



# Status Report

**Total Records: 26**

**TOP 3 COUNTY RECORDS**

MACON 26

**TOP 3 MEMBER RECORDS**

DANVILLE 20 COAL  
 SPRINGFIELD 17 COAL  
 HERRIN 12 COAL

**TOP 3 LOG TYPE RECORDS**

Electric Log 9  
 Drillers Log 9  
 Multiple log types 3

**TOP 3 COAL RECORDS**

DANVILLE 20  
 SPRINGFIELD 17  
 HERRIN 12

## Data Summary

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

*Depth and Thickness measurements in feet*

Member	Lithology	Avg. Depth	Min. Depth	Max. Depth	Avg. Thk	Min. Thk	Max. Thk
CARTHAGE	LIMESTONE	214.0	82.0	350.0	10.3	9.0	12.0
MACOUPIN	LIMESTONE	103.0	103.0	103.0	10.0	10.0	10.0
CHAPEL	COAL	315.6	190.2	434.9	1.0	0.5	1.5
WEST FRANKLIN	LIMESTONE	430.7	400.0	464.0	14.3	7.0	18.0
PIASA	LIMESTONE	364.5	324.0	435.0	12.8	4.0	23.0
DANVILLE	COAL	469.5	290.9	559.0	2.4	0.3	6.0
BRERETON	LIMESTONE	469.0	451.0	505.0	4.0	3.0	4.5
ANNA	SHALE	379.1	296.7	461.5	6.8	2.5	11.0
HERRIN	COAL	489.1	307.7	702.0	3.1	1.0	4.5
BRIAR HILL	COAL	328.2	328.2	328.2	0.8	0.8	0.8
ST. DAVID	LIMESTONE	542.0	542.0	542.0	1.5	1.5	1.5
TURNER MINE	SHALE	527.6	345.0	648.0	2.8	0.5	5.0
SPRINGFIELD	COAL	527.3	349.0	653.0	4.2	0.5	6.0
HANOVER	LIMESTONE	586.0	586.0	586.0	2.0	2.0	2.0
EXCELLO	SHALE	594.3	530.0	701.0	4.2	2.2	7.0
HOUCHIN CREEK	COAL	565.6	434.0	708.0	1.9	0.5	3.6
SURVANT	COAL	612.5	507.0	665.0	1.5	1.0	2.0
SURVANT -UPPER	COAL	582.0	582.0	582.0	3.5	3.5	3.5
SURVANT -LOWER	COAL	602.0	602.0	602.0	1.4	1.4	1.4
MECCA QUARRY	SHALE	721.8	652.0	822.0	4.8	1.0	8.0
COLCHESTER	COAL	707.9	544.0	895.0	1.8	0.2	4.0
SEELYVILLE	COAL	564.0	564.0	564.0	5.0	5.0	5.0
<b>Net Coal</b>					<b>26.6</b>		

MAPID: 11521379000C VERSION: 1

PROJECT: NCRDS87

COUNTY: MACON TWP/RNG: 14N 2E SECTION: 4 SWNE

FOOT (NS): 330 S FOOT (EW): 330 W

QUADRANGLE: MACON EAST LONGITUDE: -88.986544

GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 39.691765

DATE COLLECTED: 7 / 0 / 1980

SURFACE ELEVATION (FT.): 699.5 LOGGED (FT.): 1053.0

LOG TYPE: Multiple log types

SOURCE: KINDERHOOK OIL & GAS,INC.

WELL TYPE: Dry Hole

COMMENT: LOG-TYPES: 19,23

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
699.5			UNCONSOLIDATED	121.0	0.0
578.5	BOND		UNCLASSIFIED	99.0	121.0
479.5	BOND		BLACK SHALE	4.0	220.0
475.5	BOND		COAL	1.0	224.0
474.5	BOND		UNCLASSIFIED	80.5	225.0
394.0	BOND	CARTHAGE	LIMESTONE	10.5	305.5
383.5	MODESTO		BLACK SHALE	4.0	316.0
379.5	MODESTO		UNCLASSIFIED	23.0	320.0
356.5	MODESTO		COAL	3.0	343.0
353.5	MODESTO		UNCLASSIFIED	82.0	346.0
271.5	MODESTO	WEST FRANKLIN	LIMESTONE	18.0	428.0
253.5	MODESTO		UNCLASSIFIED	109.0	446.0
144.5	MODESTO		BLACK SHALE	4.0	555.0
140.5	CARBONDALE	DANVILLE	COAL	2.0	559.0
138.5	CARBONDALE		UNCLASSIFIED	19.0	561.0
119.5	CARBONDALE		LIMESTONE	4.0	580.0
115.5	CARBONDALE		UNCLASSIFIED	4.0	584.0
111.5	CARBONDALE		DARK SHALE	3.0	588.0
108.5	CARBONDALE		UNCLASSIFIED	34.0	591.0
74.5	CARBONDALE	TURNER MINE	BLACK SHALE	4.0	625.0
70.5	CARBONDALE	SPRINGFIELD	COAL	4.0	629.0
66.5	CARBONDALE		UNCLASSIFIED	39.0	633.0
27.5	CARBONDALE	EXCELLO	BLACK SHALE	6.0	672.0
21.5	CARBONDALE	HOUCHIN CREEK	COAL	2.0	678.0
19.5	CARBONDALE		UNCLASSIFIED	75.0	680.0
-55.5	CARBONDALE		COAL	1.0	755.0
-56.5	CARBONDALE		UNCLASSIFIED	38.0	756.0
-94.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	5.0	794.0
-99.5	CARBONDALE	COLCHESTER	COAL	2.0	799.0
-101.5			UNCLASSIFIED	7.0	801.0
-108.5			DARK SHALE	7.0	808.0
-115.5			UNCLASSIFIED	51.0	815.0
-166.5			BLACK SHALE	5.0	866.0
-171.5			UNCLASSIFIED	182.0	871.0

MAPID: 11500025000C VERSION: 1

PROJECT: NCRDS97

COUNTY: MACON TWP/RNG: 15N 1E SECTION: 32 NESW

FOOT (NS): 1 N FOOT (EW): 1 W

QUADRANGLE: MACON WEST LONGITUDE: -89.116475

GEOLOGIST: C.KOROSE

CONFIDENTIAL: N LATITUDE: 39.706624

DATE COLLECTED: 0 / 0 / 1903

SURFACE ELEVATION (FT.): 614.0 LOGGED (FT.): 850.0

LOG TYPE: Drillers Log

SOURCE: BLUE MOUND CO.

WELL TYPE: Coal Test

COMMENT: VERSION 2 OF THIS HOLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
614.0	PLEISTOCENE		UNCONSOLIDATED	75.0	0.0	
539.0	BOND		CLAYSTONE & SHALE	23.0	75.0	
516.0	BOND		CLAYSTONE	1.0	98.0	
515.0	BOND		BLACK SHALE	1.0	99.0	
514.0	BOND		BONE COAL	0.5	100.0	
513.5	BOND		UNDERCLAY/SHALE	10.5	100.5	
503.0	BOND		SANDY SHALE	3.0	111.0	
500.0	BOND		LIMESTONE	5.0	114.0	
495.0	BOND		SANDSTONE	6.0	119.0	
489.0	BOND		SHALE	66.0	125.0	
423.0	BOND	CARTHAGE	LIMESTONE	9.0	191.0	
414.0	MODESTO		SHALE	1.0	200.0	
413.0	MODESTO		SHALE	4.0	201.0	
409.0	MODESTO		DARK SHALE	7.8	205.0	
401.2	MODESTO		BONE COAL	0.2	212.8	
401.0	MODESTO		UNDERCLAY	5.0	213.0	
396.0	MODESTO		LIMESTONE	7.0	218.0	
389.0	MODESTO		SHALE	7.0	225.0	
382.0	MODESTO		LIMESTONE	1.0	232.0	
381.0	MODESTO		SHALE	6.0	233.0	
375.0	MODESTO		SANDY LIMESTONE	5.0	239.0	WITH SHALE
370.0	MODESTO		SANDY SHALE	31.0	244.0	
339.0	MODESTO		SHALE	26.0	275.0	
313.0	MODESTO		BLACK SHALE	1.0	301.0	
312.0	MODESTO	CHAPEL	COAL	0.5	302.0	
311.5	MODESTO		UNDERCLAY	1.5	302.5	
310.0	MODESTO		SHALE	46.0	304.0	
264.0	MODESTO		SHALE	15.0	350.0	
249.0	MODESTO		SHALE	12.0	365.0	
237.0	MODESTO		SHALE	8.0	377.0	SOFT
229.0	MODESTO		LIMESTONE	4.0	385.0	
225.0	MODESTO		SHALE	39.0	389.0	
186.0	MODESTO		SHALE	4.7	428.0	
181.3	CARBONDALE	DANVILLE	COAL	2.5	432.7	
178.8	CARBONDALE		CLAYSTONE	1.5	435.2	
177.3	CARBONDALE	DANVILLE	COAL	0.7	436.7	
176.7	CARBONDALE		SHALE	13.7	437.3	
163.0	CARBONDALE	BRERETON	LIMESTONE	4.5	451.0	
158.5	CARBONDALE		SHALE	4.3	455.5	

