.0	
245.0			LIMESTONE	6.0	220.0	
239.0			SILTSTONE	102.0	226.0	
137.0			BLACK SHALE & COAL	3.0	328.0	WITH UNDERCLAY
134.0			SILTSTONE	53.0	331.0	
81.0			SHALE	14.0	384.0	
67.0			BLACK SHALE & COAL	6.0	398.0	WITH UNDERCLAY
61.0			SANDSTONE	70.0	404.0	THIN LIMESTONE; BLACK SHALE
-9.0			SHALE	4.0	474.0	
-13.0			LIMESTONE	2.0	478.0	
-15.0			SHALE	5.0	480.0	
-20.0			BLACK SHALE	3.0	485.0	
-23.0			SHALE	5.0	488.0	
-28.0			LIMESTONE AND BLACK SHALE	5.0	493.0	
-33.0			SHALE	14.0	498.0	
-47.0			SANDSTONE	34.0	512.0	
-81.0	BOND	CARTHAGE	LIMESTONE	14.0	546.0	WITH BLACK SHALE AND .5' OF COAL
-95.0	MODESTO		SILTSTONE	34.0	560.0	
-129.0	MODESTO		SHALE	26.0	594.0	
-155.0	MODESTO		SILTSTONE	40.0	620.0	
-195.0	MODESTO		SHALE	30.0	660.0	
-225.0	MODESTO		LIMESTONE	1.0	690.0	QUESTIONABLE
-226.0	MODESTO		SILTSTONE	11.0	691.0	
-237.0	MODESTO		SHALE	9.0	702.0	
-246.0	MODESTO		SILTSTONE	62.0	711.0	
-308.0	MODESTO		SHALE	21.0	773.0	
-329.0	MODESTO		BLACK SHALE & COAL	3.0	794.0	1.25'COAL
-332.0	MODESTO		SHALE	19.0	797.0	
-351.0	MODESTO		SANDSTONE	64.0	816.0	
-415.0	MODESTO		SILTSTONE	48.0	880.0	
-463.0	MODESTO		BLACK SHALE & COAL	3.0	928.0	
-466.0	MODESTO		SHALE	10.0	931.0	
-476.0	MODESTO	PIASA	LIMESTONE	1.0	941.0	
-477.0	MODESTO		SILTSTONE	23.0	942.0	
-500.0	MODESTO		BLACK SHALE	2.0	965.0	
-502.0	CARBONDALE	DANVILLE	COAL	2.5	967.0	APPROXIMATE THICKNESS
-504.5	CARBONDALE		UNDERCLAY	0.5	969.5	
-505.0	CARBONDALE		SHALE	10.0	970.0	

-515.0	CARBONDALE		SILTSTONE	11.0	980.0	
-526.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	991.0	
-530.0	CARBONDALE	ANVIL ROCK	SANDSTONE	15.0	995.0	
-545.0	CARBONDALE		SILTSTONE	12.0	1010.0	
-557.0	CARBONDALE		BLACK SHALE & COAL	2.0	1022.0	
-559.0	CARBONDALE	BRERETON	LIMESTONE	5.0	1024.0	
-564.0	CARBONDALE	ANNA	BLACK SHALE	1.0	1029.0	
-565.0	CARBONDALE	HERRIN	COAL	5.0	1030.0	APPROXIMATE THICKNESS
-570.0	CARBONDALE		UNDERCLAY	2.0	1035.0	
-572.0	CARBONDALE		SANDSTONE	33.0	1037.0	
-605.0	CARBONDALE		SHALE	18.0	1070.0	
-623.0	CARBONDALE	BRIAR HILL	BLACK SHALE	2.0	1088.0	
-625.0	CARBONDALE		SHALE	12.0	1090.0	
-637.0	CARBONDALE		SILTSTONE	10.0	1102.0	
-647.0	CARBONDALE		SHALE	11.0	1112.0	
-658.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	1123.0	
-659.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1124.0	APPROXIMATE THICKNESS
-663.0	CARBONDALE		UNDERCLAY	2.0	1128.0	

MAPID: 19100641000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 5E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW

QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.606677 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.306178 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 414.0 **LOGGED (FT.):** 3321.0 **LOG TYPE:** Electric Log

SOURCE: SINCLAIR WYOMING OIL **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-574.0	CARBONDALE	HERRIN	COAL	4.0	988.0	
-616.0	CARBONDALE	BRIAR HILL	COAL	-	1030.0	
-648.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1062.0	
-734.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1148.0	

MAPID: 19103899000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SW
QUADRANGLE: CRISP **LONGITUDE:** -88.50635 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.377804 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 402.0 **LOGGED (FT.):** 3390.0 **LOG TYPE:** Electric Log
SOURCE: REDWINE NASH ETAL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-601.0	CARBONDALE	HERRIN	COAL	4.0	1003.0	
-652.0	CARBONDALE	BRIAR HILL	COAL	-	1054.0	
-680.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1082.0	
-786.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1188.0	

MAPID: 19101474000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' S line, 990' W line of SE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.518153 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.372642 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 406.0 **LOGGED (FT.):** 3390.0 **LOG TYPE:** Electric Log
SOURCE: SIMPSON, C. J. DRLG. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-605.0	CARBONDALE	HERRIN	COAL	3.0	1011.0	
-656.0	CARBONDALE	BRIAR HILL	COAL	-	1062.0	
-686.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1092.0	
-794.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1200.0	

MAPID: 19100496000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 4 **QUARTERS/FOOTAGES:** 681' N line, 330' W line of SW
QUADRANGLE: CRISP **LONGITUDE:** -88.549328 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.377581 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 406.0 **LOGGED (FT.):** 3281.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-524.0	CARBONDALE	HERRIN	COAL	3.0	930.0	
-578.0	CARBONDALE	BRIAR HILL	COAL	-	984.0	
-604.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1010.0	
-708.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1114.0	

MAPID: 19100192000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 6 **QUARTERS/FOOTAGES:** 711' N line, 330' W line of NE NW
QUADRANGLE: CRISP **LONGITUDE:** -88.581951 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.385951 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 435.0 **LOGGED (FT.):** 3230.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-535.0	CARBONDALE	BRIAR HILL	COAL	-	970.0	
-567.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1002.0	
-659.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1094.0	

MAPID: 19101895000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 7 **QUARTERS/FOOTAGES:** 990' N line, 330' W line of SE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.57743 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.361947 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 402.0 **LOGGED (FT.):** 3300.0 **LOG TYPE:** Electric Log
SOURCE: SUPERIOR OIL COMPANY **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-532.0	CARBONDALE	HERRIN	COAL	3.0	934.0	
-584.0	CARBONDALE	BRIAR HILL	COAL	-	986.0	
-612.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1014.0	
-704.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1106.0	

MAPID: 19103900000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.56098 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.365484 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 399.0 **LOGGED (FT.):** 3346.0 **LOG TYPE:** Electric Log
SOURCE: PARKER BROS DRLG **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-557.0	CARBONDALE	HERRIN	COAL	3.0	956.0	
-607.0	CARBONDALE	BRIAR HILL	COAL	-	1006.0	
-637.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1036.0	
-733.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1132.0	

MAPID: 19101906000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW

QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.549087 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.363501 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 408.0 **LOGGED (FT.):** 3375.0 **LOG TYPE:** Electric Log

SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-588.0	CARBONDALE	HERRIN	COAL	4.0	996.0	
-642.0	CARBONDALE	BRIAR HILL	COAL	-	1050.0	
-667.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1075.0	
-770.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1178.0	

MAPID: 19101476000C **VERSION:** 1 **PROJECT:** AVAIL

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

QUADRANGLE: BOYLESTON **LONGITUDE:** -88.499283 **GEOLOGIST:** STRAAYER

CONFIDENTIAL: N **LATITUDE:** 38.370277 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 398.0 **LOGGED (FT.):** 1371.0 **LOG TYPE:** Electric Log

SOURCE: NASH RED WINE 1476 **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
398.0			UNKNOWN	1249.0	0.0	
-851.0	CARBONDALE	COLCHESTER	COAL	1.0	1249.0	THICKNESS LESS THAN 16"
-852.0	CARBONDALE		UNKNOWN	28.0	1250.0	
-880.0	CARBONDALE	DEKOVEN	COAL	1.0	1278.0	
-881.0	CARBONDALE		UNKNOWN	90.0	1279.0	
-971.0	CARBONDALE	DAVIS	COAL	2.0	1369.0	

MAPID: 19101917000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 11 **QUARTERS/FOOTAGES:** 660' S line, 660' E line of SE

QUADRANGLE: BOYLESTON **LONGITUDE:** -88.495507 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.357715 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 398.0 **LOGGED (FT.):** 3397.0 **LOG TYPE:** Electric Log

SOURCE: EASON OIL CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-646.0	CARBONDALE	BRIAR HILL	COAL	-	1044.0	
-681.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1079.0	
-792.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1190.0	

MAPID: 19100487000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 12 **QUARTERS/FOOTAGES:** 660' N line, 610' E line of SW

QUADRANGLE: BOYLESTON **LONGITUDE:** -88.485952 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.361389 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 401.0 **LOGGED (FT.):** 3374.0 **LOG TYPE:** Electric Log

SOURCE: DEEP ROCK OIL CORP **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-596.0	CARBONDALE	HERRIN	COAL	3.0	997.0	
-643.0	CARBONDALE	BRIAR HILL	COAL	-	1044.0	
-673.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1074.0	
-784.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1185.0	

MAPID: 19100487000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 12 **QUARTERS/FOOTAGES:** 660' N line, 610' E line of SW

QUADRANGLE: BOYLESTON **LONGITUDE:** -88.485952 **GEOLOGIST:** HINES

CONFIDENTIAL: N **LATITUDE:** 38.361389 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3374.0 **LOG TYPE:** Survey Sample Study

SOURCE: DEEP ROCK OIL CORP **WELL TYPE:** Oil and Gas Test

COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 19100487000C **VERSION:** 4 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 12 **QUARTERS/FOOTAGES:** 660' N line, 610' E line of SW

QUADRANGLE: BOYLESTON **LONGITUDE:** -88.485952 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.361389 **DATE COLLECTED:** 10 / 0 / 1942

SURFACE ELEVATION (FT.): 401.0 **LOGGED (FT.):** 1100.0 **LOG TYPE:** Survey Sample Study

SOURCE: DEEP ROCK OIL CORP 1 **WELL TYPE:** Producer-Oil and Gas

COMMENT: COAL DIVISION CONTROL WELL #94

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
401.0			UNKNOWN	120.0	0.0	
281.0			SANDSTONE	20.0	120.0	WITH SILTSTONE
261.0			UNKNOWN	10.0	140.0	
251.0			SHALE	4.0	150.0	
247.0			LIMESTONE	3.0	154.0	
244.0			SHALE	7.0	157.0	
237.0			LIMESTONE	4.0	164.0	
233.0			SHALE	2.0	168.0	
231.0			SILTSTONE	10.0	170.0	
221.0			SHALE	20.0	180.0	
201.0			SILTSTONE	70.0	200.0	WITH SANDSTONE
131.0			UNKNOWN	10.0	270.0	
121.0			SILTSTONE	90.0	280.0	WITH SANDSTONE
31.0			SHALE	20.0	370.0	
11.0			SILTSTONE	12.0	390.0	
-1.0			SHALE	32.0	402.0	
-33.0			LIMESTONE	4.0	434.0	
-37.0			SHALE	12.0	438.0	
-49.0			DARK SHALE	5.0	450.0	
-54.0			BLACK SHALE	3.0	455.0	
-57.0			DARK SHALE	2.0	458.0	
-59.0			LIMESTONE	2.0	460.0	
-61.0			SHALE	2.0	462.0	
-63.0			SANDSTONE	10.0	464.0	
-73.0			SHALE	30.0	474.0	
-103.0			LIMESTONE	8.0	504.0	
-111.0			BLACK SHALE	5.0	512.0	SANDY
-116.0			SHALE	13.0	517.0	
-129.0			SILTY SANDSTONE	15.0	530.0	
-144.0			SHALE	7.0	545.0	
-151.0			LIMESTONE	2.0	552.0	
-153.0			SANDY SHALE	72.0	554.0	
-225.0			LIMESTONE	6.0	626.0	
-231.0			BLACK SHALE	2.0	632.0	
-233.0			SHALE	8.0	634.0	
-241.0			SANDSTONE/SHALE	22.0	642.0	
-263.0			SILTSTONE	8.0	664.0	
-271.0			SHALE	28.0	672.0	
-299.0			SILTSTONE	40.0	700.0	

-339.0			SANDSTONE	10.0	740.0	
-349.0			BLACK SHALE	2.0	750.0	POSSIBLE COAL
-351.0			SANDSTONE	2.0	752.0	
-353.0			LIMESTONE	2.0	754.0	
-355.0			SANDSTONE	34.0	756.0	
-389.0			UNKNOWN	20.0	790.0	
-409.0			SANDSTONE	22.0	810.0	WITH SILTSTONE
-431.0			SHALE	8.0	832.0	
-439.0			SANDSTONE	10.0	840.0	
-449.0			SHALE	9.0	850.0	
-458.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	859.0	
-463.0			SHALE	64.0	864.0	
-527.0	CARBONDALE	DANVILLE	BLACK SHALE & COAL	2.0	928.0	
-529.0	CARBONDALE		UNDERCLAY	2.0	930.0	
-531.0	CARBONDALE		SILTY SHALE	18.0	932.0	
-549.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	950.0	
-553.0	CARBONDALE		SHALE	8.0	954.0	
-561.0	CARBONDALE	ANVIL ROCK	SANDSTONE	30.0	962.0	
-591.0	CARBONDALE	BRERETON	LIMESTONE	2.0	992.0	
-593.0	CARBONDALE	ANNA	BLACK SHALE	4.0	994.0	
-597.0	CARBONDALE	HERRIN	COAL	6.0	998.0	APPROXIMATE THICKNESS
-603.0	CARBONDALE		UNDERCLAY	4.0	1004.0	
-607.0	CARBONDALE		SANDSTONE	10.0	1008.0	
-617.0	CARBONDALE		LIMESTONE	4.0	1018.0	
-621.0	CARBONDALE		SANDSTONE	8.0	1022.0	
-629.0	CARBONDALE		LIMESTONE	2.0	1030.0	
-631.0	CARBONDALE		SILTY SHALE	28.0	1032.0	
-659.0	CARBONDALE		SANDSTONE	10.0	1060.0	
-669.0	CARBONDALE	ST. DAVID	LIMESTONE	2.0	1070.0	
-671.0	CARBONDALE	TURNER MINE	BLACK SHALE	4.0	1072.0	
-675.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1076.0	APPROXIMATE THICKNESS
-677.0	CARBONDALE		UNDERCLAY	2.0	1078.0	
-679.0	CARBONDALE		SHALE	10.0	1080.0	
-689.0	CARBONDALE		SHALY SANDSTONE	10.0	1090.0	

MAPID: 19101478000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NE NW
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.484908 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.369776 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 407.0 **LOGGED (FT.):** 3367.0 **LOG TYPE:** Electric Log
SOURCE: TULLEY & CARTER **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-610.0	CARBONDALE	HERRIN	COAL	3.0	1017.0	
-653.0	CARBONDALE	BRIAR HILL	COAL	-	1060.0	
-688.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1095.0	
-797.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1204.0	

MAPID: 19101480000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 13 **QUARTERS/FOOTAGES:** 660' N line, 660' E line of NW SW
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.491039 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.34658 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 392.0 **LOGGED (FT.):** 3335.0 **LOG TYPE:** Electric Log
SOURCE: OHIO FUEL SUPPLY **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-614.0	CARBONDALE	HERRIN	COAL	3.0	1006.0	
-674.0	CARBONDALE	BRIAR HILL	COAL	-	1066.0	
-696.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1088.0	
-820.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1212.0	

MAPID: 19100683000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SW
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.506032 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.345926 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 391.0 **LOGGED (FT.):** 3976.0 **LOG TYPE:** Electric Log
SOURCE: STANDARD DRLG **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-619.0	CARBONDALE	HERRIN	COAL	2.0	1010.0	
-667.0	CARBONDALE	BRIAR HILL	COAL	-	1058.0	
-696.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1087.0	
-815.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1206.0	

MAPID: 19103901000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 15 **QUARTERS/FOOTAGES:** 345' N line, 345' E line of SE SE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.512969 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.344194 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 394.0 **LOGGED (FT.):** 1364.0 **LOG TYPE:** Electric Log
SOURCE: TEXAS COMPANY, THE 3901 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
394.0			UNKNOWN	1273.0	0.0	
-879.0	CARBONDALE	COLCHESTER	COAL	1.0	1273.0	THICKNESS LESS THAN 16"
-880.0	CARBONDALE		UNKNOWN	54.0	1274.0	
-934.0	CARBONDALE	DEKOVEN	COAL	3.0	1328.0	
-937.0	CARBONDALE		UNKNOWN	29.0	1331.0	
-966.0	CARBONDALE	DAVIS	COAL	4.0	1360.0	

MAPID: 19103901000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 15 **QUARTERS/FOOTAGES:** 345' N line, 345' E line of SE SE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.512969 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.344194 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 394.0 **LOGGED (FT.):** 3402.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-619.0	CARBONDALE	HERRIN	COAL	2.0	1013.0	
-668.0	CARBONDALE	BRIAR HILL	COAL	-	1062.0	
-696.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1090.0	
-814.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1208.0	

MAPID: 19100681000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.53924 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.350224 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 414.0 **LOGGED (FT.):** 3410.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-620.0	CARBONDALE	HERRIN	COAL	4.0	1034.0	
-668.0	CARBONDALE	BRIAR HILL	COAL	-	1082.0	
-704.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1118.0	
-814.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1228.0	

MAPID: 19100469000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 17 **QUARTERS/FOOTAGES:** 674' S line, 346' W line of SE SE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.553211 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.34415 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 401.0 **LOGGED (FT.):** 3380.0 **LOG TYPE:** Electric Log
SOURCE: GULF REFINING CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-609.0	CARBONDALE	HERRIN	COAL	3.0	1010.0	
-663.0	CARBONDALE	BRIAR HILL	COAL	-	1064.0	
-698.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1099.0	
-799.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1200.0	

MAPID: 19100680000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NW
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.586885 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.354413 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3320.0 **LOG TYPE:** Electric Log
SOURCE: TAYLOR & SCHUMACHER **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	3.0	939.0	
-	CARBONDALE	BRIAR HILL	COAL	-	986.0	
-	CARBONDALE	SPRINGFIELD	COAL	4.0	1017.0	
-	CARBONDALE	HOUCHIN CREEK	COAL	-	1104.0	

MAPID: 19100294000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' N line, 660' W line of SE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.576342 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.334064 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 402.0 **LOGGED (FT.):** 3330.0 **LOG TYPE:** Electric Log
SOURCE: CRAFT C R ETAL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-545.0	CARBONDALE	HERRIN	COAL	3.0	947.0	
-588.0	CARBONDALE	BRIAR HILL	COAL	-	990.0	
-618.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1020.0	
-710.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1112.0	

MAPID: 19100679000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 22 **QUARTERS/FOOTAGES:** 660' N line, 660' E line of SE NW
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.523834 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.335926 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 395.0 **LOGGED (FT.):** 3401.0 **LOG TYPE:** Electric Log
SOURCE: FRAZIER C F **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-609.0	CARBONDALE	HERRIN	COAL	4.0	1004.0	
-655.0	CARBONDALE	BRIAR HILL	COAL	-	1050.0	
-685.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1080.0	
-805.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1200.0	

MAPID: 19103748000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' S line, 660' W line of NW
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.509703 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.334765 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 389.0 **LOGGED (FT.):** 3384.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-602.0	CARBONDALE	HERRIN	COAL	3.0	991.0	
-651.0	CARBONDALE	BRIAR HILL	COAL	-	1040.0	
-679.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1068.0	
-799.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1188.0	

MAPID: 19104366000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.483531 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.332629 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 386.0 **LOGGED (FT.):** 3336.0 **LOG TYPE:** Electric Log
SOURCE: HOSSIER OIL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-608.0	CARBONDALE	HERRIN	COAL	4.0	994.0	
-658.0	CARBONDALE	BRIAR HILL	COAL	-	1044.0	
-688.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1074.0	
-801.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1187.0	

MAPID: 19103417000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW

QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.523122 **GEOLOGIST:** STRAAYER

CONFIDENTIAL: N **LATITUDE:** 38.325702 **DATE COLLECTED:** 1 / 0 / 1957

SURFACE ELEVATION (FT.): 413.0 **LOGGED (FT.):** 1357.0 **LOG TYPE:** Electric Log

SOURCE: MCKELVY AND SIPHOHA DRILLHING CONT. **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
413.0			UNKNOWN	1283.0	0.0	
-870.0	CARBONDALE	COLCHESTER	COAL	1.0	1283.0	THICKNESS LESS THAN 16"
-871.0	CARBONDALE		UNKNOWN	50.0	1284.0	
-921.0	CARBONDALE	DEKOVEN	COAL	2.0	1334.0	
-923.0	CARBONDALE		UNKNOWN	18.0	1336.0	
-941.0	CARBONDALE	DAVIS	COAL	3.0	1354.0	

MAPID: 19103417000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW

QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.523122 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.325702 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 413.0 **LOGGED (FT.):** 3419.0 **LOG TYPE:** Electric Log

SOURCE: MCKELVY & SIPOHA DRLG. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-600.0	CARBONDALE	HERRIN	COAL	4.0	1013.0	
-655.0	CARBONDALE	BRIAR HILL	COAL	-	1068.0	
-680.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1093.0	
-797.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1210.0	

MAPID: 19128951000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 29 **QUARTERS/FOOTAGES:** 2310' N line, 990' W line of NW

QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.565921 **GEOLOGIST:** STRAAYER

CONFIDENTIAL: N **LATITUDE:** 38.320965 **DATE COLLECTED:** 10 / 16 / 1977

SURFACE ELEVATION (FT.): 400.0 **LOGGED (FT.):** 1330.0 **LOG TYPE:** Electric Log

SOURCE: ILL MID-CONTINENT CO DEE DRLG 28951 **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
400.0			UNKNOWN	1218.0	0.0	
-818.0	CARBONDALE	COLCHESTER	COAL	1.0	1218.0	
-819.0	CARBONDALE		UNKNOWN	26.0	1219.0	
-845.0	CARBONDALE	DEKOVEN	COAL	2.0	1245.0	
-847.0	CARBONDALE		UNKNOWN	80.0	1247.0	
-927.0	CARBONDALE	DAVIS	COAL	3.0	1327.0	

MAPID: 19100165000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NW

QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.584683 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.320743 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 429.0 **LOGGED (FT.):** 3431.0 **LOG TYPE:** Electric Log

SOURCE: RENNICK B COLEMAN **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-577.0	CARBONDALE	HERRIN	COAL	3.0	1006.0	
-625.0	CARBONDALE	BRIAR HILL	COAL	-	1054.0	
-652.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1081.0	
-741.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1170.0	

MAPID: 19100166000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 31 **QUARTERS/FOOTAGES:** 220' N line, 1520' W line

QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.582997 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.311737 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 394.0 **LOGGED (FT.):** 3410.0 **LOG TYPE:** Electric Log

SOURCE: ROBINSON CARL ETAL **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-594.0	CARBONDALE	HERRIN	COAL	4.0	988.0	
-641.0	CARBONDALE	BRIAR HILL	COAL	-	1035.0	
-670.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1064.0	
-756.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1150.0	

MAPID: 19103902000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.556842 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.298509 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 432.0 **LOGGED (FT.):** 3429.0 **LOG TYPE:** Electric Log
SOURCE: SLAGTER ARTHUR J JR **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-551.0	CARBONDALE	HERRIN	COAL	3.0	983.0	
-590.0	CARBONDALE	BRIAR HILL	COAL	-	1022.0	
-648.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1080.0	
-758.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1190.0	

MAPID: 19103903000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.549662 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.303894 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3442.0 **LOG TYPE:** Electric Log
SOURCE: REDWINE NASH ETAL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	3.0	930.0	
-	CARBONDALE	BRIAR HILL	COAL	-	960.0	
-	CARBONDALE	SPRINGFIELD	COAL	2.0	1024.0	
-	CARBONDALE	HOUCHIN CREEK	COAL	-	1128.0	

MAPID: 19100677000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.519071 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.310783 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3467.0 **LOG TYPE:** Electric Log
SOURCE: LYNCH C A **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	4.0	986.0	
-	CARBONDALE	BRIAR HILL	COAL	-	1030.0	
-	CARBONDALE	SPRINGFIELD	COAL	3.0	1068.0	
-	CARBONDALE	HOUCHIN CREEK	COAL	-	1175.0	

MAPID: 19101489000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.502858 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.305224 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 387.0 **LOGGED (FT.):** 3472.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-609.0	CARBONDALE	HERRIN	COAL	4.0	996.0	
-647.0	CARBONDALE	BRIAR HILL	COAL	-	1034.0	
-697.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1084.0	
-810.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1197.0	

MAPID: 19101490000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NW
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.488784 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.310629 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 387.0 **LOGGED (FT.):** 3455.0 **LOG TYPE:**
SOURCE: SKILES OIL CORP **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-601.0	CARBONDALE	HERRIN	COAL	3.0	988.0	
-642.0	CARBONDALE	BRIAR HILL	COAL	-	1029.0	
-687.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1074.0	
-803.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1190.0	

MAPID: 19128502000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: WAYNE **TWP/RNG:** 2S 6E **SECTION:** 36 **QUARTERS/FOOTAGES:** NE SE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.478655 **GEOLOGIST:** PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.302229 **DATE COLLECTED:** 6 / 0 / 1975
SURFACE ELEVATION (FT.): 383.0 **LOGGED (FT.):** 1075.0 **LOG TYPE:** Other Core Study
SOURCE: NATIONAL MINES CORP 1 **WELL TYPE:** Coal Test
COMMENT: CORE SURVEY STUDY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-686.9	CARBONDALE	SPRINGFIELD	COAL	4.0	1069.9	

MAPID: 19100169000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 1 **QUARTERS/FOOTAGES:** 660' N line, 330' W line of NE NW
QUADRANGLE: GEFF **LONGITUDE:** -88.381201 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.38201 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 454.0 **LOGGED (FT.):** 3327.0 **LOG TYPE:** Electric Log
SOURCE: GULF REFINING CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-580.0	CARBONDALE	HERRIN	COAL	2.0	1034.0	
-628.0	CARBONDALE	BRIAR HILL	COAL	-	1082.0	
-662.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1116.0	
-762.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1216.0	

MAPID: 19100435000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 2 **QUARTERS/FOOTAGES:** 660' N line, 331' E line of SW
QUADRANGLE: GEFF **LONGITUDE:** -88.397582 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.375157 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 424.0 **LOGGED (FT.):** 3300.0 **LOG TYPE:** Electric Log
SOURCE: GULF REFINING CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-640.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1064.0	
-748.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1172.0	

MAPID: 19100435000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 2 **QUARTERS/FOOTAGES:** 660' N line, 331' E line of SW
QUADRANGLE: GEFF **LONGITUDE:** -88.397582 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.375157 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3300.0 **LOG TYPE:** Survey Sample Study
SOURCE: GULF REFINING CO. **WELL TYPE:** Oil and Gas Test
COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 19100435000C **VERSION:** 4 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 2 **QUARTERS/FOOTAGES:** 660' N line, 331' E line of SW

QUADRANGLE: GEFF **LONGITUDE:** -88.397582 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.375157 **DATE COLLECTED:** 10 / 0 / 1942

SURFACE ELEVATION (FT.): 424.0 **LOGGED (FT.):** 1104.0 **LOG TYPE:** Survey Sample Study

SOURCE: GULF REFINING CO. 1 **WELL TYPE:** Producer-Oil and Gas

COMMENT: COAL DIVISION CONTROL WELL #89

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
424.0			UNKNOWN	162.0	0.0	
262.0			SANDSTONE	8.0	162.0	
254.0			LIMESTONE	2.0	170.0	
252.0			SHALE	6.0	172.0	
246.0			LIMESTONE	2.0	178.0	
244.0			SANDSTONE	17.0	180.0	
227.0			BLACK SHALE & COAL	1.0	197.0	
226.0			BLACK SHALE	2.0	198.0	TRACE OF COAL
224.0			SANDSTONE	14.0	200.0	
210.0			BLACK SHALE	40.0	214.0	CLAY IN LOWER 4'
170.0			SANDSTONE	7.0	254.0	
163.0			LIMESTONE	1.0	261.0	
162.0			SANDSTONE	3.0	262.0	
159.0			SILTSTONE	21.0	265.0	
138.0			SHALE	16.0	286.0	
122.0			SILTSTONE	2.0	302.0	
120.0			SHALE	8.0	304.0	
112.0			BLACK SHALE & COAL	2.0	312.0	
110.0			UNDERCLAY	4.0	314.0	
106.0			SILTSTONE	48.0	318.0	
58.0			CALCAREOUS SHALE	2.0	366.0	
56.0			BLACK SHALE	1.0	368.0	
55.0			COAL	1.0	369.0	
54.0			UNDERCLAY	2.0	370.0	
52.0			SHALE	1.0	372.0	
51.0			LIMESTONE	4.0	373.0	
47.0			CLAYSTONE & SHALE	8.0	377.0	
39.0			LIMESTONE	1.0	385.0	
38.0			SHALE	21.0	386.0	
17.0			BLACK SHALE & COAL	-	407.0	STREAK
17.0			SHALE	5.0	407.0	
12.0			SILTSTONE	20.0	412.0	
-8.0			BLACK SHALE	4.0	432.0	
-12.0			SILTY SANDSTONE	24.0	436.0	
-36.0			BLACK SHALE & COAL	1.0	460.0	
-37.0			BLACK SHALE	3.0	461.0	
-40.0			BLACK SHALE & COAL	2.0	464.0	.5 COAL WITH UNDERCLAY
-42.0			SILTSTONE	29.0	466.0	
-71.0			LIMESTONE	1.0	495.0	

-72.0			SILTSTONE	15.0	496.0	
-87.0			LIMESTONE	4.0	511.0	
-92.0			BLACK SHALE & COAL	2.0	516.0	WITH UNDERCLAY
-94.0			SILTY SANDSTONE	77.0	518.0	
-171.0			BLACK SHALE & COAL	2.0	595.0	
-173.0			SANDSTONE	5.0	597.0	
-178.0			LIMESTONE	1.0	602.0	
-179.0			SILTY SHALE	53.0	603.0	
-232.0			SANDSTONE	12.0	656.0	
-244.0			SILTSTONE	6.0	668.0	
-250.0			SANDSTONE	21.0	674.0	
-271.0			LIMESTONE	1.0	695.0	
-272.0			SANDSTONE	20.0	696.0	
-292.0			LIMESTONE	2.0	716.0	
-294.0			BLACK SHALE & COAL	1.0	718.0	
-295.0			SHALE	11.0	719.0	
-306.0			LIMESTONE	2.0	730.0	
-308.0			BLACK SHALE & COAL	2.0	732.0	
-310.0			UNDERCLAY	1.0	734.0	
-311.0			SHALE	7.0	735.0	
-318.0			SANDSTONE	18.0	742.0	
-336.0			LIMESTONE	2.0	760.0	
-338.0			SHALE	7.0	762.0	
-345.0			BLACK SHALE & COAL	3.0	769.0	WITH UNDERCLAY
-348.0			SHALE	2.0	772.0	
-350.0			SANDSTONE	8.0	774.0	
-358.0			SHALE	3.0	782.0	COAL STREAK
-361.0			LIMESTONE	1.0	785.0	
-362.0			BLACK SHALE	4.0	786.0	
-366.0			SHALE	8.0	790.0	
-374.0			SANDSTONE	4.0	798.0	
-378.0			LIMESTONE	2.0	802.0	
-380.0			SANDSTONE	6.0	804.0	
-386.0			SHALE	52.0	810.0	
-438.0			SILTSTONE	8.0	862.0	
-446.0			SHALE	2.0	870.0	
-448.0			BLACK SHALE	2.0	872.0	
-450.0			SHALE	32.0	874.0	
-482.0	CARBONDALE	DANVILLE	BLACK SHALE & COAL	2.0	906.0	.5 COAL UDRCLY
-484.0	CARBONDALE		SILTSTONE	26.0	908.0	
-510.0	CARBONDALE		LIMESTONE	2.0	934.0	
-512.0	CARBONDALE	ANVIL ROCK	SANDSTONE	29.0	936.0	
-541.0	CARBONDALE		COAL	1.0	965.0	WITH UNDERCLAY
-542.0	CARBONDALE	ANVIL ROCK	SANDSTONE	42.0	966.0	COAL STREAK
-584.0	CARBONDALE		SHALE	10.0	1008.0	
-594.0	CARBONDALE		LIMESTONE	2.0	1018.0	
-596.0	CARBONDALE		SHALE	5.0	1020.0	

-601.0	CARBONDALE		LIMESTONE	1.0	1025.0
-602.0	CARBONDALE		SHALE	13.0	1026.0
-615.0	CARBONDALE		LIMESTONE	1.0	1039.0
-616.0	CARBONDALE	BRIAR HILL	BLACK SHALE & COAL	2.0	1040.0
-618.0	CARBONDALE		UNDERCLAY	1.0	1042.0
-619.0	CARBONDALE		SANDSTONE	11.0	1043.0
-630.0	CARBONDALE		SHALE	4.0	1054.0
-634.0	CARBONDALE	ST. DAVID	LIMESTONE	2.0	1058.0
-636.0	CARBONDALE	TURNER MINE	BLACK SHALE	4.0	1060.0
-640.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1064.0
-644.0	CARBONDALE		UNDERCLAY	3.0	1068.0
-647.0	CARBONDALE		SANDSTONE	33.0	1071.0

MAPID: 19101495000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NW

QUADRANGLE: GEFF **LONGITUDE:** -88.399883 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.383084 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 415.0 **LOGGED (FT.):** 3274.0 **LOG TYPE:** Electric Log

SOURCE: GOLDSCHMIDT & HERCHEN **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-615.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1030.0	
-722.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1137.0	

MAPID: 19101498000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SW NE

QUADRANGLE: GEFF **LONGITUDE:** -88.41371 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.37965 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 433.0 **LOGGED (FT.):** 3261.0 **LOG TYPE:** Electric Log

SOURCE: TIPPS, SAM **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-549.0	CARBONDALE	HERRIN	COAL	3.0	982.0	
-627.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1060.0	
-733.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1166.0	

MAPID: 19103904000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 4 **QUARTERS/FOOTAGES:** 674' S line, 983' W line of SE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.43001 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.371616 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 422.0 **LOGGED (FT.):** 3265.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-566.0	CARBONDALE	HERRIN	COAL	3.0	988.0	
-636.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1058.0	
-752.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1174.0	

MAPID: 19101501000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 5 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NW NE
QUADRANGLE: GEFF **LONGITUDE:** -88.448009 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.383753 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 443.0 **LOGGED (FT.):** 3277.0 **LOG TYPE:** Electric Log
SOURCE: WELKER OIL CO., LTD. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-595.0	CARBONDALE	HERRIN	COAL	5.0	1038.0	
-630.0	CARBONDALE	BRIAR HILL	COAL	-	1073.0	
-657.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1100.0	
-763.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1206.0	

MAPID: 19100640000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SE NW SE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.466687 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.374755 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 427.0 **LOGGED (FT.):** 3374.0 **LOG TYPE:** Electric Log
SOURCE: HOPKINS, DALE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-574.0	CARBONDALE	HERRIN	COAL	-	1001.0	
-610.0	CARBONDALE	BRIAR HILL	COAL	-	1037.0	
-665.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1092.0	
-770.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1197.0	

