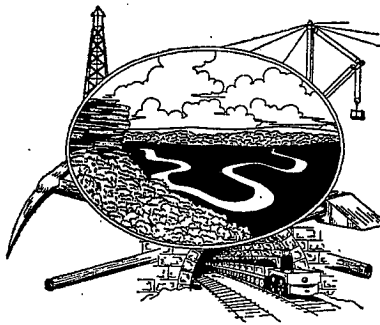


**STATE OF TENNESSEE  
DEPARTMENT OF CONSERVATION  
DIVISION OF GEOLOGY**

**REPORT OF INVESTIGATIONS No. 21**

**WELL SAMPLE DESCRIPTIONS  
AND DRILLERS' LOGS,  
SCOTT COUNTY, TENNESSEE**

**By  
H. B. BURWELL**



**NASHVILLE, TENNESSEE  
1967**

**STATE OF TENNESSEE**

**BUFORD ELLINGTON, Governor**

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**DEPARTMENT OF CONSERVATION**

**E. BOYD GARRETT, Commissioner**

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**DIVISION OF GEOLOGY**

**WILLIAM D. HARDEMAN, State Geologist**

# WELL SAMPLE DESCRIPTIONS AND DRILLERS' LOGS, SCOTT COUNTY, TENNESSEE

By

H. B. BURWELL<sup>1</sup>

## INTRODUCTION

This report presents all available drillers' logs and lithologic descriptions of all available samples from oil and gas tests drilled to date in Scott County.

Tests are arranged in numerical order by "Map Number," which number can be used to identify the locations of these tests on *Oil and Gas Map, Scott County, Tennessee* (Burwell and Milhous, 1967).

The tests are indexed alphabetically by operator and by landowner at the beginning of this report.

Locations of tests are based on the Tennessee Carter Coordinate System, an extension of the Kentucky Carter Coordinate System.

Casing-head elevations followed by the letter T are estimates made from 7½-minute topographic maps (scale 1 inch equals 2,000 feet, contour interval 20 feet). Elevations followed by the letter S have been surveyed.

Stratigraphic interpretations, which follow the drillers' logs and sample descriptions, are based on present work.

If a Sample Set Number is given, a set of cuttings is available for study at the Tennessee Division of Geology office in Nashville.

An effort was made to standardize the format of presentation of headings, logs, sample studies, and stratigraphic interpretations. Very little was done to alter expressions and descriptions used in drillers' logs, and only the most obvious mistakes were corrected.

Robert J. Floyd of the Division of Geology edited the manuscript, supervised proofreading, and arranged the printing of the report.

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<sup>1</sup>Consulting Geologist, Tennessee Division of Geology, Nashville.

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_____	Parker-Templeton No. 1 .....	15
_____	Slavens No. 1 .....	9
_____	Slavens No. 2 .....	9
_____	G. B. West No. 1 .....	26

**MAP NUMBER—1**  
**S. D. Jarvis, William Copeland No. 1**

CARTER COORD.: SW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 22, B-58E      ELEVATION: 935 (T)  
 DATE: 1958      TOTAL DEPTH: 790  
 PRODUCTION: Dry  
 CASING RECORD: 8" @ 22'7"; 7" @ 381  
 REMARKS: Oil shows reported @ 385-91 (1 quart per hour) and 475-80.  
 Gas shows reported @ 368-74, 385-91 (small), and 475-80. Water reported @ 18, 40, 100 (S), 347 (C1), 357 (C1 up hole 260), 368-74 (C1).

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand and gravel .....	0	15
Sand .....	15	54
Lime .....	54	82
Brown lime .....	82	104
Blue mud .....	104	110
Brown lime .....	110	177
Blue shale .....	177	180
Brown lime .....	180	260
White lime .....	260	275
Brown lime .....	275	405
White lime .....	405	434
Brown lime .....	434	447
Gray lime .....	447	471
Brown lime .....	471	540
Sand lime .....	540	552
Sand, hard .....	552	567
Sand lime .....	567	575
Blue lime .....	575	628
Brown lime .....	628	635
Gray lime .....	635	648
Brown lime .....	648	659
Gray lime .....	659	672
Brown lime .....	672	693
Blue lime .....	693	708
Brown lime .....	708	718
Lime .....	718	730
Dolomite .....	730	741
Lime .....	741	768
Brown lime .....	768	777
Lime .....	777	783
Shale, green .....	783	785
Shale, black .....	785	790

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN		
MISSISSIPPIAN .....	54	790 (last record)
Pennington Formation .....	54	
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		785
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	785	790 (last record)

MAP NUMBER—2

Williams et al., Copeland & Hurt No. 1

CARTER COORD.: NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 22, B-58E      ELEVATION: 940 (T)  
 DATE: 1949      TOTAL DEPTH: 785  
 SAMPLE SET: No. 628  
 PRODUCTION: Dry  
 REMARKS: Oil show reported @ 320.

SAMPLE DESCRIPTION

410-15	Dolomite	gray and tan, fine-grained, <i>show of oil, sulfate</i>
415-60	Samples missing	
460-65	Dolomite	gray, fine-grained, cherty, <i>sulfate</i>
465-70	Samples missing	
470-75	Sandstone	gray, fine-grained, dolomitic, cherty (pink chert), <i>trace of sulfate</i>
475-80	Dolomite	gray-tan, fine-grained, cherty, <i>sulfate</i>
480-85	Dolomite	gray-tan, fine-grained, slightly cherty, <i>sulfate</i>
485-90	Limestone	gray-brown, fine-grained, dolomitic
490-95	Limestone	gray-brown, fine-grained
495-500	Siltstone	gray-brown, limy, dolomitic
500-05	Dolomite	gray, fine-grained
505-10	Sandstone	gray, pink and yellow, fine-grained, angular, limy, dolomitic
510-15	Sandstone	gray, fine-grained, angular, limy, dolomitic
515-35	Samples missing	
535-40	Limestone	white, fine-to medium-grained, dolomitic, very cherty
540-45	Sandstone	gray-brown, fine-grained, subangular, dolomitic, <i>very slight show of oil, intergranular sulfate</i>