154.2	CARBONDALE	HERRIN	COAL	3.5	459.8	
150.7	CARBONDALE		LIMESTONE	1.3	463.3	
149.5	CARBONDALE		LIMESTONE	4.5	464.5	
145.0	CARBONDALE		SHALE	17.0	469.0	
128.0	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	486.0	
125.0	CARBONDALE	SPRINGFIELD	COAL	5.3	489.0	"CLEAN, PARTING" IN LOG
119.7	CARBONDALE		UNDERCLAY	1.5	494.3	
118.2	CARBONDALE		SHALE	34.3	495.8	
84.0	CARBONDALE	EXCELLO	BLACK SHALE	3.0	530.0	
81.0	CARBONDALE	HOUCHIN CREEK	COAL	1.7	533.0	
79.3	CARBONDALE		SOFT SHALE	3.3	534.7	
76.0	CARBONDALE		SHALE	44.0	538.0	
32.0	CARBONDALE	SURVANT -UPPER	COAL	3.5	582.0	
28.5	CARBONDALE		SANDY SHALE	14.5	585.5	
14.0	CARBONDALE		SANDY SHALE	2.0	600.0	
12.0	CARBONDALE	SURVANT -LOWER	COAL	1.4	602.0	
10.6	CARBONDALE		SANDY SHALE	22.6	603.4	
-12.0	CARBONDALE		SHALE	13.3	626.0	
-25.3	CARBONDALE		COAL	1.2	639.3	
-26.5	CARBONDALE		SHALE	2.5	640.5	LOG NOTES "MUCKY"
-29.0	CARBONDALE		SANDSTONE	9.0	643.0	HARD
-38.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.0	652.0	
-39.0	CARBONDALE	MECCA QUARRY	COAL	0.3	653.0	
-39.3	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.6	653.3	
-41.8	CARBONDALE	COLCHESTER	COAL	2.4	655.8	WITH SULFUR
-44.3			UNDERCLAY	1.5	658.3	
-45.8			SHALE	4.3	659.8	
-50.0			SANDSTONE	4.0	664.0	
-54.0			SANDSTONE/SHALE	15.0	668.0	"FLOWING SALTWATER" NOTE IN LOG
-69.0			SHALE	7.5	683.0	
-76.5			BLACK SHALE	2.3	690.5	
-78.8			COAL	0.5	692.8	
-79.3			SHALE	16.8	693.3	
-96.0			SANDSTONE	6.0	710.0	
-102.0			BLACK SHALE	3.0	716.0	
-105.0			COAL	0.7	719.0	
-105.7			SHALE	16.3	719.7	
-122.0			DARK SHALE	2.0	736.0	
-124.0			SHALE	2.0	738.0	
-126.0			COAL	0.2	740.0	
-126.2			SHALE	1.8	740.2	
-128.0			COAL	0.5	742.0	
-128.5			SHALE	3.5	742.5	
-132.0			DARK SHALE	3.0	746.0	
-135.0			COAL	0.7	749.0	WITH SULFUR
-135.7			SANDSTONE/SHALE	10.3	749.7	
-146.0			DARK SHALE	5.0	760.0	
-151.0			BLACK SHALE	7.0	765.0	

-158.0	COAL	0.7	772.0
-158.7	SHALE	3.7	772.7
-162.3	SANDSTONE	2.7	776.3
-165.0	SANDY SHALE	10.0	779.0
-175.0	COAL	3.0	789.0
-178.0	SHALE	1.0	792.0
-179.0	SANDSTONE/SHALE	57.0	793.0

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MAPID: 11500025000C VERSION: 2

PROJECT: NCRDS87

COUNTY: MACON TWP/RNG: 15N 1E SECTION: 32 NESW

FOOT (NS): 1 N FOOT (EW): 1 W

QUADRANGLE: MACON WEST LONGITUDE: -89.116475

GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 39.706624

DATE COLLECTED: 0 / 0 / 1903

SURFACE ELEVATION (FT.): 614.0 LOGGED (FT.): 850.0

LOG TYPE: Drillers Log

SOURCE: BLUE MOUND COAL CO.

WELL TYPE: Coal Test

COMMENT: PRECISE LOCATION UNCERTAIN

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
614.0			UNCONSOLIDATED	75.0	0.0	
539.0	BOND		UNCLASSIFIED	24.0	75.0	
515.0	BOND		BLACK SHALE	1.0	99.0	UNCERTAIN CORRELATION
514.0	BOND		BONE COAL	0.5	100.0	
513.5	BOND		UNCLASSIFIED	13.5	100.5	
500.0	BOND		LIMESTONE	5.0	114.0	
495.0	BOND		UNCLASSIFIED	72.0	119.0	
423.0	BOND	CARTHAGE	LIMESTONE	9.0	191.0	
414.0	MODESTO		UNCLASSIFIED	1.0	200.0	
413.0	MODESTO		BLACK SHALE	4.0	201.0	
409.0	MODESTO		UNCLASSIFIED	7.8	205.0	
401.2	MODESTO		BONE COAL	0.2	212.8	
401.0	MODESTO		UNDERCLAY	5.0	213.0	
396.0	MODESTO		LIMESTONE	7.0	218.0	
389.0	MODESTO		UNCLASSIFIED	7.0	225.0	
382.0	MODESTO		LIMESTONE	1.0	232.0	
381.0	MODESTO		UNCLASSIFIED	68.0	233.0	
313.0	MODESTO		BLACK SHALE	1.0	301.0	
312.0	MODESTO	CHAPEL	COAL	0.5	302.0	
311.5	MODESTO		UNDERCLAY	1.5	302.5	
310.0	MODESTO		UNCLASSIFIED	81.0	304.0	
229.0	MODESTO		LIMESTONE	4.0	385.0	
225.0	MODESTO		UNCLASSIFIED	43.7	389.0	
181.3	CARBONDALE	DANVILLE	COAL	2.5	432.7	
178.8	CARBONDALE		UNDERCLAY	1.5	435.2	
177.3	CARBONDALE		COAL	0.6	436.7	
176.7	CARBONDALE		UNCLASSIFIED	13.7	437.3	
163.0	CARBONDALE	BRERETON	LIMESTONE	4.5	451.0	
158.5	CARBONDALE		UNCLASSIFIED	4.3	455.5	
154.2	CARBONDALE	HERRIN	COAL	3.4	459.8	
150.8	CARBONDALE		SHALE	1.3	463.2	
149.5	CARBONDALE		LIMESTONE	4.5	464.5	
145.0	CARBONDALE		UNCLASSIFIED	17.0	469.0	
128.0	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	486.0	
125.0	CARBONDALE	SPRINGFIELD	COAL	5.2	489.0	
119.8	CARBONDALE		UNCLASSIFIED	35.8	494.2	
84.0	CARBONDALE	EXCELLO	BLACK SHALE	3.0	530.0	
81.0	CARBONDALE	HOUCHIN CREEK	COAL	1.7	533.0	
79.3	CARBONDALE		UNCLASSIFIED	47.3	534.7	