MAPID: 19101503000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 8 **QUARTERS/FOOTAGES:** 400' S line, 990' E line of SE NW
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.455428 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.363748 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 423.0 **LOGGED (FT.):** 3416.0 **LOG TYPE:** Electric Log
SOURCE: MACDONELL CO. OF LIMA **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-550.0	CARBONDALE	HERRIN	COAL	3.0	973.0	
-653.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1076.0	
-764.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1187.0	

MAPID: 19103824000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 8 **QUARTERS/FOOTAGES:** NW NW
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.458759 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.368168 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 411.0 **LOGGED (FT.):** 1351.8 **LOG TYPE:** Electric Log
SOURCE: ALVA C DAVIS **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-843.0	CARBONDALE	COLCHESTER	COAL	2.0	1254.0	
-879.0	CARBONDALE	DEKOVEN	COAL	1.8	1290.0	
-880.8	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1291.8	
-937.0	CARBONDALE	DAVIS	COAL	3.8	1348.0	

MAPID: 19100181000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 9 **QUARTERS/FOOTAGES:** 548' N line, 603' W line
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.440584 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.368293 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3310.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	4.0	1024.0	
-	CARBONDALE	BRIAR HILL	COAL	-	1068.0	
-	CARBONDALE	SPRINGFIELD	COAL	4.0	1094.0	
-	CARBONDALE	HOUCHIN CREEK	COAL	-	1207.0	

MAPID: 19103907000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 10 **QUARTERS/FOOTAGES:** 660' N line, 990' W line of NW NW
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.420923 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.367892 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 421.0 **LOGGED (FT.):** 3293.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-541.0	CARBONDALE	HERRIN	COAL	3.0	962.0	
-589.0	CARBONDALE	BRIAR HILL	COAL	-	1010.0	
-613.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1034.0	
-719.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1140.0	

MAPID: 19100183000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 11 **QUARTERS/FOOTAGES:** 660' N line, 330' E line of NE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.388409 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.368017 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 445.0 **LOGGED (FT.):** 3330.0 **LOG TYPE:** Electric Log
SOURCE: WEINERT & WATKINS **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-659.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1104.0	
-759.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1204.0	

MAPID: 19104346000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 11 **QUARTERS/FOOTAGES:** SE NE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.38969 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.364352 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 448.0 **LOGGED (FT.):** 1352.5 **LOG TYPE:** Electric Log
SOURCE: SHURO OIL CORPORATION **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-832.0	CARBONDALE	COLCHESTER	COAL	1.8	1280.0	
-866.0	CARBONDALE	DEKOVEN	COAL	2.8	1314.0	
-900.0	CARBONDALE	LOWER DEKOVEN	COAL	1.5	1348.0	
-902.0	CARBONDALE	DAVIS	COAL	2.5	1350.0	

MAPID: 19100182000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 12 **QUARTERS/FOOTAGES:** 660' N line, 330' E line of NW NW
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.38377 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.368003 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 432.0 **LOGGED (FT.):** 3320.0 **LOG TYPE:** Electric Log
SOURCE: WEINERT & WATKINS **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-642.0	CARBONDALE	BRIAR HILL	COAL	-	1074.0	
-671.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1103.0	
-768.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1200.0	

MAPID: 19103541000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 14 **QUARTERS/FOOTAGES:** 990' S line, 330' W line
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.405064 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.342985 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 409.0 **LOGGED (FT.):** 3500.0 **LOG TYPE:** Electric Log
SOURCE: SHELL OIL COMPANY **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-595.0	CARBONDALE	HERRIN	COAL	2.0	1004.0	
-661.0	CARBONDALE	BRIAR HILL	COAL	-	1070.0	
-688.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1097.0	
-791.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1200.0	

MAPID: 19100637000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 15 **QUARTERS/FOOTAGES:** 2320' S line, 1643' W line
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.418903 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.346824 **DATE COLLECTED:** 11 / 20 / 1944
SURFACE ELEVATION (FT.): 386.0 **LOGGED (FT.):** 1352.5 **LOG TYPE:** Electric Log
SOURCE: THO PURO 0.1 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-874.0	CARBONDALE	COLCHESTER	COAL	0.5	1260.0	
-892.0	CARBONDALE	DEKOVEN	COAL	2.8	1278.0	
-894.8	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1280.8	
-964.0	CARBONDALE	DAVIS	COAL	2.5	1350.0	

MAPID: 19100637000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 15 **QUARTERS/FOOTAGES:** 2320' S line, 1643' W line
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.418903 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.346824 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 386.0 **LOGGED (FT.):** 3450.0 **LOG TYPE:** Electric Log
SOURCE: PURE OIL CO., THE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-637.0	CARBONDALE	HERRIN	COAL	4.0	1023.0	
-668.0	CARBONDALE	BRIAR HILL	COAL	-	1054.0	
-695.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1081.0	
-809.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1195.0	

MAPID: 19100636000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 16 **QUARTERS/FOOTAGES:** 400' S line, 330' E line of NW NW
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.43956 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.35267 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 409.0 **LOGGED (FT.):** 3351.0 **LOG TYPE:** Electric Log
SOURCE: ASHLAND OIL&REF. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-608.0	CARBONDALE	HERRIN	COAL	4.0	1017.0	
-641.0	CARBONDALE	BRIAR HILL	COAL	-	1050.0	
-671.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1080.0	
-791.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1200.0	

MAPID: 19100635000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.446534 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.348871 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 411.0 **LOGGED (FT.):** 3357.0 **LOG TYPE:** Electric Log
SOURCE: ASHLAND OIL&REF. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-575.0	CARBONDALE	HERRIN	COAL	4.0	986.0	
-668.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1079.0	
-781.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1192.0	

MAPID: 19103908000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.465412 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.334185 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 400.0 **LOGGED (FT.):** 3388.0 **LOG TYPE:** Electric Log
SOURCE: SLAGTER PRODUCING CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-577.0	CARBONDALE	HERRIN	COAL	3.0	977.0	
-617.0	CARBONDALE	BRIAR HILL	COAL	-	1017.0	
-658.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1058.0	
-773.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1173.0	

MAPID: 19101507000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.446951 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.328654 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 392.0 **LOGGED (FT.):** 3448.0 **LOG TYPE:** Electric Log
SOURCE: NATION OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-593.0	CARBONDALE	HERRIN	COAL	5.0	985.0	
-630.0	CARBONDALE	BRIAR HILL	COAL	-	1022.0	
-672.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1064.0	
-788.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1180.0	

MAPID: 19103666000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE NE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.409792 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.335719 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 389.0 **LOGGED (FT.):** 3450.0 **LOG TYPE:** Electric Log
SOURCE: CLAYPOOL DAVID N **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-630.0	CARBONDALE	HERRIN	COAL	3.0	1019.0	
-689.0	CARBONDALE	BRIAR HILL	COAL	-	1078.0	
-717.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1106.0	
-823.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1212.0	

MAPID: 19101509000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.39359 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.337553 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 413.0 **LOGGED (FT.):** 3495.0 **LOG TYPE:** Electric Log
SOURCE: BELL, KENNETH C. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-619.0	CARBONDALE	HERRIN	COAL	2.0	1032.0	
-681.0	CARBONDALE	BRIAR HILL	COAL	-	1094.0	
-709.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1122.0	
-799.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1212.0	

MAPID: 19101510000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NW
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.382213 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.324635 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 497.0 **LOGGED (FT.):** 3598.0 **LOG TYPE:** Electric Log
SOURCE: ROBINSON & PUCKETT, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-649.0	CARBONDALE	BRIAR HILL	COAL	-	1146.0	
-685.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1182.0	
-771.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1268.0	

MAPID: 19100632000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.414648 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.319249 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 391.0 **LOGGED (FT.):** 3472.0 **LOG TYPE:** Electric Log
SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-565.0	CARBONDALE	HERRIN	COAL	4.0	956.0	
-613.0	CARBONDALE	BRIAR HILL	COAL	-	1004.0	
-639.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1030.0	
-729.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1120.0	

MAPID: 19103162000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.42859 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.317524 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 379.0 **LOGGED (FT.):** 3368.0 **LOG TYPE:** Electric Log
SOURCE: LAFAYETTE OIL CO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-545.0	CARBONDALE	HERRIN	COAL	4.0	924.0	
-607.0	CARBONDALE	BRIAR HILL	COAL	-	986.0	
-629.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1008.0	
-731.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1110.0	

MAPID: 19101896000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NW
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.458722 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.319387 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 410.0 **LOGGED (FT.):** 1328.8 **LOG TYPE:** Electric Log
SOURCE: SAN G WALKER **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-833.0	CARBONDALE	COLCHESTER	COAL	0.5	1243.0	
-885.0	CARBONDALE	DEKOVEN	COAL	2.0	1295.0	
-887.0	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1297.0	
-915.0	CARBONDALE	DAVIS	COAL	3.8	1325.0	

MAPID: 19101896000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NW
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.458722 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.319387 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 410.0 **LOGGED (FT.):** 3479.0 **LOG TYPE:** Electric Log
SOURCE: WALKER SAM G **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-560.0	CARBONDALE	HERRIN	COAL	3.0	970.0	
-659.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1069.0	
-772.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1182.0	

MAPID: 19101512000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 32 **QUARTERS/FOOTAGES:** 490' N line, 330' E line
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.444854 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.309678 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 382.0 **LOGGED (FT.):** 3443.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-548.0	CARBONDALE	HERRIN	COAL	4.0	930.0	
-638.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1020.0	
-750.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1132.0	

MAPID: 19100401000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.428915 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.300944 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 383.0 **LOGGED (FT.):** 3231.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-584.0	CARBONDALE	HERRIN	COAL	4.0	967.0	
-631.0	CARBONDALE	BRIAR HILL	COAL	-	1014.0	
-660.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1043.0	
-760.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1143.0	

MAPID: 19100401000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.428915 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.300944 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3231.0 **LOG TYPE:** Survey Sample Study
SOURCE: TEXACO, INC. **WELL TYPE:** Oil and Gas Test
COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 19100401000C **VERSION:** 4 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SE

QUADRANGLE: BOYLESTON **LONGITUDE:** -88.428915 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.300944 **DATE COLLECTED:** 10 / 0 / 1942

SURFACE ELEVATION (FT.): 383.0 **LOGGED (FT.):** 1136.0 **LOG TYPE:** Survey Sample Study

SOURCE: TEXAS COMPANY, THE 1 **WELL TYPE:** Dry Hole

COMMENT: COAL DIVISION CONTROL WELL #83

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
383.0			UNKNOWN	150.0	0.0	
233.0			SILTY SHALE	100.0	150.0	
133.0			LIMESTONE	4.0	250.0	
129.0			SILTY SHALE	56.0	254.0	
73.0			LIMESTONE	2.0	310.0	
71.0			SILTY SHALE	8.0	312.0	
63.0			BLACK SHALE	10.0	320.0	
53.0			SILTSTONE	8.0	330.0	
45.0			SANDSTONE	112.0	338.0	WITH SHALE
-67.0			UNKNOWN	10.0	450.0	
-77.0			LIMESTONE & SHALE	12.0	460.0	
-89.0			SILTY SHALE	78.0	472.0	
-167.0			LIMESTONE	2.0	550.0	
-169.0			SILTY SHALE	8.0	552.0	
-177.0			BLACK SHALE	2.0	560.0	
-179.0			SILTY SHALE	46.0	562.0	WITH BLACK SHALE
-225.0			SILTY SANDSTONE	62.0	608.0	
-287.0			SANDSTONE	30.0	670.0	
-317.0			SANDSTONE/SHALE	20.0	700.0	
-337.0			LIMESTONE	2.0	720.0	
-339.0			SANDSTONE	58.0	722.0	
-397.0			SHALE	18.0	780.0	
-415.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	798.0	
-421.0			SHALE	6.0	804.0	
-427.0			BLACK SHALE & COAL	10.0	810.0	
-437.0			SANDSTONE/SHALE	64.0	820.0	
-501.0			BLACK SHALE	1.0	884.0	
-502.0	CARBONDALE	DANVILLE	COAL	3.0	885.0	APPROXIMATE THICKNESS
-505.0	CARBONDALE	DANVILLE	COAL	1.0	888.0	APPROXIMATE THICKNESS
-506.0	CARBONDALE		SANDSTONE	22.0	889.0	
-528.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	911.0	
-532.0	CARBONDALE	ANVIL ROCK	SANDSTONE	15.0	915.0	
-547.0	CARBONDALE		LIMESTONE	2.0	930.0	
-549.0	CARBONDALE		SILTSTONE	23.0	932.0	
-572.0	CARBONDALE		BLACK SHALE & COAL	1.0	955.0	
-573.0	CARBONDALE	BRERETON	LIMESTONE	4.0	956.0	
-577.0	CARBONDALE	ANNA	BLACK SHALE	1.0	960.0	
-578.0	CARBONDALE	HERRIN	COAL	5.0	961.0	APPROXIMATE THICKNESS
-583.0	CARBONDALE		UNDERCLAY	2.0	966.0	

-585.0	CARBONDALE		SANDSTONE	26.0	968.0	
-611.0	CARBONDALE		SILTSTONE	17.0	994.0	
-628.0	CARBONDALE	BRIAR HILL	COAL	2.0	1011.0	APPROXIMATE THICKNESS
-630.0	CARBONDALE		UNDERCLAY	2.0	1013.0	
-632.0	CARBONDALE		SILTY SHALE	13.0	1015.0	
-645.0	CARBONDALE		SANDSTONE	1.0	1028.0	
-646.0	CARBONDALE		LIMESTONE	3.0	1029.0	
-649.0	CARBONDALE		SHALE	5.0	1032.0	
-654.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	1037.0	
-656.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1039.0	APPROXIMATE THICKNESS
-659.0	CARBONDALE		SILTSTONE	70.0	1042.0	
-729.0	CARBONDALE		CALCAREOUS SHALE	8.0	1112.0	
-737.0	CARBONDALE		SHALE	16.0	1120.0	

MAPID: 19100630000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 34 **QUARTERS/FOOTAGES:** 1683' N line, 330' W line of NW

QUADRANGLE: BOYLESTON **LONGITUDE:** -88.424219 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.306376 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 380.0 **LOGGED (FT.):** 3435.0 **LOG TYPE:** Electric Log

SOURCE: PURE OIL CO., THE **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-587.0	CARBONDALE	HERRIN	COAL	4.0	967.0	
-638.0	CARBONDALE	BRIAR HILL	COAL	-	1018.0	
-670.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1050.0	
-770.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1150.0	

MAPID: 19101897000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE

QUADRANGLE: BOYLESTON **LONGITUDE:** -88.396267 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.309935 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 434.0 **LOGGED (FT.):** 3552.0 **LOG TYPE:** Electric Log

SOURCE: CARTER OIL COMPANY **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-652.0	CARBONDALE	HERRIN	COAL	4.0	1086.0	
-696.0	CARBONDALE	BRIAR HILL	COAL	-	1130.0	
-733.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1167.0	
-816.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1250.0	

MAPID: 19103591000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 7E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SW
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.384847 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.3025 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 431.0 **LOGGED (FT.):** 3465.0 **LOG TYPE:** Electric Log
SOURCE: CARTER DRLG., JOHNIE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-671.0	CARBONDALE	HERRIN	COAL	4.0	1102.0	
-711.0	CARBONDALE	BRIAR HILL	COAL	-	1142.0	
-747.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1178.0	
-837.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1268.0	

MAPID: 19103873000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.264909 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.383646 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 400.0 **LOGGED (FT.):** 3412.0 **LOG TYPE:** Electric Log
SOURCE: HOWJE & KIM OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-664.0	CARBONDALE	BRIAR HILL	COAL	-	1064.0	
-696.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1096.0	
-810.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1210.0	

MAPID: 19100194000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 2 **QUARTERS/FOOTAGES:** 660' N line, 330' W line of SE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.285463 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.377315 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 451.0 **LOGGED (FT.):** 3491.0 **LOG TYPE:** Electric Log
SOURCE: SCHULLER & LYNCH, ETAL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-767.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1218.0	

MAPID: 19103874000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.303782 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.385524 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 489.0 **LOGGED (FT.):** 3269.0 **LOG TYPE:** Electric Log
SOURCE: CULLUM & LAWHEAD **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-571.0	CARBONDALE	HERRIN	COAL	3.0	1060.0	
-621.0	CARBONDALE	BRIAR HILL	COAL	-	1110.0	
-651.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1140.0	
-756.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1245.0	

MAPID: 19100195000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' S line, 660' E line of SW NE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.321122 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.380125 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 419.0 **LOGGED (FT.):** 3324.0 **LOG TYPE:** Electric Log
SOURCE: WEINERT & WATKINS **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-595.0	CARBONDALE	HERRIN	COAL	5.0	1014.0	
-631.0	CARBONDALE	BRIAR HILL	COAL	-	1050.0	
-661.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1080.0	
-767.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1186.0	

MAPID: 19100195000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' S line, 660' E line of SW NE
QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.321122 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.380125 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3324.0 **LOG TYPE:** Survey Sample Study
SOURCE: WEINERT & WATKINS **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: 19100195000C **VERSION:** 4 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' S line, 660' E line of SW NE

QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.321122 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.380125 **DATE COLLECTED:** 5 / 0 / 1942

SURFACE ELEVATION (FT.): 419.0 **LOGGED (FT.):** 1030.0 **LOG TYPE:** Survey Sample Study

SOURCE: H.H. WEINERT & WATKINS 1 **WELL TYPE:** Plugged and/or Abandoned

COMMENT: SAMPLE STUDY CONTROL WELL #10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
419.0			UNKNOWN	134.0	0.0	
285.0			SHALE	14.0	134.0	
271.0			SANDSTONE	4.0	148.0	
267.0			COAL	-	152.0	STREAK
267.0			SANDSTONE	6.0	152.0	
261.0			SHALE	22.0	158.0	
239.0			LIMESTONE	4.0	180.0	
235.0			BLACK SHALE	6.0	184.0	
229.0			SANDSTONE	2.0	190.0	
227.0			SHALE	42.0	192.0	
185.0			BLACK SHALE & COAL	4.0	234.0	WITH UNDERCLAY
181.0			SHALE	2.0	238.0	
179.0			COAL	2.0	240.0	
177.0			UNDERCLAY	1.0	242.0	
176.0			SHALE	87.0	243.0	SS INTERBEDS
89.0			LIMESTONE	4.0	330.0	
85.0			BLACK SHALE	2.0	334.0	
83.0			SHALE	4.0	336.0	
79.0			SILTSTONE	12.0	340.0	
67.0			SHALE	34.0	352.0	
33.0			BLACK SHALE	2.0	386.0	
31.0			COAL	2.0	388.0	APPROXIMATE THICKNESS
29.0			BLACK SHALE	2.0	390.0	
27.0			LIMESTONE	4.0	392.0	
23.0			SHALE	14.0	396.0	
9.0			LIMESTONE	2.0	410.0	
7.0			SHALE	1.0	412.0	
6.0			COAL	1.0	413.0	APPROXIMATE THICKNESS
6.0			SHALE	1.0	413.0	
1.0			LIMESTONE	2.0	418.0	
-1.0			SHALE	24.0	420.0	
-25.0			LIMESTONE	4.0	444.0	
-29.0			SHALE	15.0	448.0	
-44.0			BLACK SHALE	1.0	463.0	
-45.0			UNDERCLAY	1.0	464.0	
-46.0			SANDY SHALE	19.0	465.0	
-65.0			COAL	3.0	484.0	APPROXIMATE THICKNESS
-68.0			UNDERCLAY	1.0	487.0	
-69.0			SANDY SHALE	42.0	488.0	

-111.0	BOND	CARTHAGE	LIMESTONE	6.0	530.0	
-151.0			SANDY SHALE	34.0	570.0	
-151.0			SANDY SHALE	42.0	570.0	
-193.0			BLACK SHALE & COAL	2.0	612.0	
-195.0			SHALE	16.0	614.0	
-211.0			LIMESTONE	2.0	630.0	
-213.0			SANDY SHALE	22.0	632.0	
-235.0			LIMESTONE	2.0	654.0	
-237.0			SANDSTONE/SHALE	42.0	656.0	
-279.0			BLACK SHALE & COAL	2.0	698.0	
-281.0			SANDSTONE	24.0	700.0	
-305.0			SANDSTONE/SHALE	44.0	724.0	
-349.0			SHALE	14.0	768.0	
-363.0			SANDSTONE	20.0	782.0	
-383.0			SANDY SHALE	26.0	802.0	
-409.0			SHALE	12.0	828.0	
-421.0	CARBONDALE	ANVIL ROCK	SHALE & SANDSTONE	70.0	840.0	
-491.0	CARBONDALE		SHALE	30.0	910.0	
-521.0	CARBONDALE	BRERETON	LIMESTONE	2.0	940.0	
-523.0	CARBONDALE	HERRIN	COAL	3.0	942.0	APPROXIMATE THICKNESS
-526.0	CARBONDALE		UNDERCLAY	1.0	945.0	
-527.0	CARBONDALE		SHALE & SANDSTONE	18.0	946.0	
-545.0	CARBONDALE		LIMESTONE	4.0	964.0	
-549.0	CARBONDALE		SHALE	14.0	968.0	
-563.0	CARBONDALE	BRIAR HILL	BLACK SHALE & COAL	4.0	982.0	
-567.0	CARBONDALE		SHALE	26.0	986.0	
-593.0	CARBONDALE	ST. DAVID	LIMESTONE	2.0	1012.0	
-595.0	CARBONDALE	TURNER MINE	BLACK SHALE	4.0	1014.0	
-599.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1018.0	APPROXIMATE THICKNESS
-603.0	CARBONDALE		SHALE	8.0	1022.0	

MAPID: 19103877000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SE

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.320064 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.372844 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 409.0 **LOGGED (FT.):** 3292.0 **LOG TYPE:** Electric Log

SOURCE: GALLAGHER EDW P **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-596.0	CARBONDALE	HERRIN	COAL	5.0	1005.0	
-627.0	CARBONDALE	BRIAR HILL	COAL	-	1036.0	
-661.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1070.0	
-771.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1180.0	

MAPID: 19101526000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 5 **QUARTERS/FOOTAGES:** 330' N line, 330' E line

QUADRANGLE: FAIRFIELD **LONGITUDE:** -88.333692 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.385598 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 457.0 **LOGGED (FT.):** 3302.0 **LOG TYPE:** Electric Log

SOURCE: TULLEY & CARTER **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-583.0	CARBONDALE	HERRIN	COAL	3.0	1040.0	
-643.0	CARBONDALE	BRIAR HILL	COAL	-	1100.0	
-667.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1124.0	
-776.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1233.0	

MAPID: 19103879000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' S line, 330' E line

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.333707 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.35843 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 444.0 **LOGGED (FT.):** 3228.0 **LOG TYPE:** Electric Log

SOURCE: PIGORSCH WALTER **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-575.0	CARBONDALE	HERRIN	COAL	3.0	1019.0	
-616.0	CARBONDALE	BRIAR HILL	COAL	-	1060.0	
-648.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1092.0	
-750.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1194.0	

MAPID: 19131722000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SW

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.345097 **GEOLOGIST:** JACOBSON

CONFIDENTIAL: N **LATITUDE:** 38.363779 **DATE COLLECTED:** 6 / 17 / 1987

SURFACE ELEVATION (FT.): 447.0 **LOGGED (FT.):** 1337.0 **LOG TYPE:** Nuclear Log

SOURCE: RUDY J.W. COMPANY **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
447.0			UNKNOWN	1266.0	0.0	
-819.0	CARBONDALE	COLCHESTER	COAL	0.5	1266.0	
-819.5	CARBONDALE		UNKNOWN	40.5	1266.5	
-860.0	CARBONDALE	DEKOVEN	COAL	2.5	1307.0	
-862.5	CARBONDALE		UNKNOWN	0.0	1309.5	
-862.5	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1309.5	
-862.5	CARBONDALE		UNKNOWN	23.5	1309.5	
-886.0	CARBONDALE	DAVIS	COAL	4.0	1333.0	LOWER DEKOVEN MERGED WITH DAVIS?

MAPID: 19100196000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NW

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.329192 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.365629 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 397.0 **LOGGED (FT.):** 3832.0 **LOG TYPE:** Electric Log

SOURCE: MARTIN ED **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-585.0	CARBONDALE	HERRIN	COAL	3.0	982.0	
-626.0	CARBONDALE	BRIAR HILL	COAL	-	1023.0	
-658.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1055.0	
-768.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1165.0	

MAPID: 19103240000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SW
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.310985 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.358388 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 398.0 **LOGGED (FT.):** 3335.0 **LOG TYPE:** Electric Log
SOURCE: DAVIS ALVA C PETRO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-588.0	CARBONDALE	HERRIN	COAL	3.0	986.0	
-636.0	CARBONDALE	BRIAR HILL	COAL	-	1034.0	
-666.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1064.0	
-777.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1175.0	

MAPID: 19103239000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.285577 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.363809 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 439.0 **LOGGED (FT.):** 1437.0 **LOG TYPE:** Electric Log
SOURCE: KING-STEVENSON OIL COO **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-906.0	CARBONDALE	COLCHESTER	COAL	0.5	1345.0	
-946.0	CARBONDALE	DEKOVEN	COAL	4.0	1385.0	
-950.0	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1389.0	
-994.0	CARBONDALE	DAVIS	COAL	4.0	1433.0	

MAPID: 19103492000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' N line, 330' E line
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.278669 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.370967 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 436.0 **LOGGED (FT.):** 3512.0 **LOG TYPE:** Electric Log
SOURCE: MCKELVY & SIPOHA DRLG. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-660.0	CARBONDALE	BRIAR HILL	COAL	-	1096.0	
-696.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1132.0	
-798.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1234.0	

MAPID: 19100624000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NE
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.265122 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.365649 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 412.0 **LOGGED (FT.):** 3444.0 **LOG TYPE:** Electric Log
SOURCE: ROBINSON & PUCKETT, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-576.0	CARBONDALE	HERRIN	COAL	3.0	988.0	
-618.0	CARBONDALE	BRIAR HILL	COAL	-	1030.0	
-652.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1064.0	
-758.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1170.0	

MAPID: 19100623000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NW
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.272005 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.356671 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 450.0 **LOGGED (FT.):** 3502.0 **LOG TYPE:** Electric Log
SOURCE: ROBINSON & PUCKETT, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-660.0	CARBONDALE	BRIAR HILL	COAL	-	1110.0	
-694.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1144.0	
-802.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1252.0	

MAPID: 19100197000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW NW
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.294835 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.352944 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3364.0 **LOG TYPE:** Electric Log
SOURCE: ROBINSON CARL ETAL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	SPRINGFIELD	COAL	4.0	1096.0	
-	CARBONDALE	HOUCHIN CREEK	COAL	-	1205.0	

MAPID: 19103102000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NE
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.301743 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.354764 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 393.0 **LOGGED (FT.):** 3255.0 **LOG TYPE:** Electric Log
SOURCE: PRUETT T M **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-647.0	CARBONDALE	BRIAR HILL	COAL	-	1040.0	
-677.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1070.0	
-781.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1174.0	

MAPID: 19130739000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.304042 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.356566 **DATE COLLECTED:** 11 / 2 / 1983
SURFACE ELEVATION (FT.): 422.0 **LOGGED (FT.):** 1348.0 **LOG TYPE:** Nuclear Log
SOURCE: HOFLIN OIL CO **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
422.0			UNKNOWN	1261.0	0.0	
-839.0	CARBONDALE	COLCHESTER	COAL	0.5	1261.0	
-839.5	CARBONDALE		UNKNOWN	38.5	1261.5	
-878.0	CARBONDALE	DEKOVEN	COAL	3.8	1300.0	
-881.8	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1303.8	
-881.8	CARBONDALE		UNKNOWN	41.2	1303.8	
-923.0	CARBONDALE	DAVIS	COAL	3.0	1345.0	

MAPID: 19103190000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.315655 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.349344 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 415.0 **LOGGED (FT.):** 3353.0 **LOG TYPE:** Electric Log
SOURCE: NOAL PETROLEUM **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-588.0	CARBONDALE	HERRIN	COAL	3.0	1003.0	
-635.0	CARBONDALE	BRIAR HILL	COAL	-	1050.0	
-665.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1080.0	
-773.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1188.0	

MAPID: 19101539000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NE

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.333745 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.35481 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 462.0 **LOGGED (FT.):** 5377.0 **LOG TYPE:** Electric Log

SOURCE: ASHLAND OIL&REF. CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-567.0	CARBONDALE	HERRIN	COAL	3.0	1029.0	
-604.0	CARBONDALE	BRIAR HILL	COAL	-	1066.0	
-635.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1097.0	
-732.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1194.0	

MAPID: 19106920000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SW

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.342919 **GEOLOGIST:** C TREWORGY

CONFIDENTIAL: N **LATITUDE:** 38.34755 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 488.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Electric Log

SOURCE: ROBINSON & PUCKETT, INC. **WELL TYPE:** Plugged and/or Abandoned

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	SPRINGFIELD	COAL	0.0		

MAPID: 19106924000C **VERSION:** 1 **PROJECT:** CGT-SCILL

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SW

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.342934 **GEOLOGIST:** C TREWORGY

CONFIDENTIAL: N **LATITUDE:** 38.345728 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 480.0 **LOGGED (FT.):** 1091.0 **LOG TYPE:** Electric Log

SOURCE: STEWART OIL CO. **WELL TYPE:** Plugged and/or Abandoned

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-608.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1088.0	

MAPID: 19101542000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SE

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.351983 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.345711 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 479.0 **LOGGED (FT.):** 3388.0 **LOG TYPE:** Electric Log

SOURCE: NATION OIL CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-587.0	CARBONDALE	HERRIN	COAL	2.0	1066.0	
-667.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1146.0	
-765.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1244.0	

MAPID: 19103882000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NE

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.352014 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.340297 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 463.0 **LOGGED (FT.):** 3260.0 **LOG TYPE:** Electric Log

SOURCE: NATION OIL CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-607.0	CARBONDALE	HERRIN	COAL	4.0	1070.0	CHENOWETH: "COAL CUTOUT
-656.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1119.0	
-751.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1214.0	

MAPID: 19103883000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NW

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.34298 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.340311 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 432.0 **LOGGED (FT.):** 3211.0 **LOG TYPE:** Electric Log

SOURCE: F B DRLG CO **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-565.0	CARBONDALE	HERRIN	COAL	3.0	997.0	
-603.0	CARBONDALE	BRIAR HILL	COAL	-	1035.0	
-636.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1068.0	
-741.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1173.0	

MAPID: 19101548000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 330' E line
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.315694 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.342119 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 430.0 **LOGGED (FT.):** 3420.0 **LOG TYPE:** Electric Log
SOURCE: ROBINSON & PUCKETT, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-577.0	CARBONDALE	HERRIN	COAL	4.0	1007.0	
-618.0	CARBONDALE	BRIAR HILL	COAL	-	1048.0	
-652.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1082.0	
-764.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1194.0	

MAPID: 19103886000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SE
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.299832 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.329484 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 390.0 **LOGGED (FT.):** 3299.0 **LOG TYPE:** Electric Log
SOURCE: IL MID-CONTINENT OIL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-611.0	CARBONDALE	HERRIN	COAL	4.0	1001.0	
-648.0	CARBONDALE	BRIAR HILL	COAL	-	1038.0	
-677.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1067.0	
-790.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1180.0	

MAPID: 19101549000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SE
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.279163 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.333204 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 412.0 **LOGGED (FT.):** 3454.0 **LOG TYPE:** Electric Log
SOURCE: PURSUIT OIL CO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-638.0	CARBONDALE	BRIAR HILL	COAL	-	1050.0	
-669.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1081.0	
-776.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1188.0	

MAPID: 19103887000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SW
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.27463 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.331391 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 397.0 **LOGGED (FT.):** 3445.0 **LOG TYPE:** Electric Log
SOURCE: SLAGTER ARTHUR J JR **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-589.0	CARBONDALE	HERRIN	COAL	4.0	986.0	
-630.0	CARBONDALE	BRIAR HILL	COAL	-	1027.0	
-661.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1058.0	
-770.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1167.0	

MAPID: 19104374000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NE
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.265565 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.326098 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 390.0 **LOGGED (FT.):** 5500.0 **LOG TYPE:** Electric Log
SOURCE: KAEMMERER & WIER **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-570.0	CARBONDALE	HERRIN	COAL	4.0	960.0	
-615.0	CARBONDALE	BRIAR HILL	COAL	-	1005.0	
-650.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1040.0	
-756.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1146.0	

MAPID: 19103262000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE NW
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.290632 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.325911 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3400.0 **LOG TYPE:** Electric Log
SOURCE: ENGLE, GEORGE S. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	2.0	963.0	
-	CARBONDALE	BRIAR HILL	COAL	-	1010.0	
-	CARBONDALE	SPRINGFIELD	COAL	2.0	1038.0	
-	CARBONDALE	HOUCHIN CREEK	COAL	-	1143.0	

MAPID: 19132113000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 26 **QUARTERS/FOOTAGES:** 970' S line, 370' W line of SW

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.295032 **GEOLOGIST:** JACOBSON

CONFIDENTIAL: N **LATITUDE:** 38.316885 **DATE COLLECTED:** 4 / 22 / 1994

SURFACE ELEVATION (FT.): 411.0 **LOGGED (FT.):** 1330.0 **LOG TYPE:** Nuclear Log

SOURCE: BERNARD PODOLSKY **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
411.0			UNKNOWN	1228.0	0.0	
-817.0	CARBONDALE	COLCHESTER	COAL	0.5	1228.0	
-817.5	CARBONDALE		UNKNOWN	35.5	1228.5	
-853.0	CARBONDALE	DEKOVEN	COAL	3.7	1264.0	
-856.7	CARBONDALE		UNKNOWN	0.0	1267.7	
-856.7	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1267.7	
-856.7	CARBONDALE		UNKNOWN	58.3	1267.7	
-915.0	CARBONDALE	DAVIS	COAL	4.0	1326.0	

MAPID: 19101553000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' S line, 330' W line

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.313664 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.315029 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 481.0 **LOGGED (FT.):** 3469.0 **LOG TYPE:** Electric Log

SOURCE: CENTRAL PIPELINE CO **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-571.0	CARBONDALE	HERRIN	COAL	4.0	1052.0	
-619.0	CARBONDALE	BRIAR HILL	COAL	-	1100.0	
-648.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1129.0	
-743.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1224.0	

MAPID: 19103890000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SE
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.320472 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.316808 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 484.0 **LOGGED (FT.):** 3502.0 **LOG TYPE:** Electric Log
SOURCE: DUNCAN, N. V., EST. OF **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-577.0	CARBONDALE	HERRIN	COAL	3.0	1061.0	
-624.0	CARBONDALE	BRIAR HILL	COAL	-	1108.0	
-655.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1139.0	
-756.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1240.0	

MAPID: 19103892000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.333964 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.322191 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3469.0 **LOG TYPE:** Electric Log
SOURCE: SPIRES H V **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	3.0	1034.0	
-	CARBONDALE	BRIAR HILL	COAL	-	1070.0	
-	CARBONDALE	SPRINGFIELD	COAL	4.0	1107.0	
-	CARBONDALE	HOUCHIN CREEK	COAL	-	1200.0	

MAPID: 19103893000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SW
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.345292 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.314983 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 480.0 **LOGGED (FT.):** 1433.8 **LOG TYPE:** Electric Log
SOURCE: J FRANK VONOBLE **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-848.0	CARBONDALE	COLCHESTER	COAL	0.5	1328.0	
-878.0	CARBONDALE	DEKOVEN	COAL	1.8	1358.0	
-879.8	CARBONDALE	LOWER DEKOVEN	COAL	0.0	1359.8	
-950.0	CARBONDALE	DAVIS	COAL	3.8	1430.0	