545-50	Sandstone	gray-brown, fine-grained, subangular, dolomitic, <i>intergranular sulfate</i>
550-55	Sandstone	gray-brown, fine-grained, subangular, dolomitic
555-65	Samples missing	
565-70	Siltstone	gray and maroon, dolomitic, trace of pink chert
570-85	Samples missing	
585-90	Sandstone	gray, fine-grained, subangular, dolomitic, <i>trace of intergranular sulfate</i> , trace of pink chert
590-615	Samples missing	
615-20	Limestone	gray and white, medium- to coarse-grained, very cherty
620-25	Samples missing	
625-30	Silicestone	white and gray, limy, very cherty
630-75	Samples missing	
675-80	Dolomite	tan, fine-grained, silty, very cherty, <i>slight show of oil</i>
680-90	Samples missing	
690-95	Silicestone	tan, dolomitic, very cherty, <i>very slight show of oil</i>
695-700	Samples missing	
700-05	Silicestone	tan, dolomitic, very cherty, <i>very slight show of oil</i>
705-10	Samples missing	
710-20	Silicestone	white, dolomitic, very cherty

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN		
MISSISSIPPIAN .....	410	720
	(first sample)	(last sample)
Pennington Formation		
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone .....	410	470
	(first sample)	
Warsaw Formation .....	470	
Fort Payne Formation .....		720
		(last sample)

#### MAP NUMBER—3

#### Williams et al., Copeland & Hurt No. 2

CARTER COORD.: SE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 23, B-58E      ELEVATION: 945 (T)  
DATE: 1961      TOTAL DEPTH: 700±  
PRODUCTION: Dry  
CASING RECORD: Casing set @ 300  
REMARKS: Highland Oil Co. drilled to 396 in 1950. Hole deepened to  
700 by Williams et al. in 1961.

**MAP NUMBER—4**  
**S. D. Jarvis, William Copeland No. 2**

CARTER COORD.: SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 23, B-58E      ELEVATION: 960 (T)  
 DATE: 1958      TOTAL DEPTH: 766  
 SAMPLE SET: No. 1110  
 PRODUCTION: Dry  
 CASING RECORD: 7" @ 332 (1), 380 (2), 466 (3)  
 REMARKS: Oil shows reported @ 380 (small) and 473 (slight). Gas shows reported @ 285, 352 (small), and 473. Water reported @ 275 (S), 352 (CI).

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil and sand .....	0	26
Sand and shells .....	26	55
Gray lime .....	55	262
Brown sand .....	262	277
Gray sand .....	277	281
White sand .....	281	285
Gray lime .....	285	296
Gray sand .....	296	337
White sand .....	337	460
Gray lime .....	460	467
Brown lime .....	467	482
Blue lime .....	482	503
Gray lime .....	503	531
Brown lime .....	531	685
White lime .....	685	697
Brown lime .....	697	730
Blue lime .....	730	742
White lime and green lime .....	742	751
White lime .....	751	760
Green shale .....	760	762
Chattanooga shale .....	762	766

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN		
MISSISSIPPIAN .....	55	766
		(last record)
Pennington Formation .....	55	
	(first record)	
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		762

	<i>From</i>	<i>To</i>
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	762	766 (last record)

SAMPLE DESCRIPTION

332-37	Limestone	tan, fine-grained
337-51	Limestone	tan, medium-grained, oolitic
351-54	Limestone	tan, fine-grained, very dolomitic
354-74	Limestone	tan, fine-grained
374-86	Limestone	cream and tan, fine- to medium-grained, oolitic
386-92	Limestone	cream and tan, fine- to medium-grained, slightly oolitic
392-98	Limestone	cream and tan, fine- to medium-grained
398-405	Limestone	cream and tan, fine- to medium-grained, oolitic
405-17	Limestone	cream and tan, fine- to medium-grained, slightly oolitic— minor amount of shale, green
417-22	Limestone	cream and tan, fine- to medium-grained—minor amount of shale, green
422-29	Dolomite	light-gray, fine-grained, slightly cherty—minor amount of shale, green
429-37	Dolomite	light-gray, fine-grained
437-42	Dolomite	light-gray, fine-grained—minor amount of limestone, brown, medium-grained
442-48	Dolomite	gray-tan, fine-grained, slightly cherty—minor amount of shale, green, dolomitic
448-55	Dolomite	gray-tan, fine-grained, <i>trace of sulfate</i>
455-66	Dolomite	gray-tan, fine-grained, slightly cherty, <i>trace of sulfate</i>
466-68	Dolomite	gray-tan, fine-grained, slightly cherty, <i>much sulfate</i>
468-72	Limestone	brown, medium-grained, cherty, pink chert
472-77	Limestone	brown, fine-grained, cherty
477-82	Sandstone	brown, fine-grained, subangular, limy
482-88	Sandstone	brown, fine-grained, subangular, limy, dolomitic
488-503	Sandstone	brown, fine-grained, subangular, dolomitic
503-10	Dolomite	gray-brown, fine-grained, sandy
510-17	Dolomite	gray-brown and yellow, fine-grained, cherty (pink), <i>trace of sulfate</i>
517-23	Limestone	gray and brown mottled, coarse-grained, fragmental, much siderite, <i>sulfate</i>
523-36	Limestone	gray and brown mottled, coarse-grained, fragmental
536-40	Samples missing	
540-47	Limestone	gray and brown mottled, coarse-grained, fragmental
547-55	Siltstone	dark-gray, dolomitic—minor amount of sandstone, dark- gray, fine-grained, subangular, dolomitic
555-62	Sandstone	dark-gray, fine-grained, subangular, dolomitic, limy
562-69	Siltstone	dark-gray and brown, limy, dolomitic
569-75	Sandstone	dark-gray, fine-grained, subangular, dolomitic
575-83	Limestone	cream and dark-gray, medium- to coarse-grained, frag- mental

583-90	Limestone	cream and dark-brown, medium- to coarse-grained, cherty, fragmental
590-603	Limestone	cream and dark-brown, medium- to coarse-grained, fragmental
603-07	Silicestone	white and gray mottled, limy, cherty
607-10	Silicestone	gray, limy, cherty
610-14	Limestone	cream, medium-grained, cherty
614-21	Limestone	gray and white, medium-grained, siliceous, cherty
621-29	Silicestone	cream, dolomitic, cherty
629-36	Silicestone	gray and white, limy, cherty
636-755	Silicestone	gray and white, dolomitic, cherty

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN		
MISSISSIPPIAN .....	332	755
	(first sample)	(last sample)
Pennington Formation		
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone .....	332	422
	(first sample)	
St. Louis Limestone .....	422	477
Warsaw Formation .....	477	
Fort Payne Formation .....		755
		(last sample)

#### MAP NUMBER—5 S. D. Jarvis, Colditz No. 1

CARTER COORD.: SE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 9, A-59E

ELEVATION: 1420 (T)

DATE: 1950

TOTAL DEPTH: 1755

PRODUCTION: Dry

REMARKS: Show of oil @ 840 (saturated core).

#### DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	28
Sand-mud streaks .....	28	51
Brown sand .....	51	150
Water @ 145-150		
Dark-gray slate .....	150	175
Brown sand .....	175	241
Gray sand .....	241	250
Salt sand .....	250	308

<i>Lithology</i>	<i>From</i>	<i>To</i>
Black slate .....	308	311
Gray slate .....	311	364
Gray sand .....	364	381
Sand and slate .....	381	386
Sandy blue mud .....	386	401
Sandy slate .....	401	406
Dark-gray sand and slate .....	406	411
Gray sand .....	411	448
Blue slate and mud .....	448	464
Gray sand .....	464	468
Gray sand and slate .....	468	500
S. L. M. <sup>1</sup> 500=501		
Dark-gray, sandy shale .....	501	524
Set 8" @ 501		
Gray sand and slate .....	524	548
Reduced hole to 6¼" @ 529		
Blue-gray limestone .....	548	557
Dark-gray limestone .....	557	570
Limestone and gray shale .....	570	575
Red rock .....	575	580
Green slate (sandy) .....	580	625
Sandy shale .....	625	654
Gray limestone .....	654	670
Gray slate and mud .....	670	682
Red rock and slate .....	682	720
Slate .....	720	745
Gray limestone .....	745	754
Slate .....	754	768
Limestone and slate .....	768	774
Gray slate and mud .....	774	792
Gray limestone .....	792	808
Green slate .....	808	810
Brown limestone .....	810	833
Gray limestone .....	833	878
Slate .....	878	890
Brown limestone .....	890	1021
Gas pocket @ 907—estimated 150,000 cu. ft.		
5½" casing @ 928		
Light-brown limestone .....	1021	1039
More gas @ 1021-1027		
Brown limestone .....	1039	1068
First oolitic section 1039-1045		
Gray limestone .....	1068	1078
Second oolitic section 1068-1078		
Brown limestone .....	1078	1116
Brown limestone, very hard .....	1116	1128
Brown limestone .....	1128	1139

<sup>1</sup>Steel line measurement.



<i>Lithology</i>	<i>From</i>	<i>To</i>
Gray limestone .....	1139	1142
Brown limestone .....	1142	1169
Ran S.L.M. 1169=1169		
Gray limestone .....	1169	1186
Brown limestone .....	1186	1204
Dark-gray, sandy slate .....	1204	1223
Blue-gray limestone, hard .....	1223	1234
Dark-gray, hard material .....	1234	1247
Hard, gray material .....	1247	1262
Dark-gray limestone .....	1262	1284
Blue limestone .....	1284	1290
Gray-brown limestone .....	1290	1299
Brown limestone .....	1299	1317
Gray lime, hard .....	1317	1326
Gray lime and chert .....	1326	1337
Gray lime, hard .....	1337	1350
Gray lime and chert .....	1350	1365
Brown lime and chert .....	1365	1376
Gray limestone and chert .....	1376	1389
White sand .....	1389	1393
White sand and limestone .....	1393	1395
(Ran S.L.M. 1393=1393)		
Gray, hard material .....	1395	1404
Dolomite and chert .....	1404	1413
Gray lime and chert .....	1413	1441
Chert .....	1441	1450
Chert and dolomite .....	1450	1459
Black shale .....	1459	1512
Green slate .....	1512	1532
Green shale and gray sand .....	1532	1543
Gray sand .....	1543	1555
Gray, sandy limestone .....	1555	1584
Gray sand .....	1584	1613
Grayish-green limestone and slate .....	1613	1646
Grayish, sandy slate .....	1646	1671
Grayish-brown limestone .....	1671	1697
Brown, sandy .....	1697	1755
Set brush plug at 563, filled back with rock and mud to 556, and plugged back to 545.		
Shot 40 quarts solidified nitroglycerine from 525-545.		
Ran brush plug at 518, filled back with coal and mud to 511 and ran 1 bag cement.		
Pulled 8-inch pipe and ran bridge at 8 feet. Filled up 4 feet and ran 2 bags cement.		
Pulled 23 feet of 10-inch casing.		

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	28	548
MISSISSIPPIAN .....	548	
Pennington Formation .....	548	792
Bangor Limestone .....	792	878

	<i>From</i>	<i>To</i>
Hartselle Formation .....	878	890
Monteagle Limestone .....	890	
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1459
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1459	1512
ORDOVICIAN .....	1512	1755
		(last record)
Sequatchie Formation .....	1512	
Leipers Formation		
Nashville Group .....		1755
		(last record)

**MAP NUMBER—6**

————— Slavens No. 1

CARTER COORD.: NW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 25, B-59E      ELEVATION: 850 (T)  
 DATE: 1917      TOTAL DEPTH: ?  
 PRODUCTION: Dry

**MAP NUMBER—7**

————— Slavens No. 2

CARTER COORD.: NW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 25, B-59E      ELEVATION: 855 (T)  
 DATE: 1917      TOTAL DEPTH: 1,000±  
 PRODUCTION: Dry

**MAP NUMBER—8**

Texas Mineral Land Co., Swain No. 1

CARTER COORD.: SE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 24, B-61E      ELEVATION: 1385 (T)  
 DATE: 1961      TOTAL DEPTH: 1687  
 PRODUCTION: Dry

**MAP NUMBER—9**

Diversa Producing Co., Bill Swain No. 1

CARTER COORD.: NW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 24, B-61E      ELEVATION: 1395 (T)  
 DATE: 1955      TOTAL DEPTH: 1486  
 SAMPLE SET: No. 1234  
 PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand and clay .....	0	44
Coal .....	44	49
Sand .....	49	122
Fresh water @ 50		
Shale .....	122	222
Sand .....	222	255
Hole almost full fresh water		
Shale, dark-gray .....	255	300
Sand .....	300	400
Hole full fresh water		
Shale, gray .....	400	460
Sand .....	460	575
Fresh water		
Sand and shale .....	575	605
Sand .....	605	620
Shale with sand streaks .....	620	838
Lime .....	838	890
Red beds and lime .....	890	1000
Lime shells .....	1000	1154
Lime .....	1154	1268
Small show oil @ 1268, few pints		
Lime .....	1268	1380
Small show gas @ 1380		
Lime .....	1380	1467
Small show oil @ 1467, few pints		
Lime .....	1467	1486

An open-hole packer was run on 2" tubing and set @ 1290, and the open hole 1290 to 1486 was acidized with 2,000 gallons of 15% HCL acid. This test was not successful in that no increase in the amount of oil over that which was observed before acidizing was obtained. The 7" casing was pulled and a 10-sack cement plug was placed @ 900 and a 2-sack cement plug placed at the surface and the hole abandoned.