32.0	CARBONDALE		COAL	3.5	582.0	
28.5	CARBONDALE		UNCLASSIFIED	16.5	585.5	
12.0	CARBONDALE		COAL	1.4	602.0	
10.6	CARBONDALE		UNCLASSIFIED	35.9	603.4	
-25.3	CARBONDALE		COAL	1.2	639.3	
-26.5	CARBONDALE		UNCLASSIFIED	11.5	640.5	
-38.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.0	652.0	UNCERTAIN CORRELATION
-39.0	CARBONDALE	COLCHESTER	COAL	0.2	653.0	UNCERTAIN CORRELATION
-39.2			BLACK SHALE	2.6	653.2	
-41.8			COAL	2.4	655.8	
-44.2			UNCLASSIFIED	32.3	658.2	
-76.5			BLACK SHALE	2.3	690.5	
-78.8			COAL	0.4	692.8	
-79.2			UNCLASSIFIED	22.8	693.2	
-102.0			BLACK SHALE	3.0	716.0	
-105.0			COAL	0.7	719.0	
-105.7			UNCLASSIFIED	20.3	719.7	
-126.0			COAL	0.2	740.0	
-126.2			UNCLASSIFIED	1.8	740.2	
-128.0			COAL	0.5	742.0	
-128.5			UNCLASSIFIED	6.5	742.5	
-135.0			COAL	0.7	749.0	
-135.7			UNCLASSIFIED	15.3	749.7	
-151.0			BLACK SHALE	7.0	765.0	
-158.0			COAL	0.7	772.0	
-158.7			UNCLASSIFIED	16.3	772.7	
-175.0			COAL	3.0	789.0	
-178.0			UNCLASSIFIED	58.0	792.0	

MAPID: 11500073000C    VERSION: 1

PROJECT: IDMM-GWQX

COUNTY: MACON    TWP/RNG: 16N 1E    SECTION: 11    SESW

FOOT (NS): 990 N    FOOT (EW): 330 E

QUADRANGLE:    LONGITUDE: -89.058381

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N    LATITUDE: 39.846566

DATE COLLECTED: 11 / 0 / 1957

SURFACE ELEVATION (FT.): 705.0    LOGGED (FT.): 723.0

LOG TYPE: Survey Core Study

SOURCE: CARTER E. M.

WELL TYPE: Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
270.0	MODESTO	PIASA	UNCLASSIFIED	6.0	435.0	
186.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	519.0	
140.0	CARBONDALE	SPRINGFIELD	UNCLASSIFIED	5.0	565.0	
95.0	CARBONDALE	HOUCHIN CREEK	UNCLASSIFIED	-	610.0	
43.0	CARBONDALE	SURVANT	UNCLASSIFIED	2.0	662.0	SPLIT. LOWER BENCH AT 680'
-18.0	CARBONDALE	COLCHESTER	UNCLASSIFIED	-	723.0	

MAPID: 11500087000C VERSION: 1

PROJECT: IDMM-GWQX

COUNTY: MACON TWP/RNG: 16N 1E SECTION: 15 SWSE

FOOT (NS): 330 S FOOT (EW): 330 E

QUADRANGLE: LONGITUDE: -89.072166

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.83182

DATE COLLECTED: 7 / 0 / 1958

SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 667.0

LOG TYPE: Survey Core Study

SOURCE: PARTLOW & COCHONOUR

WELL TYPE: Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
428.0			UNCLASSIFIED	-	222.0	
260.0	MODESTO	PIASA	UNCLASSIFIED	4.0	390.0	
181.0	CARBONDALE	HERRIN	UNCLASSIFIED	2.0	469.0	
142.0	CARBONDALE	SPRINGFIELD	UNCLASSIFIED	5.5	508.0	
100.0	CARBONDALE	HOUCHIN CREEK	UNCLASSIFIED	-	550.0	
42.0	CARBONDALE	SURVANT	UNCLASSIFIED	2.0	608.0	SPLIT. LOWER BENCH AT 611'
-17.0	CARBONDALE	COLCHESTER	UNCLASSIFIED	-	667.0	

MAPID: 11500809000C VERSION: 1

PROJECT: IDMM-GWQX

COUNTY: MACON TWP/RNG: 16N 1E SECTION: 21 SWSE

FOOT (NS): 330 S FOOT (EW): 330 E

QUADRANGLE: HARRISTOWN LONGITUDE: -89.090902

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.817267

DATE COLLECTED: 3 / 0 / 1965

SURFACE ELEVATION (FT.): 642.0 LOGGED (FT.): 596.0

LOG TYPE: Electric Log

SOURCE: ROBISON, H. F.

WELL TYPE: Producer-Oil

COMMENT: ELEV. IS SURF, NOT LOG DATUM: DEPTHS OFF

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
239.0	CARBONDALE	HERRIN	UNCLASSIFIED	4.5	403.0	
204.0	CARBONDALE	SPRINGFIELD	UNCLASSIFIED	5.5	438.0	
165.0	CARBONDALE	HOUCHIN CREEK	UNCLASSIFIED	-	477.0	
46.0	CARBONDALE	COLCHESTER	UNCLASSIFIED	-	596.0	

MAPID: 11500072000C VERSION: 1

PROJECT: IDMM-GWQX

COUNTY: MACON TWP/RNG: 16N 1E SECTION: 32 SW

FOOT (NS): 330 S FOOT (EW): 330 E

QUADRANGLE: HARRISTOWN LONGITUDE: -89.114555

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.788021

DATE COLLECTED: 11 / 0 / 1957

SURFACE ELEVATION (FT.): 584.0 LOGGED (FT.): 564.0

LOG TYPE: Electric Log

SOURCE: LITTLE WABASH OIL CO.

WELL TYPE: Producer-Oil

COMMENT: ELEV. IS SURF,NOT LOG DATUM: DEPTHS OFF

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
480.0	BOND	CARTHAGE	UNCLASSIFIED	11.0	104.0	
224.0	CARBONDALE	HERRIN	UNCLASSIFIED	4.0	360.0	
190.0	CARBONDALE	SPRINGFIELD	UNCLASSIFIED	3.0	394.0	
150.0	CARBONDALE	HOUCHIN CREEK	UNCLASSIFIED	-	434.0	
77.0	CARBONDALE	SURVANT	UNCLASSIFIED	-	507.0	SPLIT COAL?
40.0	CARBONDALE	COLCHESTER	UNCLASSIFIED	-	544.0	
20.0	SPOON	SEELYVILLE	UNCLASSIFIED	5.0	564.0	

MAPID: 11500012000C VERSION: 1

PROJECT: NCRDS87

COUNTY: MACON TWP/RNG: 16N 1W SECTION: 12 SWSWNW

FOOT (NS): 0 FOOT (EW): 0

QUADRANGLE: NIAN TIC LONGITUDE: -89.159909

GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 39.852673

DATE COLLECTED: 0 / 0 / 0

SURFACE ELEVATION (FT.): 585.0 LOGGED (FT.): 366.5

LOG TYPE: Drillers Log

SOURCE: NIAN TIC COAL

WELL TYPE: Mine Shaft

COMMENT: ELEV. SOURCE:ISGS BULL. 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
585.0			UNCONSOLIDATED	82.0	0.0	
503.0	BOND	CARTHAGE	LIMESTONE	10.0	82.0	
493.0	MODESTO		UNCLASSIFIED	2.0	92.0	
491.0	MODESTO		BLACK SHALE	3.0	94.0	
488.0	MODESTO		UNDERCLAY	6.0	97.0	
482.0	MODESTO	MACOUPIN	LIMESTONE	10.0	103.0	
472.0	MODESTO		UNCLASSIFIED	7.0	113.0	
465.0	MODESTO		BLACK SHALE	1.0	120.0	
464.0	MODESTO		COAL	0.2	121.0	
463.8	MODESTO		UNDERCLAY	1.0	121.2	
462.8	MODESTO		LIMESTONE	5.0	122.2	
457.8	MODESTO		UNCLASSIFIED	63.0	127.2	
394.8	MODESTO	CHAPEL	COAL	1.2	190.2	
393.6	MODESTO		UNCLASSIFIED	67.5	191.4	
326.1	MODESTO		BLACK SHALE	3.0	258.9	
323.1	MODESTO		UNCLASSIFIED	24.0	261.9	
299.1	MODESTO		BLACK SHALE	5.0	285.9	
294.1	CARBONDALE	DANVILLE	COAL	1.3	290.9	
292.8	CARBONDALE		UNDERCLAY	4.5	292.2	
288.3	CARBONDALE	ANNA	BLACK SHALE	11.0	296.7	
277.3	CARBONDALE	HERRIN	COAL	2.5	307.7	
274.8	CARBONDALE		UNDERCLAY	15.0	310.2	
259.8	CARBONDALE		BLACK SHALE	3.0	325.2	
256.8	CARBONDALE	BRIAR HILL	COAL	0.8	328.2	UNCERTAIN CORRELATION
256.0	CARBONDALE		UNCLASSIFIED	16.0	329.0	
240.0	CARBONDALE	TURNER MINE	BLACK SHALE	4.0	345.0	
236.0	CARBONDALE	SPRINGFIELD	COAL	5.5	349.0	
230.5	CARBONDALE		UNDERCLAY	3.0	354.5	
227.5	CARBONDALE		LIMESTONE	2.0	357.5	
225.5	CARBONDALE		UNCLASSIFIED	7.0	359.5	

MAPID: 11521674000C VERSION: 1

PROJECT: NCRDS87

COUNTY: MACON TWP/RNG: 16N 2E SECTION: 5 SWSWNW

FOOT (NS): 330 N FOOT (EW): 330 E

QUADRANGLE: HARRISTOWN LONGITUDE: -89.009003

GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 39.86927

DATE COLLECTED: 10 / 0 / 1983

SURFACE ELEVATION (FT.): 695.3 LOGGED (FT.): 922.0

LOG TYPE: Gamma Ray Density

SOURCE: JOHN CAREY OIL CO.,INC.