MAPID: 19101557000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.359104 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.320366 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 431.0 **LOGGED (FT.):** 3436.0 **LOG TYPE:** Electric Log
SOURCE: HALBERT RALPH C **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-634.0	CARBONDALE	HERRIN	COAL	3.0	1065.0	
-683.0	CARBONDALE	BRIAR HILL	COAL	-	1114.0	
-720.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1151.0	
-815.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1246.0	

MAPID: 19103690000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' S line, 330' W line
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.368626 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.300443 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 423.0 **LOGGED (FT.):** 3435.0 **LOG TYPE:** Electric Log
SOURCE: DAVIS ALVA C PETRO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-633.0	CARBONDALE	HERRIN	COAL	3.0	1056.0	
-682.0	CARBONDALE	BRIAR HILL	COAL	-	1105.0	
-717.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1140.0	
-815.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1238.0	

MAPID: 19100615000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NE
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.320434 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.313174 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 3542.0 **LOG TYPE:** Electric Log
SOURCE: CENTRAL PIPELINE CO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-586.0	CARBONDALE	HERRIN	COAL	-	1076.0	
-634.0	CARBONDALE	BRIAR HILL	COAL	-	1124.0	
-664.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1154.0	
-762.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1252.0	

MAPID: 19103318000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SW
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.31121 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.306014 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 455.0 **LOGGED (FT.):** 3444.0 **LOG TYPE:** Electric Log
SOURCE: ASHLAND OIL&REF. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-575.0	CARBONDALE	HERRIN	COAL	3.0	1030.0	
-619.0	CARBONDALE	BRIAR HILL	COAL	-	1074.0	
-648.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1103.0	
-740.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1195.0	

MAPID: 19103227000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NE
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.279355 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.309809 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 393.0 **LOGGED (FT.):** 3403.0 **LOG TYPE:** Electric Log
SOURCE: NOAL PETROLEUM **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-612.0	CARBONDALE	BRIAR HILL	COAL	-	1005.0	
-647.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1040.0	
-744.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1137.0	

MAPID: 19103895000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 8E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE NW
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.272492 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.309882 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 397.0 **LOGGED (FT.):** 3420.0 **LOG TYPE:** Electric Log
SOURCE: MCKELVY & SIPOHA DRLG. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-561.0	CARBONDALE	HERRIN	COAL	-	958.0	
-606.0	CARBONDALE	BRIAR HILL	COAL	-	1003.0	
-656.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1053.0	
-756.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1153.0	

MAPID: 19103495000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW SW
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.165837 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.374326 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 389.0 **LOGGED (FT.):** 3408.0 **LOG TYPE:** Electric Log
SOURCE: SAVAGE EVERETT **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-595.0	CARBONDALE	BRIAR HILL	COAL	-	984.0	
-653.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1042.0	
-761.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1150.0	

MAPID: 19101570000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SE
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.1704 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.372432 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 388.0 **LOGGED (FT.):** 3477.0 **LOG TYPE:** Electric Log
SOURCE: CARTER OIL COMPANY **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-669.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1057.0	
-782.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1170.0	

MAPID: 19103452000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.193227 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.379841 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 388.0 **LOGGED (FT.):** 3458.0 **LOG TYPE:** Electric Log
SOURCE: DAVIS ALVA C PETRO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-582.0	CARBONDALE	HERRIN	COAL	3.0	970.0	
-628.0	CARBONDALE	BRIAR HILL	COAL	-	1016.0	
-684.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1072.0	
-805.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1193.0	

MAPID: 19100239000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SW
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.216169 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.374472 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 387.0 **LOGGED (FT.):** 3376.0 **LOG TYPE:** Electric Log
SOURCE: BELL BROTHERS **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-663.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1050.0	
-779.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1166.0	

MAPID: 19100239000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE SW
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.216169 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.374472 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3376.0 **LOG TYPE:** Survey Sample Study
SOURCE: BELL BROTHERS **WELL TYPE:** Oil and Gas Test
COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 19103701000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 4 **QUARTERS/FOOTAGES:** 990' N line, 330' E line of NW SE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.209339 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.37627 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 385.0 **LOGGED (FT.):** 3390.0 **LOG TYPE:** Electric Log
SOURCE: CENTRAL DRLG CO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-618.0	CARBONDALE	BRIAR HILL	COAL	-	1003.0	
-667.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1052.0	
-777.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1162.0	

MAPID: 19101899000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 5 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE NW
QUADRANGLE: ALBION NW **LONGITUDE:** -88.234332 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.381887 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 379.0 **LOGGED (FT.):** 3417.0 **LOG TYPE:** Electric Log
SOURCE: COLLINS BROTHERS OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-637.0	CARBONDALE	BRIAR HILL	COAL	-	1016.0	
-676.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1055.0	
-789.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1168.0	

MAPID: 19103848000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NE
QUADRANGLE: ALBION NW **LONGITUDE:** -88.241196 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.381899 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 377.0 **LOGGED (FT.):** 3405.0 **LOG TYPE:** Electric Log
SOURCE: GEORGE & WRATHER OIL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-641.0	CARBONDALE	BRIAR HILL	COAL	-	1018.0	
-677.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1054.0	
-793.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1170.0	

MAPID: 19103094000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE SE
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.244039 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.362036 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 401.0 **LOGGED (FT.):** 3460.0 **LOG TYPE:** Electric Log
SOURCE: WINMAR OIL CO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-564.0	CARBONDALE	HERRIN	COAL	-	965.0	
-603.0	CARBONDALE	BRIAR HILL	COAL	-	1004.0	
-645.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1046.0	
-749.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1150.0	

MAPID: 19103362000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE SW
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.232405 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.361942 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 391.0 **LOGGED (FT.):** 1352.5 **LOG TYPE:** Electric Log
SOURCE: JOHNIE S CARTER DRLG CONT **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-859.0	CARBONDALE	COLCHESTER	COAL	0.5	1250.0	
-907.0	CARBONDALE	DEKOVEN	COAL	3.5	1298.0	
-957.0	CARBONDALE	DAVIS	COAL	4.5	1348.0	

MAPID: 19103589000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SW
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.234748 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.358345 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 381.0 **LOGGED (FT.):** 3275.0 **LOG TYPE:** Electric Log
SOURCE: CARTER DRLG., JOHNIE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-565.0	CARBONDALE	HERRIN	COAL	4.0	946.0	
-608.0	CARBONDALE	BRIAR HILL	COAL	-	989.0	
-656.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1037.0	
-769.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1150.0	

MAPID: 19103849000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NW
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.220761 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.370856 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 384.0 **LOGGED (FT.):** 3425.0 **LOG TYPE:** Electric Log
SOURCE: IL MID-CONTINENT OIL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-663.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1047.0	
-783.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1167.0	

MAPID: 19103614000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' N line, 380' W line
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.202349 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.370631 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 386.0 **LOGGED (FT.):** 3429.0 **LOG TYPE:** Electric Log
SOURCE: DAVIS ALVA C PETRO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-604.0	CARBONDALE	BRIAR HILL	COAL	-	990.0	
-657.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1043.0	
-772.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1158.0	

MAPID: 19101858000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 11 **QUARTERS/FOOTAGES:** 990' S line, 330' W line of SE SE
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.17056 **GEOLOGIST:** JACOBSON
CONFIDENTIAL: N **LATITUDE:** 38.359857 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 395.0 **LOGGED (FT.):** 1301.8 **LOG TYPE:** Electric Log
SOURCE: BENH NATION **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-825.0	CARBONDALE	COLCHESTER	COAL	0.5	1220.0	
-862.0	CARBONDALE	DEKOVEN	COAL	3.0	1257.0	
-900.0	CARBONDALE	LOWER DEKOVEN	COAL	1.3	1295.0	
-903.0	CARBONDALE	DAVIS	COAL	3.8	1298.0	

MAPID: 19103850000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NW SE
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.1728 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.361617 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 391.0 **LOGGED (FT.):** 3451.0 **LOG TYPE:** Electric Log
SOURCE: CARTER OIL COMPANY **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-592.0	CARBONDALE	BRIAR HILL	COAL	-	983.0	
-657.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1048.0	
-775.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1166.0	

MAPID: 19103851000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SE
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.154482 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.358191 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 407.0 **LOGGED (FT.):** 3428.0 **LOG TYPE:** Electric Log
SOURCE: IL MID-CONTINENT OIL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-658.0	CARBONDALE	SPRINGFIELD	COAL	-	1065.0	
-735.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1142.0	

MAPID: 19103854000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' S line, 330' W line
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.166185 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.343621 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 455.0 **LOGGED (FT.):** 3399.0 **LOG TYPE:** Electric Log
SOURCE: DAVIS ALVA C PETRO **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-487.0	CARBONDALE	HERRIN	COAL	4.0	942.0	
-713.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1168.0	

MAPID: 19101579000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SE
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.170689 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.348994 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 446.0 **LOGGED (FT.):** 3460.0 **LOG TYPE:** Electric Log
SOURCE: IN FARM BUR. COOP. ASSOC **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-524.0	CARBONDALE	HERRIN	COAL	4.0	970.0	
-564.0	CARBONDALE	BRIAR HILL	COAL	-	1010.0	
-649.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1095.0	
-744.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1190.0	

MAPID: 19103220000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.200404 **GEOLOGIST:** JACOBSON

CONFIDENTIAL: N **LATITUDE:** 38.35433 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 383.0 **LOGGED (FT.):** 1373.0 **LOG TYPE:** Electric Log

SOURCE: THE PURO OIL CO **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-904.0	CARBONDALE	COLCHESTER	COAL	0.5	1287.0	
-941.0	CARBONDALE	DEKOVEN	COAL	3.5	1324.0	
-981.0	CARBONDALE	LOWER DEKOVEN	COAL	1.3	1364.0	
-986.0	CARBONDALE	DAVIS	COAL	4.0	1369.0	

MAPID: 19103220000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.200404 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.35433 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 383.0 **LOGGED (FT.):** 3422.0 **LOG TYPE:** Electric Log

SOURCE: PURE OIL CO., THE **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-595.0	CARBONDALE	HERRIN	COAL	4.0	978.0	
-643.0	CARBONDALE	BRIAR HILL	COAL	-	1026.0	
-700.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1083.0	
-819.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1202.0	

MAPID: 19132248000C **VERSION:** 1 **PROJECT:** NCRDS99

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SW NW SW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.202793 **GEOLOGIST:** J MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.347145 **DATE COLLECTED:** 9 / 12 / 1984

SURFACE ELEVATION (FT.): 380.0 **LOGGED (FT.):** 1437.0 **LOG TYPE:** Multiple log types

SOURCE: EXXON EIBI-3 **WELL TYPE:** Coal Test

COMMENT: EXXON COAL QUALITY DATA-GEOPHYS. LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
380.0			UNCLASSIFIED	908.5	0.0	
-528.5	CARBONDALE	DANVILLE	COAL	1.8	908.5	
-530.3	CARBONDALE		ROCK	65.8	910.3	
-596.0	CARBONDALE	ANNA	SHALE	1.5	976.0	
-597.5	CARBONDALE	HERRIN	COAL	5.5	977.5	
-603.0	CARBONDALE		ROCK	31.0	983.0	
-634.0	CARBONDALE	BRIAR HILL	COAL	1.5	1014.0	
-635.5	CARBONDALE		ROCK	56.0	1015.5	
-691.5	CARBONDALE	SPRINGFIELD	COAL	6.0	1071.5	
-697.5	CARBONDALE		ROCK	117.0	1077.5	
-814.5	CARBONDALE	EXCELLO	SHALE	2.5	1194.5	
-817.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	1197.0	
-819.0	CARBONDALE		ROCK	72.5	1199.0	
-891.5	CARBONDALE	MECCA QUARRY	SHALE	2.0	1271.5	
-893.5	CARBONDALE	COLCHESTER	COAL	1.0	1273.5	
-894.5	CARBONDALE		ROCK	33.0	1274.5	
-927.5	CARBONDALE	DEKOVEN	COAL	3.0	1307.5	
-930.5	CARBONDALE		ROCK	34.8	1310.5	
-965.3	CARBONDALE	DAVIS	COAL	1.3	1345.3	
-966.5	CARBONDALE	DAVIS	ROCK	0.8	1346.5	PARTING IN COAL
-967.3	CARBONDALE	DAVIS	COAL	4.0	1347.3	
-971.3	TRADEWATER		ROCK	39.8	1351.3	
-1011.0	TRADEWATER		SHALE	1.5	1391.0	LOG TRACE SUGGEST CARBONACEOUS
-1012.5	TRADEWATER		COAL	2.0	1392.5	
-1014.5	TRADEWATER		ROCK	22.0	1394.5	
-1036.5	TRADEWATER		SHALE	5.5	1416.5	LOG TRACE SUGGESTS CARBONACEOUS
-1042.0	TRADEWATER		ROCK	15.0	1422.0	

MAPID: 19132248000C **VERSION:** 2 **PROJECT:** NCRDS94

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SW NW SW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.202793 **GEOLOGIST:** HOKE

CONFIDENTIAL: N **LATITUDE:** 38.347145 **DATE COLLECTED:** 9 / 10 / 1984

SURFACE ELEVATION (FT.): 380.0 **LOGGED (FT.):** 1450.0 **LOG TYPE:** Drillers Log

SOURCE: EXXON EIBI-3 **WELL TYPE:** Coal Test

COMMENT: GAMMA; DENSITY; RESIST. LOGS AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
380.0			UNCONSOLIDATED	10.0	0.0	
370.0			CLAY	15.0	10.0	
355.0			CLAY	25.0	25.0	
330.0			UNCONSOLIDATED	90.0	50.0	
240.0			GRAY SHALE	20.0	140.0	
220.0			BLACK SHALE	10.0	160.0	
210.0			GRAY SHALE	10.0	170.0	
200.0			SANDY SHALE	60.0	180.0	
140.0			SANDSTONE	5.0	240.0	
135.0			SILTY SHALE	25.0	245.0	
110.0			SANDY SHALE	40.0	270.0	
70.0			DARK GRAY SHALE	35.0	310.0	
35.0			BLACK SHALE	5.0	345.0	
30.0			SANDSTONE	5.0	350.0	
25.0			CALCAREOUS SHALE	5.0	355.0	
20.0			GRAY SHALE	15.0	360.0	
5.0			BLACK SHALE	7.0	375.0	
-2.0			SILTY SHALE	13.0	382.0	
-15.0			GRAY SHALE	65.0	395.0	
-80.0			SILTY SHALE	30.0	460.0	
-110.0			DARK GRAY SHALE	10.0	490.0	
-120.0			SANDSTONE	60.0	500.0	
-180.0			DARK GRAY SHALE	10.0	560.0	
-190.0			SANDSTONE	25.0	570.0	
-215.0			BLACK SHALE	5.0	595.0	
-220.0			SANDSTONE	10.0	600.0	
-230.0			SANDY SHALE	20.0	610.0	
-250.0			SANDSTONE	58.0	630.0	
-308.0			LIMESTONE	5.0	688.0	
-313.0			GRAY SHALE	2.0	693.0	
-315.0			LIMESTONE	5.0	695.0	
-320.0			UNDERCLAY	5.0	700.0	
-325.0			SILTY SHALE	5.0	705.0	
-330.0			SILTY SHALE	30.0	710.0	
-360.0			GRAY SHALE	30.0	740.0	
-390.0			SANDSTONE	30.0	770.0	
-420.0			SILTY SHALE	60.0	800.0	
-480.0			GRAY SHALE	20.0	860.0	
-500.0			DARK GRAY SHALE	25.0	880.0	

-525.0			DARK GRAY SHALE	5.9	905.0	
-530.9	CARBONDALE	DANVILLE	COAL	2.7	910.9	
-533.6	CARBONDALE		UNDERCLAY	0.9	913.6	
-534.5	CARBONDALE		UNDERCLAY	8.3	914.5	
-542.8	CARBONDALE		DARK GRAY SHALE	0.4	922.8	
-543.2	CARBONDALE		DARK GRAY SHALE	1.4	923.2	
-544.5	CARBONDALE		DARK GRAY SHALE	1.3	924.5	
-545.8	CARBONDALE		SANDSTONE	2.1	925.8	
-547.8	CARBONDALE		DARK GRAY SHALE	5.0	927.8	
-552.8	CARBONDALE		DARK GRAY SHALE	3.5	932.8	
-556.3	CARBONDALE		UNCLASSIFIED	0.6	936.3	CORE LOSS
-556.8	CARBONDALE		DARK GRAY SHALE	0.1	936.8	
-556.9	CARBONDALE		DARK GRAY SHALE	0.2	936.9	DGY SH W/ CO STREAKS
-557.1	CARBONDALE		CLAYSTONE & SILTSTONE	1.3	937.1	DGY ST; DGY
-558.3	CARBONDALE		CLAYSTONE & SILTSTONE	1.9	938.3	
-560.2	CARBONDALE		CLAYSTONE & SILTSTONE	2.7	940.2	
-562.9	CARBONDALE		LIMESTONE	2.1	942.9	
-565.0	CARBONDALE		CALCAREOUS SHALE	0.2	945.0	
-565.2	CARBONDALE		CALCAREOUS SHALE	0.2	945.2	
-565.4	CARBONDALE		SANDSTONE	2.7	945.4	
-568.1	CARBONDALE		SANDSTONE	5.1	948.1	INTERBEDDED SS AND SH
-573.1	CARBONDALE		DARK GRAY SHALE	2.8	953.1	
-575.9	CARBONDALE		DARK GRAY SHALE	1.1	955.9	SH AND SS INTERBEDDED
-577.0	CARBONDALE		SANDSTONE	1.7	957.0	SS W/ SH STREAKS
-578.7	CARBONDALE		DARK GRAY SHALE	9.3	958.7	SH AND SS INTERBEDDED
-588.0	CARBONDALE		DARK GRAY SHALE	3.0	968.0	DGY SH W/ SS STREAKS
-591.0	CARBONDALE		UNCLASSIFIED	1.0	971.0	CORE LOSS
-592.0	CARBONDALE		DARK GRAY SHALE	2.8	972.0	
-594.8	CARBONDALE		CALCAREOUS SHALE	0.4	974.8	
-595.2	CARBONDALE		UNCLASSIFIED	0.5	975.2	PYRITE BAND
-595.6	CARBONDALE	ANNA	BLACK SHALE	0.7	975.6	
-596.3	CARBONDALE	ANNA	BLACK SHALE	2.7	976.3	
-599.0	CARBONDALE	ANNA	BLACK SHALE	2.0	979.0	
-601.0	CARBONDALE	HERRIN	COAL	4.7	981.0	
-605.7	CARBONDALE		UNDERCLAY	0.3	985.7	
-606.0	CARBONDALE		UNDERCLAY	3.5	986.0	
-609.5	CARBONDALE		UNCLASSIFIED	0.5	989.5	CORE LOSS
-610.0	CARBONDALE		UNDERCLAY	5.0	990.0	
-615.0	CARBONDALE		GRAY SHALE	10.0	995.0	
-625.0	CARBONDALE		SANDSTONE	20.0	1005.0	
-645.0	CARBONDALE		GRAY SHALE	5.0	1025.0	
-650.0	CARBONDALE		BLACK SHALE	5.0	1030.0	
-655.0	CARBONDALE		GRAY SHALE	25.0	1035.0	
-680.0	CARBONDALE		GRAY SHALE	14.3	1060.0	
-694.3	CARBONDALE	SPRINGFIELD	COAL	4.6	1074.3	
-698.8	CARBONDALE		UNCLASSIFIED	0.4	1078.8	CORE LOSS
-699.3	CARBONDALE		UNDERCLAY	3.8	1079.3	

-703.0	CARBONDALE		CALCAREOUS SHALE	3.5	1083.0	
-706.5	CARBONDALE		SANDY SHALE	2.5	1086.5	
-709.0	CARBONDALE		CALCAREOUS SHALE	0.6	1089.0	
-709.6	CARBONDALE		CALCAREOUS SHALE	0.5	1089.6	
-710.0	CARBONDALE		SILTY SHALE	35.0	1090.0	
-745.0	CARBONDALE		GRAY SHALE	75.0	1125.0	
-820.0	CARBONDALE	HOUCHIN CREEK	COAL	10.0	1200.0	
-830.0			UNDERCLAY	10.0	1210.0	
-840.0			SANDSTONE	20.0	1220.0	
-860.0			DARK GRAY SHALE	15.0	1240.0	
-875.0			CALCAREOUS SHALE	5.0	1255.0	
-880.0			DARK GRAY SHALE	18.0	1260.0	
-898.0			COAL	2.0	1278.0	
-900.0			SANDSTONE	39.0	1280.0	
-939.0			COAL	1.0	1319.0	
-940.0			SANDSTONE	10.0	1320.0	
-950.0			DARK GRAY SHALE	12.0	1330.0	
-962.0			DARK GRAY SHALE	3.3	1342.0	
-965.3			BLACK SHALE	1.2	1345.3	
-966.5			DARK GRAY SHALE	0.8	1346.5	
-967.2			UNCLASSIFIED	1.4	1347.2	CORE LOSS
-968.6			DARK GRAY SHALE	0.5	1348.6	
-969.1	SPOON	DAVIS	COAL	5.3	1349.1	
-974.4			UNDERCLAY	1.6	1354.4	
-976.0			UNDERCLAY	0.6	1356.0	
-976.6			GRAY SILTSTONE	2.2	1356.6	
-978.8			GRAY SHALE	1.4	1358.8	
-980.1			SANDSTONE	1.3	1360.1	
-981.4			GRAY SILTSTONE	2.7	1361.4	
-984.1			GRAY SHALE	1.9	1364.1	
-986.0			SANDY SHALE	0.5	1366.0	
-986.5			SANDSTONE	0.2	1366.5	SS W/ THIN SH STREAKS
-986.6			SANDSTONE	0.4	1366.6	
-987.0			GRAY SHALE	23.0	1367.0	
-1010.0			BLACK SHALE	10.0	1390.0	
-1020.0			BLACK SHALE	20.0	1400.0	
-1040.0			BLACK SHALE	10.0	1420.0	
-1050.0			GRAY SHALE	10.0	1430.0	
-1060.0			GRAY SHALE	10.0	1440.0	

MAPID: 19103856000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE NW
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.216464 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.352726 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 376.0 **LOGGED (FT.):** 3390.0 **LOG TYPE:** Electric Log
SOURCE: IL MID-CONTINENT OIL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-587.0	CARBONDALE	HERRIN	COAL	4.0	963.0	
-628.0	CARBONDALE	BRIAR HILL	COAL	-	1004.0	
-684.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1060.0	
-799.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1175.0	

MAPID: 19103500000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.232653 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.343995 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 398.0 **LOGGED (FT.):** 3414.0 **LOG TYPE:** Electric Log
SOURCE: ATHENE DEV. CO., INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-580.0	CARBONDALE	HERRIN	COAL	4.0	978.0	
-620.0	CARBONDALE	BRIAR HILL	COAL	-	1018.0	
-674.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1072.0	
-786.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1184.0	

MAPID: 19100226000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' S line, 735' E line of NW SE
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.247958 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.347669 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 468.0 **LOGGED (FT.):** 3510.0 **LOG TYPE:** Electric Log
SOURCE: NEW PENN DLPMNT CORP **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-581.0	CARBONDALE	HERRIN	COAL	4.0	1049.0	
-622.0	CARBONDALE	BRIAR HILL	COAL	-	1090.0	
-668.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1136.0	
-782.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1250.0	

MAPID: 19103857000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SE
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.244326 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.335066 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 484.0 **LOGGED (FT.):** 3465.0 **LOG TYPE:** Electric Log
SOURCE: ALLEN BROTHERS **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-601.0	CARBONDALE	HERRIN	COAL	5.0	1085.0	
-643.0	CARBONDALE	BRIAR HILL	COAL	-	1127.0	
-693.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1177.0	
-804.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1288.0	

MAPID: 19103729000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 20 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SE
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.23046 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.333219 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 387.0 **LOGGED (FT.):** 3365.0 **LOG TYPE:** Electric Log
SOURCE: JENKINS, GORDON T. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-555.0	CARBONDALE	HERRIN	COAL	5.0	942.0	
-593.0	CARBONDALE	BRIAR HILL	COAL	-	980.0	
-653.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1040.0	
-763.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1150.0	

MAPID: 19103409000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW SW
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.219046 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.334846 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 382.0 **LOGGED (FT.):** 3390.0 **LOG TYPE:** Electric Log
SOURCE: N V DUNCAN DRILLING **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-536.0	CARBONDALE	HERRIN	COAL	4.0	918.0	
-578.0	CARBONDALE	BRIAR HILL	COAL	-	960.0	
-636.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1018.0	
-753.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1135.0	

MAPID: 19103859000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 22 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NW
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.198347 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.336327 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 390.0 **LOGGED (FT.):** 3361.0 **LOG TYPE:** Electric Log
SOURCE: ROBINSON EDWARD T **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-527.0	CARBONDALE	HERRIN	COAL	3.0	917.0	
-565.0	CARBONDALE	BRIAR HILL	COAL	-	955.0	
-623.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1013.0	
-745.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1135.0	

MAPID: 19103861000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 23 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.177747 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.334557 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 401.0 **LOGGED (FT.):** 3307.0 **LOG TYPE:** Electric Log
SOURCE: SHURE OIL CORP. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-507.0	CARBONDALE	HERRIN	COAL	4.0	908.0	
-709.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1110.0	

MAPID: 19103863000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 24 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NE
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.152523 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.336538 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 434.0 **LOGGED (FT.):** 3447.0 **LOG TYPE:** Electric Log
SOURCE: DUNCAN, N. V., EST. OF **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-474.0	CARBONDALE	HERRIN	COAL	3.0	908.0	
-706.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1140.0	

MAPID: 19101862000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' N line, 330' E line

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.150499 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.327516 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 414.0 **LOGGED (FT.):** 3410.0 **LOG TYPE:** Electric Log

SOURCE: TIDEWATER OIL CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-499.0	CARBONDALE	HERRIN	COAL	3.0	913.0	
-539.0	CARBONDALE	BRIAR HILL	COAL	-	953.0	
-606.0	CARBONDALE	SPRINGFIELD	COAL	8.0	1020.0	
-708.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1122.0	

MAPID: 19128602000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 25 **QUARTERS/FOOTAGES:**

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.158536 **GEOLOGIST:** PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.321168 **DATE COLLECTED:** 3 / 27 / 1975

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 1295.0 **LOG TYPE:** Other Core Study

SOURCE: AMAX C.C. C1-123 **WELL TYPE:** Coal Test

COMMENT: NO ELEVATION GIVEN; DRILLER LOG INCLUDED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	4.4	910.1	
-	SPOON	SEELYVILLE	COAL	6.0	1287.2	

MAPID: 19190026000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 25 **QUARTERS/FOOTAGES:** NE SW SW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.163326 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.316698 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 415.7 **LOGGED (FT.):** 1332.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-123 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
415.7			UNCLASSIFIED	850.0	0.0	THICK FROM G-N LOG
-434.3	CARBONDALE	DANVILLE	COAL	2.0	850.0	THICK FROM G-N LOG
-436.3	CARBONDALE		UNCLASSIFIED	53.9	852.0	THICK FROM G-N LOG
-490.2	CARBONDALE		BLACK SHALE	0.3	905.9	THICK FROM DRILLER'S LOG
-490.5	CARBONDALE		FOSSILIFEROUS SHALE	1.0	906.2	THICK FROM DRILLER'S LOG
-491.5	CARBONDALE	BRERETON	LIMESTONE	4.0	907.2	THICK FROM DRILLER'S LOG
-495.5	CARBONDALE	ANNA	BLACK SHALE	0.8	911.2	THICK FROM DRILLER'S LOG
-496.3	CARBONDALE	HERRIN	COAL	3.4	912.0	THICK FROM DRILLER'S LOG
-499.7	CARBONDALE	HERRIN	GRAY SHALE	0.1	915.4	THICK FROM DRILLER'S LOG
-499.8	CARBONDALE	HERRIN	COAL	0.8	915.5	THICK FROM DRILLER'S LOG
-500.6	CARBONDALE		CLAYSTONE	1.6	916.3	THICK FROM DRILLER'S LOG
-502.2	CARBONDALE		SILTSTONE	3.7	917.9	THICK FROM DRILLER'S LOG
-505.9	CARBONDALE		UNCLASSIFIED	22.4	921.6	THICK FROM G-R LOG
-528.3	CARBONDALE	BRIAR HILL	COAL	1.0	944.0	THICK FROM G-R LOG
-529.3	CARBONDALE		UNCLASSIFIED	47.9	945.0	THICK FROM G-R LOG
-577.2	CARBONDALE	SPRINGFIELD	COAL	0.1	992.9	GALATIA CHANNEL-COAL MISSING
-577.2	CARBONDALE		GRAY SHALE	19.6	992.9	THICK FROM DRILLER'S LOG
-596.8	CARBONDALE		SANDSTONE	1.1	1012.5	THICK FROM DRILLER'S LOG
-597.9	CARBONDALE		SANDSTONE/SHALE	8.0	1013.6	THICK FROM DRILLER'S LOG
-605.9	CARBONDALE		SANDSTONE	2.0	1021.6	THICK FROM DRILLER'S LOG
-607.9	CARBONDALE		GRAY SHALE	14.5	1023.6	THICK FROM DRILLER'S LOG
-622.4	CARBONDALE		SANDSTONE	6.1	1038.1	THICK FROM DRILLER'S LOG
-628.5	CARBONDALE		UNCLASSIFIED	34.8	1044.2	THICK FROM DRILLER'S LOG
-663.3	CARBONDALE		COAL	1.5	1079.0	THICK FROM G-R LOG
-664.8	CARBONDALE		UNCLASSIFIED	64.0	1080.5	THICK FROM G-R
-728.8	CARBONDALE	EXCELLO	BLACK SHALE	2.5	1144.5	THICK FROM G-R LOG
-731.3	CARBONDALE	HOUCHIN CREEK	COAL	2.0	1147.0	THICK FROM G-R LOG
-733.3	CARBONDALE		UNCLASSIFIED	55.0	1149.0	THICK FROM G-R LOG
-788.3	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	1204.0	THICK FROM G-R LOG
-790.3	CARBONDALE	COLCHESTER	COAL	1.2	1206.0	THICK FROM G-R LOG
-791.5	CARBONDALE		UNCLASSIFIED	34.8	1207.2	THICK FROM G-R LOG
-826.3	CARBONDALE	DEKOVEN	COAL	3.0	1242.0	THICK FROM G-R LOG
-829.3	CARBONDALE		UNCLASSIFIED	37.8	1245.0	THICK FROM G-R LOG
-867.1	CARBONDALE		SANDSTONE	6.3	1282.8	THICK FROM DRILLER'S LOG
-873.4	CARBONDALE		GRAY SHALE	2.9	1289.1	THICK FROM DRILLER'S LOG
-876.3	CARBONDALE	LOWER DEKOVEN	COAL	1.3	1292.0	THICK FROM DRILLER'S LOG

-877.7	CARBONDALE	LOWER DEKOVEN	PYRITE	0.1	1293.4	THICK FROM DRILLER'S LOG
-877.8	CARBONDALE	LOWER DEKOVEN	COAL	0.1	1293.5	THICK FROM DRILLER'S LOG
-877.9	CARBONDALE	LOWER DEKOVEN	PYRITE	0.0	1293.6	THICK FROM DRILLER'S LOG
-877.9	CARBONDALE	LOWER DEKOVEN	COAL	0.5	1293.6	THICK FROM DRILLER'S LOG
-878.4	CARBONDALE		BLACK SHALE	0.3	1294.1	THICK FROM DRILLER'S LOG
-878.7	CARBONDALE	DAVIS	COAL	3.3	1294.4	THICK FROM DRILLER'S LOG
-882.0			GRAY SHALE	2.0	1297.7	THICK FROM DRILLER'S LOG
-884.0			UNCLASSIFIED	32.3	1299.7	

MAPID: 19103865000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.171193 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.314842 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 391.0 **LOGGED (FT.):** 3094.0 **LOG TYPE:** Electric Log

SOURCE: TOLER, W. W. DRLG. CORP. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-497.0	CARBONDALE	HERRIN	COAL	3.0	888.0	
-529.0	CARBONDALE	BRIAR HILL	COAL	-	920.0	
-582.0	CARBONDALE	SPRINGFIELD	COAL	7.0	973.0	
-712.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1103.0	

MAPID: 19132039000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 26 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.168899 **GEOLOGIST:** JACOBSON

CONFIDENTIAL: N **LATITUDE:** 38.316635 **DATE COLLECTED:** 12 / 22 / 1991

SURFACE ELEVATION (FT.): 405.0 **LOGGED (FT.):** 1285.8 **LOG TYPE:** Nuclear Log

SOURCE: TODOR, HOWARD S OIL CO **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
405.0			UNKNOWN	1186.0	0.0	
-781.0	CARBONDALE	COLCHESTER	COAL	0.5	1186.0	
-781.5	CARBONDALE		UNKNOWN	35.5	1186.5	
-817.0	CARBONDALE	DEKOVEN	COAL	3.5	1222.0	
-820.5	CARBONDALE		UNKNOWN	49.5	1225.5	
-870.0	CARBONDALE	LOWER DEKOVEN	COAL	1.3	1275.0	
-871.3	CARBONDALE		UNKNOWN	3.7	1276.3	
-875.0	CARBONDALE	DAVIS	COAL	5.8	1280.0	

MAPID: 19101615000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 27 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.196191 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.327287 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 410.0 **LOGGED (FT.):** 3382.0 **LOG TYPE:** Electric Log

SOURCE: BAINES, DON DRLG. CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-499.0	CARBONDALE	HERRIN	COAL	4.0	909.0	
-540.0	CARBONDALE	BRIAR HILL	COAL	-	950.0	
-604.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1014.0	
-726.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1136.0	

MAPID: 19128603000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 27 **QUARTERS/FOOTAGES:** SW NE NE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.195109 **GEOLOGIST:** PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.321079 **DATE COLLECTED:** 4 / 3 / 1975

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 1345.0 **LOG TYPE:** Other Core Study

SOURCE: AMAX C.C. C1-125 **WELL TYPE:** Coal Test

COMMENT: NO ELEV. GIVEN; DRLRS LOG, GAMMA/NEUTRON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	4.6	923.2	
-	CARBONDALE	SPRINGFIELD	COAL	4.8	1022.3	
-	SPOON	SEELYVILLE	COAL WITH SHALE	8.8	1299.4	SPLIT BY 2.3' SHALE