CASING: 10 3/4" casing set and cemented @ 21 with 5 sacks cement. 8 5/8" casing set @ 268. Pulled top joint (21') leaving 11 joints, 247' in hole. 7" casing set @ 1123; pulled.

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	0	890 (?)
MISSISSIPPIAN .....	890 (?)	1486
		(last record)
Pennington Formation		
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation .....		
		1486
		(last record)

### SAMPLE DESCRIPTION

89-103	Sandstone	light-gray, fine- to medium-grained, subangular
103-06	Sandstone	light-gray, medium-grained, subangular, pyritic
106-18	Sandstone	light-gray, medium-grained, subangular, conglomeratic
118-30	Shale	dark-gray
130-56	Shale	gray
156-62	Sandstone	gray, fine-grained, subangular, silty
162-76	Shale	dark-gray
176-90	Shale	dark-gray, sandy, silty
190-200	Shale	dark-gray
200-12	Shale	dark-gray, silty
212-20	Sandstone	light-gray, fine-grained, subangular, silty, sideritic
220-38	Sandstone	light-gray, fine-grained, subangular
238-43	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, dark-gray laminac
243-50	Sandstone	light-gray, fine-grained, subangular—minor amount of sandstone, dark-gray, fine-grained, subangular, shaly
250-56	Sandstone	gray, fine- to medium-grained, subangular, shaly
256-65	Sandstone	gray, fine-grained, subangular, shaly
265-73	Shale	gray, silty
273-78	Shale	gray
278-85	Shale	gray, silty
285-90	Shale	gray
290-95	Shale	gray, silty
295-300	Sandstone	gray, fine-grained, subangular—minor amount of shale, gray
300-05	Sandstone	gray, fine- to medium-grained, subangular—minor amount of shale, gray
305-15	Shale	gray
315-20	Sandstone	light-gray, medium-grained, subangular—minor amount of shale, gray
320-25	Sandstone	light-gray, medium-grained, subangular—minor amount of shale, gray, silty
325-35	Samples missing	
335-40	Sandstone	light-gray, medium-grained, subangular
340-50	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
350-62	Sandstone	light-gray, medium-grained, subangular
362-80	Sandstone	light-gray, medium-grained, subangular, conglomeratic—minor amount of siltstone, brown
380-88	Sandstone	light-gray, fine- to medium-grained, subangular
388-90	Siltstone	gray, shaly, sandy
390-418	Shale	gray, silty
418-56	Shale	gray
456-65	Sandstone	light-gray, fine- to medium-grained, subangular
465-75	Sandstone	gray, medium-grained, subangular
475-90	Sandstone	light-gray, medium-grained, subangular
490-505	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic

505-13	Sandstone	light-gray, medium-grained, subangular
513-30	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
530-35	Samples missing	
535-42	Sandstone	light-gray medium-grained, subangular, slightly conglomeratic
542-44	Samples missing	
544-48	Sandstone	light-gray, medium-grained, subangular, conglomeratic
548-62	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
562-75	Sandstone	light-gray, medium-grained, subangular, conglomeratic
575-82	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic—minor amount of shale, gray
582-87	Sandstone	gray, fine- to medium-grained, subangular—minor amount of shale, gray
587-94	Sandstone	gray, fine-grained, subangular—minor amount of shale, gray, silty
594-601	Sandstone	gray, fine-grained, subangular
601-06	Shale	gray—minor amount of sandstone, gray, fine- to medium-grained, subangular
606-18	Siltstone	gray, sandy
618-23	Sandstone	gray, fine-grained, shaly
623-26	Samples missing	
626-46	Sandstone	gray, fine-grained, shaly
646-50	Samples missing	
650-56	Sandstone	gray, fine-grained, shaly
656-80	Sandstone	gray, fine- to medium-grained, subangular, shaly
680-85	Samples missing	
685-90	Sandstone	gray, fine- to medium-grained, subangular, shaly
690-709	Sandstone	light-gray, fine-grained, subangular
709-15	Sandstone	light-gray, fine-grained, subangular—minor amount of siltstone, dark gray-brown
715-23	Sandstone	gray, fine-grained, subangular
723-29	Shale	gray and dark-gray, silty
729-36	Siltstone	gray and dark-gray, shaly
736-40	Sandstone	light-gray, fine-grained, subangular, sideritic
740-48	Sandstone	light-gray, fine-grained, subangular—minor amount of sandstone, dark-gray, fine-grained, subangular, shaly
748-63	Sandstone	gray, fine-grained, subangular, shaly
763-68	Sandstone	gray, fine-grained, subangular, silty
768-72	Sandstone	gray, fine-grained, subangular, shaly
772-79	Sandstone	gray, fine-grained, subangular, shaly—minor amount of siltstone, gray-brown
779-81	Siltstone	gray—minor amount of sandstone, gray, fine-grained, subangular
781-812	Shale	gray
812-27	Samples missing	
827-38	Shale	gray—minor amount of sandstone, gray, fine-grained, subangular