WELL TYPE: Producer-Oil and Gas

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.3			UNCONSOLIDATED	255.0	0.0	
440.3			LIMESTONE	9.0	255.0	
431.3			BLACK SHALE	5.0	264.0	
426.3			UNCLASSIFIED	6.0	269.0	
420.3			LIMESTONE	7.0	275.0	
413.3			BLACK SHALE	2.0	282.0	
411.3			UNCLASSIFIED	72.0	284.0	
339.3			COAL	1.0	356.0	
338.3			UNCLASSIFIED	43.0	357.0	
295.3	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	400.0	UNCERTAIN CORRELATION
288.3	MODESTO		BLACK SHALE	3.0	407.0	
285.3	MODESTO		UNCLASSIFIED	53.0	410.0	
232.3	MODESTO		BLACK SHALE	3.0	463.0	
229.3	MODESTO		UNCLASSIFIED	7.5	466.0	
221.8	CARBONDALE	DANVILLE	COAL	1.5	473.5	
220.3	CARBONDALE		UNCLASSIFIED	59.0	475.0	
161.3	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	534.0	
158.8	CARBONDALE	SPRINGFIELD	COAL	4.0	536.5	
154.8	CARBONDALE		UNCLASSIFIED	45.5	540.5	
109.3	CARBONDALE	HANOVER	LIMESTONE	2.0	586.0	
107.3	CARBONDALE	EXCELLO	BLACK SHALE	4.0	588.0	
103.3	CARBONDALE	HOUCHIN CREEK	COAL	2.0	592.0	
101.3	CARBONDALE		UNCLASSIFIED	71.0	594.0	
30.3	CARBONDALE	SURVANT	COAL	1.0	665.0	
29.3	CARBONDALE		UNCLASSIFIED	48.0	666.0	
-18.7	CARBONDALE	MECCA QUARRY	BLACK SHALE	5.0	714.0	UNCERTAIN CORRELATION
-23.7	CARBONDALE	COLCHESTER	COAL	1.0	719.0	UNCERTAIN CORRELATION
-24.7			UNCLASSIFIED	4.5	720.0	
-29.2			BLACK SHALE	4.5	724.5	
-33.7			COAL	1.5	729.0	
-35.2			UNCLASSIFIED	30.5	730.5	
-65.7			BLACK SHALE	3.0	761.0	
-68.7			UNCLASSIFIED	13.0	764.0	
-81.7			LIMESTONE	8.0	777.0	
-89.7			BLACK SHALE	3.0	785.0	
-92.7			UNCLASSIFIED	8.0	788.0	
-100.7			DARK SHALE	2.0	796.0	
-102.7			UNCLASSIFIED	9.0	798.0	
-111.7			DARK SHALE	1.0	807.0	

-112.7	UNCLASSIFIED	16.0	808.0
-128.7	COAL	3.0	824.0
-131.7	DARK SHALE	4.0	827.0
-135.7	UNCLASSIFIED	88.5	831.0
-224.2	COAL	3.5	919.5

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MAPID: 11500021000C VERSION: 1

PROJECT: NCRDS87

COUNTY: MACON TWP/RNG: 16N 2E SECTION: 11

FOOT (NS): 5280 N FOOT (EW): 540 E

QUADRANGLE: DECATUR LONGITUDE: -88.93721

GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 39.847911

DATE COLLECTED: 0 / 0 / 1875

SURFACE ELEVATION (FT.): 672.1 LOGGED (FT.): 855.0

LOG TYPE: Drillers Log

SOURCE: DECATUR COAL CO.

WELL TYPE: Mine Shaft

COMMENT: SOME QUESTION ON ACCURACY OF THIS RECORD

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.1			UNCONSOLIDATED	110.5	0.0	
561.6			UNCLASSIFIED	52.5	110.5	
509.1			BLACK SHALE	3.0	163.0	
506.1			UNCLASSIFIED	54.0	166.0	
452.1			LIMESTONE	8.0	220.0	
444.1			SHALE	7.0	228.0	
437.1			LIMESTONE	2.0	235.0	
435.1			SHALE/COAL	2.0	237.0	
433.1			UNCLASSIFIED	2.5	239.0	
430.6			UNCLASSIFIED	49.2	241.5	
381.4			COAL	0.5	290.7	
380.9			UNCLASSIFIED	8.5	291.2	
372.4			LIMESTONE	9.2	299.7	
363.2			UNCLASSIFIED	15.0	308.9	
348.2			LIMESTONE	9.0	323.9	
339.2			UNCLASSIFIED	2.3	332.9	
336.9			BLACK SHALE	2.0	335.2	
334.9			UNCLASSIFIED	12.0	337.2	
322.9			LIMESTONE	7.5	349.2	
315.4			UNCLASSIFIED	1.5	356.7	
313.9			BLACK SHALE	1.0	358.2	
312.9			UNCLASSIFIED	3.5	359.2	
309.4			LIMESTONE	20.5	362.7	
288.9			UNCLASSIFIED	38.5	383.2	
250.4			BLACK SHALE	1.5	421.7	
248.9	CARBONDALE	DANVILLE	COAL	6.0	423.2	UNCERTAIN CORRELATION
242.9	CARBONDALE		UNCLASSIFIED	33.8	429.2	
209.1	CARBONDALE		LIMESTONE	17.0	463.0	
192.1	CARBONDALE		UNCLASSIFIED	1.8	480.0	
190.3	CARBONDALE		BLACK SHALE	1.0	481.8	
189.3	CARBONDALE		UNCLASSIFIED	14.2	482.8	
175.1	CARBONDALE		LIMESTONE	2.0	497.0	
173.1	CARBONDALE		UNCLASSIFIED	30.2	499.0	
142.9	CARBONDALE		BLACK SHALE	3.3	529.2	
139.6	CARBONDALE		UNCLASSIFIED	1.3	532.5	
138.3	CARBONDALE		BLACK SHALE	1.4	533.8	
136.9	CARBONDALE		UNCLASSIFIED	6.0	535.2	
130.9	CARBONDALE		BLACK SHALE	1.0	541.2	
129.9	CARBONDALE		CLAYSTONE & LIMEST	1.0	542.2	

128.9	CARBONDALE		BLACK SHALE	0.6	543.2	
128.3	CARBONDALE		LIMESTONE	1.0	543.8	
127.3	CARBONDALE		UNCLASSIFIED	2.0	544.8	
125.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	546.8	
124.8	CARBONDALE	SPRINGFIELD	COAL	0.7	547.3	
124.1	CARBONDALE		UNCLASSIFIED	0.8	548.0	
123.3	CARBONDALE		LIMESTONE	6.7	548.8	
116.6	CARBONDALE		UNCLASSIFIED	0.5	555.5	
116.1	CARBONDALE		LIMESTONE	2.9	556.0	
113.2	CARBONDALE		COAL	0.4	558.9	
112.8	CARBONDALE		UNCLASSIFIED	41.7	559.3	
71.1	CARBONDALE	EXCELLO	BLACK SHALE	2.2	601.0	
68.9	CARBONDALE	HOUCHIN CREEK	COAL	3.6	603.2	
65.3	CARBONDALE		UNCLASSIFIED	50.2	606.8	
15.1	CARBONDALE		LIMESTONE	3.0	657.0	
12.1	CARBONDALE		COAL	2.0	660.0	
10.1	CARBONDALE		UNCLASSIFIED	20.0	662.0	
-9.9	CARBONDALE		LIMESTONE	3.0	682.0	
-12.9	CARBONDALE		UNCLASSIFIED	35.0	685.0	
-47.9	CARBONDALE	COLCHESTER	COAL	2.0	720.0	UNCERTAIN CORRELATION
-49.9			UNCLASSIFIED	17.0	722.0	
-66.9			COAL	1.0	739.0	
-67.9			UNCLASSIFIED	43.0	740.0	
-110.9			COAL	2.0	783.0	
-112.9			UNCLASSIFIED	20.0	785.0	
-132.9			COAL	5.0	805.0	
-137.9			UNCLASSIFIED	29.0	810.0	
-166.9			COAL	1.0	839.0	
-167.9			UNCLASSIFIED	13.0	840.0	
-180.9			LIMESTONE	2.0	853.0	