MAPID: 19190021000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 27 **QUARTERS/FOOTAGES:** 39' N line, 646' W line of NW NW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.202006 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.328079 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 422.5 **LOGGED (FT.):** 1345.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-122 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
422.5			UNCLASSIFIED	878.0	0.0	THICK FROM G-R LOG
-455.5	CARBONDALE	DANVILLE	COAL	3.0	878.0	THICK FROM G-R LOG
-458.5	CARBONDALE		UNCLASSIFIED	43.9	881.0	THICK FROM G-R LOG
-502.4	CARBONDALE	ANNA	BLACK SHALE	3.1	924.9	THICKNESS FROM DRILLERS LOG
-505.5	CARBONDALE	HERRIN	BONE COAL	0.7	928.0	THICK FROM DRILLER'S LOG
-506.2	CARBONDALE	HERRIN	COAL	0.9	928.7	THICK FROM DRILLER'S LOG
-507.1	CARBONDALE	HERRIN	PYRITE	0.0	929.6	THICK FROM DRILLER'S LOG
-507.1	CARBONDALE	HERRIN	COAL	1.2	929.6	THICK FROM DRILLER'S LOG
-508.3	CARBONDALE	HERRIN	GRAY SHALE	0.2	930.8	THICK FROM DRILLER'S LOG
-508.5	CARBONDALE	HERRIN	COAL	0.5	931.0	THICK FROM DRILLER'S LOG
-509.0	CARBONDALE	HERRIN	PYRITE	0.1	931.5	NODULE; THICK FROM DRILLER'S LOG
-509.1	CARBONDALE	HERRIN	COAL	0.6	931.6	THICK FROM DRILLER'S LOG
-509.7	CARBONDALE		CLAYSTONE	3.5	932.2	THICKNESS FROM DRILLERS LOG
-513.2	CARBONDALE	HIGGINSVILLE	LIMESTONE	1.1	935.7	THICK FROM DRILLER'S LOG
-514.3	CARBONDALE		UNCLASSIFIED	28.2	936.8	THICK FROM G-R LOG
-542.5	CARBONDALE	BRIAR HILL	COAL	1.0	965.0	THICK FROM G-R LOG
-543.5	CARBONDALE		UNCLASSIFIED	2.0	966.0	THICK FROM G-R LOG
-545.5	CARBONDALE	DYKERSBURG	SILTSTONE	57.0	968.0	THICK FROM G-R LOG
-602.5	CARBONDALE	SPRINGFIELD	COAL	0.2	1025.0	THICK FROM DRILLER'S LOG
-602.7	CARBONDALE	SPRINGFIELD	PYRITE	0.0	1025.2	BAND; THICK FROM DRILLER'S LOG
-602.7	CARBONDALE	SPRINGFIELD	COAL	4.4	1025.2	THICK FROM DRILLER'S LOG
-607.1	CARBONDALE		CLAYSTONE	2.6	1029.6	THICK FROM DRILLER'S LOG
-609.7	CARBONDALE		LIMESTONE	2.5	1032.2	THICK FROM DRILLER'S LOG
-612.2	CARBONDALE		UNCLASSIFIED	114.3	1034.7	THICK FROM G-R LOG
-726.5	CARBONDALE	EXCELLO	BLACK SHALE	3.0	1149.0	THICK FROM G-R LOG
-729.5	CARBONDALE	HOUCHIN CREEK	COAL	2.0	1152.0	THICK FROM G-R LOG
-731.5	CARBONDALE		UNCLASSIFIED	65.0	1154.0	THICK FROM G-R LOG
-796.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	1219.0	THICK FROM G-R LOG
-798.5	CARBONDALE	COLCHESTER	COAL	2.0	1221.0	THICK FROM G-R LOG
-800.5	CARBONDALE		UNCLASSIFIED	33.0	1223.0	THICK FROM G-R LOG
-833.5	CARBONDALE	DEKOVEN	COAL	3.0	1256.0	THICK FROM G-R LOG
-836.5	CARBONDALE		UNCLASSIFIED	36.9	1259.0	THICK FROM G-R LOG
-873.4	CARBONDALE		GRAY SHALE	3.1	1295.9	THICK FROM DRILLER'S LOG
-876.5	CARBONDALE	DAVIS	COAL	5.6	1299.0	THICK FROM DRILLER'S LOG
-882.1	TRADEWATER		BLACK SHALE	0.5	1304.6	THICK FROM DRILLER'S LOG
-882.6	TRADEWATER		CLAYSTONE	1.3	1305.1	THICK FROM DRILLER'S LOG

-883.9	TRADEWATER	SILTSTONE	2.6	1306.4	THICK FROM DRILLER'S LOG
-886.5	TRADEWATER	UNCLASSIFIED	36.0	1309.0	THICK FROM DRILLER'S LOG

MAPID: 19190022000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 27 **QUARTERS/FOOTAGES:** SW NE NE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.190296 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.32634 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 411.6 **LOGGED (FT.):** 1345.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-125 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
411.6			UNCLASSIFIED	859.0	0.0	THICK FROM G-R LOG
-447.4	CARBONDALE	DANVILLE	COAL	2.0	859.0	THICK FROM G-R LOG
-449.4	CARBONDALE		UNCLASSIFIED	44.8	861.0	THICK FROM G-R LOG
-494.2	CARBONDALE		GRAY SHALE	8.9	905.8	THICK FROM DRILLER'S LOG
-503.1	CARBONDALE	BRERETON	LIMESTONE	1.2	914.7	THICK FROM DRILLER'S LOG
-504.3	CARBONDALE	ANNA	BLACK SHALE	3.1	915.9	THICK FROM DRILLER'S LOG
-507.4	CARBONDALE	HERRIN	COAL	3.1	919.0	THICK FROM DRILLER'S LOG
-510.5	CARBONDALE	HERRIN	COAL	0.2	922.1	THICK FROM DRILLER'S LOG
-510.7	CARBONDALE	HERRIN	COAL	0.1	922.3	THICK FROM DRILLER'S LOG
-510.8	CARBONDALE	HERRIN	PYRITE	0.1	922.4	THICK FROM DRILLER'S LOG
-510.9	CARBONDALE	HERRIN	COAL	0.5	922.5	THICK FROM DRILLER'S LOG
-511.4	CARBONDALE	HERRIN	PYRITE	0.1	923.0	THICK FROM DRILLER'S LOG
-511.5	CARBONDALE	HERRIN	COAL	0.4	923.1	THICK FROM DRILLER'S LOG
-511.9	CARBONDALE		CLAYSTONE	1.4	923.5	THICK FROM DRILLER'S LOG
-513.3	CARBONDALE		UNCLASSIFIED	31.1	924.9	THICK FROM G-R LOG
-544.4	CARBONDALE	BRIAR HILL	COAL	1.5	956.0	THICK FROM G-R LOG
-545.9	CARBONDALE		UNCLASSIFIED	2.5	957.5	THICK FROM G-R LOG
-548.4	CARBONDALE	DYKERSBURG	SHALE	58.0	960.0	THICK FROM G-R LOG
-606.4	CARBONDALE	SPRINGFIELD	COAL	5.0	1018.0	THICK FROM G-R LOG
-611.4	CARBONDALE		UNCLASSIFIED	122.0	1023.0	THICK FROM G-R LOG
-733.4	CARBONDALE	EXCELLO	BLACK SHALE	2.0	1145.0	THICK FROM G-R LOG
-735.4	CARBONDALE	HOUCHIN CREEK	COAL	2.2	1147.0	THICK FROM G-R LOG
-737.6	CARBONDALE		UNCLASSIFIED	110.8	1149.2	THICK FROM G-R LOG
-848.4	CARBONDALE	DEKOVEN	COAL	2.0	1260.0	THICK FROM G-R LOG
-850.4	CARBONDALE		UNCLASSIFIED	27.6	1262.0	THICK FROM G-R LOG
-878.0	CARBONDALE		GRAY SHALE	8.4	1289.6	THICK FROM DRILLER'S LOG
-886.4	CARBONDALE	LOWER DEKOVEN	COAL	1.4	1298.0	THICK FROM DRILLER'S LOG
-887.8	CARBONDALE		BLACK SHALE	2.3	1299.4	THICK FROM DRILLER'S LOG
-890.1	CARBONDALE	DAVIS	COAL	1.5	1301.7	THICK FROM DRILLER'S LOG
-891.6	CARBONDALE	DAVIS	PYRITE	0.0	1303.2	THICK FROM DRILLER'S LOG
-891.6	CARBONDALE	DAVIS	COAL	2.6	1303.2	THICK FROM DRILLER'S LOG
-894.2	CARBONDALE	DAVIS	PYRITE	0.1	1305.8	THICK FROM DRILLER'S LOG
-894.3	CARBONDALE	DAVIS	BONE COAL	0.7	1305.9	THICK FROM DRILLER'S LOG
-895.0	TRADEWATER		CLAYSTONE	1.2	1306.6	THICK FROM DRILLER'S LOG
-896.2	TRADEWATER		CLAYSTONE	37.2	1307.8	THICK FROM DRILLER'S LOG

MAPID: 19103390000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 28 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.219218 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.32405 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 376.0 **LOGGED (FT.):** 3337.0 **LOG TYPE:** Electric Log

SOURCE: NATION OIL CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-530.0	CARBONDALE	HERRIN	COAL	4.0	906.0	
-574.0	CARBONDALE	BRIAR HILL	COAL	-	950.0	
-637.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1013.0	
-762.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1138.0	

MAPID: 19100528000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 29 **QUARTERS/FOOTAGES:** 510' S line, 660' W line of NW SE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.229562 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.319244 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 386.0 **LOGGED (FT.):** 3380.0 **LOG TYPE:** Electric Log

SOURCE: NEW PENN DLPMNT CORP **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-535.0	CARBONDALE	HERRIN	COAL	4.0	921.0	
-574.0	CARBONDALE	BRIAR HILL	COAL	-	960.0	
-634.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1020.0	
-758.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1144.0	

MAPID: 19100528000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 29 **QUARTERS/FOOTAGES:** 510' S line, 660' W line of NW SE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.229562 **GEOLOGIST:** HINES

CONFIDENTIAL: N **LATITUDE:** 38.319244 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3380.0 **LOG TYPE:** Survey Sample Study

SOURCE: NEW PENN DLPMNT CORP **WELL TYPE:** Oil and Gas Test

COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 19100528000C **VERSION:** 4 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 29 **QUARTERS/FOOTAGES:** 510' S line, 660' W line of NW SE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.229562 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.319244 **DATE COLLECTED:** 5 / 0 / 1943

SURFACE ELEVATION (FT.): 386.0 **LOGGED (FT.):** 966.0 **LOG TYPE:** Survey Sample Study

SOURCE: NEW PENN DEV. CO 1 **WELL TYPE:** Producer-Oil and Gas

COMMENT: COAL DIVISION CONTROL WELL #139

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
386.0			UNKNOWN	195.0	0.0	
191.0			SILTSTONE	6.0	195.0	
185.0			SHALE	6.0	201.0	
179.0			LIMESTONE	1.0	207.0	
178.0			SHALE	13.0	208.0	
165.0			BLACK SHALE	2.0	221.0	
163.0			COAL	1.0	223.0	APPROXIMATE THICKNESS
162.0			SHALE	7.0	224.0	
155.0			SILTSTONE	51.0	231.0	
104.0			SHALE	9.0	282.0	
95.0			BLACK SHALE	1.0	291.0	
94.0			COAL	4.0	292.0	APPROXIMATE THICKNESS
90.0			UNDERCLAY	2.0	296.0	
88.0			SHALE	2.0	298.0	
86.0			LIMESTONE	1.0	300.0	
85.0			SHALE	11.0	301.0	
74.0			BLACK SHALE	1.0	312.0	
73.0			COAL	4.0	313.0	
69.0			UNDERCLAY	2.0	317.0	
67.0			LIMESTONE	1.0	319.0	
66.0			COAL	4.0	320.0	APPROXIMATE THICKNESS
62.0			UNDERCLAY	4.0	324.0	
58.0			SILTSTONE	12.0	328.0	
46.0			SHALE	7.0	340.0	STREAK OF COAL
39.0			SANDSTONE	1.0	347.0	
38.0			SHALE	2.0	348.0	
36.0			SILTSTONE	5.0	350.0	
31.0			SHALE	6.0	355.0	
25.0			BLACK SHALE	3.0	361.0	
22.0			COAL	5.0	364.0	APPROXIMATE THICKNESS
17.0			UNDERCLAY	3.0	369.0	
14.0			SILTSTONE	13.0	372.0	
1.0			SHALE	60.0	385.0	COAL STREAK AT 428'
-59.0			SILTY SANDSTONE	47.0	445.0	
-106.0			SILTY SHALE	43.0	492.0	
-149.0			BLACK SHALE	2.0	535.0	
-151.0			COAL	4.0	537.0	
-155.0			UNDERCLAY	1.0	541.0	
-156.0			SHALE	14.0	542.0	

-170.0			SILTSTONE	10.0	556.0	
-180.0			SANDSTONE/SILTSTONE	69.0	566.0	
-249.0			LIMESTONE	1.0	635.0	
-250.0			SANDSTONE	4.0	636.0	
-254.0			SHALE	2.0	640.0	
-256.0			LIMESTONE	13.0	642.0	
-269.0			SHALE	4.0	655.0	
-273.0			SANDSTONE	11.0	659.0	
-284.0			NO RECORD	5.0	670.0	
-289.0			SILTSTONE	15.0	675.0	
-304.0			SHALE	10.0	690.0	
-314.0			NO RECORD	10.0	700.0	
-324.0			SHALE	5.0	710.0	
-329.0			NO RECORD	25.0	715.0	
-354.0			SILTSTONE	15.0	740.0	
-369.0			NO RECORD	5.0	755.0	
-374.0			SANDSTONE	5.0	760.0	
-379.0			SILTSTONE	5.0	765.0	
-384.0			SHALE	87.0	770.0	
-471.0	MODESTO		BLACK SHALE	1.0	857.0	
-472.0	CARBONDALE	DANVILLE	COAL	3.0	858.0	APPROXIMATE THICKNESS
-475.0	CARBONDALE		UNDERCLAY	1.0	861.0	
-476.0	CARBONDALE		SHALE	13.0	862.0	
-489.0	CARBONDALE		NO RECORD	10.0	875.0	
-499.0	CARBONDALE		SHALE	2.0	885.0	
-501.0	CARBONDALE		LIMESTONE	1.0	887.0	
-502.0	CARBONDALE		SHALE	3.0	888.0	
-505.0	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	891.0	
-508.0	CARBONDALE	ANVIL ROCK	SANDSTONE	16.0	894.0	
-524.0	CARBONDALE		SILTSTONE	7.0	910.0	
-531.0	CARBONDALE	BRERETON	LIMESTONE	3.0	917.0	
-534.0	CARBONDALE		SHALE	3.0	920.0	
-537.0	CARBONDALE	ANNA	BLACK SHALE	2.0	923.0	
-539.0	CARBONDALE	HERRIN	COAL	5.0	925.0	APPROXIMATE THICKNESS
-544.0	CARBONDALE		UNDERCLAY	2.0	930.0	
-546.0	CARBONDALE		LIMESTONE	4.0	932.0	
-550.0	CARBONDALE		SANDSTONE	30.0	936.0	

MAPID: 19132065000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 29 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.226136 **GEOLOGIST:** JACOBSON

CONFIDENTIAL: N **LATITUDE:** 38.320523 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 381.0 **LOGGED (FT.):** 1307.4 **LOG TYPE:** Nuclear Log

SOURCE: FARRAR OIL CO INC **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
381.0			UNKNOWN	1210.0	0.0	
-829.0	CARBONDALE	COLCHESTER	COAL	0.5	1210.0	
-829.5	CARBONDALE		UNKNOWN	48.5	1210.5	
-878.0	CARBONDALE	DEKOVEN	COAL	3.5	1259.0	
-881.5	CARBONDALE		UNKNOWN	39.5	1262.5	
-921.0	CARBONDALE	LOWER DEKOVEN	COAL	1.5	1302.0	
-922.5	CARBONDALE		UNKNOWN	0.5	1303.5	
-923.0	CARBONDALE	DAVIS	COAL	3.5	1304.0	

MAPID: 19103867000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 30 **QUARTERS/FOOTAGES:** 330' N line, 400' W line of SE SE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.244361 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.317059 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 388.0 **LOGGED (FT.):** 3391.0 **LOG TYPE:** Electric Log

SOURCE: MEALY & WOLFE **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-528.0	CARBONDALE	HERRIN	COAL	4.0	916.0	
-578.0	CARBONDALE	BRIAR HILL	COAL	-	966.0	
-636.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1024.0	
-748.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1136.0	

MAPID: 19103234000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 31 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NW
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.256455 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.308208 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 390.0 **LOGGED (FT.):** 3397.0 **LOG TYPE:** Electric Log
SOURCE: DUNCAN, N. V., EST. OF **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-524.0	CARBONDALE	HERRIN	COAL	3.0	914.0	
-567.0	CARBONDALE	BRIAR HILL	COAL	-	957.0	
-625.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1015.0	
-728.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1118.0	

MAPID: 19100553000C **VERSION:** 1 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 32 **QUARTERS/FOOTAGES:** 337' S line, 980' W line of NW SE
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.228563 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.30442 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3320.0 **LOG TYPE:** Survey Sample Study
SOURCE: NAT'L. REF. 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: 19103869000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 32 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SE
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.226255 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.300808 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 382.0 **LOGGED (FT.):** 3360.0 **LOG TYPE:** Electric Log
SOURCE: CITIES SERVICE OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-519.0	CARBONDALE	HERRIN	COAL	3.0	901.0	
-554.0	CARBONDALE	BRIAR HILL	COAL	-	936.0	
-616.0	CARBONDALE	SPRINGFIELD	COAL	3.0	998.0	
-728.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1110.0	

MAPID: 19101636000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 33 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.207878 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.307821 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 380.0 **LOGGED (FT.):** 3410.0 **LOG TYPE:** Electric Log

SOURCE: IL MID-CONTINENT OIL **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-505.0	CARBONDALE	HERRIN	COAL	3.0	885.0	
-537.0	CARBONDALE	BRIAR HILL	COAL	-	917.0	
-600.0	CARBONDALE	SPRINGFIELD	COAL	4.0	980.0	
-714.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1094.0	

MAPID: 19128604000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 33 **QUARTERS/FOOTAGES:** 2640' N line, 2640' E line

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.213647 **GEOLOGIST:** PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.306946 **DATE COLLECTED:** 4 / 3 / 1975

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 1308.0 **LOG TYPE:** Other Core Study

SOURCE: AMAX C.C. C1-126 **WELL TYPE:** Coal Test

COMMENT: DRILLERS LOG INCLUDED; GAMMA/NEUTRON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	4.9	903.9	
-	CARBONDALE	SPRINGFIELD	COAL	4.3	1002.2	
-	SPOON	SEELYVILLE	COAL	5.8	1285.7	

MAPID: 19190023000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 33 **QUARTERS/FOOTAGES:** 1' N line, 1' W line of NW SE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.213644 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.306944 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 380.0 **LOGGED (FT.):** 1308.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-126 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
380.0			UNCLASSIFIED	849.0	0.0	THICK FROM G-R LOG
-469.0	CARBONDALE	DANVILLE	COAL	3.0	849.0	THICK FROM G-R LOG
-472.0	CARBONDALE		UNCLASSIFIED	44.0	852.0	THICK FROM G-R LOG
-516.0	CARBONDALE	BRERETON	LIMESTONE	4.5	896.0	THICK FROM G-R LOG
-520.5	CARBONDALE	ANNA	BLACK SHALE	1.6	900.5	THICK FROM DRILLER'S LOG
-522.1	CARBONDALE	HERRIN	COAL	0.8	902.1	
-522.9	CARBONDALE	HERRIN	PYRITE	0.1	902.9	
-523.0	CARBONDALE	HERRIN	COAL	2.5	903.0	
-525.5	CARBONDALE	HERRIN	GRAY SHALE	0.1	905.5	
-525.6	CARBONDALE	HERRIN	COAL	1.4	905.6	THICK FROM DRILLER'S LOG
-527.0	CARBONDALE		CLAYSTONE	4.4	907.0	THICKNESS FROM DRILLERS LOG
-531.4	CARBONDALE		UNCLASSIFIED	25.8	911.4	THICK FROM G-R LOG
-557.2	CARBONDALE	BRIAR HILL	COAL	1.8	937.2	THICK FROM G-R LOG
-559.0	CARBONDALE		UNCLASSIFIED	5.0	939.0	THICK FROM G-R LOG
-564.0	CARBONDALE	DYKERSBURG	GRAY SHALE	56.2	944.0	THICK FROM G-R LOG
-620.2	CARBONDALE	SPRINGFIELD	COAL	4.3	1000.2	THICKNESS FORM DRILLERS LOG
-624.5	CARBONDALE		CLAYSTONE	2.9	1004.5	THICK FROM DRILLER'S LOG
-627.4	CARBONDALE		UNCLASSIFIED	118.6	1007.4	THICK FROM G-R LOG
-746.0	CARBONDALE	HOUCHIN CREEK	COAL	1.2	1126.0	THICK FROM G-R LOG
-747.2	CARBONDALE		UNCLASSIFIED	66.8	1127.2	THICK FROM G-R LOG
-814.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	1194.0	THICK FROM G-R LOG
-816.0	CARBONDALE	COLCHESTER	COAL	1.0	1196.0	THICK FROM G-R LOG
-817.0	CARBONDALE		UNCLASSIFIED	46.0	1197.0	THICK FROM G-R LOG
-863.0	CARBONDALE	DEKOVEN	COAL	3.0	1243.0	THICK FROM G-R LOG
-866.0	CARBONDALE		UNCLASSIFIED	20.3	1246.0	THICK FROM G-R LOG
-886.3	CARBONDALE		SANDSTONE	3.3	1266.3	THICK FROM G-R LOG
-889.6	CARBONDALE		GRAY SHALE	13.4	1269.6	THICK FROM DRILLER'S LOG
-903.0	CARBONDALE	LOWER DEKOVEN	COAL	0.9	1283.0	THICK FROM G-R LOG
-903.9	CARBONDALE		SHALE	1.3	1283.9	THICK FROM G-R LOG
-905.2	CARBONDALE	DAVIS	COAL	0.8	1285.2	THICK FROM DRILLER'S LOG
-906.0	CARBONDALE	DAVIS	PYRITE	0.0	1286.0	THICK FROM DRILLER'S LOG
-906.0	CARBONDALE	DAVIS	COAL	3.9	1286.0	THICK FROM DRILLER'S LOG
-909.9	TRADEWATER		CLAYSTONE	4.0	1289.9	THICK FROM DRILLER'S LOG
-913.9	TRADEWATER		GRAY SHALE	6.6	1293.9	THICK FROM DRILLER'S LOG
-920.5	TRADEWATER		SANDSTONE	1.2	1300.5	THICK FROM DRILLER'S LOG
-921.7	TRADEWATER		GRAY SHALE	4.7	1301.7	THICK FROM DRILLER'S LOG

-926.4	TRADEWATER	UNCLASSIFIED	1.6	1306.4	THICK FROM DRILLER'S LOG

MAPID: 19103031000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 34 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.201123 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.302339 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 381.0 **LOGGED (FT.):** 3374.0 **LOG TYPE:** Electric Log

SOURCE: BATEX OIL CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-497.0	CARBONDALE	HERRIN	COAL	4.0	878.0	
-537.0	CARBONDALE	BRIAR HILL	COAL	-	918.0	
-599.0	CARBONDALE	SPRINGFIELD	COAL	2.0	980.0	
-715.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1096.0	

MAPID: 19128661000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 34 **QUARTERS/FOOTAGES:** NE NW SE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.195321 **GEOLOGIST:** PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.306782 **DATE COLLECTED:** 4 / 18 / 1975

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 1323.0 **LOG TYPE:** Other Core Study

SOURCE: AMAX C.C. C1-130 **WELL TYPE:** Coal Test

COMMENT: DRILLERS LOG INCLUDED; GAMMA/NEUTRON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	5.0	908.4	
-	CARBONDALE	SPRINGFIELD	COAL	4.0	1005.9	
-	SPOON	SEELYVILLE	COAL	5.8	1282.1	

MAPID: 19190019000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 34 **QUARTERS/FOOTAGES:** NE NW SE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.190904 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.305713 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 381.9 **LOGGED (FT.):** 1323.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-130 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
381.9			UNCLASSIFIED	848.5	0.0	THICK FROM G-R LOG
-466.6	CARBONDALE	DANVILLE	COAL	1.5	848.5	THICK FROM G-R LOG
-468.1	CARBONDALE		UNCLASSIFIED	51.1	850.0	THICK FROM G-R LOG
-519.2	CARBONDALE		GRAY SHALE	1.6	901.1	THICK FROM DRILLER'S LOG
-520.8	CARBONDALE		LIMESTONE	0.3	902.7	THICK FROM DRILLER'S LOG
-521.1	CARBONDALE		CLAYSTONE	0.4	903.0	THICK FROM DRILLER'S LOG
-521.5	CARBONDALE		GRAY SHALE	1.2	903.4	THICK FROM DRILLER'S LOG
-522.7	CARBONDALE	BRERETON	LIMESTONE	2.4	904.6	THICK FROM DRILLER'S LOG
-525.1	CARBONDALE	ANNA	BLACK SHALE	1.3	907.0	THICK FROM DRILLER'S LOG
-526.4	CARBONDALE	HERRIN	BONE COAL	0.2	908.3	THICK FROM DRILLER'S LOG
-526.6	CARBONDALE	HERRIN	COAL	0.5	908.5	THICK FROM DRILLER'S LOG
-527.1	CARBONDALE	HERRIN	SHALE	0.1	909.0	THICK FROM DRILLER'S LOG
-527.2	CARBONDALE	HERRIN	COAL	2.6	909.1	THICK FROM DRILLER'S LOG
-529.8	CARBONDALE	HERRIN	GRAY SHALE	0.1	911.7	THICK FROM DRILLER'S LOG
-529.9	CARBONDALE	HERRIN	COAL	0.7	911.8	THICK FROM DRILLER'S LOG
-530.6	CARBONDALE	HERRIN	PYRITE	0.1	912.5	THICK FROM DRILLER'S LOG
-530.7	CARBONDALE	HERRIN	COAL	0.6	912.6	THICK FROM DRILLER'S LOG
-531.3	CARBONDALE		CLAYSTONE	3.3	913.2	THICK FROM DRILLER'S LOG
-534.6	CARBONDALE		UNCLASSIFIED	27.5	916.5	THICK FROM G-R LOG
-562.1	CARBONDALE	BRIAR HILL	COAL	1.5	944.0	THICK FROM G-R LOG
-563.6	CARBONDALE		UNCLASSIFIED	6.5	945.5	THICK FROM G-R LOG
-570.1	CARBONDALE	DYKERSBURG	GRAY SHALE	53.3	952.0	THICK FROM G-R LOG
-623.4	CARBONDALE		SANDSTONE	0.1	1005.3	MANY THIN CARB.LAMS
-623.5	CARBONDALE	SPRINGFIELD	COAL	4.0	1005.4	#5 MAY HAVE BEEN PARTIALLY REPL'D BY SS
-627.5	CARBONDALE		CLAYSTONE	4.0	1009.4	
-631.5	CARBONDALE		UNCLASSIFIED	113.3	1013.4	
-744.8	CARBONDALE	EXCELLO	BLACK SHALE	3.3	1126.7	THICK FROM G-R LOG
-748.1	CARBONDALE	HOUCHIN CREEK	COAL	3.2	1130.0	THICK FROM G-R LOG
-751.3	CARBONDALE		UNCLASSIFIED	63.3	1133.2	THICK FROM G-R LOG
-814.6	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.5	1196.5	THICK FROM G-R LOG
-816.1	CARBONDALE	COLCHESTER	COAL	2.0	1198.0	THICK FROM G-R LOG
-818.1	CARBONDALE		UNCLASSIFIED	31.0	1200.0	THICK FROM G-R LOG
-849.1	CARBONDALE	DEKOVEN	COAL	3.0	1231.0	THICK FROM G-R LOG
-852.1	CARBONDALE		UNCLASSIFIED	34.9	1234.0	THICK FROM G-R LOG
-887.0	CARBONDALE		GRAY SHALE	12.1	1268.9	THICK FROM DRILLER'S LOG
-899.1	CARBONDALE	LOWER DEKOVEN	COAL	1.4	1281.0	THICK FROM DRILLER'S LOG

-900.5	CARBONDALE		BLACK SHALE	0.2	1282.4	THICK FROM DRILLER'S LOG
-900.7	CARBONDALE	DAVIS	COAL	4.2	1282.6	THICK FROM DRILLER'S LOG
-904.9	TRADEWATER		CLAYSTONE	1.5	1286.8	THICK FROM DRILLER'S LOG
-906.4	TRADEWATER		UNCLASSIFIED	34.7	1288.3	THICK FROM DRILLER'S LOG

MAPID: 19101639000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 35 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.168963 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.313036 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 411.0 **LOGGED (FT.):** 3380.0 **LOG TYPE:** Electric Log

SOURCE: STANFORD OIL & GAS **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-509.0	CARBONDALE	HERRIN	COAL	2.0	920.0	
-544.0	CARBONDALE	BRIAR HILL	COAL	-	955.0	
-603.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1014.0	
-729.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1140.0	

MAPID: 19128605000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 35 **QUARTERS/FOOTAGES:** 832' S line, 169' E line of SW NE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.173029 **GEOLOGIST:** PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.308999 **DATE COLLECTED:** 2 / 12 / 1975

SURFACE ELEVATION (FT.): 397.3 **LOGGED (FT.):** 1327.0 **LOG TYPE:** Other Core Study

SOURCE: AMAX C.C. C1-120 **WELL TYPE:** Coal Test

COMMENT: DRILLERS LOG INCLUDED; GAMMA/NEUTRON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-500.5	CARBONDALE	HERRIN	COAL	4.6	897.8	
-594.6	CARBONDALE	SPRINGFIELD	COAL	5.4	991.9	
-881.1	SPOON	SEELYVILLE	COAL	6.7	1278.4	

MAPID: 19128606000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 35 **QUARTERS/FOOTAGES:** SE NE SW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.177045 **GEOLOGIST:** PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.306692 **DATE COLLECTED:** 4 / 8 / 1975

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 1335.0 **LOG TYPE:** Other Core Study

SOURCE: AMAX C.C. C1-127 **WELL TYPE:** Coal Test

COMMENT: DRILLERS LOG INCLUDED; GAMMA/NEUTRON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	4.4	911.0	
-	CARBONDALE	SPRINGFIELD	COAL	4.6	1010.5	

MAPID: 19128607000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 35 **QUARTERS/FOOTAGES:** NW NE NE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.177045 **GEOLOGIST:** PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.306692 **DATE COLLECTED:** 4 / 29 / 1975

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 1325.0 **LOG TYPE:** Other Core Study

SOURCE: AMAX C.C. C1-131 **WELL TYPE:** Coal Test

COMMENT: DRILLERS LOG INCLUDED; GAMMA/NEUTRON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	4.7	908.9	
-	CARBONDALE	SPRINGFIELD	COAL	4.1	1000.1	
-	SPOON	SEELYVILLE	COAL	2.1	1279.0	

MAPID: 19190020000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 35 **QUARTERS/FOOTAGES:** NW NE NE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.185247 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.313653 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 404.3 **LOGGED (FT.):** 1325.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-131 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
404.3			UNCLASSIFIED	846.0	0.0	THICK FROM G-R LOG
-441.7	CARBONDALE	DANVILLE	COAL	2.0	846.0	THICK FROM G-R LOG
-443.7	CARBONDALE		UNCLASSIFIED	54.1	848.0	THICK FROM G-R LOG
-497.8	CARBONDALE	BRERETON	LIMESTONE	2.2	902.1	THICK FROM DRILLER'S LOG
-500.0	CARBONDALE	ANNA	BLACK SHALE	1.6	904.3	THICK FROM DRILLER'S LOG
-501.6	CARBONDALE	HERRIN	COAL	0.8	905.9	THICK FROM DRILLER'S LOG
-502.4	CARBONDALE	HERRIN	PYRITE	0.0	906.7	THICK FROM DRILLER'S LOG
-502.4	CARBONDALE	HERRIN	COAL	2.4	906.7	THICK FROM DRILLER'S LOG
-504.8	CARBONDALE	HERRIN	GRAY SHALE	0.1	909.1	THICK FROM DRILLER'S LOG
-504.9	CARBONDALE	HERRIN	COAL	1.3	909.2	THICK FROM DRILLER'S LOG
-506.2	CARBONDALE	HERRIN	CLAYSTONE	2.8	910.5	THICK FROM DRILLER'S LOG
-509.0	CARBONDALE		UNCLASSIFIED	24.7	913.3	THICK FROM G-R LOG
-533.7	CARBONDALE	BRIAR HILL	COAL	2.0	938.0	THICK FROM G-R LOG
-535.7	CARBONDALE		UNCLASSIFIED	2.0	940.0	THICK FROM G-R LOG
-537.7	CARBONDALE	DYKERSBURG	SHALE	55.0	942.0	THICK FROM G-R LOG
-592.7	CARBONDALE	SPRINGFIELD	COAL	4.1	997.0	THICK FROM DRILLER'S LOG
-596.8	CARBONDALE		CLAYSTONE	2.7	1001.1	THICK FROM DRILLER'S LOG
-599.5	CARBONDALE		DOLOMITE	2.0	1003.8	THICK FROM DRILLER'S LOG
-601.5	CARBONDALE		UNCLASSIFIED	109.7	1005.8	THICK FROM G-R LOG
-711.2	CARBONDALE	EXCELLO	BLACK SHALE	2.5	1115.5	THICK FROM G-R LOG
-713.7	CARBONDALE	HOUCHIN CREEK	COAL	1.5	1118.0	THICK FROM G-R LOG
-715.2	CARBONDALE		UNCLASSIFIED	63.5	1119.5	THICK FROM G-R LOG
-778.7	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	1183.0	THICK FROM G-R LOG
-780.7	CARBONDALE	COLCHESTER	COAL	1.2	1185.0	THICK FROM G-R LOG
-781.9	CARBONDALE		UNCLASSIFIED	27.8	1186.2	THICK FROM G-R LOG
-809.7	CARBONDALE	DEKOVEN	COAL	2.7	1214.0	THICK FROM G-R LOG
-812.4	CARBONDALE		UNCLASSIFIED	47.3	1216.7	
-859.7	CARBONDALE		SANDSTONE	5.0	1264.0	THICK FROM DRILLER'S LOG
-864.7	CARBONDALE		GRAY SHALE	7.0	1269.0	THICK FROM DRILLER'S LOG
-871.7	CARBONDALE	LOWER DEKOVEN	COAL	1.3	1276.0	THICK FROM DRILLER'S LOG
-873.0	CARBONDALE		BLACK SHALE	0.2	1277.3	THICK FROM DRILLER'S LOG
-873.2	CARBONDALE	DAVIS	COAL	4.5	1277.5	THICK FROM DRILLER'S LOG
-877.7	CARBONDALE		CLAYSTONE	3.3	1282.0	THICKNESS FROM DRILLERS LOG
-881.0	TRADEWATER		UNCLASSIFIED	39.7	1285.3	THICK FROM DRILLER'S LOG