838-55	Sandstone	light-gray, fine-grained, subangular
855-62	Shale	dark-gray, silty
862-69	Shale	dark-gray, silty, <i>slightly coaly</i>
869-90	Shale	dark-gray, silty
890-93	Siltstone	gray, dolomitic
893-900	Limestone	gray-green, fine-grained, dolomitic—minor amount of siltstone, maroon, limy, dolomitic
900-06	Siltstone	gray-green, dolomitic—minor amount of siltstone, maroon, dolomitic
906-20	Siltstone	gray-green, dolomitic—minor amount of siltstone, maroon, dolomitic
920-25	Shale	gray and maroon, dolomitic
925-36	Shale	gray, dolomitic
936-40	Shale	gray, dolomitic—minor amount of siltstone, gray, dolomitic
940-45	Siltstone	gray-green and maroon, dolomitic
945-50	Shale	gray, dolomitic—minor amount of siltstone, gray, dolomitic
950-89	Siltstone	gray, dolomitic
989-94	Samples missing	
994-97	Siltstone	gray, dolomitic
997-1009	Siltstone	gray, dolomitic—minor amount of shale, maroon and gray
1009-14	Shale	maroon and gray
1014-19	Dolomite	tan, fine-grained, slightly cherty
1019-26	Dolomite	gray-tan, fine-grained—minor amount of siltstone, gray, dolomitic
1026-30	Samples missing	
1030-35	Siltstone	gray, dolomitic, shaly
1035-40	Samples missing	
1040-50	Limestone	gray-brown, fine-grained, very dolomitic, <i>show of oil</i>
1050-54	Limestone	gray, fine-grained—minor amount of siltstone, gray, dolomitic
1054-58	Limestone	gray, fine-grained, dolomitic, silty
1058-61	Shale	gray, limy, dolomitic
1061-65	Samples missing	
1065-72	Shale	gray, limy, dolomitic
1072-75	Limestone	light-gray, fine-grained, dolomitic
1075-90	Limestone	gray-tan, fine-grained
1090-94	Limestone	tan and brown, fine- to medium-grained, fossiliferous
1094-1110	Limestone	tan and brown, medium-grained, fossiliferous, fragmental
1110-18	Limestone	light-gray and brown mottled, medium-grained, fossiliferous, fragmental
1113-22	Limestone	light-gray and brown mottled, medium-grained, fragmental
1122-26	Limestone	cream and brown mottled, medium-grained, fossiliferous, fragmental, dolomitic
1126-39	Limestone	cream and brown mottled, medium-grained, fragmental, dolomitic
1139-48	Limestone	cream and brown mottled, medium-grained, fragmental, oolitic

1148-51	Limestone	dark-brown, medium-grained, fragmental, oolitic—minor amount of shale, gray, dolomitic
1151-56	Limestone	cream and brown, medium-grained, fragmental, fossiliferous—minor amount of shale, gray, dolomitic
1156-65	Limestone	cream and brown, medium-grained, fragmental—minor amount of shale, gray, dolomitic
1165-87	Limestone	cream and brown, medium-grained, fragmental
1187-90	Samples missing	
1190-1212	Limestone	cream and gray, medium-grained, fragmental, dolomitic
1212-16	Limestone	cream, fine- to medium-grained
1216-42	Limestone	cream, fine-grained
1242-58	Limestone	cream and gray, fine-grained
1258-68	Limestone	cream, medium-grained, oolitic
1268-80	Limestone	tan, medium-grained, oolitic
1280-1300	Limestone	tan, medium-grained, oolitic, free oolites
1300-27	Limestone	tan, fine-grained
1327-32	Limestone	tan, medium-grained, oolitic, free oolites
1332-37	Limestone	tan, fine- to medium-grained
1337-45	Limestone	gray-brown, fine- to medium-grained
1345-52	Samples missing	
1352-55	Limestone	tan, fine-grained
1355-65	Limestone	tan, fine-grained, cherty
1365-73	Limestone	tan, fine-grained
1373-77	Limestone	gray-brown, fine-grained, dolomitic
1377-83	Dolomite	gray and tan, fine-grained, <i>slight show of oil</i>
1383-89	Limestone	gray and tan, fine- to medium-grained, cherty—minor amount of dolomite, tan, fine-grained, <i>slight show of oil</i>
1389-94	Limestone	gray and tan, fine- to medium-grained—minor amount of dolomite, tan, fine-grained, <i>slight show of oil</i>
1394-1400	Dolomite	gray and tan, fine-grained, <i>slight show of oil</i> —minor amount of limestone, gray and tan, fine-grained
1400-05	Dolomite	gray-tan, fine-grained, <i>slight show of oil</i> —minor amount of limestone, gray and brown, fine-grained
1405-18	Dolomite	tan, fine-grained, <i>show of oil</i>
1418-24	Dolomite	gray-tan, fine-grained
1424-38	Dolomite	brown, fine-grained, <i>slight show of oil</i>
1438-46	Dolomite	gray, fine- to medium-grained, sandy
1446-67	Sandstone	gray, fine-grained, dolomitic
1467-81	Dolomite	brown and tan, fine-grained, sandy, <i>show of oil</i>
1481-86	Sandstone	gray-tan, fine-grained, cherty, dolomitic

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	89	893
	(first sample)	
MISSISSIPPIAN .....	893	1487
		(last sample)

	<i>From</i>	<i>To</i>
Pennington Formation .....	893	1072
Bangor Limestone .....	1072	1190
Hartselle Formation		
Monteagle Limestone .....	1190	1373
St. Louis Limestone .....	1373	1438
Warsaw Formation .....	1438	1487

(last sample)

**MAP NUMBER—10**

————— **Parker-Templeton No. 1**

CARTER COORD.: NW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 11, A-58E      ELEVATION: 845 (T)  
 DATE: 1898      TOTAL DEPTH: 600 $\pm$   
 PRODUCTION: Dry  
 REMARKS: Reported to have a large flow of salt water with some oil @  
 600.

**MAP NUMBER—11**

**Cudahy Bros., Owens No. 1**

CARTER COORD.: NW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 13, A-58E      ELEVATION: 905 (T)  
 DATE: 1896      TOTAL DEPTH: 1515  
 PRODUCTION: Dry  
 REMARKS: Oil shows reported from 600-750 (small).

**MAP NUMBER—12**

**Texas Mineral Land Co., Stearns Coal & Lumber Co. No. 1**

CARTER COORD.: SW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 20, A-58E      ELEVATION: 1420 (T)  
 DATE: 1961      TOTAL DEPTH: 1506  
 PRODUCTION: Dry  
 REMARKS: Gas show reported @ 1200 $\pm$ .