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MAPID: 11500011000C VERSION: 1

PROJECT: NCRDS97

COUNTY: MACON TWP/RNG: 16N 2E SECTION: 14

FOOT (NS): 820 S FOOT (EW): 80 W

QUADRANGLE: DECATUR LONGITUDE: -88.953716

GEOLOGIST: C.KOROSE

CONFIDENTIAL: N LATITUDE: 39.835248

DATE COLLECTED: 0 / 0 / 0

SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 558.0

LOG TYPE: Drillers Log

SOURCE: MANUF & CONSUMERS COAL CO.

WELL TYPE: Mine Shaft

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.0	PLEISTOCENE		UNCONSOLIDATED	90.0	0.0	
550.0	BOND		SHALE	6.0	90.0	
544.0	BOND		SHALE	10.0	96.0	
534.0	BOND		SHALE	15.0	106.0	YELLOW
519.0	BOND		SHALE	8.0	121.0	
511.0	BOND		SHALE	4.0	129.0	
507.0	BOND		BLACK SHALE	1.0	133.0	
506.0	BOND		CLAYSTONE	4.0	134.0	
502.0	BOND		LIMESTONE	9.0	138.0	
493.0	BOND		SHALE	1.0	147.0	
492.0	BOND		SHALE	4.0	148.0	
488.0	BOND		LIMESTONE	2.0	152.0	
486.0	BOND		SHALE	2.0	154.0	
484.0	BOND		BLACK SHALE	2.0	156.0	
482.0	BOND		COAL	1.0	158.0	
481.0	BOND		UNDERCLAY/SHALE	6.0	159.0	
475.0	BOND		SANDSTONE	2.0	165.0	
473.0	BOND		LIMESTONE	4.0	167.0	
469.0	BOND		SHALE & SANDSTONE	37.0	171.0	
432.0	BOND		BLACK SHALE	0.5	208.0	
431.5	BOND		COAL	0.7	208.5	
430.8	BOND		BLACK SHALE	1.8	209.2	HARD
429.0	BOND		BLACK SHALE	6.0	211.0	
423.0	BOND		LIMESTONE	1.0	217.0	
422.0	BOND		UNDERCLAY & LIMEST	9.0	218.0	
413.0	BOND		LIMESTONE	1.5	227.0	
411.5	BOND		SHALE	7.5	228.5	
404.0	BOND		LIMESTONE	2.0	236.0	
402.0	BOND		SANDY SHALE	2.0	238.0	
400.0	BOND	CARTHAGE	LIMESTONE	11.5	240.0	
388.5	MODESTO		BLACK SHALE	5.5	251.5	
383.0	MODESTO		SOFT SHALE	3.0	257.0	
380.0	MODESTO		LIMESTONE	1.5	260.0	
378.5	MODESTO		CLAYSTONE	4.5	261.5	
374.0	MODESTO		LIMESTONE	8.0	266.0	
366.0	MODESTO		BLACK SHALE	1.0	274.0	SOFT
365.0	MODESTO		CLAYSTONE & SILTST	2.0	275.0	
363.0	MODESTO		SHALE	2.0	277.0	
361.0	MODESTO		SHALE & SANDSTONE	68.0	279.0	

293.0	MODESTO		BLACK SHALE	2.0	347.0	
291.0	MODESTO	CHAPEL	COAL	1.5	349.0	
289.5	MODESTO		UNDERCLAY	4.5	350.5	
285.0	MODESTO		SANDY SHALE	36.0	355.0	
249.0	MODESTO		LIMESTONE	1.0	391.0	
248.0	MODESTO		SANDY SHALE	4.0	392.0	
244.0	MODESTO		LIMESTONE	1.0	396.0	
243.0	MODESTO		BLACK SHALE	2.0	397.0	
241.0	MODESTO		CLAYSTONE & SILTST	2.0	399.0	
239.0	MODESTO		LIMESTONE	6.0	401.0	
233.0	MODESTO		BLACK SHALE	3.0	407.0	
230.0	MODESTO		SANDSTONE	13.0	410.0	
217.0	MODESTO		LIMESTONE	16.0	423.0	
201.0	MODESTO		SANDY SHALE	35.0	439.0	
166.0	MODESTO		BLACK SHALE	16.0	474.0	
150.0	CARBONDALE	DANVILLE	COAL	1.5	490.0	
148.5	CARBONDALE		UNDERCLAY	3.0	491.5	
145.5	CARBONDALE	DANVILLE	COAL	1.5	494.5	
144.0	CARBONDALE		CLAYSTONE	9.0	496.0	
135.0	CARBONDALE	BRERETON	LIMESTONE	3.0	505.0	
132.0	CARBONDALE	HERRIN	COAL	0.0	508.0	PROBABLE HORIZON OF COAL
132.0	CARBONDALE		CLAYSTONE	2.0	508.0	
130.0	CARBONDALE		SHALE & SANDSTONE	32.0	510.0	THICK ADJUSTED 2.0' FROM LOG
98.0	CARBONDALE	ST. DAVID	LIMESTONE	1.5	542.0	
96.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	543.5	
94.5	CARBONDALE	SPRINGFIELD	COAL	4.2	545.5	
90.3	CARBONDALE		UNDERCLAY	3.3	549.7	
87.0	CARBONDALE		SANDSTONE	5.0	553.0	

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MAPID: 11500011000C VERSION: 2

PROJECT: NCRDS87

COUNTY: MACON TWP/RNG: 16N 2E SECTION: 14

FOOT (NS): 820 S FOOT (EW): 80 W

QUADRANGLE: DECATUR LONGITUDE: -88.953716

GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 39.835248

DATE COLLECTED: 0 / 0 / 0

SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 558.0

LOG TYPE: Drillers Log

SOURCE: MANUFACTURERS & CONSUMERS COAL CO.

WELL TYPE: Mine Shaft

COMMENT: DIFFICULT TO CORRELATE LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
640.0			UNCONSOLIDATED	90.0	0.0
550.0			UNCLASSIFIED	43.0	90.0
507.0			BLACK SHALE	1.0	133.0
506.0			UNDERCLAY	4.0	134.0
502.0			LIMESTONE	9.0	138.0
493.0			UNCLASSIFIED	5.0	147.0
488.0			LIMESTONE	2.0	152.0
486.0			UNCLASSIFIED	2.0	154.0
484.0			BLACK SHALE	2.0	156.0
482.0			COAL	1.0	158.0
481.0			UNCLASSIFIED	8.0	159.0
473.0			LIMESTONE	4.0	167.0
469.0			UNCLASSIFIED	37.0	171.0
432.0			SHALE	0.5	208.0
431.5			COAL	0.6	208.5
430.9			UNCLASSIFIED	7.9	209.1
423.0			LIMESTONE	1.0	217.0
422.0			UNCLASSIFIED	9.0	218.0
413.0			LIMESTONE	1.5	227.0
411.5			UNCLASSIFIED	7.5	228.5
404.0			LIMESTONE	2.0	236.0
402.0			UNCLASSIFIED	2.0	238.0
400.0			LIMESTONE	11.5	240.0
388.5			BLACK SHALE	5.5	251.5
383.0			UNCLASSIFIED	3.0	257.0
380.0			LIMESTONE	1.5	260.0
378.5			UNCLASSIFIED	4.5	261.5
374.0			LIMESTONE	8.0	266.0
366.0			UNCLASSIFIED	73.0	274.0
293.0			BLACK SHALE	2.0	347.0
291.0			COAL	1.5	349.0
289.5			UNDERCLAY	4.5	350.5
285.0			UNCLASSIFIED	36.0	355.0
249.0			LIMESTONE	1.0	391.0
248.0			UNCLASSIFIED	4.0	392.0
244.0			LIMESTONE	1.0	396.0
243.0			BLACK SHALE	2.0	397.0
241.0			UNDERCLAY	2.0	399.0
239.0			LIMESTONE	6.0	401.0