MAPID: 19190024000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 35 **QUARTERS/FOOTAGES:** NE SE SW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.179187 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.301518 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 395.6 **LOGGED (FT.):** 1335.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-127 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
395.6			UNCLASSIFIED	852.5	0.0	THICK FROM G-R LOG
-456.9	CARBONDALE	DANVILLE	COAL	2.2	852.5	THICK FROM G-R LOG
-459.1	CARBONDALE		UNCLASSIFIED	53.3	854.7	THICK FROM G-R LOG
-512.4	CARBONDALE	BRERETON	LIMESTONE	4.0	908.0	THICK FROM G-R LOG
-516.4	CARBONDALE	ANNA	BLACK SHALE	0.8	912.0	THICK FROM DRILLER'S LOG
-517.2	CARBONDALE	HERRIN	COAL	2.9	912.8	THICK FROM DRILLER'S LOG
-520.1	CARBONDALE	HERRIN	GRAY SHALE	0.2	915.7	THICK FROM DRILLER'S LOG
-520.3	CARBONDALE	HERRIN	COAL	0.5	915.9	THICK FROM DRILLER'S LOG
-520.8	CARBONDALE	HERRIN	PYRITE	0.1	916.4	THICK FROM DRILLER'S LOG
-520.9	CARBONDALE	HERRIN	COAL	0.6	916.5	THICK FROM DRILLER'S LOG
-521.5	CARBONDALE	HERRIN	PYRITE	0.1	917.1	THICK FROM DRILLER'S LOG
-521.6	CARBONDALE	HERRIN	COAL	0.0	917.2	THICK FROM DRILLER'S LOG
-521.6	CARBONDALE		CLAYSTONE	2.5	917.2	THICK FROM DRILLER'S LOG
-524.1	CARBONDALE		UNCLASSIFIED	29.3	919.7	
-553.4	CARBONDALE	BRIAR HILL	COAL	1.0	949.0	THICK FROM G-R LOG
-554.4	CARBONDALE		UNCLASSIFIED	4.0	950.0	THICK FROM G-R LOG
-558.4	CARBONDALE	DYKERSBURG	SHALE	56.0	954.0	THICK FROM G-R LOG
-614.4	CARBONDALE	SPRINGFIELD	COAL	4.6	1010.0	THICK FROM DRILLER'S LOG
-619.0	CARBONDALE		CLAYSTONE	4.9	1014.6	THICK FROM DRILLER'S LOG
-623.9	CARBONDALE		UNCLASSIFIED	104.5	1019.5	THICK FROM G-R LOG
-728.4	CARBONDALE	EXCELLO	BLACK SHALE	3.0	1124.0	THICK FROM G-R LOG
-731.4	CARBONDALE	HOUCHIN CREEK	COAL	3.0	1127.0	THICK FROM G-R LOG
-734.4	CARBONDALE		UNCLASSIFIED	66.5	1130.0	THICK FROM G-R LOG
-800.9	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.5	1196.5	THICK FROM G-R LOG
-803.4	CARBONDALE	COLCHESTER	COAL	2.5	1199.0	THICK FROM G-R LOG
-805.9	CARBONDALE		UNCLASSIFIED	18.5	1201.5	THICK FROM G-R LOG
-824.4	CARBONDALE	DEKOVEN	COAL	2.0	1220.0	THICK FROM G-R LOG
-826.4	CARBONDALE	DEKOVEN	UNCLASSIFIED	58.1	1222.0	THICK FROM G-R LOG
-884.5	CARBONDALE		GRAY SHALE	5.9	1280.1	THICK FROM DRILLER'S LOG
-890.4	CARBONDALE	LOWER DEKOVEN	COAL	1.0	1286.0	THICK FROM DRILLER'S LOG
-891.4	CARBONDALE		BLACK SHALE	0.3	1287.0	THICK FROM DRILLER'S LOG
-891.7	CARBONDALE	DAVIS	COAL	4.7	1287.3	THICK FROM DRILLER'S LOG
-896.4	TRADEWATER		CLAYSTONE	5.1	1292.0	THICK FROM DRILLER'S L0G
-901.5	TRADEWATER		UNCLASSIFIED	37.9	1297.1	THICK FROM DRILLER'S LOG

MAPID: 19190025000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 35 **QUARTERS/FOOTAGES:** 832' S line, 169' E line of SW NE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.173029 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.308999 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 397.3 **LOGGED (FT.):** 1289.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-120 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
397.3			UNCLASSIFIED	835.0	0.0	THICK FROM G-R LOG
-437.7	CARBONDALE	DANVILLE	COAL	2.0	835.0	THICK FROM G-R LOG
-439.7	CARBONDALE		UNCLASSIFIED	55.0	837.0	THICK FROM G-R LOG
-494.7	CARBONDALE	BRERETON	LIMESTONE	4.0	892.0	THICK FORM G-R LOG
-498.7	CARBONDALE	ANNA	BLACK SHALE	1.2	896.0	THICK FROM DRILLER'S LOG
-499.9	CARBONDALE	HERRIN	COAL	3.2	897.2	THICK FROM DRILLER'S LOG
-503.1	CARBONDALE	HERRIN	GRAY SHALE	0.1	900.4	THICK FROM DRILLER'S LOG
-503.2	CARBONDALE	HERRIN	COAL	1.2	900.5	THICK FROM DRILLER'S LOG
-504.4	CARBONDALE		CLAYSTONE	2.2	901.7	THICK FROM DRILLER'S LOG
-506.6	CARBONDALE		UNCLASSIFIED	29.1	903.9	THICK FROM G-R LOG
-535.7	CARBONDALE	BRIAR HILL	COAL	1.5	933.0	THICK FROM G-R LOG
-537.2	CARBONDALE		UNCLASSIFIED	1.5	934.5	THICK FROM G-R LOG
-538.7	CARBONDALE	DYKERSBURG	GRAY SHALE	56.0	936.0	THICK FROM G-R LOG
-594.7	CARBONDALE	SPRINGFIELD	COAL	5.4	992.0	THICK FROM DRILLER'S LOG
-600.1	CARBONDALE		CLAYSTONE	4.0	997.4	THICK FROM DRILLER'S LOG
-604.1	CARBONDALE		UNCLASSIFIED	113.8	1001.4	
-717.9	CARBONDALE		BLACK SHALE	2.8	1115.2	THICK FROM G-R LOG
-720.7	CARBONDALE	HOUCHIN CREEK	COAL	2.0	1118.0	THICK FROM G-R LOG
-722.7	CARBONDALE		UNCLASSIFIED	70.0	1120.0	THICK FROM G-R LOG
-792.7	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.0	1190.0	THICK FROM G-R LOG
-793.7	CARBONDALE	COLCHESTER	COAL	2.0	1191.0	THICK FROM G-R LOG
-795.7	CARBONDALE		UNCLASSIFIED	31.0	1193.0	THICK FROM G-R LOG
-826.7	CARBONDALE	DEKOVEN	COAL	2.0	1224.0	THICK FROM G-R LOG
-828.7	CARBONDALE		UNCLASSIFIED	39.5	1226.0	THICK FROM G-R LOG
-868.2	CARBONDALE		SANDSTONE	14.9	1265.5	THICK FROM DRILLER'S LOG
-883.1	CARBONDALE		SHALE	1.6	1280.4	THICK FROM DRILLER'S LOG
-884.7	CARBONDALE	LOWER DEKOVEN	COAL	1.4	1282.0	THICK FROM DRILLER'S LOG
-886.1	CARBONDALE		BLACK SHALE	0.7	1283.4	THICK FROM DRILLER'S LOG
-886.8	CARBONDALE	DAVIS	COAL	4.4	1284.1	THICK FROM DRILLER'S LOG
-891.2	CARBONDALE		CLAYSTONE	0.5	1288.5	THICK FROM DRILLER'S LOG

MAPID: 19101641000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 2S 9E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' N line, 330' E line

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.150646 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.313024 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 426.0 **LOGGED (FT.):** 3393.0 **LOG TYPE:** Electric Log

SOURCE: IL MID CONTINENT CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-474.0	CARBONDALE	HERRIN	COAL	3.0	900.0	
-507.0	CARBONDALE	BRIAR HILL	COAL	-	933.0	
-710.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1136.0	

MAPID: 19100658000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 5E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: BLUFORD **LONGITUDE:** -88.645696 **GEOLOGIST:** STRAAYER

CONFIDENTIAL: N **LATITUDE:** 38.297285 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 482.0 **LOGGED (FT.):** 1361.0 **LOG TYPE:** Electric Log

SOURCE: W.F. LACY 658 **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
482.0			UNKNOWN	1261.0	0.0	
-779.0	CARBONDALE	COLCHESTER	COAL	1.0	1261.0	THICKNESS LESS THAN 16"
-780.0	CARBONDALE		UNKNOWN	44.0	1262.0	
-824.0	CARBONDALE	DEKOVEN	COAL	1.0	1306.0	
-825.0	CARBONDALE		UNKNOWN	54.0	1307.0	
-879.0	CARBONDALE	DAVIS	COAL	0.0	1361.0	

MAPID: 19100658000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 5E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: BLUFORD **LONGITUDE:** -88.645696 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.297285 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 482.0 **LOGGED (FT.):** 3360.0 **LOG TYPE:** Electric Log

SOURCE: LACY WILLIAM F **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-556.0	CARBONDALE	HERRIN	COAL	6.0	1038.0	
-624.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1106.0	
-712.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1194.0	

MAPID: 19100402000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 5E **SECTION:** 7 **QUARTERS/FOOTAGES:** 660' N line, 330' E line of NE

QUADRANGLE: BLUFORD **LONGITUDE:** -88.685141 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.283965 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 496.0 **LOGGED (FT.):** 3193.0 **LOG TYPE:** Electric Log

SOURCE: LARIO OIL & GAS CO **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-490.0	CARBONDALE	HERRIN	COAL	4.0	986.0	
-519.0	CARBONDALE	BRIAR HILL	COAL	-	1015.0	
-554.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1050.0	
-637.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1133.0	

MAPID: 19103825000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 5E **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NW

QUADRANGLE: BLUFORD **LONGITUDE:** -88.696365 **GEOLOGIST:** STRAAYER

CONFIDENTIAL: N **LATITUDE:** 38.279489 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 485.0 **LOGGED (FT.):** 1265.5 **LOG TYPE:** Electric Log

SOURCE: JAMES G BROWN 3825 **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
485.0			UNKNOWN	1182.5	0.0	
-697.5	CARBONDALE	COLCHESTER	COAL	1.0	1182.5	THICKNESS LESS THAN 16"
-698.5	CARBONDALE		UNKNOWN	48.5	1183.5	
-747.0	CARBONDALE	DEKOVEN	COAL	3.0	1232.0	
-750.0	CARBONDALE		UNKNOWN	27.0	1235.0	
-777.0	CARBONDALE	LOWER DEKOVEN	COAL	1.0	1262.0	
-778.0	CARBONDALE		UNKNOWN	0.5	1263.0	
-778.5	CARBONDALE	DAVIS	COAL	2.0	1263.5	

MAPID: 19103826000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 5E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.611316 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.279121 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 428.0 **LOGGED (FT.):** 3450.0 **LOG TYPE:** Electric Log
SOURCE: SLAGTER ARTHUR J JR **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-596.0	CARBONDALE	HERRIN	COAL	-	1024.0	
-644.0	CARBONDALE	BRIAR HILL	COAL	-	1072.0	
-674.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1102.0	
-769.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1197.0	

MAPID: 19101642000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 5E **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.616406 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.257219 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 402.0 **LOGGED (FT.):** 3404.0 **LOG TYPE:** Electric Log
SOURCE: JOHNSON RUSSELL P **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-587.0	CARBONDALE	HERRIN	COAL	4.0	989.0	
-618.0	CARBONDALE	BRIAR HILL	COAL	-	1020.0	
-673.0	CARBONDALE	SPRINGFIELD	COAL	6.0	1075.0	
-763.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1165.0	

MAPID: 19104335000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 5E **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.618565 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.262705 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 402.0 **LOGGED (FT.):** 1324.0 **LOG TYPE:** Electric Log
SOURCE: JET OIL CO 4335 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
402.0			UNKNOWN	1221.0	0.0	
-819.0	CARBONDALE	COLCHESTER	COAL	1.0	1221.0	THICKNESS LESS THAN 16"
-820.0	CARBONDALE		UNKNOWN	48.0	1222.0	
-868.0	CARBONDALE	DEKOVEN	COAL	0.0	1270.0	
-868.0	CARBONDALE		UNKNOWN	51.0	1270.0	
-919.0	CARBONDALE	DAVIS	COAL	3.0	1321.0	

MAPID: 19100015000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 5E **SECTION:** 15 **QUARTERS/FOOTAGES:** 666' S line, 330' E line of SW NE
QUADRANGLE: BLUFORD **LONGITUDE:** -88.634594 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.265419 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 409.0 **LOGGED (FT.):** 3432.0 **LOG TYPE:** Electric Log
SOURCE: WITT **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-600.0	CARBONDALE	HERRIN	COAL	4.0	1009.0	
-638.0	CARBONDALE	BRIAR HILL	COAL	-	1047.0	
-668.0	CARBONDALE	SPRINGFIELD	COAL	6.0	1077.0	
-761.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1170.0	

MAPID: 19101643000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 5E **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW
QUADRANGLE: BLUFORD **LONGITUDE:** -88.694712 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.262962 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 447.0 **LOGGED (FT.):** 3246.0 **LOG TYPE:** Electric Log
SOURCE: IL MID CONTINENT CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-499.0	CARBONDALE	HERRIN	COAL	5.0	946.0	
-541.0	CARBONDALE	BRIAR HILL	COAL	-	988.0	
-580.0	CARBONDALE	SPRINGFIELD	COAL	6.0	1027.0	
-661.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1108.0	

MAPID: 19101644000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 6E **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 990' W line of SW SW
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.553062 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.28813 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 410.0 **LOGGED (FT.):** 3433.0 **LOG TYPE:** Electric Log
SOURCE: DAVIS & JOHNSON DRLG **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-572.0	CARBONDALE	HERRIN	COAL	5.0	982.0	
-618.0	CARBONDALE	BRIAR HILL	COAL	-	1028.0	
-650.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1060.0	
-772.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1182.0	

MAPID: 19100494000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 6E **SECTION:** 5 **QUARTERS/FOOTAGES:** 330' S line, 660' W line of NE SW

QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.5679 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.290073 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 450.0 **LOGGED (FT.):** 3570.0 **LOG TYPE:** Electric Log

SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-552.0	CARBONDALE	HERRIN	COAL	4.0	1002.0	
-584.0	CARBONDALE	BRIAR HILL	COAL	-	1034.0	
-640.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1090.0	
-746.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1196.0	

MAPID: 19101645000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 6E **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' N line, 2145' E line

QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.582161 **GEOLOGIST:** STRAAYER

CONFIDENTIAL: N **LATITUDE:** 38.296869 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 401.0 **LOGGED (FT.):** 1336.5 **LOG TYPE:** Electric Log

SOURCE: ARMSTRONG OIL CO 1645 **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
401.0			UNKNOWN	1245.0	0.0	
-844.0	CARBONDALE	COLCHESTER	COAL	1.0	1245.0	THICKNESS LESS THAN 16"
-845.0	CARBONDALE		UNKNOWN	43.0	1246.0	
-888.0	CARBONDALE	DEKOVEN	COAL	0.0	1289.0	THICKNESS LESS THAN 16"
-888.0	CARBONDALE		UNKNOWN	45.0	1289.0	
-933.0	CARBONDALE	DAVIS	COAL	2.5	1334.0	

MAPID: 19101645000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 6E **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' N line, 2145' E line

QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.582161 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.296869 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 401.0 **LOGGED (FT.):** 3385.0 **LOG TYPE:** Electric Log

SOURCE: ARMSTRONG OIL CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-623.0	CARBONDALE	BRIAR HILL	COAL	-	1024.0	
-679.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1080.0	
-775.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1176.0	

MAPID: 19100655000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 6E **SECTION:** 7 **QUARTERS/FOOTAGES:** 682' S line, 680' W line of NW NE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.581735 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.283925 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 403.0 **LOGGED (FT.):** 1315.0 **LOG TYPE:** Electric Log
SOURCE: TEXAS CO 655 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
403.0			UNKNOWN	1226.0	0.0	
-823.0	CARBONDALE	COLCHESTER	COAL	1.0	1226.0	THICKNESS LESS THAN 16"
-824.0	CARBONDALE		UNKNOWN	52.0	1227.0	
-876.0	CARBONDALE	DEKOVEN	COAL	2.0	1279.0	
-878.0	CARBONDALE		UNKNOWN	29.5	1281.0	
-907.5	CARBONDALE	LOWER DEKOVEN	COAL	2.0	1310.5	
-909.5	CARBONDALE		UNKNOWN	0.5	1312.5	
-910.0	CARBONDALE	DAVIS	COAL	2.0	1313.0	

MAPID: 19103353000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 6E **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE SE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.578353 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.277288 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 416.0 **LOGGED (FT.):** 4255.0 **LOG TYPE:** Electric Log
SOURCE: NEW IL MID CONT. OIL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-551.0	CARBONDALE	HERRIN	COAL	4.0	967.0	
-621.0	CARBONDALE	BRIAR HILL	COAL	-	1037.0	
-646.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1062.0	
-766.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1182.0	

MAPID: 19100248000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 6E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' N line, 660' W line of SW NW
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.572572 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.280939 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 451.0 **LOGGED (FT.):** 3395.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-542.0	CARBONDALE	HERRIN	COAL	4.0	993.0	
-605.0	CARBONDALE	BRIAR HILL	COAL	-	1056.0	
-746.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1197.0	

MAPID: 19100248000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 3S 6E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' N line, 660' W line of SW NW
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.572572 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.280939 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3395.0 **LOG TYPE:** Survey Sample Study
SOURCE: TEXACO, INC. **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: 19103419000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 6E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NW
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.566923 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.280921 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 470.0 **LOGGED (FT.):** 3443.0 **LOG TYPE:** Electric Log
SOURCE: NEW IL MID CONT. OIL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-552.0	CARBONDALE	HERRIN	COAL	4.0	1022.0	
-590.0	CARBONDALE	BRIAR HILL	COAL	-	1060.0	
-628.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1098.0	
-740.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1210.0	

MAPID: 19101648000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 6E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE SW
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.548623 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.273468 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 442.0 **LOGGED (FT.):** 3486.0 **LOG TYPE:** Electric Log
SOURCE: DAVIS & JOHNSON **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-561.0	CARBONDALE	HERRIN	COAL	3.0	1003.0	
-610.0	CARBONDALE	BRIAR HILL	COAL	-	1052.0	
-634.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1076.0	
-752.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1194.0	

MAPID: 19107257000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 6E **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW NE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.52722 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.28231 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 396.0 **LOGGED (FT.):** 3400.0 **LOG TYPE:** Electric Log
SOURCE: EDMISTON DRLG **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-564.0	CARBONDALE	HERRIN	COAL	2.0	960.0	
-614.0	CARBONDALE	BRIAR HILL	COAL	-	1010.0	
-639.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1035.0	
-748.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1144.0	

MAPID: 19103828000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 6E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.517905 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.276775 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 386.0 **LOGGED (FT.):** 3474.0 **LOG TYPE:** Electric Log
SOURCE: HERNDON DRLG. CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-582.0	CARBONDALE	HERRIN	COAL	4.0	968.0	
-634.0	CARBONDALE	BRIAR HILL	COAL	-	1020.0	
-663.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1049.0	
-781.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1167.0	

MAPID: 19100654000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 6E **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NW
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.513673 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.269492 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 392.0 **LOGGED (FT.):** 3470.0 **LOG TYPE:** Electric Log
SOURCE: SUPERIOR OIL COMPANY **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-544.0	CARBONDALE	HERRIN	COAL	3.0	936.0	
-590.0	CARBONDALE	BRIAR HILL	COAL	-	982.0	
-618.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1010.0	
-734.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1126.0	

MAPID: 19103606000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 6E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW NE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.525341 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.265933 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 457.0 **LOGGED (FT.):** 3445.0 **LOG TYPE:** Electric Log
SOURCE: HOWARD & HOWELL **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-523.0	CARBONDALE	HERRIN	COAL	3.0	980.0	
-573.0	CARBONDALE	BRIAR HILL	COAL	-	1030.0	
-605.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1062.0	
-717.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1174.0	

MAPID: 19101649000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 6E **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NE
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.541668 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.264245 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 440.0 **LOGGED (FT.):** 3508.0 **LOG TYPE:** Electric Log
SOURCE: GULF REFINING CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-531.0	CARBONDALE	HERRIN	COAL	3.0	971.0	
-577.0	CARBONDALE	BRIAR HILL	COAL	-	1017.0	
-601.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1041.0	
-718.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1158.0	

MAPID: 19100652000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 6E **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' N line, 566' E line of NW
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.585392 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.26968 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 412.0 **LOGGED (FT.):** 1327.0 **LOG TYPE:** Electric Log
SOURCE: TEXAS CO 652 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
412.0			UNKNOWN	1231.0	0.0	
-819.0	CARBONDALE	COLCHESTER	COAL	1.0	1231.0	THICKNESS LESS THAN 16"
-820.0	CARBONDALE		UNKNOWN	50.0	1232.0	
-870.0	CARBONDALE	DEKOVEN	COAL	0.0	1282.0	
-870.0	CARBONDALE		UNKNOWN	43.0	1282.0	
-913.0	CARBONDALE	DAVIS	COAL	2.0	1325.0	

MAPID: 19100652000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 6E **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' N line, 566' E line of NW
QUADRANGLE: WAYNE CITY **LONGITUDE:** -88.585392 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.26968 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 412.0 **LOGGED (FT.):** 3379.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-560.0	CARBONDALE	HERRIN	COAL	4.0	972.0	
-647.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1059.0	
-755.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1167.0	

MAPID: 19100675000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.380346 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.291186 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 438.0 **LOGGED (FT.):** 3531.0 **LOG TYPE:** Electric Log
SOURCE: NATION BEN H **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-644.0	CARBONDALE	HERRIN	COAL	4.0	1082.0	
-682.0	CARBONDALE	BRIAR HILL	COAL	-	1120.0	
-714.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1152.0	
-802.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1240.0	

MAPID: 19101651000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.396493 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.293181 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 382.0 **LOGGED (FT.):** 1329.0 **LOG TYPE:** Electric Log
SOURCE: H.H.WEINERT 1651 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
382.0			UNKNOWN	1247.0	0.0	
-865.0	CARBONDALE	COLCHESTER	COAL	1.0	1247.0	THICKNESS LESS THAN 16"
-866.0	CARBONDALE		UNKNOWN	44.0	1248.0	
-910.0	CARBONDALE	DEKOVEN	COAL	3.0	1292.0	
-913.0	CARBONDALE		UNKNOWN	30.0	1295.0	
-943.0	CARBONDALE	DAVIS	COAL	4.0	1325.0	

MAPID: 19101651000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.396493 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.293181 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 382.0 **LOGGED (FT.):** 3500.0 **LOG TYPE:** Electric Log
SOURCE: WEINERT, H. H., ESTATE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-631.0	CARBONDALE	HERRIN	COAL	3.0	1013.0	
-680.0	CARBONDALE	BRIAR HILL	COAL	-	1062.0	
-711.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1093.0	
-802.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1184.0	

MAPID: 19101652000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 990' W line
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.440228 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.295496 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 382.0 **LOGGED (FT.):** 3358.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-532.0	CARBONDALE	HERRIN	COAL	3.0	914.0	
-625.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1007.0	
-720.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1102.0	

MAPID: 19100250000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 5 **QUARTERS/FOOTAGES:**
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.453409 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.291125 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3353.0 **LOG TYPE:** Electric Log
SOURCE: WEINERT, H. H., ESTATE **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	3.0	920.0	
-	CARBONDALE	SPRINGFIELD	COAL	5.0	1020.0	
-	CARBONDALE	HOUCHIN CREEK	COAL	-	1115.0	

MAPID: 19101863000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' S line, 990' E line of NW
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.45713 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 38.279038 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 384.0 **LOGGED (FT.):** 1286.0 **LOG TYPE:** Electric Log
SOURCE: MIDWEST DRILL MAC & SUPPLY CO 1863 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
384.0			UNKNOWN	1203.0	0.0	
-819.0	CARBONDALE	COLCHESTER	COAL	1.0	1203.0	THICKNESS LESS THAN 16"
-820.0	CARBONDALE		UNKNOWN	45.0	1204.0	
-865.0	CARBONDALE	DEKOVEN	COAL	1.0	1249.0	THICKNESS LESS THAN 16"
-866.0	CARBONDALE		UNKNOWN	33.0	1250.0	
-899.0	CARBONDALE	DAVIS	COAL	3.0	1283.0	

MAPID: 19101863000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' S line, 990' E line of NW
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.45713 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.279038 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 384.0 **LOGGED (FT.):** 3423.0 **LOG TYPE:** Electric Log
SOURCE: MID-WEST DRLG MACH **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-560.0	CARBONDALE	HERRIN	COAL	4.0	944.0	
-633.0	CARBONDALE	BRIAR HILL	COAL	-	1017.0	
-661.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1045.0	
-756.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1140.0	

MAPID: 19100674000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SE NW
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.436236 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.281249 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 381.0 **LOGGED (FT.):** 3399.0 **LOG TYPE:** Electric Log
SOURCE: NATION OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-525.0	CARBONDALE	HERRIN	COAL	4.0	906.0	
-599.0	CARBONDALE	BRIAR HILL	COAL	-	980.0	
-635.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1016.0	
-719.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1100.0	

MAPID: 19107367000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' S line, 330' W line
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.424875 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.271814 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 374.0 **LOGGED (FT.):** 3390.0 **LOG TYPE:** Electric Log
SOURCE: GEORGE, T. W. TRUST **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-591.0	CARBONDALE	HERRIN	COAL	4.0	965.0	
-656.0	CARBONDALE	BRIAR HILL	COAL	-	1030.0	
-686.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1060.0	
-768.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1142.0	

MAPID: 19103830000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.375928 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.271129 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 379.0 **LOGGED (FT.):** 3405.0 **LOG TYPE:** Electric Log
SOURCE: BUMP OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-604.0	CARBONDALE	HERRIN	COAL	3.0	983.0	
-659.0	CARBONDALE	BRIAR HILL	COAL	-	1038.0	
-689.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1068.0	
-778.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1157.0	

MAPID: 19103831000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW NE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.375957 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.269307 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 377.0 **LOGGED (FT.):** 4325.0 **LOG TYPE:** Electric Log
SOURCE: BUMP OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-601.0	CARBONDALE	HERRIN	COAL	3.0	978.0	
-659.0	CARBONDALE	BRIAR HILL	COAL	-	1036.0	
-687.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1064.0	
-777.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1154.0	

MAPID: 19107280000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 13 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.378307 **GEOLOGIST:** ELRICK
CONFIDENTIAL: N **LATITUDE:** 38.269291 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 376.0 **LOGGED (FT.):** 1312.0 **LOG TYPE:** Electric Log
SOURCE: BUMP OIL CO. 7280 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
376.0			UNKNOWN	1219.0	0.0	
-843.0	CARBONDALE	COLCHESTER	COAL	1.0	1219.0	THICKNESS LESS THAN 16"
-844.0	CARBONDALE		UNKNOWN	55.0	1220.0	
-899.0	CARBONDALE	DEKOVEN	COAL	2.5	1275.0	
-901.5	CARBONDALE		UNKNOWN	31.5	1277.5	
-933.0	CARBONDALE	DAVIS	COAL	3.0	1309.0	

MAPID: 19104369000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 14 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.406102 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.262272 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 383.0 **LOGGED (FT.):** 3434.0 **LOG TYPE:** Electric Log
SOURCE: SWANSON E L **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-672.0	CARBONDALE	BRIAR HILL	COAL	-	1055.0	
-705.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1088.0	
-792.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1175.0	

MAPID: 19104326000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 15 **QUARTERS/FOOTAGES:** 692' N line, 660' W line of SW NW
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.423777 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.265192 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 379.0 **LOGGED (FT.):** 5418.0 **LOG TYPE:** Electric Log
SOURCE: SHARP OLEN D **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-623.0	CARBONDALE	HERRIN	COAL	6.0	1002.0	
-673.0	CARBONDALE	BRIAR HILL	COAL	-	1052.0	
-705.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1084.0	
-781.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1160.0	

MAPID: 19100397000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 16 **QUARTERS/FOOTAGES:** 662' N line, 669' W line of NE NW

QUADRANGLE: BOYLESTON **LONGITUDE:** -88.437591 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.269033 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 379.0 **LOGGED (FT.):** 3340.0 **LOG TYPE:** Electric Log

SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-528.0	CARBONDALE	HERRIN	COAL	4.0	907.0	
-595.0	CARBONDALE	BRIAR HILL	COAL	-	974.0	
-625.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1004.0	
-713.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1092.0	

MAPID: 19100397000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 16 **QUARTERS/FOOTAGES:** 662' N line, 669' W line of NE NW

QUADRANGLE: BOYLESTON **LONGITUDE:** -88.437591 **GEOLOGIST:** HINES

CONFIDENTIAL: N **LATITUDE:** 38.269033 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3340.0 **LOG TYPE:** Survey Sample Study

SOURCE: TEXACO, INC. **WELL TYPE:** Oil and Gas Test

COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 19100397000C **VERSION:** 4 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 16 **QUARTERS/FOOTAGES:** 662' N line, 669' W line of NE NW

QUADRANGLE: BOYLESTON **LONGITUDE:** -88.437591 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.269033 **DATE COLLECTED:** 10 / 0 / 1942

SURFACE ELEVATION (FT.): 379.0 **LOGGED (FT.):** 992.0 **LOG TYPE:** Survey Sample Study

SOURCE: TEXAS COMPANY, THE 5 **WELL TYPE:** Producer-Oil and Gas

COMMENT: SAMPLE STUDY CONTROL WELL #65

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
379.0			UNKNOWN	162.0	0.0	
217.0			SHALE	4.0	162.0	
213.0			SANDSTONE	1.0	166.0	
212.0			COAL	1.0	167.0	APPROXIMATE THICKNESS
211.0			SANDSTONE	62.0	168.0	
149.0			SHALE	3.0	230.0	WITH UNDERCLAY
146.0			LIMESTONE	1.0	233.0	
145.0			SHALE	6.0	234.0	
139.0			SANDSTONE	10.0	240.0	
129.0			SANDSTONE/SHALE	10.0	250.0	UNDERCLAY
119.0			SHALE	30.0	260.0	
89.0			SANDSTONE	170.0	290.0	
-81.0			SHALE	36.0	460.0	
-117.0			SHALE	2.0	496.0	
-119.0			SHALE	10.0	498.0	
-129.0			BLACK SHALE & COAL	2.0	508.0	
-131.0			UNDERCLAY	2.0	510.0	
-133.0			SHALE	18.0	512.0	
-151.0			SANDSTONE	92.0	530.0	
-243.0			SHALE	4.0	622.0	
-247.0			SANDSTONE	79.0	626.0	
-326.0			COAL	1.0	705.0	APPROXIMATE THICKNESS
-327.0			SANDSTONE	4.0	706.0	
-331.0			SILTSTONE	24.0	710.0	
-355.0			SHALE	6.0	734.0	
-361.0			LIMESTONE	2.0	740.0	
-363.0			SHALE	6.0	742.0	
-369.0			BLACK SHALE	1.0	748.0	
-370.0			SHALE	11.0	749.0	
-381.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	760.0	
-387.0			SHALE	72.0	766.0	
-459.0	CARBONDALE	DANVILLE	COAL	2.0	838.0	APPROXIMATE THICKNESS
-461.0	CARBONDALE		SANDSTONE	18.0	840.0	
-479.0	CARBONDALE		BLACK SHALE	2.0	858.0	
-481.0	CARBONDALE		SANDSTONE	10.0	860.0	
-491.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	870.0	
-495.0	CARBONDALE	ANVIL ROCK	SANDSTONE	6.0	874.0	
-501.0	CARBONDALE		SHALE	18.0	880.0	
-519.0	CARBONDALE	BRERETON	LIMESTONE	6.0	898.0	

-525.0	CARBONDALE	ANNA	BLACK SHALE	2.0	904.0	
-527.0	CARBONDALE	HERRIN	COAL	5.0	906.0	APPROXIMATE THICKNESS
-532.0	CARBONDALE		SHALE	7.0	911.0	
-539.0	CARBONDALE		SANDSTONE	6.0	918.0	
-545.0	CARBONDALE		LIMESTONE	4.0	924.0	
-549.0	CARBONDALE		SANDSTONE	28.0	928.0	
-577.0	CARBONDALE		SHALE	21.0	956.0	
-598.0	CARBONDALE	BRIAR HILL	BLACK SHALE & COAL	2.0	977.0	APPROXIMATE THICKNESS
-600.0	CARBONDALE		SILTSTONE	13.0	979.0	

MAPID: 19101667000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 16 **QUARTERS/FOOTAGES:** 2065' N line, 330' E line of NE

QUADRANGLE: BOYLESTON **LONGITUDE:** -88.427243 **GEOLOGIST:** STRAAYER

CONFIDENTIAL: N **LATITUDE:** 38.265218 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 380.0 **LOGGED (FT.):** 1296.5 **LOG TYPE:** Electric Log

SOURCE: TESAS CO 1667 **WELL TYPE:** Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
380.0			UNKNOWN	1206.0	0.0	
-826.0	CARBONDALE	COLCHESTER	COAL	1.0	1206.0	THICKNESS LESS THAN 16"
-827.0	CARBONDALE		UNKNOWN	87.0	1207.0	
-914.0	CARBONDALE	DAVIS	COAL	2.5	1294.0	

MAPID: 19101667000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 16 **QUARTERS/FOOTAGES:** 2065' N line, 330' E line of NE

QUADRANGLE: BOYLESTON **LONGITUDE:** -88.427243 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.265218 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 380.0 **LOGGED (FT.):** 3410.0 **LOG TYPE:** Electric Log

SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-598.0	CARBONDALE	HERRIN	COAL	5.0	978.0	
-657.0	CARBONDALE	BRIAR HILL	COAL	-	1037.0	
-690.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1070.0	
-766.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1146.0	

MAPID: 19101669000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 17 **QUARTERS/FOOTAGES:** 2721' S line, 50' W line of SW SE
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.453724 **GEOLOGIST:** ELRICK
CONFIDENTIAL: N **LATITUDE:** 38.263087 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 381.0 **LOGGED (FT.):** 1264.0 **LOG TYPE:** Electric Log
SOURCE: TEXAS COMPANY, THE 1669 **WELL TYPE:** Producer-Oil and Gas
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
381.0			UNKNOWN	1171.0	0.0	
-790.0	CARBONDALE	COLCHESTER	COAL	1.0	1171.0	THICKNESS LESS THAN 16"
-791.0	CARBONDALE		UNKNOWN	49.0	1172.0	
-840.0	CARBONDALE	DEKOVEN	COAL	2.0	1221.0	
-842.0	CARBONDALE		UNKNOWN	38.0	1223.0	
-880.0	CARBONDALE	DAVIS	COAL	3.0	1261.0	

MAPID: 19101670000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 17 **QUARTERS/FOOTAGES:** 683' S line, 665' E line
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.447021 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.257634 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 383.0 **LOGGED (FT.):** 3368.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-520.0	CARBONDALE	HERRIN	COAL	3.0	903.0	
-583.0	CARBONDALE	BRIAR HILL	COAL	-	966.0	
-612.0	CARBONDALE	SPRINGFIELD	COAL	6.0	995.0	
-699.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1082.0	

MAPID: 19100669000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 7E **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' N line, 990' W line
QUADRANGLE: BOYLESTON **LONGITUDE:** -88.478112 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.269543 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3490.0 **LOG TYPE:** Electric Log
SOURCE: WINKLER & POWERS **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-	CARBONDALE	HERRIN	COAL	4.0	1006.0	
-	CARBONDALE	BRIAR HILL	COAL	-	1066.0	
-	CARBONDALE	SPRINGFIELD	COAL	4.0	1093.0	
-	CARBONDALE	HOUCHIN CREEK	COAL	-	1206.0	

MAPID: 19104220000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 1 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SW

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.275086 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.288357 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 459.0 **LOGGED (FT.):** 3513.0 **LOG TYPE:** Electric Log

SOURCE: JENKINS, GORDON T. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-565.0	CARBONDALE	HERRIN	COAL	3.0	1024.0	
-601.0	CARBONDALE	BRIAR HILL	COAL	-	1060.0	
-658.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1117.0	
-764.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1223.0	

MAPID: 19105170000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 2 **QUARTERS/FOOTAGES:** 387' N line, 330' W line of NE NW

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.29083 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.298858 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 425.0 **LOGGED (FT.):** 3464.0 **LOG TYPE:** Electric Log

SOURCE: BAYVIEW OIL CORP. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-649.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1074.0	
-743.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1168.0	

MAPID: 19103833000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SE

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.304619 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.291547 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 482.0 **LOGGED (FT.):** 3507.0 **LOG TYPE:** Electric Log

SOURCE: PLEDGER ROY **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-624.0	CARBONDALE	BRIAR HILL	COAL	-	1106.0	
-654.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1136.0	
-745.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1227.0	

MAPID: 19103834000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' N line, 330' E line
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.315651 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.298773 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 3540.0 **LOG TYPE:** Electric Log
SOURCE: MYERS THEODORE F **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-588.0	CARBONDALE	HERRIN	COAL	3.0	1087.0	
-631.0	CARBONDALE	BRIAR HILL	COAL	-	1130.0	
-661.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1160.0	
-753.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1252.0	