**MAP NUMBER—13**

**S. D. Jarvis, Colditz No. 2**

CARTER COORD.: SW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 10, A-59E      ELEVATION: 1320 (T)  
 DATE: 1960      TOTAL DEPTH: 1065  
 SAMPLE SET: No. 1334  
 PRODUCTION: Dry



SAMPLE DESCRIPTION

202-07	Sandstone	light-gray, fine- to medium-grained, subangular
207-12	Sandstone	light-gray, medium-grained, subangular
212-42	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
242-47	Sandstone	light-gray, medium-grained, subangular, conglomeratic
247-52	Sandstone	gray, fine-grained, subangular, laminated with dark-gray shale lenses
252-57	Sandstone	gray, fine-grained, subangular
257-82	Shale	dark-gray, silty—minor amount of sandstone, gray, fine-grained, subangular
282-87	Sandstone	gray, fine-grained, subangular, sideritic—minor amount of shale, gray, silty
287-92	Shale	gray
292-97	Shale	dark-gray, sandy
297-307	Shale	gray
307-22	Sandstone	light-gray, fine-grained, subangular
322-27	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, dark-gray laminae
327-32	Sandstone	light-gray, fine-grained, subangular
332-37	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, dark-gray laminae
337-57	Shale	dark-gray
357-62	Sandstone	dark-gray, fine-grained, subangular, shaly
362-67	Shale	dark-gray, silty
367-72	Shale	dark-gray, silty—minor amount of sandstone, light-gray, fine-grained, chalky
372-82	Shale	dark-gray, sandy
382-87	Sandstone	gray, fine-grained, subangular, shaly
387-92	Shale	dark-gray
392-407	Sandstone	gray, fine-grained, subangular, shaly
407-12	Sandstone	dark-gray, fine-grained, subangular, shaly
412-27	Sandstone	light-gray, fine-grained, subangular
427-52	Shale	dark-gray
452-72	Sandstone	light-gray, medium-grained, subangular, very porous
472-82	Sandstone	light-gray, fine-grained, subangular
482-87	Sandstone	gray, fine-grained, subangular
487-92	Limestone	cream, fine- to medium-grained
492-97	Limestone	gray-cream, fine- to medium-grained
497-502	Limestone	gray-brown, fine- to medium-grained
502-12	Shale	gray and green, dolomitic
512-17	Shale	gray, green and maroon, dolomitic
517-23	Shale	maroon, dolomitic
523-28	Sandstone	maroon, fine-grained, subangular, dolomitic, shaly—minor amount of shale, maroon, dolomitic
528-33	Siltstone	gray, shaly
533-43	Siltstone	gray-green, slightly dolomitic
543-48	Sandstone	gray, fine-grained, silty, subangular, slightly dolomitic

548-53	Sandstone	gray-green, fine-grained, subangular, slightly dolomitic, silty
553-58	Sandstone	gray-green, fine-grained, subangular, slightly dolomitic, silty—minor amount of shale, maroon and gray, dolomitic
558-63	Shale	maroon, dolomitic
563-68	Siltstone	gray-green, slightly dolomitic
568-73	Shale	maroon, dolomitic
573-88	Siltstone	gray-green, dolomitic
588-93	Shale	gray-green and maroon, dolomitic
593-98	Siltstone	gray-green, dolomitic
598-608	Siltstone	dark-gray and gray, very dolomitic
608-18	Dolomite	dark-gray, silty
618-23	Sandstone	gray, fine-grained, subangular, sideritic
623-28	Shale	gray-green and maroon, dolomitic—minor amount of limestone, gray-cream, fine- to medium-grained
628-33	Shale	gray-green and maroon, dolomitic
633-38	Siltstone	green and maroon, dolomitic
638-43	Siltstone	gray-green and maroon, dolomitic
643-48	Siltstone	gray-green and maroon, dolomitic—minor amount of shale, dark-gray, bentonitic (Pencil Cave)
648-53	Shale	green and maroon, dolomitic
653-63	Siltstone	gray-green and maroon, dolomitic
663-68	Siltstone	gray-green and maroon, dolomitic—minor amount of shale, gray, dolomitic
668-73	Shale	gray-green and maroon, dolomitic
673-83	Dolomite	gray, fine-grained, silty
683-88	Dolomite	light-gray, fine-grained
688-93	Siltstone	gray, dolomitic
693-98	Dolomite	dark-gray, fine-grained, silty
698-703	Siltstone	dark-gray, slightly dolomitic
703-13	Shale	gray-brown, bentonitic
713-18	Limestone	gray and brown mottled, medium- to coarse-grained, fossiliferous, fragmental
718-23	Limestone	gray and brown mottled, medium- to coarse-grained, fragmental
723-33	Dolomite	gray-brown, fine-grained
733-38	Siltstone	light-tan, dolomitic, limy
738-44	Limestone	light-gray and brown mottled, medium-grained, pseudo-oolitic
744-49	Limestone	gray and tan mottled, medium-grained, oolitic, fragmental
749-819	Limestone	gray and tan mottled, medium-grained, fragmental
819-24	Shale	gray-green and brown
824-39	Limestone	gray and tan, medium-grained, fragmental
839-44	Limestone	gray and tan mottled, medium-grained
844-49	Limestone	gray-tan, medium-grained, oolitic, tight
849-54	Limestone	gray-tan, medium-grained
854-59	Limestone	gray-tan, medium-grained, fragmental
859-69	Limestone	cream and tan, fine- to medium-grained
869-74	Limestone	tan, medium-grained, fragmental, oolitic, tight

874-94	Limestone	tan, fine- to medium-grained
894-99	Limestone	gray-cream, fine-grained
899-914	Dolomite	cream, fine-grained, limy
914-19	Limestone	cream, medium-grained, fragmental, oolitic, tight
919-24	Limestone	gray-cream, medium-grained, fragmental
924-29	Limestone	gray-cream, fine-grained, slightly dolomitic
929-34	Limestone	dark-brown, fine-grained—minor amount of limestone, gray-tan, medium-grained, fragmental
934-39	Limestone	gray-tan, fine-grained
939-44	Limestone	cream, medium-grained, oolitic, tight
944-49	Limestone	gray-tan, fine-grained
949-64	Limestone	gray-cream, medium-grained
964-74	Limestone	cream and tan, medium-grained
974-79	Limestone	cream and tan, medium-grained, slightly oolitic, tight
979-84	Limestone	cream, medium-grained, oolitic, tight
984-95	Limestone	cream, medium-grained, tight
995-1000	Limestone	light-gray, medium-grained, slightly oolitic, tight
1000-05	Limestone	light-gray, medium-grained, tight
1005-15	Limestone	gray-tan, medium-grained
1015-25	Limestone	gray-tan, medium-grained—minor amount of dolomite, cream, fine-grained, limy
1025-30	Limestone	cream and tan, fine- to medium-grained, dolomitic
1030-35	Limestone	cream and tan, fine- to medium-grained, dolomitic, cherty
1035-40	Limestone	gray and tan, fine- to medium-grained, cherty, dolomitic
1040-55	Limestone	gray and tan, fine- to medium-grained, dolomitic
1055-60	Dolomite	light-gray, fine-grained, cherty
1060-65	Dolomite	gray and tan, fine-grained