233.0			BLACK SHALE	3.0	407.0	
230.0			UNCLASSIFIED	13.0	410.0	
217.0			LIMESTONE	16.0	423.0	
201.0			UNCLASSIFIED	35.0	439.0	
166.0			BLACK SHALE	16.0	474.0	
150.0	CARBONDALE	DANVILLE	COAL	1.5	490.0	UNCERTAIN CORRELATION
148.5	CARBONDALE		UNDERCLAY	3.0	491.5	
145.5	CARBONDALE	DANVILLE	COAL	1.5	494.5	UNCERTAIN CORRELATION
144.0	CARBONDALE		UNCLASSIFIED	9.0	496.0	
135.0	CARBONDALE		LIMESTONE	3.0	505.0	
132.0	CARBONDALE		UNCLASSIFIED	34.0	508.0	
98.0	CARBONDALE		LIMESTONE	1.5	542.0	
96.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	543.5	
94.5	CARBONDALE	SPRINGFIELD	COAL	4.1	545.5	
90.4	CARBONDALE		UNDERCLAY	3.4	549.6	
87.0	CARBONDALE		UNCLASSIFIED	5.0	553.0	

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MAPID: 11500022000C VERSION: 1

PROJECT: NCRDS87

COUNTY: MACON TWP/RNG: 16N 2E SECTION: 14

FOOT (NS): 600 S FOOT (EW): 1160 E

QUADRANGLE: DECATUR LONGITUDE: -88.939176

GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 39.834967

DATE COLLECTED: 0 / 0 / 1875

SURFACE ELEVATION (FT.): 667.0

LOGGED (FT.): 559.3

LOG TYPE: Drillers Log

SOURCE: DECATUR COAL CO.

WELL TYPE: Mine Shaft

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.0			UNCONSOLIDATED	133.0	0.0	
534.0			UNCLASSIFIED	86.5	133.0	
447.5			LIMESTONE	7.0	219.5	
440.5			UNCLASSIFIED	12.5	226.5	
428.0			BLACK SHALE	1.0	239.0	
427.0			UNCLASSIFIED	2.5	240.0	
424.5			COAL	0.8	242.5	
423.7			UNCLASSIFIED	47.0	243.3	
376.7			BLACK SHALE	2.5	290.3	
374.2			COAL	1.0	292.8	
373.2			BLACK SHALE	8.5	293.8	
364.7			UNCLASSIFIED	6.6	302.3	
358.1			BLACK SHALE	3.5	308.9	
354.6			LIMESTONE	1.5	312.4	
353.1			UNCLASSIFIED	9.0	313.9	
344.1			BLACK SHALE	4.0	322.9	
340.1			LIMESTONE	11.0	326.9	
329.1			BLACK SHALE	12.0	337.9	
317.1			UNCLASSIFIED	4.0	349.9	
313.1			LIMESTONE	10.0	353.9	
303.1			BLACK SHALE	2.0	363.9	
301.1			UNCLASSIFIED	68.0	365.9	
233.1			BLACK SHALE	1.0	433.9	
232.1	MODESTO	CHAPEL	COAL	1.5	434.9	UNCERTAIN CORRELATION
230.6			UNCLASSIFIED	49.0	436.4	
181.6			BLACK SHALE	5.0	485.4	
176.6			COAL	0.3	490.4	
176.3			UNCLASSIFIED	4.0	490.7	
172.3			LIMESTONE	11.0	494.7	
161.3			BLACK SHALE	4.3	505.7	
157.0			UNCLASSIFIED	2.0	510.0	
155.0	CARBONDALE	DANVILLE	COAL	0.3	512.0	UNCERTAIN CORRELATION
154.7	CARBONDALE		UNCLASSIFIED	19.0	512.3	
135.7	CARBONDALE		BLACK SHALE	4.0	531.3	
131.7	CARBONDALE		UNCLASSIFIED	17.0	535.3	
114.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	552.3	UNCERTAIN CORRELATION
112.7	CARBONDALE	SPRINGFIELD	COAL WITH SHALE PA	5.0	554.3	UNCERTAIN CORRELATION

MAPID: 11500023000C VERSION: 1

PROJECT: NCRDS87

COUNTY: MACON TWP/RNG: 16N 2E SECTION: 15

FOOT (NS): 660 S FOOT (EW): 180 E

QUADRANGLE: DECATUR LONGITUDE: -88.954629

GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 39.834797

DATE COLLECTED: 0 / 0 / 0

SURFACE ELEVATION (FT.): 615.0 LOGGED (FT.): 587.5

LOG TYPE: Drillers Log

SOURCE: MACON COUNTY COAL CO. (M.TC. COAL)

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
615.0			UNCONSOLIDATED	121.0	0.0	
494.0			SHALE	48.0	121.0	
446.0			LIMESTONE	10.0	169.0	
436.0			SHALE	4.0	179.0	
432.0			LIMESTONE	2.0	183.0	
430.0			SHALE	4.0	185.0	
426.0			COAL	0.7	189.0	
425.3			SHALE	6.3	189.7	
419.0			SANDSTONE	2.0	196.0	
417.0			LIMESTONE	4.0	198.0	
413.0			SHALE	37.0	202.0	
376.0			COAL	1.0	239.0	
375.0			SHALE	8.0	240.0	
367.0			LIMESTONE	12.0	248.0	
355.0			SHALE	6.0	260.0	
349.0			LIMESTONE	2.0	266.0	
347.0			SHALE	3.0	268.0	
344.0			LIMESTONE	12.0	271.0	
332.0			SHALE	8.0	283.0	
324.0			LIMESTONE	2.0	291.0	
322.0			SHALE	5.0	293.0	
317.0			LIMESTONE	6.0	298.0	
311.0			SHALE	10.0	304.0	
301.0			SANDSTONE	17.0	314.0	
284.0			SHALE	47.0	331.0	
237.0			CALCAREOUS SHALE	2.0	378.0	
235.0			COAL	1.5	380.0	
233.5			CLAYSTONE	3.5	381.5	
230.0			SILTSTONE	36.0	385.0	
194.0			LIMESTONE	1.0	421.0	
193.0			SHALE	5.0	422.0	
188.0			LIMESTONE	1.0	427.0	
187.0			SHALE	2.0	428.0	
185.0			CLAYSTONE	2.0	430.0	
183.0			LIMESTONE	6.0	432.0	
177.0			SHALE	16.0	438.0	
161.0			LIMESTONE	7.0	454.0	
154.0			SHALE	43.0	461.0	
111.0			SHALE	17.0	504.0	

94.0	CARBONDALE	DANVILLE	COAL	2.0	521.0	UNCERTAIN CORRELATION
92.0	CARBONDALE		CLAYSTONE	2.0	523.0	
90.0	CARBONDALE	DANVILLE	COAL	2.0	525.0	UNCERTAIN CORRELATION
88.0	CARBONDALE		SHALE	9.0	527.0	
79.0	CARBONDALE		LIMESTONE	2.0	536.0	
77.0	CARBONDALE		SHALE	2.0	538.0	
75.0	CARBONDALE		LIMESTONE	1.0	540.0	
74.0	CARBONDALE		LIMESTONE	5.0	541.0	
69.0	CARBONDALE		SANDSTONE	24.0	546.0	
45.0	CARBONDALE		SHALE	3.0	570.0	
42.0	CARBONDALE		LIMESTONE	2.0	573.0	
40.0	CARBONDALE		SHALE	2.0	575.0	
38.0	CARBONDALE	SPRINGFIELD	COAL	3.0	577.0	UNCERTAIN CORRELATION
35.0	CARBONDALE		CLAYSTONE	3.0	580.0	
32.0	CARBONDALE		SANDSTONE	4.5	583.0	

MAPID: 11500010000C    VERSION: 1

PROJECT: NCRDS87

COUNTY: MACON    TWP/RNG: 16N 2E    SECTION: 22

FOOT (NS): 1 N    FOOT (EW): 1 E

QUADRANGLE: DECATUR    LONGITUDE: -88.953905

GEOLOGIST: WEIBEL

CONFIDENTIAL: N    LATITUDE: 39.832977

DATE COLLECTED: 0 / 0 / 0

SURFACE ELEVATION (FT.): 615.0    LOGGED (FT.): 560.0

LOG TYPE: Drillers Log

SOURCE: MANUFACTURERS & CONSUMERS COAL CO.