MAPID: 19101678000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 5 **QUARTERS/FOOTAGES:** 330' S line, 990' W line of NE
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.338752 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.293017 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 448.0 **LOGGED (FT.):** 3576.0 **LOG TYPE:** Electric Log
SOURCE: NATION OIL CO. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-688.0	CARBONDALE	BRIAR HILL	COAL	-	1136.0	
-719.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1167.0	
-814.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1262.0	

MAPID: 19100300000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NE
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.35478 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.292934 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 444.0 **LOGGED (FT.):** 3540.0 **LOG TYPE:** Electric Log
SOURCE: WEINERT & WATKINS **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-632.0	CARBONDALE	HERRIN	COAL	2.0	1076.0	
-681.0	CARBONDALE	BRIAR HILL	COAL	-	1125.0	
-715.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1159.0	
-811.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1255.0	

MAPID: 19100300000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NE

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.35478 **GEOLOGIST:** HINES

CONFIDENTIAL: N **LATITUDE:** 38.292934 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3540.0 **LOG TYPE:** Survey Sample Study

SOURCE: WEINERT & WATKINS **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: 19100300000C **VERSION:** 4 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NE

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.35478 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.292934 **DATE COLLECTED:** 11 / 0 / 1942

SURFACE ELEVATION (FT.): 444.0 **LOGGED (FT.):** 1086.0 **LOG TYPE:** Survey Sample Study

SOURCE: WEINERT 1 **WELL TYPE:** Plugged and/or Abandoned

COMMENT: COAL DIVISION CONTROL WELL #98

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
444.0			UNKNOWN	38.0	0.0	
406.0			SANDSTONE	20.0	38.0	
386.0			SHALE	8.0	58.0	
378.0			SILTY SANDSTONE	114.0	66.0	
264.0			LIMESTONE	2.0	180.0	
262.0			SHALE	12.0	182.0	
250.0			SILTY SANDSTONE	60.0	194.0	
190.0			SHALE	50.0	254.0	
140.0			SILTSTONE	26.0	304.0	
114.0			LIMESTONE	2.0	330.0	
112.0			SANDSTONE	8.0	332.0	
104.0			SILTSTONE	12.0	340.0	
92.0			SHALE	40.0	352.0	
52.0			BLACK SHALE	1.0	392.0	
51.0			COAL	1.0	393.0	
50.0			SILTY SHALE	78.0	394.0	
-28.0			SANDSTONE	28.0	472.0	
-56.0			UNKNOWN	4.0	500.0	
-60.0			SANDSTONE	27.0	504.0	
-87.0	BOND	CARTHAGE	LIMESTONE	10.0	531.0	
-97.0			SHALE	93.0	541.0	
-190.0			SILTSTONE	36.0	634.0	
-226.0			LIMESTONE	3.0	670.0	
-229.0			BLACK SHALE & COAL	3.0	673.0	
-232.0			SHALE	26.0	676.0	
-258.0			SANDSTONE	39.0	702.0	
-297.0			LIMESTONE	2.0	741.0	
-299.0			BLACK SHALE & COAL	1.0	743.0	
-300.0			SANDSTONE	86.0	744.0	
-386.0			SHALE	26.0	830.0	
-412.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	856.0	
-416.0			DARK SHALE	8.0	860.0	BLACK SHALE AT BASE
-424.0			LIMESTONE	14.0	868.0	
-438.0			UNKNOWN	8.0	882.0	
-446.0			SHALE	82.0	890.0	
-528.0			LIMESTONE	2.0	972.0	
-530.0			SHALE	14.0	974.0	
-544.0			BLACK SHALE	3.0	988.0	
-547.0	CARBONDALE	DANVILLE	COAL	4.0	991.0	APPROXIMATE THICKNESS

-551.0	CARBONDALE		UNDERCLAY	1.0	995.0
-552.0	CARBONDALE		SHALE	6.0	996.0
-558.0	CARBONDALE		SANDSTONE	32.0	1002.0
-590.0	CARBONDALE		SHALE	24.0	1034.0
-614.0	CARBONDALE		SANDSTONE	18.0	1058.0
-632.0	CARBONDALE	HERRIN	COAL	3.0	1076.0
-635.0	CARBONDALE		UNDERCLAY	1.0	1079.0
-636.0	CARBONDALE		SANDSTONE	6.0	1080.0

MAPID: 19104168000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' N line, 660' W line

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.367491 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.298629 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 412.0 **LOGGED (FT.):** 3400.0 **LOG TYPE:** Electric Log

SOURCE: DAVIS ALVA C PETRO **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-640.0	CARBONDALE	HERRIN	COAL	4.0	1052.0	
-684.0	CARBONDALE	BRIAR HILL	COAL	-	1096.0	
-718.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1130.0	
-812.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1224.0	

MAPID: 19101682000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 7 **QUARTERS/FOOTAGES:** 660' S line, 660' E line of SW SE

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.358771 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.271838 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 381.0 **LOGGED (FT.):** 3463.0 **LOG TYPE:** Electric Log

SOURCE: CARTER OIL COMPANY **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-595.0	CARBONDALE	HERRIN	COAL	3.0	976.0	
-651.0	CARBONDALE	BRIAR HILL	COAL	-	1032.0	
-679.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1060.0	
-769.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1150.0	

MAPID: 19103835000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NW
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.346053 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.278214 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 415.0 **LOGGED (FT.):** 3510.0 **LOG TYPE:** Electric Log
SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-607.0	CARBONDALE	HERRIN	COAL	3.0	1022.0	
-663.0	CARBONDALE	BRIAR HILL	COAL	-	1078.0	
-692.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1107.0	
-785.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1200.0	

MAPID: 19101686000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SE
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.316504 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.27131 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 491.0 **LOGGED (FT.):** 3602.0 **LOG TYPE:** Electric Log
SOURCE: BREHM, C. E. DRLG.&PROD. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-577.0	CARBONDALE	HERRIN	COAL	4.0	1068.0	
-627.0	CARBONDALE	BRIAR HILL	COAL	-	1118.0	
-659.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1150.0	
-756.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1247.0	

MAPID: 19107306000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.307295 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.278766 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 442.0 **LOGGED (FT.):** 3565.0 **LOG TYPE:** Electric Log
SOURCE: CALVERT DRILLING, INC. **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-655.0	CARBONDALE	BRIAR HILL	COAL	-	1097.0	
-685.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1127.0	
-778.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1220.0	

MAPID: 19104448000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW NE

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.284355 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.279239 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 454.0 **LOGGED (FT.):** 3586.0 **LOG TYPE:** Electric Log

SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-576.0	CARBONDALE	HERRIN	COAL	3.0	1030.0	
-617.0	CARBONDALE	BRIAR HILL	COAL	-	1071.0	
-659.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1113.0	
-761.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1215.0	

MAPID: 19190014000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 14 **QUARTERS/FOOTAGES:** 197' N line, 709' E line of SW SW

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.295488 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.259595 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 455.3 **LOGGED (FT.):** 1396.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-91 **WELL TYPE:** Coal Test

COMMENT: CARMI 1BOX #75 CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
455.3			UNCLASSIFIED	933.0	0.0	
-477.7	CARBONDALE	DANVILLE	COAL	1.5	933.0	THICK AND DEPTH FROM G-R LOG
-479.2	CARBONDALE		UNCLASSIFIED	53.5	934.5	THICK AND DEPTH FROM G-R LOG
-532.7	CARBONDALE	BRERETON	LIMESTONE	2.5	988.0	THICK AND DEPTH FROM G-R LOG
-535.2	CARBONDALE	ANNA	GRAY SHALE	0.7	990.5	THICK FROM DRILLER'S LOG
-535.9	CARBONDALE	ANNA	BLACK SHALE	3.1	991.2	THICK FROM DRILLER'S LOG
-539.0	CARBONDALE	ANNA	GRAY SHALE	0.8	994.3	THICK FROM DRILLER'S LOG
-539.8	CARBONDALE	HERRIN	COAL	4.7	995.1	THICK FROM DRILLER'S LOG
-544.5	CARBONDALE		CLAYSTONE	2.2	999.8	THICK FROM DRILLER'S LOG
-546.7	CARBONDALE		UNCLASSIFIED	40.0	1002.0	THICK AND DEPTH FROM G-R LOG
-586.7	CARBONDALE	BRIAR HILL	COAL	1.2	1042.0	THICK AND DEPTH FROM G-R LOG
-587.9	CARBONDALE		UNCLASSIFIED	7.8	1043.2	THICK AND DEPTH FROM G-R LOG
-595.7	CARBONDALE	ST. DAVID	LIMESTONE	2.0	1051.0	THICK AND DEPTH FROM G-R LOG
-597.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	1053.0	THICK AND DEPTH FROM G-R LOG
-600.2	CARBONDALE	DYKERSBURG	GRAY SHALE	15.5	1055.5	THICK AND DEPTH FROM G-R LOG
-615.7	CARBONDALE	SPRINGFIELD	COAL	4.5	1071.0	THICK FROM DRILLER'S LOG
-620.2	CARBONDALE		CLAYSTONE	0.4	1075.5	THICK FROM DRILLER'S LOG
-620.6	CARBONDALE		UNCLASSIFIED	97.6	1075.9	THICK AND DEPTH FROM G-R LOG
-718.2	CARBONDALE	EXCELLO	BLACK SHALE	5.5	1173.5	THICK AND DEPTH FROM G-R LOG
-723.7	CARBONDALE	HOUCHIN CREEK	COAL	3.0	1179.0	THICK AND DEPTH FROM G-R LOG
-726.7	CARBONDALE		UNCLASSIFIED	59.5	1182.0	THICK AND DEPTH FROM G-R LOG
-786.2	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.7	1241.5	THICK AND DEPTH FROM G-R LOG
-787.9	CARBONDALE	COLCHESTER	COAL	1.8	1243.2	THICK AND DEPTH FROM G-R LOG
-789.7	CARBONDALE		UNCLASSIFIED	24.0	1245.0	THICKNESS AND DEPTH FROM G-R LOG
-813.7	CARBONDALE	DEKOVEN	COAL	1.0	1269.0	THICK AND DEPTH FROM G-R LOG
-814.7	CARBONDALE		UNCLASSIFIED	57.8	1270.0	THICK AND DEPTH FROM G-R LOG
-872.5	CARBONDALE		SANDSTONE	0.3	1327.8	THICK FROM DRILLER'S LOG
-872.8	CARBONDALE		GRAY SHALE	0.8	1328.1	THICK FROM DRILLER'S LOG
-873.6	CARBONDALE		SANDSTONE	24.6	1328.9	THICK FROM DRILLER'S LOG
-898.2	CARBONDALE	DAVIS	COAL	5.2	1353.5	THICKNESS FROM DRILLERS LOG
-903.4	TRADEWATER		CLAYSTONE	1.9	1358.7	THICK FROM DRILLER'S LOG
-905.3	TRADEWATER		SILTSTONE	2.8	1360.6	THICK FROM DRILLER'S LOG
-908.1	TRADEWATER		UNCLASSIFIED	32.6	1363.4	THICK FROM DRILLER'S LOG

MAPID: 19190017000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 14 **QUARTERS/FOOTAGES:** 59' N line, 544' W line of NE NE

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.281445 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.270986 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 427.5 **LOGGED (FT.):** 1395.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-105 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
427.5			UNCLASSIFIED	945.0	0.0	
-517.5	CARBONDALE	DANVILLE	COAL	1.5	945.0	THICK AND DEPTH FROM G-R LOG
-519.0	CARBONDALE		UNCLASSIFIED	44.5	946.5	THICK AND DEPTH FROM G-R LOG
-563.5	CARBONDALE		GRAY SHALE	3.8	991.0	THICK FROM DRILLER'S LOG
-567.3	CARBONDALE	BRERETON	LIMESTONE	0.3	994.8	THICK FROM DRILLER'S LOG
-567.6	CARBONDALE	ANNA	BLACK SHALE	2.6	995.1	THICK FROM DRILLER'S LOG
-570.2	CARBONDALE	HERRIN	COAL	4.9	997.7	THICK FROM DRILLER'S LOG
-575.1	CARBONDALE		CLAYSTONE	2.6	1002.6	THICK FROM DRILLER'S LOG
-577.7	CARBONDALE		UNCLASSIFIED	34.0	1005.2	THICK FROM DRILLER'S LOG
-611.7	CARBONDALE	BRIAR HILL	COAL	1.8	1039.2	THICK AND DEPTH FROM G-R LOG
-613.5	CARBONDALE		UNCLASSIFIED	5.5	1041.0	THICK AND DEPTH FROM G-R LOG
-619.0	CARBONDALE	ST. DAVID	LIMESTONE	1.5	1046.5	THICK AND DEPTH FROM G-R LOG
-620.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	1048.0	THICK AND DEPTH FROM G-R LOG
-622.5	CARBONDALE	DYKERSBURG	GRAY SHALE	34.5	1050.0	THICK AND DEPTH FROM G-R LOG
-657.0	CARBONDALE	SPRINGFIELD	COAL	4.4	1084.5	THICK FROM DRILLER'S LOG
-661.4	CARBONDALE		CLAYSTONE	2.9	1088.9	THICK FROM DRILLER'S LOG
-664.3	CARBONDALE		UNCLASSIFIED	103.7	1091.8	
-768.0	CARBONDALE	EXCELLO	BLACK SHALE	4.5	1195.5	THICK AND DEPTH FROM G-R LOG
-772.5	CARBONDALE	HOUCHIN CREEK	COAL	4.0	1200.0	THICK AND DEPTH FROM G-R LOG
-776.5	CARBONDALE		UNCLASSIFIED	63.5	1204.0	THICK AND DEPTH FROM G-R LOG
-840.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	1267.5	THICK AND DEPTH FROM G-R LOG
-842.0	CARBONDALE	COLCHESTER	COAL	2.5	1269.5	THICK AND DEPTH FROM G-R LOG
-844.5	CARBONDALE		UNCLASSIFIED	26.5	1272.0	THICK AND DEPTH FROM G-R LOG
-871.0	CARBONDALE	DEKOVEN	COAL	1.5	1298.5	THICK AND DEPTH FROM G-R LOG
-872.5	CARBONDALE		UNCLASSIFIED	42.0	1300.0	THICK AND DEPTH FROM G-R LOG
-914.5	CARBONDALE		SANDSTONE	44.9	1342.0	THICK FROM DRILLER'S LOG
-959.4	CARBONDALE		GRAY SHALE	1.0	1386.9	THICK FROM DRILLER'S LOG
-960.4	CARBONDALE	LOWER DEKOVEN	COAL	0.9	1387.9	THICK FROM DRILLER'S LOG
-961.3	CARBONDALE		BLACK SHALE	0.5	1388.8	THICK FROM DRILLER'S LOG
-961.8	CARBONDALE	DAVIS	COAL	4.7	1389.3	THICK FROM DRILLER'S LOG
-966.5	TRADEWATER		CLAYSTONE	1.0	1394.0	THICK FROM DRILLER'S LOG

MAPID: 19103342000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of SW SW

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.312388 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.258702 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 459.0 **LOGGED (FT.):** 3592.0 **LOG TYPE:** Electric Log

SOURCE: TEXACO, INC. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-548.0	CARBONDALE	HERRIN	COAL	3.0	1007.0	
-591.0	CARBONDALE	BRIAR HILL	COAL	-	1050.0	
-618.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1077.0	
-714.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1173.0	

MAPID: 19190016000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 15 **QUARTERS/FOOTAGES:** 828' N line, 72' W line of NE NE

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.301617 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.268541 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 489.9 **LOGGED (FT.):** 1181.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-108 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
489.9			UNCLASSIFIED	1026.0	0.0	THICK AND DEPTH FROM G-R LOG
-536.1	CARBONDALE	ANVIL ROCK	SANDSTONE	20.9	1026.0	THICK FROM DRILLER'S LOG
-557.0	CARBONDALE		GRAY SHALE	8.1	1046.9	THICK FROM DRILLER'S LOG
-565.1	CARBONDALE		BLACK SHALE	0.2	1055.0	THICK FROM DRILLER'S LOG
-565.3	CARBONDALE	JAMESTOWN	COAL	0.2	1055.2	THICK FROM DRILLER'S LOG
-565.5	CARBONDALE		CLAYSTONE	0.8	1055.4	THICK FROM DRILLER'S LOG
-566.3	CARBONDALE	BRERETON	LIMESTONE	1.1	1056.2	THICK FROM DRILLER'S LOG
-567.4	CARBONDALE	ANNA	BLACK SHALE	2.5	1057.3	THICK FROM DRILLER'S LOG
-569.9	CARBONDALE	HERRIN	COAL	3.0	1059.8	THICK FROM DRILLER'S LOG
-572.9	CARBONDALE	HERRIN	GRAY SHALE	0.1	1062.8	THICK FROM DRILLER'S LOG
-573.0	CARBONDALE	HERRIN	COAL	0.8	1062.9	THICK FROM DRILLER'S LOG
-573.8	CARBONDALE	HERRIN	PYRITE	0.1	1063.7	THICK FROM DRILLER'S LOG
-573.9	CARBONDALE	HERRIN	COAL	0.3	1063.8	THICK FROM DRILLER'S LOG
-574.2	CARBONDALE		UNDERCLAY	1.9	1064.1	THICK FROM DRILLER'S LOG
-576.1	CARBONDALE		CLAYSTONE	5.0	1066.0	THICK FROM DRILLER'S LOG
-581.1	CARBONDALE		UNCLASSIFIED	37.0	1071.0	
-618.1	CARBONDALE	BRIAR HILL	COAL	2.0	1108.0	THICK AND DEPTH FROM G-R LOG
-620.1	CARBONDALE		UNCLASSIFIED	9.5	1110.0	THICK AND DEPTH FROM G-R LOG
-629.6	CARBONDALE	ST. DAVID	LIMESTONE	1.7	1119.5	THICK AND DEPTH FROM G-R LOG
-631.3	CARBONDALE	TURNER MINE	BLACK SHALE	2.8	1121.2	THICK AND DEPTH FROM G-R LOG
-634.1	CARBONDALE	DYKERSBURG	GRAY SHALE	11.5	1124.0	THICK AND DEPTH FROM G-R LOG
-645.6	CARBONDALE	SPRINGFIELD	COAL	4.4	1135.5	THICK FROM DRILLER'S LOG
-650.0	CARBONDALE		CLAYSTONE	2.8	1139.9	THICK FROM DRILLER'S LOG
-652.8	CARBONDALE		LIMESTONE	1.7	1142.7	THICK FROM DRILLER'S LOG
-654.5	CARBONDALE		UNCLASSIFIED	36.6	1144.4	THICK FROM DRILLER'S LOG

MAPID: 19101688000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 16 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.326118 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.256722 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 456.0 **LOGGED (FT.):** 3556.0 **LOG TYPE:** Electric Log

SOURCE: CARTER OIL COMPANY **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-561.0	CARBONDALE	HERRIN	COAL	3.0	1017.0	
-608.0	CARBONDALE	BRIAR HILL	COAL	-	1064.0	
-637.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1093.0	
-734.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1190.0	

MAPID: 19190015000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 16 **QUARTERS/FOOTAGES:** 68' N line, 48' E line of NE SE

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.315787 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.262948 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 497.6 **LOGGED (FT.):** 1431.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-107 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
497.6			UNCLASSIFIED	981.0	0.0	THICK AND DEPTH FROM G-R LOG
-483.4	CARBONDALE	DANVILLE	COAL	1.0	981.0	THICK AND DEPTH FROM G-R LOG
-484.4	CARBONDALE		UNCLASSIFIED	55.4	982.0	THICK AND DEPTH FROM DRILLER'S LOG
-539.8	CARBONDALE		GRAY SHALE	14.4	1037.4	THICK FROM DRILLER'S LOG
-554.2	CARBONDALE	CONANT	LIMESTONE	0.3	1051.8	THICK FROM DRILLER'S LOG
-554.5	CARBONDALE	JAMESTOWN	COAL	0.4	1052.1	THICK FROM DRILLER'S LOG
-554.9	CARBONDALE		SHALE	0.3	1052.5	THICK FROM DRILLER'S LOG
-555.2	CARBONDALE	BRERETON	LIMESTONE	3.0	1052.8	THICK FROM DRILLER'S LOG
-558.2	CARBONDALE	ANNA	BLACK SHALE	3.7	1055.8	THICK FROM DRILLER'S LOG
-561.9	CARBONDALE	HERRIN	COAL	0.3	1059.5	THICK FROM DRILLER'S LOG
-562.2	CARBONDALE	HERRIN	SHALE	0.0	1059.8	THICK FROM DRILLER'S LOG
-562.2	CARBONDALE	HERRIN	COAL	0.0	1059.8	THICK FROM DRILLER'S LOG
-562.3	CARBONDALE	HERRIN	PYRITE	0.1	1059.9	THICK FROM DRILLER'S LOG
-562.3	CARBONDALE	HERRIN	COAL	2.3	1059.9	THICK FROM DRILLER'S LOG
-564.6	CARBONDALE	HERRIN	SHALE	0.1	1062.2	THICK FROM DRILLER'S LOG
-564.7	CARBONDALE	HERRIN	COAL	2.1	1062.3	THICK FROM DRILLER'S LOG
-566.8	CARBONDALE		CLAYSTONE	2.1	1064.4	THICK FROM DRILLER'S LOG
-568.9	CARBONDALE		UNCLASSIFIED	40.5	1066.5	THICK AND DEPTH FROM G-R LOG
-609.4	CARBONDALE	BRIAR HILL	COAL	1.0	1107.0	THICK AND DEPTH FROM G-R LOG
-610.4	CARBONDALE		UNCLASSIFIED	12.0	1108.0	THICK AND DEPTH FROM G-R LOG
-622.4	CARBONDALE	ST. DAVID	LIMESTONE	2.0	1120.0	THICK AND DEPTH FROM G-R LOG
-624.4	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	1122.0	THICK AND DEPTH FROM G-R LOG
-626.4	CARBONDALE	DYKERSBURG	GRAY SHALE	10.9	1124.0	THICKA ND DEPTH FROM G-R LOG
-637.3	CARBONDALE	SPRINGFIELD	BONE COAL	0.1	1134.9	THICK FROM DRILLER'S LOG
-637.4	CARBONDALE	SPRINGFIELD	COAL	4.3	1135.0	THICK FROM DRILLER'S LOG
-641.7	CARBONDALE		CLAYSTONE	4.5	1139.3	THICK FROM DRILLER'S LOG
-646.2	CARBONDALE		UNCLASSIFIED	92.2	1143.8	THICK FROM G-R LOG
-738.4	CARBONDALE	EXCELLO	BLACK SHALE	4.0	1236.0	THICK FROM G-R LOG
-742.4	CARBONDALE	HOUCHIN CREEK	COAL	3.0	1240.0	THICK FROM G-R LOG
-745.4	CARBONDALE		UNCLASSIFIED	72.0	1243.0	THICK FROM G-R LOG
-817.4	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	1315.0	THICK FROM G-R LOG
-819.4	CARBONDALE	COLCHESTER	COAL	2.0	1317.0	THICK FROM G-R LOG
-821.4	CARBONDALE		UNCLASSIFIED	39.0	1319.0	THICK FROM G-R LOG
-860.4	CARBONDALE	DEKOVEN	COAL	1.5	1358.0	THICK FROM G-R LOG
-861.9	CARBONDALE		UNCLASSIFIED	21.0	1359.5	THICK FROM G-R LOG
-882.9	CARBONDALE		SANDSTONE	11.3	1380.5	THICK FROM DRILLER'S LOG

-894.2	CARBONDALE		GRAY SHALE	0.2	1391.8	THICK FROM DRILLER'S LOG+
-894.4	CARBONDALE	DAVIS	COAL	0.6	1392.0	THICK FROM DRILLER'S LOG
-895.0	CARBONDALE	DAVIS	PYRITE	0.1	1392.6	THICK FROM DRILLER'S LOG
-895.1	CARBONDALE	DAVIS	COAL	0.7	1392.7	THICK FROM DRILLER'S LOG
-895.8	CARBONDALE	DAVIS	BLACK SHALE	0.2	1393.4	THICK FROM DRILLER'S LOG
-896.0	CARBONDALE	DAVIS	COAL	0.0	1393.6	THICK FROM DRILLER'S LOG
-896.0	CARBONDALE	DAVIS	PYRITE	0.0	1393.6	THICK FROM DRILLER'S LOG
-896.0	CARBONDALE	DAVIS	COAL	3.8	1393.6	THICK FROM DRILLER'S LOG
-899.8	TRADEWATER		CLAYSTONE	1.2	1397.4	THICK FROM DRILLER'S LOG
-901.0	TRADEWATER		UNCLASSIFIED	32.4	1398.6	THICK FROM DRILLER'S LOG

MAPID: 19103673000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' N line, 330' W line

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.350835 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.269175 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 380.0 **LOGGED (FT.):** 3405.0 **LOG TYPE:** Electric Log

SOURCE: COY OIL, INC. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-591.0	CARBONDALE	HERRIN	COAL	4.0	971.0	
-643.0	CARBONDALE	BRIAR HILL	COAL	-	1023.0	
-673.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1053.0	
-764.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1144.0	

MAPID: 19128608000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 17 **QUARTERS/FOOTAGES:** 61' N line, 815' W line of SE NE

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.335548 **GEOLOGIST:** PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.266402 **DATE COLLECTED:** 1 / 24 / 1975

SURFACE ELEVATION (FT.): 418.2 **LOGGED (FT.):** 1393.0 **LOG TYPE:** Other Core Study

SOURCE: AMAX C.C. C1-112 **WELL TYPE:** Coal Test

COMMENT: DRILLERS LOG INCLUDED; GAMMA/NEUTRON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-585.0	CARBONDALE	JAMESTOWN	COAL	0.3	1003.2	
-593.9	CARBONDALE	HERRIN	COAL	4.7	1012.1	
-674.3	CARBONDALE	SPRINGFIELD	COAL	4.9	1092.5	
-929.9	SPOON	SEELYVILLE	COAL	7.7	1348.1	

MAPID: 19190013000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 17 **QUARTERS/FOOTAGES:** 62' N line, 815' W line of SE NE

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.335548 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.266399 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 418.2 **LOGGED (FT.):** 1393.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-112 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
418.2			UNCLASSIFIED	948.5	0.0	
-530.3	CARBONDALE	DANVILLE	COAL	2.0	948.5	THICK FROM DRILLER'S LOG
-532.3	CARBONDALE		UNCLASSIFIED	33.4	950.5	THICK FROM G-R LOG
-565.7	CARBONDALE		SANDSTONE	7.3	983.9	THICK FROM DRILLER'S LOG
-573.0	CARBONDALE		GRAY SHALE	4.9	991.2	THICK FROM DRILLER'S LOG
-577.9	CARBONDALE		BLACK SHALE	0.8	996.1	THICK FROM DRILLER'S LOG
-578.7	CARBONDALE		BONE COAL	0.3	996.9	THICK FROM DRILLER'S LOG
-579.0	CARBONDALE		LIMESTONE	0.4	997.2	THICK FROM DRILLER'S LOG
-579.4	CARBONDALE		BLACK SHALE	2.0	997.6	THICK FROM DRILLER'S LOG
-581.4	CARBONDALE	BRERETON	LIMESTONE	4.9	999.6	THICK FROM DRILLER'S LOG
-586.3	CARBONDALE	ANNA	BLACK SHALE	2.3	1004.5	THICK FROM DRILLER'S LOG
-588.6	CARBONDALE	HERRIN	COAL	0.2	1006.8	THICK FROM DRILLER'S LOG
-588.8	CARBONDALE	HERRIN	GRAY SHALE	0.1	1007.0	THICK FROM DRILLER'S LOG
-588.9	CARBONDALE	HERRIN	COAL	2.5	1007.1	THICK FROM DRILLER'S LOG
-591.4	CARBONDALE	HERRIN	GRAY SHALE	0.1	1009.6	THICK FROM DRILLER'S LOG
-591.5	CARBONDALE	HERRIN	COAL	2.1	1009.7	THICK FROM DRILLER'S LOG
-593.6	CARBONDALE		CLAYSTONE	2.6	1011.8	THICK FROM DRILLER'S LOG
-596.2	CARBONDALE		UNCLASSIFIED	43.6	1014.4	THICK FROM DRILLER'S LOG
-639.8	CARBONDALE	BRIAR HILL	COAL	2.0	1058.0	THICK AND DEPTH FROM G-R LOG
-641.8	CARBONDALE		UNCLASSIFIED	16.5	1060.0	THICK AND DEPTH FROM G-R LOG
-658.3	CARBONDALE	ST. DAVID	LIMESTONE	1.5	1076.5	THICK AND DEPTH FROM G-R LOG
-659.8	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	1078.0	THICK AND DEPTH FROM G-R LOG
-662.8	CARBONDALE	DYKERSBURG	GRAY SHALE	7.5	1081.0	THICK AND DEPTH FROM G-R LOG
-670.3	CARBONDALE	SPRINGFIELD	COAL	4.9	1088.5	THICK FROM DRILLER'S LOG
-675.2	CARBONDALE		CLAYSTONE	2.0	1093.4	THICKNESS FROM DRILLERS LOG
-677.2	CARBONDALE		UNCLASSIFIED	92.1	1095.4	THICK FROM DRILLER'S LOG
-769.3	CARBONDALE	EXCELLO	BLACK SHALE	3.5	1187.5	THICK AND DEPTH FROM G-R LOG
-772.8	CARBONDALE	HOUCHIN CREEK	COAL	2.0	1191.0	THICK AND DEPTH FROM G-R LOG
-774.8	CARBONDALE		UNCLASSIFIED	71.0	1193.0	THICK AND DEPTH FROM G-R LOG
-845.8	CARBONDALE	MECCA QUARRY	BLACK SHALE	3.0	1264.0	THICK AND DEPTH FROM G-R LOG
-848.8	CARBONDALE	COLCHESTER	COAL	2.0	1267.0	THICK AND DEPTH FROM G-R LOG
-850.8	CARBONDALE		UNCLASSIFIED	38.0	1269.0	THICK AND DEPTH FROM G-R LOG
-888.8	CARBONDALE	DEKOVEN	COAL	3.0	1307.0	THICK AND DEPTH FROM G-R
-891.8	CARBONDALE		UNCLASSIFIED	25.8	1310.0	THICK AND DEPTH FROM G-R LOG
-917.6	CARBONDALE		GRAY SHALE	8.1	1335.8	THICK FROM DRILLER'S LOG
-925.7	CARBONDALE	LOWER DEKOVEN	COAL	1.5	1343.9	THICK FROM DRILLER'S LOG

-927.2	CARBONDALE		BLACK SHALE	1.6	1345.4	THICK FROM DRILLER'S LOG
-928.8	CARBONDALE	DAVIS	COAL	4.6	1347.0	THICK FROM DRILLER'S LOG
-933.4	TRADEWATER		CLAYSTONE	1.2	1351.6	THICK FROM DRILLER'S LOG
-934.6	TRADEWATER		UNCLASSIFIED	40.2	1352.8	THICK FROM DRILLER'S LOG

MAPID: 19103837000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SE

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.360161 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.259969 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 376.0 **LOGGED (FT.):** 3450.0 **LOG TYPE:** Electric Log

SOURCE: PACO PETROLEUM CORP **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
-661.0	CARBONDALE	SPRINGFIELD	COAL	6.0	1037.0	
-756.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1132.0	
-583.0	CARBONDALE	HERRIN	COAL	3.0	959.0	
-636.0	CARBONDALE	BRIAR HILL	COAL	-	1012.0	

MAPID: 19190018000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 8E **SECTION:** 20 **QUARTERS/FOOTAGES:** 114' N line, 42' W line of SE SE

QUADRANGLE: SPRINGERTON **LONGITUDE:** -88.33892 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.244588 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 437.3 **LOGGED (FT.):** 1358.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-106 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
437.3			UNCLASSIFIED	918.5	0.0	
-481.2	CARBONDALE	DANVILLE	COAL	2.5	918.5	THICK AND DEPTH FROM G-R LOG
-483.7	CARBONDALE		UNCLASSIFIED	55.0	921.0	THICK AND DEPTH FROM DRILLER'S LOG
-538.7	CARBONDALE	BRERETON	LIMESTONE	4.0	976.0	THICK AND DEPTH FROM G-R LOG
-542.7	CARBONDALE	ANNA	BLACK SHALE	2.9	980.0	THICK FROM DRILLER'S LOG
-545.6	CARBONDALE	HERRIN	COAL	4.7	982.9	THICK FROM DRILLER'S LOG
-550.3	CARBONDALE		CLAYSTONE	2.8	987.6	THICK FROM DRILLER'S LOG
-553.1	CARBONDALE		UNCLASSIFIED	41.6	990.4	
-594.7	CARBONDALE	BRIAR HILL	COAL	1.5	1032.0	THICK AND DEPTH FROM G-R LOG
-596.2	CARBONDALE		UNCLASSIFIED	14.5	1033.5	THICK AND DEPTH FROM G-R LOG
-610.7	CARBONDALE	ST. DAVID	LIMESTONE	1.0	1048.0	THICK AND DEPTH FROM G-R LOG
-611.7	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	1049.0	THICK AND DEPTH FROM G-R LOG
-614.7	CARBONDALE	DYKERSBURG	GRAY SHALE	8.0	1052.0	THICK AND DEPTH FROM G-R LOG
-622.7	CARBONDALE	SPRINGFIELD	COAL	4.3	1060.0	THICK FROM DRILLER'S LOG
-627.0	CARBONDALE		CLAYSTONE	3.3	1064.3	THICK FROM DRILLER'S LOG
-630.3	CARBONDALE		UNCLASSIFIED	103.4	1067.6	THICK AND DEPTH FROM G-R LOG
-733.7	CARBONDALE	EXCELLO	BLACK SHALE	3.7	1171.0	THICK AND DEPTH FORM G-R LOG
-737.4	CARBONDALE	HOUCHIN CREEK	COAL	1.8	1174.7	THICK AND DEPTH FROM G-R LOG
-739.2	CARBONDALE		UNCLASSIFIED	67.5	1176.5	THICK AND DEPTH FROM G-R LOG
-806.7	CARBONDALE	MECCA QUARRY	BLACK SHALE	4.0	1244.0	THICK AND DEPTH FROM G-R LOG
-810.7	CARBONDALE	COLCHESTER	COAL	2.0	1248.0	THICK AND DEPTH FROM G-R LOG
-812.7	CARBONDALE		UNCLASSIFIED	37.0	1250.0	THICK AND DEPTH FROM G-R LOG
-849.7	CARBONDALE	DEKOVEN	COAL	1.0	1287.0	THICKNESS AND DEPTH FROM G-R LOG
-850.7	CARBONDALE		UNCLASSIFIED	43.0	1288.0	THICK AND DEPTH FORM G-R LOG
-893.7	CARBONDALE	DAVIS	COAL	6.8	1331.0	THICK AND DEPTH FROM G-R LOG
-900.5	TRADEWATER		UNCLASSIFIED	7.2	1337.8	THICK AND DEPTH FROM G-R LOG
-907.7	TRADEWATER		GRAY SHALE	4.6	1345.0	THICK FROM DRILLER'S LOG
-912.3	TRADEWATER		SANDSTONE	2.4	1349.6	THICK FROM DRILLER'S LOG
-914.7	TRADEWATER		GRAY SHALE	4.6	1352.0	THICK FROM DRILLER'S LOG
-919.3	TRADEWATER		UNCLASSIFIED	1.4	1356.6	THICK FROM DRILLER'S LOG

MAPID: 19100438000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 1 **QUARTERS/FOOTAGES:** 660' N line, 660' W line of SE NW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.161183 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.294118 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 410.0 **LOGGED (FT.):** 3451.0 **LOG TYPE:** Electric Log

SOURCE: CHERRY, KIDD & BARRON **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-513.0	CARBONDALE	HERRIN	COAL	3.0	923.0	
-544.0	CARBONDALE	BRIAR HILL	COAL	-	954.0	
-604.0	CARBONDALE	SPRINGFIELD	COAL	6.0	1014.0	
-724.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1134.0	