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	202	487
	(first sample)	
MISSISSIPPIAN .....	487	1065
		(last sample)
Pennington Formation .....	487	713
Bangor Limestone .....	713	819
Hartselle Formation .....	819	824
Monteagle Limestone .....	824	1055
St. Louis Limestone .....	1055	1065
		(last sample)

#### MAP NUMBER—14

#### Diversa Producing Co., Scott Land Company No. 1

CARTER COORD.: NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 8, A-59E.      ELEVATION: 1450 (T)  
DATE: 1962      TOTAL DEPTH: 1300  
SAMPLE SET: No. 1204  
PRODUCTION: Dry  
REMARKS: Texas Mineral Land Co. deepened hole from 1053 to 1300 in  
1962.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Surface sand and clay .....	0	42
Sand .....	42	131
Blue shale .....	131	163
Sandy shale .....	163	181
Sand .....	181	200
Fresh water @ 181. 100' water in hole.		
Hard sand .....	200	278
Brown sand .....	278	293
Gray shale. Coal from 302-305 .....	293	361
Sand .....	361	377
Hole almost full of water		
Hard sand .....	377	381
Gray shale .....	381	389
Hard lime .....	389	402
Broken sand .....	402	410
Sandy shale .....	410	427
Sand .....	427	435
White sand .....	435	446
Sandy shale .....	446	450
Gray clay, small amount of coal .....	450	456
Shale .....	456	475
Sand .....	475	487
Gray shale .....	487	520
Sand .....	520	524
Gray sandy shale .....	524	529
Sand .....	529	539
Green shale .....	539	546
Sand .....	546	548
Hole almost full of water		
Lime .....	548	562
Set 8 $\frac{5}{8}$ " casing @ 554		
Green and red shale .....	562	569
Red bed .....	569	573
Sand .....	573	606
Picked up water between 573 and 578. Pulled 8 $\frac{5}{8}$ " casing. Reamed hole and re-ran and set 8 $\frac{5}{8}$ " casing @ 606.		
White sand .....	606	613
Sand .....	613	635
Hole bailed dry. Water shut off.		
Lime .....	635	642
Brown shale .....	642	652
Gray lime .....	652	658
Sandy shale .....	658	680
Gray lime .....	680	687
Red bed .....	687	691
Gray shale .....	691	737

<i>Lithology</i>	<i>From</i>	<i>To</i>
Brown lime .....	737	749
Gray shale .....	749	760
Gray lime .....	760	805
Brown lime .....	805	812
Broken lime .....	812	827
Gray lime .....	827	832
Brown lime .....	832	878
Gray lime .....	878	895
Brown lime .....	895	933
Sandy lime .....	933	949
Sand .....	949	958
Sandy lime .....	958	1014
Brown lime .....	1014	1025
Gray lime .....	1025	1033
Sandy lime .....	1033	1053

At 1053 the drilling jars broke leaving an 8" bit, drill stem and the lower prongs of the jars in the hole. After unsuccessful fishing for 11 days the hole was abandoned leaving the above tools plus a long bowl socket, another drill stem, and a set of long-stroke jars in the hole. A 10-sack cement plug was placed @ 606, the 8 5/8" casing pulled, and a 2-sack cement plug placed at the surface.

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	42	548
MISSISSIPPIAN .....	548	1053
		(last record)
Pennington Formation .....	548	
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone .....		1053
		(last record)

#### SAMPLE DESCRIPTION

42-45	Sandstone	cream, fine-grained, subangular, friable
45-65	Sandstone	light-gray, fine- to medium-grained, subangular
65-73	Sandstone	light-gray, medium-grained, subangular, conglomeratic
73-105	Samples missing	
105-09	Sandstone	light-gray, fine- to medium-grained, subangular
109-39	Samples missing	
139-45	Sandstone	light-gray, medium- to coarse-grained, subangular, conglomeratic
145-93	Samples missing	
193-200	Sandstone	light-gray, fine- to medium-grained, subangular, slightly conglomeratic
200-41	Samples missing	
241-50	Sandstone	light-gray, medium-grained, subangular, conglomeratic
250-55	Samples missing	

255-60	Sandstone	light-gray, medium-grained, subangular, conglomeratic
260-88	Samples missing	
288-93	Sandstone	light-gray, medium-grained, subangular, conglomeratic
293-300	Sandstone	light-gray, medium-grained, subangular, conglomeratic <i>trace of coal</i>
300-804	Samples missing	
804-09	Limestone	gray and tan mottled, medium-grained
809-12	Limestone	gray and tan mottled, medium-grained, fragmental
812-20	Shale	gray, limy and dolomitic
820-27	Limestone	gray and tan mottled, medium-grained, fragmental
827-32	Samples missing	
832-43	Limestone	gray and tan mottled, medium-grained, fragmental
843-52	Samples missing	
852-59	Limestone	gray and tan mottled, medium-grained, fragmental—minor amount of shale, gray
859-67	Limestone	tan and dark-gray mottled, medium-grained, fragmental
867-87	Limestone	dark-gray, medium-grained, shaly
887-94	Siltstone	gray
894-904	Limestone	cream and tan, medium-grained, fragmental
904-09	Samples missing	
909-14	Limestone	cream and tan, medium-grained, fragmental
914-18	Limestone	cream and gray, medium-grained, oolitic, free oolites
918-23	Limestone	cream and gray-brown, medium-grained
923-28	Limestone	light-gray, medium-grained, oolitic, fragmental, free oolites
928-33	Limestone	cream and tan, medium-grained, fragmental
933-39	Limestone	tan, fine- to medium-grained, fragmental
939-47	Limestone	cream, fine- to medium-grained
947-58	Limestone	cream, fine- to medium-grained—equal amount of shale, gray, limy
958-61	Limestone	cream, medium-grained, oolitic, tight
961-69	Limestone	cream, medium-grained, oolitic, free oolites
969-77	Limestone	tan, fine-grained
977-84	Limestone	cream, medium-grained, oolitic, free oolites
984-90	Limestone	cream, medium-grained
990-92	Limestone	light-gray, fine- to medium-grained, dolomitic
992-1007	Limestone	light-gray, fine-grained, dolomitic
1007-14	Samples missing	
1014-20	Limestone	tan, fine-grained, dolomitic
1020-25	Samples missing	
1025-30	Limestone	gray-tan, medium-grained, fragmental, pseudo-oolitic
1030-33	Limestone	cream and tan, medium-grained, fragmental, oolitic, free oolites
1033-38	Samples missing	
1038-42	Limestone	cream and tan, medium-grained, fragmental, oolitic, free oolites
1042-46	Samples missing	
1046-53	Limestone	cream and tan, medium-grained, fragmental, oolitic, free oolites