WELL TYPE: Mine Shaft

COMMENT: LOCATION WITHIN SECTION UNCERTAIN

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN	COMMENT
376.0			COAL	1.0	239.0	
375.0			UNCLASSIFIED	54.0	240.0	
321.0			COAL	1.0	294.0	
320.0			UNCLASSIFIED	40.0	295.0	
280.0			LIMESTONE	10.0	335.0	
270.0			UNCLASSIFIED	5.0	345.0	
265.0			LIMESTONE	15.0	350.0	
250.0			UNCLASSIFIED	68.5	365.0	
181.5	CARBONDALE	DANVILLE	COAL	1.5	433.5	
180.0	CARBONDALE		UNCLASSIFIED	59.5	435.0	
120.5	CARBONDALE	SPRINGFIELD	COAL	0.5	494.5	
120.0	CARBONDALE		LIMESTONE	10.0	495.0	
110.0	CARBONDALE		UNCLASSIFIED	54.5	505.0	
55.5	CARBONDALE	HOUCHIN CREEK	COAL	0.5	559.5	

MAPID: 11521338000C VERSION: 1

PROJECT: NCRDS87

COUNTY: MACON TWP/RNG: 16N 3E SECTION: 5 NWSW

FOOT (NS): 660 N FOOT (EW): 330 E

QUADRANGLE: DECATUR LONGITUDE: -88.894475

GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 39.868894

DATE COLLECTED: 2 / 19 / 1980

SURFACE ELEVATION (FT.): 679.0 LOGGED (FT.): 906.0

LOG TYPE: Multiple log types

SOURCE: ARCHER DANIALS MIDLAND CO.

WELL TYPE: Dry Hole

COMMENT: LOG-TYPES: 19,21

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
679.0			UNCONSOLIDATED	125.0	0.0
554.0	BOND		UNCLASSIFIED	55.0	125.0
499.0	BOND		LIMESTONE	7.0	180.0
492.0	BOND		BLACK SHALE	5.0	187.0
487.0	BOND		UNCLASSIFIED	158.0	192.0
329.0	BOND	CARTHAGE	LIMESTONE	9.0	350.0
320.0	MODESTO		BLACK SHALE	4.0	359.0
316.0	MODESTO		UNCLASSIFIED	101.0	363.0
215.0	MODESTO	WEST FRANKLIN	LIMESTONE	18.0	464.0
197.0	MODESTO		UNCLASSIFIED	94.0	482.0
103.0	MODESTO		BLACK SHALE	8.0	576.0
95.0			UNCLASSIFIED	20.0	584.0
75.0	CARBONDALE	HERRIN	COAL	-	604.0
74.0	CARBONDALE		UNCLASSIFIED	43.0	605.0
31.0	CARBONDALE	TURNER MINE	BLACK SHALE	5.0	648.0
26.0	CARBONDALE	SPRINGFIELD	COAL	4.0	653.0
22.0	CARBONDALE		UNCLASSIFIED	44.0	657.0
-22.0	CARBONDALE	EXCELLO	BLACK SHALE	7.0	701.0
-29.0	CARBONDALE	HOUCHIN CREEK	COAL	1.5	708.0
-30.5	CARBONDALE		UNCLASSIFIED	112.5	709.5
-143.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	8.0	822.0
-151.0	CARBONDALE	COLCHESTER	COAL	1.0	830.0
-152.0			UNCLASSIFIED	3.0	831.0
-155.0			BLACK SHALE	11.5	834.0
-166.5			COAL	1.5	845.5
-168.0			UNCLASSIFIED	30.0	847.0
-198.0			BLACK SHALE	8.0	877.0
-206.0			UNCLASSIFIED	16.0	885.0
-222.0			BLACK SHALE	5.0	901.0

MAPID: 11500501000C VERSION: 1

PROJECT: IDMM-GWQX

COUNTY: MACON TWP/RNG: 17N 2E SECTION: 16 NENE

FOOT (NS): 330 S FOOT (EW): 330 E

QUADRANGLE: FORSYTH LONGITUDE: -88.975518

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.931808

DATE COLLECTED: 9 / 0 / 1954

SURFACE ELEVATION (FT.): 654.0 LOGGED (FT.): 1000.0

LOG TYPE: Electric Log

SOURCE: PROCTOR RICHARD H

WELL TYPE: Producer-Oil

COMMENT: ELEV. IS SURF,NOT LOG DATUM: DEPTHS OFF

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
427.0	BOND	CARTHAGE	UNCLASSIFIED	11.0	227.0	
327.0	MODESTO	PIASA	UNCLASSIFIED	15.0	327.0	
184.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	470.0	MAY BE LIMESTONE
144.0	CARBONDALE	SPRINGFIELD	UNCLASSIFIED	5.0	510.0	
94.0	CARBONDALE	HOUCHIN CREEK	UNCLASSIFIED	-	560.0	
26.0	CARBONDALE	SURVANT	UNCLASSIFIED	1.5	628.0	SPLIT
-38.0	CARBONDALE	COLCHESTER	UNCLASSIFIED	4.0	692.0	LITHOLOGY UNCERTAIN
-346.0	BASE OF PENN.		UNCLASSIFIED	-	1000.0	

MAPID: 11500509000C VERSION: 1

PROJECT: IDMM-GWQX

COUNTY: MACON TWP/RNG: 17N 2E SECTION: 28

FOOT (NS): 330 S FOOT (EW): 330 W

QUADRANGLE: FORSYTH LONGITUDE: -88.991586

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.891215

DATE COLLECTED: 12 / 0 / 1954

SURFACE ELEVATION (FT.): 693.0 LOGGED (FT.): 699.0

LOG TYPE: Electric Log

SOURCE: RICHARDSON, M. H.

WELL TYPE: Producer-Oil

COMMENT: ELEV. IS SURF,NOT LOG DATUM: DEPTHS OFF

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
456.0	BOND	CARTHAGE	UNCLASSIFIED	10.0	237.0	
329.0	MODESTO	PIASA	UNCLASSIFIED	17.0	364.0	
218.0	CARBONDALE	HERRIN	UNCLASSIFIED	3.0	475.0	APPROXIMATE THICKNESS
172.0	CARBONDALE	SPRINGFIELD	UNCLASSIFIED	6.0	521.0	
-6.0	CARBONDALE	COLCHESTER	UNCLASSIFIED	-	699.0	APPROXIMATE POSITION

MAPID: 11500521000C VERSION: 1

PROJECT: IDMM-GWQX

COUNTY: MACON TWP/RNG: 17N 2E SECTION: 33 SW

FOOT (NS): 330 S FOOT (EW): 330 W

QUADRANGLE: FORSYTH LONGITUDE: -88.991366

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.876683

DATE COLLECTED: 2 / 0 / 1949

SURFACE ELEVATION (FT.): 649.0 LOGGED (FT.): 667.0

LOG TYPE: Electric Log

SOURCE: HERRING HERMAN C

WELL TYPE: Producer-Oil

COMMENT: ELEV. IS SURF,NOT LOG DATUM: DEPTHS OFF

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
443.0	BOND	CARTHAGE	UNCLASSIFIED	12.0	206.0	
302.0	MODESTO	PIASA	UNCLASSIFIED	23.0	347.0	INCLUDES 6' SHALE BED
221.0	CARBONDALE	HERRIN	UNCLASSIFIED	-	428.0	
167.0	CARBONDALE	SPRINGFIELD	UNCLASSIFIED	6.0	482.0	
111.0	CARBONDALE	HOUCHIN CREEK	UNCLASSIFIED	-	538.0	
-18.0	CARBONDALE	COLCHESTER	UNCLASSIFIED	-	667.0	BED MAY BE AT 677'