MAPID: 19100438000C **VERSION:** 3 **PROJECT:** CONTROL

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 1 **QUARTERS/FOOTAGES:** 660' N line, 660' W line of SE NW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.161183 **GEOLOGIST:** HINES

CONFIDENTIAL: N **LATITUDE:** 38.294118 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3451.0 **LOG TYPE:** Survey Sample Study

SOURCE: CHERRY, KIDD & BARRON **WELL TYPE:** Oil and Gas Test

COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

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

MAPID: 19100438000C **VERSION:** 4 **PROJECT:** NCRDS96

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 1 **QUARTERS/FOOTAGES:** 660' N line, 660' W line of SE NW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.161183 **GEOLOGIST:** MCCRACKEN

CONFIDENTIAL: N **LATITUDE:** 38.294118 **DATE COLLECTED:** 10 / 0 / 1942

SURFACE ELEVATION (FT.): 410.0 **LOGGED (FT.):** 940.0 **LOG TYPE:** Survey Sample Study

SOURCE: CHERRY & BARRON KIDD 1 **WELL TYPE:** Plugged and/or Abandoned

COMMENT: COAL DIVISION CONTROL WELL #81

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
410.0			UNKNOWN	170.0	0.0	
240.0	BOND		SILTSTONE	50.0	170.0	WITH SHALE
190.0	BOND		SILTSTONE	69.0	220.0	WITH SANDSTONE
121.0	BOND		COAL	1.0	289.0	APPROXIMATE THICKNESS
120.0	BOND		LIMESTONE	1.0	290.0	
119.0	BOND		SILTY SHALE	27.0	291.0	
92.0	BOND		BLACK SHALE	1.0	318.0	
91.0	BOND		SHALE	4.0	319.0	
87.0	BOND		LIMESTONE	1.0	323.0	
86.0	BOND		SHALY SANDSTONE	20.0	324.0	
66.0	BOND	CARTHAGE	LIMESTONE	5.0	344.0	
61.0	MODESTO		SILTSTONE	11.0	349.0	
50.0	MODESTO		SHALE	8.0	360.0	
42.0	MODESTO		BLACK SHALE	1.0	368.0	
41.0	MODESTO		SILTSTONE	25.0	369.0	WITH SANDSTONE
16.0	MODESTO		SHALE & SANDSTONE	6.0	394.0	
10.0	MODESTO		BLACK SHALE	1.0	400.0	
9.0	MODESTO		COAL	1.0	401.0	APPROXIMATE THICKNESS
8.0	MODESTO		SILTY SHALE	10.0	402.0	
-2.0	MODESTO		SANDSTONE	86.0	412.0	
-88.0	MODESTO		BLACK SHALE	2.0	498.0	
-90.0	MODESTO		SANDSTONE/SHALE	54.0	500.0	
-144.0	MODESTO		BLACK SHALE	2.0	554.0	
-146.0	MODESTO		COAL	2.0	556.0	APPROXIMATE THICKNESS
-148.0	MODESTO		SILTY SANDSTONE	87.0	558.0	
-235.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	645.0	
-244.0	MODESTO		SHALE	7.0	654.0	WITH BLACKSHALE
-251.0	MODESTO		LIMESTONE	1.0	661.0	
-252.0	MODESTO		SILTSTONE	8.0	662.0	
-260.0	MODESTO		BLACK SHALE	1.0	670.0	
-261.0	MODESTO		SHALE	37.0	671.0	
-298.0	MODESTO		LIMESTONE	2.0	708.0	
-300.0	MODESTO		SILTSTONE	26.0	710.0	
-326.0	MODESTO		SANDSTONE	66.0	736.0	
-392.0	MODESTO		SILTSTONE	38.0	802.0	
-430.0	MODESTO		SHALE	20.0	840.0	
-450.0	MODESTO		BLACK SHALE	1.0	860.0	
-451.0	MODESTO		COAL	1.0	861.0	APPROXIMATE THICKNESS

-452.0	MODESTO		UNDERCLAY	1.0	862.0	
-453.0	MODESTO		SILTY SHALE	21.0	863.0	
-474.0	MODESTO		BLACK SHALE	1.0	884.0	
-475.0	CARBONDALE	DANVILLE	COAL	1.0	885.0	APPROXIMATE THICKNESS
-476.0	CARBONDALE	ANVIL ROCK	SANDSTONE	35.0	886.0	
-511.0	CARBONDALE	BRERETON	BLACK LIMESTONE	4.0	921.0	
-515.0	CARBONDALE	ANNA	BLACK SHALE	1.0	925.0	
-516.0	CARBONDALE	HERRIN	COAL	4.0	926.0	APPROXIMATE THICKNESS
-520.0	CARBONDALE		UNDERCLAY	1.0	930.0	
-521.0	CARBONDALE		SANDSTONE	9.0	931.0	

MAPID: 19101878000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE NW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.180772 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.298604 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 386.0 **LOGGED (FT.):** 3450.0 **LOG TYPE:** Electric Log

SOURCE: CARTER OIL COMPANY **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-508.0	CARBONDALE	HERRIN	COAL	4.0	894.0	
-537.0	CARBONDALE	BRIAR HILL	COAL	-	923.0	
-602.0	CARBONDALE	SPRINGFIELD	COAL	5.0	988.0	
-717.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1103.0	

MAPID: 19190010000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 2 **QUARTERS/FOOTAGES:** SW SW NW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.185148 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.292858 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 383.1 **LOGGED (FT.):** 1317.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-128 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
383.1			UNCLASSIFIED	845.0	0.0	THICK FROM G-R LOG
-461.9	CARBONDALE	DANVILLE	COAL	2.0	845.0	THICK FROM G-R LOG
-463.9	CARBONDALE		UNCLASSIFIED	52.0	847.0	THICK FROM G-R LOG
-515.9	CARBONDALE	BRERETON	LIMESTONE	3.0	899.0	THICK FROM G-R LOG
-518.9	CARBONDALE	ANNA	BLACK SHALE	1.3	902.0	THICK FROM DRILLER'S LOG
-520.2	CARBONDALE	HERRIN	COAL	3.2	903.3	THICK FROM DRILLER`S LOG
-523.4	CARBONDALE	HERRIN	GRAY SHALE	0.2	906.5	THICK FROM DRILLER'S LOG
-523.6	CARBONDALE	HERRIN	COAL	1.2	906.7	THICK FROM DRILLER'S LOG
-524.8	CARBONDALE		CLAYSTONE	3.8	907.9	THICK FROM DRILLER'S LOG
-528.6	CARBONDALE		UNCLASSIFIED	24.3	911.7	THICK FROM G-R LOG
-552.9	CARBONDALE	BRIAR HILL	COAL	1.0	936.0	THICK FROM G-R LOG
-553.9	CARBONDALE		UNCLASSIFIED	3.0	937.0	THICK FROM G-R LOG
-556.9	CARBONDALE	DYKERSBURG	GRAY SHALE	60.0	940.0	THICK FROM G-R LOG
-616.9	CARBONDALE	SPRINGFIELD	COAL	4.4	1000.0	THICK FROM DRILLER'S LOG
-621.3	CARBONDALE		CLAYSTONE	4.6	1004.4	THICK FROM DRILLER'S LOG
-625.9	CARBONDALE		UNCLASSIFIED	107.5	1009.0	THICKNESS FROM G-R LOG
-733.4	CARBONDALE	EXCELLO	BLACK SHALE	4.0	1116.5	THICK FROM G-R LOG
-737.4	CARBONDALE	HOUCHIN CREEK	COAL	3.5	1120.5	THICK FROM G-R LOG
-740.9	CARBONDALE		UNCLASSIFIED	67.2	1124.0	THICK FROM G-R LOG
-808.1	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.8	1191.2	THICK FROM G-R LOG
-810.9	CARBONDALE	COLCHESTER	COAL	1.5	1194.0	THICK FROM G-R LOG
-812.4	CARBONDALE		UNCLASSIFIED	27.5	1195.5	THICK FROM G-R LOG
-839.9	CARBONDALE	DEKOVEN	COAL	3.0	1223.0	THICK FROM G-R LOG
-842.9	CARBONDALE		GRAY SHALE	38.8	1226.0	THICK FROM DRILLER'S LOG
-881.7	CARBONDALE		GRAY SHALE	8.2	1264.8	THICK FROM DRILLER'S LOG
-889.9	CARBONDALE	LOWER DEKOVEN	COAL	1.1	1273.0	THICK FROM DRILLER'S LOG
-891.0	CARBONDALE		BLACK SHALE	1.0	1274.1	THICK FROM DRILLER'S LOG
-892.0	CARBONDALE	DAVIS	COAL	2.7	1275.1	THICK FROM DRILLER'S LOG
-894.7	CARBONDALE	DAVIS	PYRITE	0.1	1277.8	THICK FROM DRILLER'S LOG
-894.8	CARBONDALE	DAVIS	COAL	1.0	1277.9	THICK FROM DRILLER'S LOG
-895.8	CARBONDALE	DAVIS	BONE COAL	0.3	1278.9	THICK FROM DRILLER'S LOG
-896.1	TRADEWATER		CLAYSTONE	2.9	1279.2	THICK FROM DRILLER'S LOG
-899.0	TRADEWATER		LIMESTONE	0.2	1282.1	THICK FROM DRILLER'S LOG
-899.2	TRADEWATER		GRAY SHALE	0.2	1282.3	THICK FROM DRILLER'S LOG
-899.4	TRADEWATER		UNCLASSIFIED	34.5	1282.5	

MAPID: 19190008000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 3 **QUARTERS/FOOTAGES:** 66' N line, 261' W line of NE SW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.199365 **GEOLOGIST:** J. MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.292481 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 383.5 **LOGGED (FT.):** 1326.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-117 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
383.5			UNCLASSIFIED	835.0	0.0	
-451.5	CARBONDALE	DANVILLE	COAL	2.2	835.0	THICK FROM G-R LOG
-453.7	CARBONDALE		UNCLASSIFIED	57.8	837.2	
-511.5	CARBONDALE	ANVIL ROCK	SANDSTONE	10.3	895.0	THICK FROM DRILLER'S LOG
-521.8	CARBONDALE		GRAY SHALE	1.2	905.3	THICK FROM DRILLER'S LOG
-523.0	CARBONDALE	JAMESTOWN	BLACK SHALE	1.3	906.5	THICK FROM DRILLER'S LOG
-524.3	CARBONDALE	BRERETON	LIMESTONE	3.1	907.8	THICK FROM DRILLER'S LOG
-527.4	CARBONDALE	ANNA	BLACK SHALE	0.6	910.9	THICK FROM DRILLER'S LOG
-528.0	CARBONDALE	HERRIN	COAL	0.8	911.5	THICK FROM DRILLER'S LOG
-528.8	CARBONDALE	HERRIN	PYRITE	0.1	912.3	THICK FROM DRILLER'S LOG
-528.9	CARBONDALE	HERRIN	COAL	2.5	912.4	THICK FROM DRILLER'S LOG
-531.4	CARBONDALE	HERRIN	GRAY SHALE	0.1	914.9	THICK FROM DRILLER'S LOG
-531.5	CARBONDALE	HERRIN	COAL	1.0	915.0	THICK FROM DRILLER'S LOG
-532.5	CARBONDALE		CLAYSTONE	2.6	916.0	THICK FROM DRILLER'S LOG
-535.1	CARBONDALE		SILTSTONE	0.8	918.6	THICK FROM DRILLER'S LOG
-535.9	CARBONDALE		UNCLASSIFIED	28.6	919.4	
-564.5	CARBONDALE	BRIAR HILL	COAL	1.2	948.0	THICK FROM G-R LOG
-565.7	CARBONDALE		UNCLASSIFIED	10.8	949.2	THICK FROM G-R LOG
-576.5	CARBONDALE	DYKERSBURG	GRAY SHALE	53.5	960.0	THICK FROM G-R LOG
-630.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1013.5	THICK FROM DRILLER'S LOG
-635.0	CARBONDALE		CLAYSTONE	2.3	1018.5	THICK FROM DRILLER'S LOG
-637.3	CARBONDALE		UNCLASSIFIED	105.2	1020.8	THICK FROM G-R LOG
-742.5	CARBONDALE	EXCELLO	BROWN SHALE	4.5	1126.0	THICK FROM G-R LOG
-747.0	CARBONDALE	HOUCHIN CREEK	COAL	3.5	1130.5	THICK FROM G-R LOG
-750.5	CARBONDALE		UNCLASSIFIED	70.0	1134.0	THICK FROM G-R LOG
-820.5	CARBONDALE	MECCA QUARRY	BROWN SHALE	3.0	1204.0	THICK FROM G-R LOG
-823.5	CARBONDALE	COLCHESTER	COAL	2.0	1207.0	THICK FROM G-R LOG
-825.5	CARBONDALE		UNCLASSIFIED	27.0	1209.0	THICK FROM G-R LOG
-852.5	CARBONDALE	DEKOVEN	COAL	3.0	1236.0	THICK FROM G-R LOG
-855.5	CARBONDALE		UNCLASSIFIED	35.0	1239.0	THICK FROM G-R LOG
-890.5	CARBONDALE		GRAY SHALE	7.0	1274.0	THICK FROM DRILLER'S LOG
-897.5	CARBONDALE	LOWER DEKOVEN	COAL	1.9	1281.0	THICK FROM DRILLER'S LOG
-899.4	CARBONDALE		BLACK SHALE	0.2	1282.9	THICK FROM DRILLER'S LOG
-899.6	CARBONDALE	DAVIS	COAL	4.3	1283.1	THICK FROM DRILLER'S LOG
-903.9	TRADEWATER		CLAYSTONE	1.6	1287.4	THICK FROM DRILLER'S LOG
-905.5	TRADEWATER		CLAYSTONE	1.4	1289.0	THICK FROM DRILLER'S LOG

-906.9	TRADEWATER	SANDSTONE	1.3	1290.4	THICK FROM DRILLER'S LOG
-908.2	TRADEWATER	UNCLASSIFIED	34.3	1291.7	THICK FROM DRILLER'S LOG

MAPID: 19190009000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 3 **QUARTERS/FOOTAGES:** 48' S line, 66' E line of SE SE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.187053 **GEOLOGIST:** J. MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.285635 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 381.8 **LOGGED (FT.):** 1332.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-118 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
381.8			UNCLASSIFIED	857.5	0.0	THICK FROM G-R LOG
-475.7	CARBONDALE	DANVILLE	COAL	1.5	857.5	THICK FROM G-R LOG
-477.2	CARBONDALE		UNCLASSIFIED	47.1	859.0	THICK FROM G-R LOG
-524.3	CARBONDALE		SILTSTONE	0.7	906.1	THICK FROM DRILLER'S LOG
-524.9	CARBONDALE		SANDSTONE	0.2	906.7	THICK FROM DRILLER'S LOG
-525.1	CARBONDALE		SILTSTONE	1.8	906.9	THICK FROM DRILLER'S LOG
-526.9	CARBONDALE		GRAY SHALE	13.3	908.7	THICK FROM DRILLER'S LOG
-540.2	CARBONDALE		LIMESTONE	0.3	922.0	THICK FROM DRILLER'S LOG
-540.5	CARBONDALE		GRAY SHALE	1.7	922.3	BLACK AT BASE; MARINE FOSSILS
-542.2	CARBONDALE	BRERETON	LIMESTONE	3.1	924.0	THICK FROM DRILLER'S LOG
-545.3	CARBONDALE	ANNA	BLACK SHALE	0.7	927.1	THICK FROM DRILLER'S LOG
-546.0	CARBONDALE	HERRIN	COAL	3.2	927.8	THICK FROM DRILLER'S LOG
-549.2	CARBONDALE	HERRIN	GRAY SHALE	0.1	931.0	THICK FROM DRILLER'S LOG
-549.3	CARBONDALE	HERRIN	COAL	1.3	931.1	THICK FROM DRILLER'S LOG
-550.6	CARBONDALE		CLAYSTONE	3.8	932.4	THICK FROM DRILLER'S LOG
-554.4	CARBONDALE		UNCLASSIFIED	27.0	936.2	THICK FROM G-R LOG
-581.4	CARBONDALE	BRIAR HILL	COAL	0.8	963.2	THICK FROM G-R LOG
-582.2	CARBONDALE		UNCLASSIFIED	55.0	964.0	THICK FROM DRILLER'S LOG
-637.2	CARBONDALE	DYKERSBURG	GRAY SHALE	13.0	1019.0	THICK FROM DRILLER'S LOG
-650.2	CARBONDALE	SPRINGFIELD	COAL	4.8	1032.0	THICK FROM DRILLER'S LOG
-655.0	CARBONDALE		CLAYSTONE	3.4	1036.8	THICK FROM DRILLER'S LOG
-658.4	CARBONDALE		UNCLASSIFIED	111.8	1040.2	THICK FROM G-R LOG
-770.2	CARBONDALE	EXCELLO	BLACK SHALE	6.0	1152.0	THICK FROM G-R LOG
-776.2	CARBONDALE	HOUCHIN CREEK	UNCLASSIFIED	1.2	1158.0	THICK FROM G-R LOG
-777.4	CARBONDALE		UNCLASSIFIED	68.8	1159.2	THICK FROM G-R LOG
-846.2	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	1228.0	THICK FROM G-R LOG
-848.2	CARBONDALE	COLCHESTER	COAL	2.5	1230.0	THICK FROM G-R LOG
-850.7	CARBONDALE		UNCLASSIFIED	36.5	1232.5	THICK FROM G-R LOG
-887.2	CARBONDALE	DEKOVEN	COAL	2.5	1269.0	THICK FROM G-R LOG
-889.7	CARBONDALE		UNCLASSIFIED	24.5	1271.5	E-LOG ENDS AT 1303'
-914.2	CARBONDALE		GRAY SHALE	16.0	1296.0	DEPTHS ESTIMATED
-930.2	CARBONDALE		SANDSTONE	2.1	1312.0	DEPTHS ESTIMATED
-932.3	CARBONDALE		GRAY SHALE	8.1	1314.1	DEPTHS ESTMATED
-940.4	CARBONDALE	LOWER DEKOVEN	COAL	1.6	1322.2	DEPTHS ESTIMATED
-942.0	CARBONDALE		BLACK SHALE	0.1	1323.8	DEPTHS ESTIMATED
-942.1	CARBONDALE	DAVIS	COAL	4.0	1323.9	DEPTHS ESTIMATED

-946.1	TRADEWATER	CLAYSTONE	4.1	1327.9	DEPTHS ESTIMATED

MAPID: 19101909000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 4 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE NE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.208157 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.293527 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 385.0 **LOGGED (FT.):** 3392.0 **LOG TYPE:** Electric Log

SOURCE: CULLUM & LAWHEAD **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-508.0	CARBONDALE	HERRIN	COAL	2.0	893.0	
-545.0	CARBONDALE	BRIAR HILL	COAL	-	930.0	
-613.0	CARBONDALE	SPRINGFIELD	COAL	3.0	998.0	
-727.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1112.0	

MAPID: 19190002000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 4 **QUARTERS/FOOTAGES:** 434' S line, 233' W line of SW NW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.222141 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.293986 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 437.1 **LOGGED (FT.):** 1391.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-119 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
437.1			UNCLASSIFIED	899.0	0.0	THICK FROM G-R LOG
-461.9	CARBONDALE	DANVILLE	COAL	2.0	899.0	THICK FROM G-R LOG
-463.9	CARBONDALE		UNCLASSIFIED	62.2	901.0	THICK FROM G-R LOG
-526.1	CARBONDALE	ANNA	CALCAREOUS SHALE	2.4	963.2	THICK FROM DRILLER'S LOG
-528.5	CARBONDALE	ANNA	FOSSILIFEROUS LIMESTONE	0.3	965.6	NODULE
-528.8	CARBONDALE	HERRIN	COAL	2.9	965.9	THICK FROM DRILLER'S LOG
-531.7	CARBONDALE	HERRIN	PYRITE	0.1	968.8	THICK FROM DRILLER'S LOG
-531.8	CARBONDALE	HERRIN	COAL	0.1	968.9	THICK FROM DRILLER'S LOG
-531.9	CARBONDALE	HERRIN	GRAY SHALE	0.1	969.0	THICK FROM DRILLER'S LOG
-532.0	CARBONDALE	HERRIN	COAL	1.4	969.1	THICK FROM DRILLER'S LOG
-533.4	CARBONDALE		UNCLASSIFIED	30.7	970.5	THICK FROM G-R LOG
-564.1	CARBONDALE	BRIAR HILL	COAL	1.3	1001.2	THICK FROM G-R LOG
-565.4	CARBONDALE		UNCLASSIFIED	3.5	1002.5	THICK FROM G-R LOG
-568.9	CARBONDALE	DYKERSBURG	GRAY SHALE	58.0	1006.0	THICK FROM G-R LOG
-626.9	CARBONDALE	SPRINGFIELD	COAL	0.9	1064.0	THICK FROM DRILLER'S LOG
-627.8	CARBONDALE	SPRINGFIELD	PYRITE	0.1	1064.9	THICK FROM DRILLER'S LOG
-627.9	CARBONDALE	SPRINGFIELD	COAL	0.2	1065.0	THICK FROM DRILLER'S LOG
-628.1	CARBONDALE	SPRINGFIELD	PYRITE	0.1	1065.2	THICK FROM G-R LOG
-628.1	CARBONDALE	SPRINGFIELD	COAL	3.1	1065.2	THICK FROM DRILLER'S LOG
-631.2	CARBONDALE		CLAYSTONE	5.1	1068.3	THICK FROM DRILLER'S LOG
-636.3	CARBONDALE		UNCLASSIFIED	110.6	1073.4	THICK FROM G-R LOG
-746.9	CARBONDALE	EXCELLO	BLACK SHALE	5.0	1184.0	THICK FROM G-R LOG
-751.9	CARBONDALE	HOUCHIN CREEK	COAL	4.0	1189.0	THICK FROM G-R LOG
-755.9	CARBONDALE		UNCLASSIFIED	68.0	1193.0	THICK FROM G-R LOG
-823.9	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	1261.0	THICK FROM G-R LOG
-825.9	CARBONDALE	COLCHESTER	COAL	2.0	1263.0	THICK FROM G-R LOG
-827.9	CARBONDALE		UNCLASSIFIED	46.5	1265.0	THICK FROM G-R LOG
-874.4	CARBONDALE	DEKOVEN	COAL	4.0	1311.5	THICK FROM G-R LOG
-878.4	CARBONDALE		UNCLASSIFIED	22.2	1315.5	THICK FROM G-R LOG
-900.6	CARBONDALE		GRAY SHALE	4.3	1337.7	THICK FROM DRILLER'S LOG
-904.9	CARBONDALE	LOWER DEKOVEN	COAL	1.1	1342.0	THICK FROM DRILLER'S LOG
-906.0	CARBONDALE		BLACK SHALE	0.6	1343.1	THICK FROM DRILLER'S LOG
-906.6	CARBONDALE	DAVIS	COAL	3.5	1343.7	THICK FROM DRILLER'S LOG
-910.1	TRADEWATER		CLAYSTONE	3.0	1347.2	THICK FROM DRILLER'S LOG
-913.1	TRADEWATER		LIMESTONE	0.6	1350.2	THICK FROM DRILLER'S LOG

-913.7	TRADEWATER	UNCLASSIFIED	40.2	1350.8	THICK FROM DRILLER'S LOG

MAPID: 19103178000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 5 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NW NE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.228644 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.297294 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 382.0 **LOGGED (FT.):** 3375.0 **LOG TYPE:** Electric Log

SOURCE: DAVIS ALVA C PETRO **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-526.0	CARBONDALE	HERRIN	COAL	4.0	908.0	
-560.0	CARBONDALE	BRIAR HILL	COAL	-	942.0	
-622.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1004.0	
-733.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1115.0	

MAPID: 19103840000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' S line, 660' E line of SE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.244121 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.286809 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 469.0 **LOGGED (FT.):** 3461.0 **LOG TYPE:** Electric Log

SOURCE: NAT'L. ASSOC. PETRO. CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-527.0	CARBONDALE	HERRIN	COAL	3.0	996.0	
-564.0	CARBONDALE	BRIAR HILL	COAL	-	1033.0	
-627.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1096.0	
-741.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1210.0	

MAPID: 19128609000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 6 **QUARTERS/FOOTAGES:** 350' N line, 119' E line of NW SE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.246707 **GEOLOGIST:** PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.291989 **DATE COLLECTED:** 2 / 14 / 1975

SURFACE ELEVATION (FT.): 468.4 **LOGGED (FT.):** 1410.0 **LOG TYPE:** Other Core Study

SOURCE: AMAX C.C. C1-116 **WELL TYPE:** Coal Test

COMMENT: DRILLERS LOG INCLUDED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-530.2	CARBONDALE	HERRIN	COAL	4.3	998.6	
-629.6	CARBONDALE	SPRINGFIELD	COAL	4.3	1098.0	
-915.1	SPOON	SEELYVILLE	COAL	6.3	1383.5	

MAPID: 19190007000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 6 **QUARTERS/FOOTAGES:** 350' N line, 119' E line of NW SE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.246707 **GEOLOGIST:** J. MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.291989 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 468.4 **LOGGED (FT.):** 1410.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-116 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
468.4			UNCLASSIFIED	923.0	0.0	
-454.6	CARBONDALE	DANVILLE	COAL	2.5	923.0	THICK FROM G-R LOG
-457.1	CARBONDALE		UNCLASSIFIED	60.9	925.5	THICK FROM G-R LOG
-518.0	CARBONDALE		SANDSTONE	6.8	986.4	THICK FROM DRILLER'S LOG
-524.8	CARBONDALE		GRAY SHALE	0.8	993.2	THICK FROM DRILLER'S LOG
-525.6	CARBONDALE	HERRIN	COAL	0.1	994.0	THICK FROM DRILLER'S LOG
-525.7	CARBONDALE	HERRIN	GRAY SHALE	0.2	994.1	50% PYRITE
-525.9	CARBONDALE	HERRIN	COAL	3.9	994.3	THICK FROM DRILLER'S LOG
-529.8	CARBONDALE	HERRIN	PYRITE	0.1	998.2	THICK FROM DRILLER'S LOG
-529.9	CARBONDALE	HERRIN	COAL	0.1	998.3	THICK FROM DRILLER'S LOG
-529.9	CARBONDALE		CLAYSTONE	3.5	998.3	THICK FROM DRILLER'S LOG
-533.4	CARBONDALE		UNCLASSIFIED	30.2	1001.8	THICK FROM G-R LOG
-563.6	CARBONDALE	BRIAR HILL	COAL	1.2	1032.0	THICK FROM G-R LOG
-564.8	CARBONDALE		UNCLASSIFIED	1.8	1033.2	THICK FROM G-R LOG
-566.6	CARBONDALE	DYKERSBURG	GRAY SHALE	58.0	1035.0	THICK FROM G-R LOG
-624.6	CARBONDALE	SPRINGFIELD	COAL	4.3	1093.0	THICK FROM G-R LOG
-628.9	CARBONDALE		UNCLASSIFIED	110.7	1097.3	THICK FROM G-R LOG
-739.6	CARBONDALE		BLACK SHALE	4.5	1208.0	THICK FROM G-R LOG
-744.1	CARBONDALE	HOUCHIN CREEK	COAL	3.5	1212.5	THICK FROM G-R LOG
-747.6	CARBONDALE		UNCLASSIFIED	66.5	1216.0	THICK FROM G-R LOG
-814.1	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.5	1282.5	THICK FROM G-R LOG
-816.6	CARBONDALE	COLCHESTER	COAL	3.0	1285.0	THICK FROM G-R LOG
-819.6	CARBONDALE		UNCLASSIFIED	34.0	1288.0	THICK FROM G-R LOG
-853.6	CARBONDALE	DEKOVEN	COAL	2.0	1322.0	THICK FROM G-R LOG
-855.6	CARBONDALE		UNCLASSIFIED	41.5	1324.0	THICK FROM DRILLER'S LOG
-897.1	CARBONDALE		SANDSTONE	12.3	1365.5	THICK FROM DRILLER'S LOG
-909.4	CARBONDALE		GRAY SHALE	1.2	1377.8	THICK FROM DRILLER'S LOG
-910.6	CARBONDALE	DAVIS	COAL	6.1	1379.0	THICK FROM DRILLER'S LOG
-916.7	TRADEWATER		CLAYSTONE	0.2	1385.1	THICK FROM DRILLER'S LOG
-916.9	TRADEWATER		UNCLASSIFIED	24.7	1385.3	

MAPID: 19103229000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 7 **QUARTERS/FOOTAGES:** 330' N line, 330' E line of NW
QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.252308 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.284976 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 415.0 **LOGGED (FT.):** 3343.0 **LOG TYPE:** Electric Log
SOURCE: ROBINSON EDWARD T **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-533.0	CARBONDALE	HERRIN	COAL	3.0	948.0	
-571.0	CARBONDALE	BRIAR HILL	COAL	-	986.0	
-634.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1049.0	
-742.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1157.0	

MAPID: 19101701000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 8 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of SW SE
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.229502 **GEOLOGIST:** HOPKINS
CONFIDENTIAL: N **LATITUDE:** 38.272272 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 440.0 **LOGGED (FT.):** 3479.0 **LOG TYPE:** Electric Log
SOURCE: CRAWFORD J L **WELL TYPE:** Producer-Oil
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-532.0	CARBONDALE	HERRIN	COAL	4.0	972.0	
-566.0	CARBONDALE	BRIAR HILL	COAL	-	1006.0	
-634.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1074.0	
-742.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1182.0	

MAPID: 19128610000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 8 **QUARTERS/FOOTAGES:** 164' N line, 62' E line of SE NW
QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.232913 **GEOLOGIST:** PRUSSEN
CONFIDENTIAL: N **LATITUDE:** 38.281772 **DATE COLLECTED:** 1 / 30 / 1975
SURFACE ELEVATION (FT.): 401.3 **LOGGED (FT.):** 1319.0 **LOG TYPE:** Other Core Study
SOURCE: AMAX C.C. C1-114 **WELL TYPE:** Coal Test
COMMENT: DRILLERS LOG INCLUDED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-520.1	CARBONDALE	HERRIN	COAL	4.5	921.4	
-620.3	CARBONDALE	SPRINGFIELD	COAL	4.4	1021.6	
-897.7	SPOON	SEELYVILLE	COAL	4.4	1299.0	

MAPID: 19190005000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 8 **QUARTERS/FOOTAGES:** 164' N line, 62' E line of SE NW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.232913 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.281772 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 401.3 **LOGGED (FT.):** 1319.8 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-114 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
401.3			UNCLASSIFIED	855.2	0.0	
-453.9	CARBONDALE	DANVILLE	COAL	2.3	855.2	THICK FROM G-R LOG
-456.2	CARBONDALE		UNCLASSIFIED	64.1	857.5	THICK FROM G-R LOG
-520.3	CARBONDALE		FOSSILIFEROUS SHALE	0.3	921.6	THICK FROM DRILLER'S LOG
-520.6	CARBONDALE	ANNA	BLACK SHALE	1.5	921.9	THICK FROM DRILLER'S LOG
-522.1	CARBONDALE	ANNA	GRAY SHALE	0.6	923.4	THICK FROM DRILLER'S LOG
-522.7	CARBONDALE	HERRIN	COAL	0.9	924.0	THICK FROM DRILLER'S LOG
-523.6	CARBONDALE	HERRIN	PYRITE	0.1	924.9	THICK FROM DRILLER'S LOG
-523.7	CARBONDALE	HERRIN	COAL	2.3	925.0	THICK FROM DRILLER'S LOG
-526.0	CARBONDALE	HERRIN	GRAY SHALE	0.1	927.3	THICK FROM DRILLER'S LOG
-526.1	CARBONDALE	HERRIN	COAL	1.1	927.4	THICK FROM DRILLER'S LOG
-527.2	CARBONDALE		CLAYSTONE	2.9	928.5	THICK FROM DRILLER'S LOG
-530.1	CARBONDALE	HIGGINSVILLE	LIMESTONE	1.5	931.4	THICK FROM DRILLER'S LOG
-531.6	CARBONDALE		SILTSTONE	2.0	932.9	THICK FROM DRILLER'S LOG
-533.6	CARBONDALE		UNCLASSIFIED	28.1	934.9	
-561.7	CARBONDALE	BRIAR HILL	COAL	1.0	963.0	THICK FROM G-R LOG
-562.7	CARBONDALE		SHALE	60.5	964.0	THICK FROM G-R LOG
-623.2	CARBONDALE	SPRINGFIELD	COAL	4.5	1024.5	THICK FROM DRILLER'S LOG
-627.7	CARBONDALE		CLAYSTONE	2.9	1029.0	THICK FROM DRILLER'S LOG
-630.6	CARBONDALE		LIMESTONE	1.0	1031.9	THICK FROM DRILLER'S LOG
-631.6	CARBONDALE		UNCLASSIFIED	105.1	1032.9	
-736.7	CARBONDALE	EXCELLO	BLACK SHALE	5.0	1138.0	THICK FROM G-R LOG
-741.7	CARBONDALE	HOUCHIN CREEK	COAL	2.0	1143.0	THICK FROM G-R LOG
-743.7	CARBONDALE		UNCLASSIFIED	64.0	1145.0	THICK FROM G-R LOG
-807.7	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.2	1209.0	THICK FROM G-R LOG
-809.9	CARBONDALE	COLCHESTER	COAL	2.8	1211.2	THICK FROM G-R LOG
-812.7	CARBONDALE		UNCLASSIFIED	51.0	1214.0	THICK FROM G-R LOG
-863.7	CARBONDALE	DEKOVEN	COAL	3.5	1265.0	THICK FROM G-R LOG
-867.2	CARBONDALE		UNCLASSIFIED	30.0	1268.5	THICK FROM G-R LOG
-897.2	CARBONDALE	LOWER DEKOVEN	COAL	1.5	1298.5	THICK FROM G-R LOG
-898.7	CARBONDALE		BLACK SHALE	1.0	1300.0	THICK FROM G-R LOG
-899.7	CARBONDALE	DAVIS	COAL	4.0	1301.0	THICK FROM DRILLER'S LOG
-903.7	TRADEWATER		CLAYSTONE	2.4	1305.0	THICK FROM DRILLER'S LOG
-906.1	TRADEWATER	SEAHORNE LS	LIMESTONE	2.5	1307.4	THICK FROM DRILLER'S LOG
-908.6	TRADEWATER		GRAY SHALE	5.2	1309.9	THICK FROM DRILLER'S LOG
-913.8	TRADEWATER		SILTSTONE	2.8	1315.1	THICK FROM DRILLER'S LOG

-916.6	TRADEWATER	LIMESTONE	1.2	1317.9	THICK FROM DRILLER'S LOG
-917.8	TRADEWATER	GRAY SHALE	0.7	1319.1	TOTAL DEPTH DIFFERS FROM DRILLER'S LOG

MAPID: 19101704000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 9 **QUARTERS/FOOTAGES:** 330' S line, 990' W line of NW NW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.219917 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.282976 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 407.0 **LOGGED (FT.):** 3453.0 **LOG TYPE:** Electric Log

SOURCE: INLAND PRODUCERS CO **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-520.0	CARBONDALE	HERRIN	COAL	4.0	927.0	
-553.0	CARBONDALE	BRIAR HILL	COAL	-	960.0	
-617.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1024.0	
-730.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1137.0	