MAPID: 11521843000C VERSION: 1

PROJECT: IBC XSECT

COUNTY: MACON TWP/RNG: 17N 4E SECTION: 18 NW

FOOT (NS): 330 S FOOT (EW): 330 E

QUADRANGLE: ARGENTA LONGITUDE: -88.794406

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.932012

DATE COLLECTED: 0 / 0 / 0

SURFACE ELEVATION (FT.): 656.0 LOGGED (FT.): 895.0

LOG TYPE:

SOURCE: POWER EXPLORATIONS ANDERSON 1

WELL TYPE: Producer-Oil

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-46.0	CARBONDALE	HERRIN	COAL	-	702.0	LITHOLOGY & CORRELATION UNCERTAIN
-239.0	CARBONDALE	COLCHESTER	COAL	-	895.0	LITHOLOGY & CORRELATION UNCERTAIN

MAPID: 11522005000C VERSION: 1

PROJECT: NCRDS97

COUNTY: MACON TWP/RNG: 18N 2E SECTION: 15 NWNE

FOOT (NS): 225 N FOOT (EW): 750 W

QUADRANGLE: MAROA LONGITUDE: -88.963079

GEOLOGIST: C.KOROSE

CONFIDENTIAL: N LATITUDE: 40.021938

DATE COLLECTED: 8 / 6 / 1974

SURFACE ELEVATION (FT.): 700.0 LOGGED (FT.): 560.0

LOG TYPE: Electric Log

SOURCE: HYDROCARBON SURVEY 74-J-1

WELL TYPE: Structure Test

COMMENT: THICK ESTIMATED FROM LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
220.0	CARBONDALE	DANVILLE	COAL	1.5	480.0	
200.0	CARBONDALE	HERRIN	COAL	1.0	500.0	
156.0	CARBONDALE	SPRINGFIELD	COAL	4.2	544.0	

MAPID: 11500823000C VERSION: 1

PROJECT: NCRDS87

COUNTY: MACON TWP/RNG: 18N 2E SECTION: 33 NW

FOOT (NS): 330 S FOOT (EW): 330 E

QUADRANGLE: FORSYTH LONGITUDE: -88.985394

GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 39.971625

DATE COLLECTED: 7 / 14 / 1965

SURFACE ELEVATION (FT.): 691.2 LOGGED (FT.): 982.0

LOG TYPE: Multiple log types

SOURCE: A.G. HILL

WELL TYPE: Dry Hole

COMMENT: LOG-TYPES;21,22;3TO4FT.DIFF.BETWEEN LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
691.2			UNCONSOLIDATED	188.0	0.0
503.2	BOND		UNCLASSIFIED	32.0	188.0
471.2	BOND	CARTHAGE	LIMESTONE	10.0	220.0
461.2	MODESTO		BLACK SHALE	4.0	230.0
457.2	MODESTO		UNCLASSIFIED	4.0	234.0
453.2	MODESTO		LIMESTONE	6.0	238.0
447.2	MODESTO		DARK SHALE	4.0	244.0
443.2	MODESTO		UNCLASSIFIED	76.0	248.0
367.2	MODESTO	PIASA	LIMESTONE	12.0	324.0
355.2			UNCLASSIFIED	3.0	336.0
352.2			COAL	1.0	339.0
351.2			UNCLASSIFIED	92.0	340.0
259.2			BLACK SHALE	3.0	432.0
256.2	CARBONDALE	DANVILLE	COAL	0.0	435.0
256.2			UNCLASSIFIED	26.5	435.0
229.7	CARBONDALE	ANNA	BLACK SHALE	2.5	461.5
227.2	CARBONDALE	HERRIN	COAL	0.0	464.0
227.2			UNCLASSIFIED	30.0	464.0
197.2	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	494.0
194.2	CARBONDALE	SPRINGFIELD	COAL	3.0	497.0
191.2			UNCLASSIFIED	38.0	500.0
153.2	CARBONDALE	EXCELLO	BLACK SHALE	4.0	538.0
149.2	CARBONDALE	HOUCHIN CREEK	COAL	2.0	542.0
147.2			UNCLASSIFIED	61.0	544.0
86.2	CARBONDALE	SURVANT	COAL	1.0	605.0
85.2			UNCLASSIFIED	91.0	606.0
-5.8	CARBONDALE	MECCA QUARRY	BLACK SHALE	6.0	697.0
-11.8	CARBONDALE	COLCHESTER	COAL	0.0	703.0
-11.8			UNCLASSIFIED	58.0	703.0
-69.8			BLACK SHALE	5.0	761.0
-74.8			UNCLASSIFIED	30.0	766.0
-104.8			COAL	4.0	796.0
-108.8			UNCLASSIFIED	182.0	800.0
-290.8			UNCLASSIFIED	0.0	982.0

MAPID: 11522010000C VERSION: 1

PROJECT: NCRDS97

COUNTY: MACON TWP/RNG: 18N 3E SECTION: 6 NE

FOOT (NS): 1041 N FOOT (EW): 22 E

QUADRANGLE: MAROA LONGITUDE: -88.898334

GEOLOGIST: C.KOROSE

CONFIDENTIAL: N LATITUDE: 40.050693

DATE COLLECTED: 8 / 27 / 1974

SURFACE ELEVATION (FT.): 701.0 LOGGED (FT.): 602.0

LOG TYPE: Electric Log

SOURCE: HYDROCARBON SURVEY 74-J-9

WELL TYPE: Structure Test

COMMENT: THICKNESSES ESTIMATED FROM LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
194.0	CARBONDALE	DANVILLE	COAL	2.8	507.0	
171.0	CARBONDALE	HERRIN	COAL	4.0	530.0	ELOG: MAYBE LIMESTONE + THIN COAL
129.0	CARBONDALE	SPRINGFIELD	COAL	4.2	572.0	

MAPID: 11522015000C VERSION: 1

PROJECT: NCRDS97

COUNTY: MACON TWP/RNG: 18N 3E SECTION: 10 SW

FOOT (NS): 51 S FOOT (EW): 21 W

QUADRANGLE: WELDON WEST LONGITUDE: -88.860409

GEOLOGIST: C.KOROSE

CONFIDENTIAL: N LATITUDE: 40.025029

DATE COLLECTED: 8 / 20 / 1974

SURFACE ELEVATION (FT.): 693.0 LOGGED (FT.): 597.0

LOG TYPE: Electric Log

SOURCE: HYDROCARBON SURVEY 74-J-6

WELL TYPE: Structure Test

COMMENT: THICK ESTIMATED FROM LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
171.0	CARBONDALE	DANVILLE	COAL	1.5	522.0	
147.0	CARBONDALE	HERRIN	COAL	-	546.0	DEPTH QUESTIONABLE
105.0	CARBONDALE	SPRINGFIELD	COAL	3.8	588.0	

MAPID: 11522018000C VERSION: 1

PROJECT: NCRDS97

COUNTY: MACON TWP/RNG: 18N 3E SECTION: 21 NW

FOOT (NS): 33 N FOOT (EW): 114 W

QUADRANGLE: MAROA LONGITUDE: -88.879187

GEOLOGIST: C.KOROSE

CONFIDENTIAL: N LATITUDE: 40.009831

DATE COLLECTED: 8 / 21 / 1974

SURFACE ELEVATION (FT.): 691.0 LOGGED (FT.): 582.0

LOG TYPE: Electric Log

SOURCE: HYDROCARBON SURVEY 74-J-7

WELL TYPE: Structure Test

COMMENT: THICK ESTIMATED FROM LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
182.0	CARBONDALE	DANVILLE	COAL	1.7	509.0	
160.0	CARBONDALE	HERRIN	COAL	-	531.0	
121.0	CARBONDALE	SPRINGFIELD	COAL	4.1	570.0	

MAPID: 11500593000C VERSION: 1

PROJECT: IBC XSECT

COUNTY: MACON TWP/RNG: 18N 4E SECTION: 4

FOOT (NS): 330 N FOOT (EW): 990 E

QUADRANGLE: WELDON EAST LONGITUDE: -88.748721

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 40.05417

DATE COLLECTED: 5 / 0 / 1949

SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 764.0

LOG TYPE: Other Core Study

SOURCE: TULLEY & CARTER

WELL TYPE: Producer-Oil

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
124.0	CARBONDALE	HERRIN	COAL	-	556.0	LITHOLOGY & CORRELATION UNCERTAIN
97.0	CARBONDALE	SPRINGFIELD	COAL	-	583.0	
-84.0	CARBONDALE	COLCHESTER	COAL	-	764.0	

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