MAPID: 19190011000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 9 **QUARTERS/FOOTAGES:** SE NE NW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.214633 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.282119 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 380.7 **LOGGED (FT.):** 1316.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-129 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
380.7			UNCLASSIFIED	838.0	0.0	THICK FROM G-R LOG
-457.3	CARBONDALE	DANVILLE	COAL	3.0	838.0	THICK FROM G-R LOG
-460.3	CARBONDALE		UNCLASSIFIED	60.0	841.0	THICK FROM G-R LOG
-520.3	CARBONDALE		SANDSTONE	2.1	901.0	THICK FROM DRILLER'S LOG
-522.4	CARBONDALE		BLACK SHALE	0.4	903.1	THICK FOM DRILLER'S LOG
-522.8	CARBONDALE	BRERETON	LIMESTONE	3.7	903.5	THICK FROM DRILLER'S LOG
-526.5	CARBONDALE	ANNA	BLACK SHALE	0.7	907.2	THICK FROM DRILLER'S LOG
-527.2	CARBONDALE	HERRIN	COAL	2.9	907.9	THICK FROM DRILLER'S LOG
-530.1	CARBONDALE	HERRIN	PYRITE	0.1	910.8	THICK FROM DRILLER'S LOG
-530.2	CARBONDALE	HERRIN	COAL	1.4	910.9	THICK FROM DRILLER'S LOG
-531.6	CARBONDALE		CLAYSTONE	3.1	912.3	THICK FROM DRILLER'S LOG
-534.7	CARBONDALE		UNCLASSIFIED	28.6	915.4	THICK FROM G-R LOG
-563.3	CARBONDALE	BRIAR HILL	COAL	1.2	944.0	THICK FROM G-R LOG
-564.5	CARBONDALE		UNCLASSIFIED	4.8	945.2	THICK FROM G-R LOG
-569.3	CARBONDALE	DYKERSBURG	GRAY SHALE	57.0	950.0	THICK FROM G-R LOG
-626.3	CARBONDALE	SPRINGFIELD	COAL	4.5	1007.0	THICK FROM DRILLER'S LOG
-630.8	CARBONDALE		CLAYSTONE	3.9	1011.5	THICK FROM DRILLER'S LOG
-634.7	CARBONDALE		UNCLASSIFIED	102.6	1015.4	
-737.3	CARBONDALE	EXCELLO	BLACK SHALE	3.0	1118.0	THICK FROM G-R LOG
-740.3	CARBONDALE	HOUCHIN CREEK	COAL	1.5	1121.0	THICK FROM G-R LOG
-741.8	CARBONDALE		UNCLASSIFIED	67.0	1122.5	THICK FROM G-R LOG
-808.8	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	1189.5	THICK FROM G-R LOG
-810.8	CARBONDALE	COLCHESTER	COAL	1.5	1191.5	THICK FROM G-R LOG
-812.3	CARBONDALE		UNCLASSIFIED	35.0	1193.0	THICK FROM G-R LOG+
-847.3	CARBONDALE	DEKOVEN	COAL	4.0	1228.0	THICK FROM G-R LOG
-851.3	CARBONDALE		UNCLASSIFIED	35.9	1232.0	THICK FROM G-R LOG
-887.2	CARBONDALE		SANDSTONE	1.7	1267.9	THICK FROM DRILLER'S LOG
-888.9	CARBONDALE		SHALEY CLAYSTONE	3.9	1269.6	THICK FROM DRILLER'S LOG
-892.8	CARBONDALE	LOWER DEKOVEN	COAL	1.6	1273.5	THICK FROM DRILLER'S LOG
-894.4	CARBONDALE		SHALE	0.3	1275.1	THICK FROM DRILLER'S LOG
-894.7	CARBONDALE	DAVIS	COAL	4.3	1275.4	THICK FROM DRILLER'S LOG
-899.0	TRADEWATER		CLAYSTONE	2.6	1279.7	THICK FROM DRILLER'S LOG
-901.6	TRADEWATER		UNCLASSIFIED	33.7	1282.3	THICK FROM DRILLER'S LOG

MAPID: 19103077000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of NE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.194766 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.284543 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 385.0 **LOGGED (FT.):** 3409.0 **LOG TYPE:** Electric Log

SOURCE: DAVIS ALVA C PETRO **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-541.0	CARBONDALE	HERRIN	COAL	3.0	926.0	
-577.0	CARBONDALE	BRIAR HILL	COAL	-	962.0	
-645.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1030.0	
-761.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1146.0	

MAPID: 19103842000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.176605 **GEOLOGIST:** CHENOWETH

CONFIDENTIAL: N **LATITUDE:** 38.279107 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 378.0 **LOGGED (FT.):** 3456.0 **LOG TYPE:** Electric Log

SOURCE: BREHM, C. E. DRLG.&PROD. **WELL TYPE:** Producer-Oil

COMMENT: THICKNESS AND DEPTH TAKEN FROM E-LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-506.0	CARBONDALE	HERRIN	COAL	6.0	884.0	
-608.0	CARBONDALE	SPRINGFIELD	COAL	4.0	986.0	

MAPID: 19103842000C **VERSION:** 2 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 11 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.176605 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.279107 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 378.0 **LOGGED (FT.):** 3456.0 **LOG TYPE:** Electric Log

SOURCE: BREHM, C. E. DRLG.&PROD. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-509.0	CARBONDALE	HERRIN	COAL	4.0	887.0	
-544.0	CARBONDALE	BRIAR HILL	COAL	-	922.0	
-609.0	CARBONDALE	SPRINGFIELD	COAL	4.0	987.0	
-722.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1100.0	

MAPID: 19190001000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 11 **QUARTERS/FOOTAGES:** 115' S line, 79' W line of SW SW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.186949 **GEOLOGIST:** J. MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.271279 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 383.9 **LOGGED (FT.):** 1330.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-121 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
383.9			UNCLASSIFIED	822.7	0.0	THICK FROM G-R LOG
-438.8	CARBONDALE	DANVILLE	COAL	1.8	822.7	THICK FROM G-R LOG
-440.6	CARBONDALE		UNCLASSIFIED	64.7	824.5	THICK FROM G-R LOG
-505.3	CARBONDALE	ANNA	BLACK SHALE	0.8	889.2	THICK FROM G-R LOG
-506.1	CARBONDALE	HERRIN	COAL	3.2	890.0	THICK FROM DRILLER'S LOG
-509.3	CARBONDALE	HERRIN	PYRITE	0.2	893.2	THICK FROM DRILLER'S LOG
-509.5	CARBONDALE	HERRIN	COAL	1.0	893.4	THICK FROM DRILLER'S LOG
-510.5	CARBONDALE		CLAYSTONE	1.9	894.4	THICK FROM DRILLER'S LOG
-512.4	CARBONDALE	HIGGINSVILLE	LIMESTONE	3.8	896.3	THICK FROM DRILLER'S LOG
-516.2	CARBONDALE		GRAY SHALE	2.9	900.1	THICK FROM DRILLER'S LOG
-519.1	CARBONDALE		SANDSTONE	1.3	903.0	THICK FROM DRILLER'S LOG
-520.4	CARBONDALE		UNCLASSIFIED	23.7	904.3	THICK FROM G-R LOG
-544.1	CARBONDALE	BRIAR HILL	COAL	2.0	928.0	THICK FROM G-R LOG
-546.1	CARBONDALE		UNCLASSIFIED	2.0	930.0	THICK FROM G-R LOG
-548.1	CARBONDALE	DYKERSBURG	GRAY SHALE	58.0	932.0	THICK FROM G-R LOG
-606.1	CARBONDALE	SPRINGFIELD	COAL	5.0	990.0	THICK FROM G-R LOG
-611.1	CARBONDALE		CLAYSTONE	4.0	995.0	THICK FROM G-R LOG
-615.1	CARBONDALE		UNCLASSIFIED	105.5	999.0	THICK FROM G-R LOG
-720.6	CARBONDALE	EXCELLO	BLACK SHALE	4.5	1104.5	THICK FROM G-R LOG
-725.1	CARBONDALE	HOUCHIN CREEK	COAL	4.0	1109.0	THICK FROM G-R LOG
-729.1	CARBONDALE		UNCLASSIFIED	65.7	1113.0	THICK FROM G-R LOG
-794.8	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.3	1178.7	THICK FROM G-R LOG
-796.1	CARBONDALE	COLCHESTER	COAL	2.0	1180.0	THICK FROM G-R LOG
-798.1	CARBONDALE		UNCLASSIFIED	37.0	1182.0	THICK FROM G-R LOG
-835.1	CARBONDALE	DEKOVEN	COAL	3.0	1219.0	THICK FROM G-R LOG
-838.1	CARBONDALE		UNCLASSIFIED	37.5	1222.0	THICK FROM G-R LOG
-875.6	CARBONDALE		SANDSTONE	21.2	1259.5	THICK FROM DRILLER'S LOG
-896.8	CARBONDALE		GRAY SHALE	4.3	1280.7	THICK FROM DRILLER'S LOG
-901.1	CARBONDALE	LOWER DEKOVEN	COAL	1.7	1285.0	THICK FROM G-R LOG
-902.8	CARBONDALE		SHALE	0.5	1286.7	THICK FROM G-R LOG
-903.3	CARBONDALE	DAVIS	COAL	4.0	1287.2	THICK FROM G-R LOG
-907.3	TRADEWATER		CLAYSTONE	0.1	1291.2	THICK FROM G-R LOG
-907.4	TRADEWATER		UNCLASSIFIED	38.7	1291.3	THICK FROM G-R LOG

MAPID: 19100270000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 12 **QUARTERS/FOOTAGES:** 330' S line, 330' E line

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.151503 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.271587 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 385.0 **LOGGED (FT.):** 3426.0 **LOG TYPE:** Electric Log

SOURCE: RANDALL HARRY ETAL **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-513.0	CARBONDALE	HERRIN	COAL	3.0	898.0	
-561.0	CARBONDALE	BRIAR HILL	COAL	-	946.0	
-592.0	CARBONDALE	SPRINGFIELD	COAL	4.0	977.0	
-710.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1095.0	

MAPID: 19107868000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 14 **QUARTERS/FOOTAGES:** 142' N line, 151' E line of NE NW NW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.183206 **GEOLOGIST:** J. MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.270653 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 382.5 **LOGGED (FT.):** 997.8 **LOG TYPE:**

SOURCE: AYRSHIRE C1-23 **WELL TYPE:**

COMMENT: CARMI 1 BOX#75 COMP.CORE W/ISGS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
382.5			UNCLASSIFIED	886.0	0.0	THICK AND DEPTH E-LOG
-503.5	CARBONDALE	BRERETON	LIMESTONE	4.0	886.0	THICK AND DEPTH FORM E-LOG
-507.5	CARBONDALE	ANNA	SHALE	1.0	890.0	THICK AND DEPTH FROM E-LOG
-508.5	CARBONDALE	HERRIN	COAL	1.2	891.0	THICK AND DEPTH FROM E-LOG
-509.7	CARBONDALE	HERRIN	UNCLASSIFIED	0.8	892.2	THICK AND DEPTH FROM E-LOG
-510.5	CARBONDALE	HERRIN	COAL	1.5	893.0	THICK AND DEPTH FROM E-LOG
-512.0	CARBONDALE	HERRIN	UNCLASSIFIED	0.5	894.5	THICK AND DEPTH FROM E-LOG
-512.5	CARBONDALE	HERRIN	COAL	1.0	895.0	THICK AND DEPTH FROM E-0LOG
-513.5	CARBONDALE		UNCLASSIFIED	33.0	896.0	THICK AND DEPTH FROM E-LOG
-546.5	CARBONDALE	BRIAR HILL	COAL	1.0	929.0	THICK AND DEPTH FROM E-LOG
-547.5	CARBONDALE		UNCLASSIFIED	36.2	930.0	THICK AND DEPTH FROM E-LOG
-583.7	CARBONDALE	DYKERSBURG	GRAY SHALE	24.3	966.2	THICK FROM CORE
-608.0	CARBONDALE	SPRINGFIELD	PYRITE	0.0	990.5	THICK FROM CORE
-608.0	CARBONDALE	SPRINGFIELD	COAL	2.0	990.5	THICK FROM CORE
-610.0	CARBONDALE	SPRINGFIELD	PYRITE	0.0	992.5	THICK FROM CORE
-610.0	CARBONDALE	SPRINGFIELD	COAL	3.0	992.5	THICK FROM CORE
-613.0	CARBONDALE		BLACK SHALE	0.3	995.5	THICK FORM CORE
-613.3	CARBONDALE		UNDERCLAY	2.0	995.8	THICK FROM CORE

MAPID: 19107868000C **VERSION:** 2 **PROJECT:** EIA-DOE

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 14 **QUARTERS/FOOTAGES:** 142' N line, 151' E line of NE NW NW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.183206 **GEOLOGIST:** PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.270653 **DATE COLLECTED:** 6 / 26 / 1969

SURFACE ELEVATION (FT.): 382.5 **LOGGED (FT.):** 999.5 **LOG TYPE:** Other Core Study

SOURCE: AYRSHIRE COLLIERIES C1-23 **WELL TYPE:** Coal Test

COMMENT: "CORE #C-9303, COAL SEC. MAP #6-193 A"

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-608.3	CARBONDALE	SPRINGFIELD	COAL	5.4	990.8	COAL REMOVED BY CO.

MAPID: 19100659000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 15 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of NW SW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.204641 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.261084 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 387.0 **LOGGED (FT.):** 3400.0 **LOG TYPE:** Electric Log

SOURCE: NEW PENN DLPMNT CORP **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-522.0	CARBONDALE	HERRIN	COAL	3.0	909.0	
-561.0	CARBONDALE	BRIAR HILL	COAL	-	948.0	
-625.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1012.0	
-740.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1127.0	

MAPID: 19128611000C **VERSION:** 1 **PROJECT:** EIA-DOE

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 15 **QUARTERS/FOOTAGES:** 69' N line, 354' W line of NW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.19783 **GEOLOGIST:** PRUSSEN

CONFIDENTIAL: N **LATITUDE:** 38.263991 **DATE COLLECTED:** 1 / 30 / 1975

SURFACE ELEVATION (FT.): 386.1 **LOGGED (FT.):** 1342.0 **LOG TYPE:** Other Core Study

SOURCE: AMAX C.C. C1-115 **WELL TYPE:** Coal Test

COMMENT: DRILLERS LOG INCLUDED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-528.8	CARBONDALE	HERRIN	COAL	5.0	914.9	
-636.8	CARBONDALE	SPRINGFIELD	COAL	4.3	1022.9	
-916.1	SPOON	SEELYVILLE	COAL	5.5	1302.2	

MAPID: 19190006000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 15 **QUARTERS/FOOTAGES:** 69' N line, 354' W line of NW NW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.204321 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.270854 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 386.1 **LOGGED (FT.):** 1308.1 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-115 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
386.1			UNCLASSIFIED	842.0	0.0	
-455.9	CARBONDALE	DANVILLE	COAL	2.0	842.0	
-457.9	CARBONDALE		UNCLASSIFIED	65.1	844.0	
-523.0	CARBONDALE	ANVIL ROCK	SANDSTONE	1.5	909.1	THICK FROM DRILLER'S LOG
-524.5	CARBONDALE	ANNA	BLACK SHALE	1.4	910.6	THICK FROM DRILLER'S LOG
-525.9	CARBONDALE	ANNA	LIMESTONE	0.8	912.0	THICK FROM DRILLER'S LOG
-526.7	CARBONDALE	ANNA	GRAY SHALE	0.1	912.8	THICK FROM DRILLER'S LOG
-526.8	CARBONDALE	HERRIN	COAL	3.7	912.9	THICK FROM DRILLER'S LOG
-530.5	CARBONDALE	HERRIN	COAL	0.0	916.6	THICK FROM DRILLER'S LOG
-530.5	CARBONDALE	HERRIN	COAL	1.2	916.6	THICK FROM DRILLER'S LOG
-531.7	CARBONDALE		CLAYSTONE	3.5	917.8	THICK FROM DRILLER'S LOG
-535.2	CARBONDALE		UNCLASSIFIED	32.9	921.3	
-568.1	CARBONDALE	BRIAR HILL	COAL	1.0	954.2	THICK FROM G-R LOG
-569.1	CARBONDALE		SHALE	1.3	955.2	THICK FROM G-R LOG
-570.4	CARBONDALE	DYKERSBURG	GRAY SHALE	62.5	956.5	THICK FROM G-R LOG
-632.9	CARBONDALE	SPRINGFIELD	COAL	0.7	1019.0	THICK FROM DRILLER'S LOG
-633.6	CARBONDALE	SPRINGFIELD	PYRITE	0.1	1019.7	THICK FROM DRILLER'S LOG
-633.7	CARBONDALE	SPRINGFIELD	COAL	3.4	1019.8	THICK FROM DRILLER'S LOG
-637.1	CARBONDALE		CLAYSTONE	2.8	1023.2	THICK FROM DRILLER'S LOG
-639.9	CARBONDALE		UNCLASSIFIED	110.0	1026.0	
-749.9	CARBONDALE	EXCELLO	BLACK SHALE	4.0	1136.0	THICK FROM G-R LOG
-753.9	CARBONDALE	HOUCHIN CREEK	CARBONACEOUS SHALE	2.0	1140.0	THICK FROM G-R LOG
-755.9	CARBONDALE		UNCLASSIFIED	69.0	1142.0	THICK FROM G-R LOG
-824.9	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	1211.0	THICK FROM G-R LOG
-826.9	CARBONDALE	COLCHESTER	COAL	1.5	1213.0	THICK FROM G-R LOG
-828.4	CARBONDALE		UNCLASSIFIED	36.5	1214.5	THICK FROM G-R LOG
-864.9	CARBONDALE	DEKOVEN	COAL	2.7	1251.0	THICK FROM G-R LOG
-867.6	CARBONDALE		UNCLASSIFIED	41.6	1253.7	THICK FROM G-R LOG
-909.2	CARBONDALE		GRAY SHALE	4.2	1295.3	THICK FROM DRILLER'S LOG
-913.4	CARBONDALE	LOWER DEKOVEN	COAL	1.2	1299.5	THICK FROM DRILLER'S LOG
-914.6	CARBONDALE		SHALE	0.9	1300.7	DK. GRAY TO BLACK
-915.5	CARBONDALE	DAVIS	COAL	3.4	1301.6	THICK FROM DRILLER'S LOG
-918.9	TRADEWATER		CLAYSTONE	0.4	1305.0	THICK FROM DRILLER'S LOG
-919.3	TRADEWATER		UNCLASSIFIED	2.7	1305.4	THICK FROM DRILLER'S LOG

MAPID: 19190012000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 15 **QUARTERS/FOOTAGES:** SW SE SE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.209409 **GEOLOGIST:** J. MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.256675 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 383.5 **LOGGED (FT.):** 1307.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-124 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
383.5			UNCLASSIFIED	815.0	0.0	THICK FROM G-R LOG
-431.5	CARBONDALE	DANVILLE	COAL	2.0	815.0	THICK FROM G-R LOG
-433.5	CARBONDALE		UNCLASSIFIED	66.0	817.0	THICK FROM G-R LOG
-499.5	CARBONDALE		SANDSTONE	1.0	883.0	THICK FROM DRILLER'S LOG
-500.5	CARBONDALE		GRAY SHALE	0.3	884.0	THICK FROM DRILLER'S LOG
-500.8	CARBONDALE	BRERETON	LIMESTONE	3.5	884.3	THICK FROM DRILLER'S LOG
-504.3	CARBONDALE	ANNA	FOSSILIFEROUS SHALE	0.6	887.8	DK. GRAY TO BLACK
-504.9	CARBONDALE	HERRIN	COAL	2.9	888.4	MAINLY CLARAIN WITH SOME PYRITE
-507.8	CARBONDALE	HERRIN	GRAY SHALE	0.2	891.3	THICK FROM DRILLER'S LOG
-508.0	CARBONDALE	HERRIN	COAL	1.2	891.5	THICK FROM DRILLER'S LOG
-509.2	CARBONDALE		CLAYSTONE	2.7	892.7	THICK FROM DRILLER'S LOG
-511.9	CARBONDALE		SANDSTONE	1.2	895.4	THICK FROM DRILLER'S LOG
-513.1	CARBONDALE		UNCLASSIFIED	33.9	896.6	THICK FROM G-R LOG
-547.0	CARBONDALE	BRIAR HILL	COAL	0.5	930.5	THICK FROM G-R LOG
-547.5	CARBONDALE		UNCLASSIFIED	3.0	931.0	THICK FROM G-R LOG
-550.5	CARBONDALE	DYKERSBURG	GRAY SHALE	55.0	934.0	THICK FROM G-R LOG
-605.5	CARBONDALE	SPRINGFIELD	COAL	4.6	989.0	THICK FROM DRILLER'S LOG
-610.1	CARBONDALE		CLAYSTONE	2.6	993.6	THICK FROM G-R LOG
-612.7	CARBONDALE		UNCLASSIFIED	107.3	996.2	THICK FROM G-R LOG
-720.0	CARBONDALE	EXCELLO	BLACK SHALE	4.5	1103.5	THICK FROM G-R LOG
-724.5	CARBONDALE	HOUCHIN CREEK	COAL	2.5	1108.0	THICK FROM G-R LOG
-727.0	CARBONDALE		UNCLASSIFIED	66.5	1110.5	THICK FROM G-R LOG
-793.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.0	1177.0	THICK FROM G-R LOG+
-794.5	CARBONDALE	COLCHESTER	COAL	1.5	1178.0	THICK FORM G-R LOG
-796.0	CARBONDALE		UNCLASSIFIED	34.5	1179.5	THICK FROM G-R LOG
-830.5	CARBONDALE	DEKOVEN	COAL	3.0	1214.0	THICK FROM G-R LOG
-833.5	CARBONDALE		UNCLASSIFIED	48.6	1217.0	THICK FROM G-R LOG
-882.1	CARBONDALE		SANDSTONE	16.9	1265.6	THICK FROM DRILLER'S LOG
-899.0	CARBONDALE	LOWER DEKOVEN	COAL	0.4	1282.5	THICK FROM DRILLER'S LOG
-899.4	CARBONDALE	LOWER DEKOVEN	PYRITE	0.1	1282.9	THICK FROM DRILLER'S LOG
-899.5	CARBONDALE	LOWER DEKOVEN	COAL	0.1	1283.0	THICK FROM DRILLER'S LOG
-899.6	CARBONDALE	LOWER DEKOVEN	PYRITE	0.1	1283.1	THICK FROM DRIVER'S LOG
-899.7	CARBONDALE	LOWER DEKOVEN	COAL	0.3	1283.2	THICK FROM DRILLER'S LOG
-900.0	CARBONDALE		BLACK SHALE	0.8	1283.5	THICK FROM DRILLER'S LOG
-900.8	CARBONDALE	DAVIS	COAL	0.2	1284.3	THICK FROM DRILLER'S LOG
-901.0	CARBONDALE	DAVIS	PYRITE	0.1	1284.5	THICK FROM DRILLER'S LOG

-901.1	CARBONDALE	DAVIS	COAL	4.6	1284.6	THICK FROM DRILLER'S LOG
-905.7	TRADEWATER		CLAYSTONE	3.6	1289.2	THICK FROM DRILLER'S LOG
-909.3	TRADEWATER		SANDSTONE	2.8	1292.8	THICK FROM DRILLER'S LOG
-912.1	TRADEWATER		GRAY SHALE	6.8	1295.6	THICK FROM DRILLER'S LOG
-918.9	TRADEWATER		UNCLASSIFIED	4.6	1302.4	THICK FROM DRILLER'S LOG

MAPID: 19100271000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 16 **QUARTERS/FOOTAGES:** 450' N line, 300' E line of NW SW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.220471 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.262743 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 405.0 **LOGGED (FT.):** 3416.0 **LOG TYPE:** Electric Log

SOURCE: SOUTHERN PETROLEUM **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-545.0	CARBONDALE	HERRIN	COAL	4.0	950.0	
-575.0	CARBONDALE	BRIAR HILL	COAL	-	980.0	
-639.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1044.0	
-755.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1160.0	

MAPID: 19190003000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 16 **QUARTERS/FOOTAGES:** 24' N line, 74' E line of NE NW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.214911 **GEOLOGIST:**

CONFIDENTIAL: N **LATITUDE:** 38.27108 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 388.4 **LOGGED (FT.):** 1310.6 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-111 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
388.4			UNCLASSIFIED	836.0	0.0	
-447.6	CARBONDALE	DANVILLE	COAL	2.0	836.0	
-449.6	CARBONDALE		UNCLASSIFIED	64.9	838.0	
-514.5	CARBONDALE	ANVIL ROCK	SANDSTONE	8.9	902.9	THICK FROM DRILLER'S LOG
-523.4	CARBONDALE	BRERETON	LIMESTONE	2.0	911.8	THICK FROM DRILLER'S LOG
-525.4	CARBONDALE	ANNA	BLACK SHALE	0.6	913.8	THICK FROM DRILLER'S LOG
-526.0	CARBONDALE	HERRIN	COAL	0.7	914.4	THICK FROM DRILLER'S LOG
-526.7	CARBONDALE	HERRIN	COAL	0.1	915.1	THICK FROM DRILLER'S LOG
-526.8	CARBONDALE	HERRIN	COAL	2.0	915.2	THICK FROM DRILLER'S LOG
-528.8	CARBONDALE	HERRIN	GRAY SHALE	0.1	917.2	THICK FROM DRILLER'S LOG
-528.9	CARBONDALE	HERRIN	COAL	1.2	917.3	THICK FROM DRILLER'S LOG
-530.1	CARBONDALE		CLAYSTONE	1.6	918.5	THICK FROM DRILLER'S LOG
-531.7	CARBONDALE		UNCLASSIFIED	30.9	920.1	
-562.6	CARBONDALE	BRIAR HILL	COAL	1.0	951.0	THICK AND DEPTH FROM G-R LOG
-563.6	CARBONDALE		UNCLASSIFIED	2.0	952.0	THICK AND DEPTH FROM G-R LOG
-565.6	CARBONDALE	DYKERSBURG	GRAY SHALE	61.0	954.0	THICK AND DEPTH FROM G-R LOG
-626.6	CARBONDALE	SPRINGFIELD	COAL	4.5	1015.0	THICK AND DEPTH FROM G-R LOG
-631.1	CARBONDALE		SILTSTONE	0.3	1019.5	THICK AND DEPTH FROM G-R LOG
-631.4	CARBONDALE		UNCLASSIFIED	112.2	1019.8	THICK AND DEPTH FROM G-R LOG
-743.6	CARBONDALE	EXCELLO	BLACK SHALE	3.0	1132.0	THICK AND DEPTH FROM G-R LOG
-746.6	CARBONDALE	HOUCHIN CREEK	COAL	2.5	1135.0	THICK AND DEPTH FROM G-R LOG
-749.1	CARBONDALE		UNCLASSIFIED	71.5	1137.5	THICK AND DEPTH FROM G-R LOG
-820.6	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	1209.0	THICK AND DEPTH FROM G-R LOG
-822.6	CARBONDALE	COLCHESTER	COAL	2.5	1211.0	THICK AND DEPTH FROM G-R LOG
-825.1	CARBONDALE		UNCLASSIFIED	38.7	1213.5	THICK AND DEPTH FROM G-R LOG
-863.8	CARBONDALE	DEKOVEN	COAL	2.8	1252.2	THICK AND DEPTH FROM G-R LOG
-866.6	CARBONDALE		UNCLASSIFIED	28.0	1255.0	THICK FROM G-R LOG
-894.6	CARBONDALE		GRAY SHALE	15.0	1283.0	THICK FROM G-R LOG
-909.6	CARBONDALE	DAVIS	COAL	1.8	1298.0	THICK FROM DRILLER'S LOG
-911.4	CARBONDALE	DAVIS	BONE COAL	0.2	1299.8	THICK FROM DRILLER'S LOG
-911.6	CARBONDALE	DAVIS	COAL	0.1	1300.0	THICK FROM DRILLER'S LOG
-911.7	CARBONDALE	DAVIS	PYRITE	0.1	1300.1	THICK FROM DRILLER'S LOG
-911.8	CARBONDALE	DAVIS	COAL	3.6	1300.2	THICK FROM DRILLER'S LOG
-915.4	TRADEWATER		CLAYSTONE	2.0	1303.8	THICK FROM DRILLER'S LOG
-917.4	TRADEWATER	SEAHORNE LS	LIMESTONE	2.9	1305.8	THICK FROM DRILLER'S LOG
-920.3	TRADEWATER		GRAY SHALE	1.9	1308.7	TOTAL DEPTH DIFFERS FROM DRILLER`S LOG

MAPID: 19103151000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 17 **QUARTERS/FOOTAGES:** 330' N line, 330' W line of SW

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.241334 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.263428 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 425.0 **LOGGED (FT.):** 3486.0 **LOG TYPE:** Electric Log

SOURCE: HERNDON DRLG. CO. **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-532.0	CARBONDALE	HERRIN	COAL	3.0	957.0	
-572.0	CARBONDALE	BRIAR HILL	COAL	-	997.0	
-630.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1055.0	
-733.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1158.0	

MAPID: 19103776000C **VERSION:** 1 **PROJECT:** CIRC 431

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 18 **QUARTERS/FOOTAGES:** 330' S line, 330' E line of NE NW

QUADRANGLE: BURNT PRAIRIE **LONGITUDE:** -88.252722 **GEOLOGIST:** HOPKINS

CONFIDENTIAL: N **LATITUDE:** 38.268837 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 404.0 **LOGGED (FT.):** 3485.0 **LOG TYPE:** Electric Log

SOURCE: DAVIS ALVA C PETRO **WELL TYPE:** Producer-Oil

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
-530.0	CARBONDALE	HERRIN	COAL	4.0	934.0	
-568.0	CARBONDALE	BRIAR HILL	COAL	-	972.0	
-624.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1028.0	
-733.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1137.0	

MAPID: 19190004000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 18 **QUARTERS/FOOTAGES:** 185' S line, 89' E line of SE NE

QUADRANGLE: GOLDEN GATE **LONGITUDE:** -88.242762 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.264869 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 432.7 **LOGGED (FT.):** 1383.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-109 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE DESC.NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	THICKNESS (FT.) OVERBURDEN	COMMENT
432.7			UNCLASSIFIED	904.0	0.0	THICK AND DEPTH FROM G-R LOG
-471.3	CARBONDALE	DANVILLE	COAL	3.0	904.0	THICK AND DEPTH FROM G-R LOG
-474.3	CARBONDALE		UNCLASSIFIED	42.4	907.0	THICK AND DEPTH FROM G-R LOG
-516.7	CARBONDALE		GRAY SHALE	2.6	949.4	THICK FROM DRILLER'S LOG
-519.3	CARBONDALE	BRERETON	LIMESTONE	4.9	952.0	THICK FROM DRILLER'S LOG
-524.2	CARBONDALE	ANNA	BLACK SHALE	1.1	956.9	THICK FROM DRILLER'S LOG
-525.3	CARBONDALE	HERRIN	COAL	4.1	958.0	THICK FROM DRILLER'S LOG
-529.4	CARBONDALE		CLAYSTONE	2.3	962.1	THICK FROM DRILLER'S LOG
-531.7	CARBONDALE		SILTSTONE	1.9	964.4	THICK FROM DRILLER'S LOG
-533.6	CARBONDALE		UNCLASSIFIED	32.7	966.3	THICK FROM G-R LOG
-566.3	CARBONDALE	BRIAR HILL	COAL	1.0	999.0	THICK FROM G-R LOG
-567.3	CARBONDALE		UNCLASSIFIED	4.0	1000.0	THICK FROM G-R LOG
-571.3	CARBONDALE	DYKERSBURG	GRAY SHALE	53.0	1004.0	THICK FROM G-R LOG
-624.3	CARBONDALE	SPRINGFIELD	BONE COAL	0.2	1057.0	THICK FROM DRILLER'S LOG
-624.5	CARBONDALE	SPRINGFIELD	COAL	0.6	1057.2	THICK FROM DRILLER'S LOG
-625.1	CARBONDALE	SPRINGFIELD	PYRITE	0.1	1057.8	SOMESHALE
-625.2	CARBONDALE	SPRINGFIELD	COAL	3.5	1057.9	THICK FROM DRILLER'S LOG
-628.7	CARBONDALE		CLAYSTONE	1.8	1061.4	THICK FROM DRILLER'S LOG
-630.5	CARBONDALE		LIMESTONE	2.6	1063.2	THICK FROM DRILLER'S LOG
-633.1	CARBONDALE		UNCLASSIFIED	103.2	1065.8	
-736.3	CARBONDALE	EXCELLO	BLACK SHALE	3.0	1169.0	THICK AND DEPTH FROM G-R LOG
-739.3	CARBONDALE	HOUCHIN CREEK	COAL	3.0	1172.0	THICK AND DEPTH FROM G-R LOG
-742.3	CARBONDALE		UNCLASSIFIED	69.5	1175.0	THICK AND DEPTH FROM G-R LOG
-811.8	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	1244.5	THICK AND DEPTH FROM G-R LOG
-813.8	CARBONDALE	COLCHESTER	COAL	3.5	1246.5	THICK AND DEPTH FROM G-R LOG
-817.3	CARBONDALE		UNCLASSIFIED	82.3	1250.0	THICK AND DEPTH FROM G-R LOG
-899.6	CARBONDALE		SANDSTONE	12.7	1332.3	THICK FROM DRILLER'S LOG
-912.3	CARBONDALE	DAVIS	COAL	5.6	1345.0	THICK FROM DRILLER'S LOG
-917.9	TRADEWATER		CLAYSTONE	1.6	1350.6	THICK FROM DRILLER'S LOG
-919.5	TRADEWATER		UNCLASSIFIED	30.8	1352.2	THICK FROM DRILLER'S LOG

MAPID: 19190087000C **VERSION:** 1 **PROJECT:** AVAIL

COUNTY: WAYNE **TWP/RNG:** 3S 9E **SECTION:** 21 **QUARTERS/FOOTAGES:** 102' S line, 58' E line of SE NE

QUADRANGLE: CENTERVILLE **LONGITUDE:** -88.206301 **GEOLOGIST:** J.MCBETH

CONFIDENTIAL: N **LATITUDE:** 38.249663 **DATE COLLECTED:**

SURFACE ELEVATION (FT.): 383.8 **LOGGED (FT.):** 1321.0 **LOG TYPE:** Drillers Log

SOURCE: AMAX C1-52 **WELL TYPE:** Coal Test

COMMENT: CARMI 1 BOX#75 CORE NOT COMPLETE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
383.8			UNCLASSIFIED	885.0	0.0	
-501.2	CARBONDALE		SANDSTONE	0.8	885.0	
-502.0	CARBONDALE		BLACK SHALE	1.4	885.8	MANY PLANT FOSSILS
-503.4	CARBONDALE	BRERETON	FOSSILIFEROUS LIMESTONE	4.1	887.2	
-507.5	CARBONDALE		CALCAREOUS SHALE	0.5	891.3	BASAL .15' V.SIDERITIC
-508.0	CARBONDALE	HERRIN	COAL	4.2	891.8	
-512.2	CARBONDALE		CLAYSTONE	5.0	896.0	
-517.2	CARBONDALE		UNCLASSIFIED	34.0	901.0	
-551.2	CARBONDALE	BRIAR HILL	COAL	3.5	935.0	
-554.7	CARBONDALE		UNCLASSIFIED	1.5	938.5	
-556.2	CARBONDALE	DYKERSBURG	GRAY SHALE	53.3	940.0	TOP FROM G-R LOG
-609.5	CARBONDALE	SPRINGFIELD	COAL	4.6	993.3	
-614.1	CARBONDALE		SANDSTONE	2.3	997.9	
-616.4	CARBONDALE		UNCLASSIFIED	266.8	1000.2	
-883.2	CARBONDALE		SANDSTONE	10.7	1267.0	
-893.9	CARBONDALE	DAVIS	COAL	6.3	1277.7	TOP OF INDIANA III
-900.2	TRADEWATER		CLAYSTONE	1.0	1284.0	
-901.2			UNCLASSIFIED	36.0	1285.0	