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	42	
	(first sample)	
MISSISSIPPIAN .....		1053
		(last sample)
Pennington Formation		
Bangor Limestone .....	804	887
Hartselle Formation .....	887	894
Monteagle Limestone .....	894	1053
		(last sample)

**MAP NUMBER—14A**  
**Texas Mineral Land Co., Scott Land Company No. 1**

CARTER COORD.: NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 8, A-59E      ELEVATION: 1450 (T)  
 DATE: 1961      TOTAL DEPTH: 1260  
 PRODUCTION: Dry  
 CASING RECORD: 10" @ 606, 7" @ 1205

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil and sand .....	0	3
Sandstone .....	3	33
Sand .....	33	41
Sandstone .....	41	140
Blue shale.....	140	177
Fresh water @ 160		
Sand .....	177	300
Blue shale .....	300	350
White sand .....	350	380
Mix sand and shale streaks .....	380	415
Sand, small amount of gray shale .....	415	465
Sand, white .....	465	495
Gray shale .....	495	515
Gray shale and white sand .....	515	540
Red gumbo mud .....	540	548
Sand mixed, 1' coal .....	548	550
Brown lime .....	550	554
Red, green and blue shale mix .....	554	575
Red and blue shale .....	575	579
Blue, sandy .....	579	600
Broken sandy shale .....	600	625
8" @ 606		
Sand, blue .....	625	640
Blue and red shale, mixed .....	640	644

<i>Lithology</i>	<i>From</i>	<i>To</i>
Lime, gray and tan .....	644	655
Blue shale .....	655	670
Dark lime .....	670	675
Mix shale, red rocks .....	675	685
Red shale .....	685	710
Gray shale .....	710	729
Green shale .....	729	735
Shale .....	735	738
White lime .....	738	750
Blue shale .....	750	765
Lime .....	765	775
Brown lime .....	775	791
White lime .....	791	831
Little shale break @ 821		
Lime .....	831	861
Brown lime .....	861	890
Lime, white .....	890	905
Brown lime .....	905	1140
2' or 3' of red shale @ 925-951		
Oil odor @ 1130-1135		
Dark-gray lime .....	1140	1159
Brown lime .....	1159	1186
Yellowish-brown lime, hard .....	1186	1220
7" @ 1205		
Gray lime mix, hard .....	1220	1260

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	33	540
MISSISSIPPIAN .....	540	1260
		(last record)
Pennington Formation .....	540	738
Bangor Limestone .....	738	
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1260
		(last record)

**MAP NUMBER—15**  
**Texas Mineral Land Co., Scott Land Company No. 2**

CARTER COORD.: SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 14, A-59E      ELEVATION: 1445 (T)  
DATE: 1961      TOTAL DEPTH: 612  
PRODUCTION: Dry



**MAP NUMBER—16**  
**Willard & Washburn, Henry Thomas No. 1**

CARTER COORD.: NW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 20, A-59E      ELEVATION: 1295 (T)  
 DATE: ?      TOTAL DEPTH: ?  
 PRODUCTION: Dry

**MAP NUMBER—17**  
**Texas Mineral Land Co., Colditz No. 1**

CARTER COORD.: SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 21, A-59E      ELEVATION: 1598 (S)  
 DATE: 1962      TOTAL DEPTH: 875  
 PRODUCTION: Dry

**MAP NUMBER—18**  
**Bear Creek Oil & Gas Co., Douglas No. 1**

CARTER COORD.: NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 2, A-60E      ELEVATION: 1161 (S)  
 DATE: ?      TOTAL DEPTH: 1429  
 PRODUCTION: Dry

**DRILLER'S LOG**

<i>Lithology</i>	<i>From</i>	<i>To</i>
Surface, clay .....	0	5
Sandstone .....	5	80
Shale .....	80	105
Coal @ 105		
Sandstone .....	105	195
Slate .....	195	265
Sandstone .....	265	285
Slate .....	285	290
Sandstone .....	290	370
Slate .....	370	385
Sandstone .....	385	410
Slate .....	410	415
Sandstone .....	415	460
Slate and sand .....	460	480
Sandstone .....	480	580
8 $\frac{1}{4}$ " casing .....	420	
6 $\frac{1}{4}$ " casing .....	765	
Top of lime .....	700	
Black shale .....	770	788
Black shale .....	800	807
Gas @ 840		
Oil show @ 935		

<i>Lithology</i>	<i>From</i>	<i>To</i>
Bottom Big Lime .....	1100	
Bottom Beaver Sand .....	1370	
Shot—show of oil increased after shot to 1-1½ barrels. Very little gas. Nothing in Beaver.		

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	5	
MISSISSIPPIAN		
Pennington Formation		
Bangor Limestone .....	700	
Hartselle Formation .....		807
Monteagle Limestone .....	807	
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation		
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale		
ORDOVICIAN .....		1429
		(last record)

**MAP NUMBER—20**  
**Texas Mineral Land Co., Blevins No. 1**

CARTER COORD.: NE¼SE¼NE¼ sec. 13, A-60E      ELEVATION: 1495 (T)  
DATE: 1962      TOTAL DEPTH: 500  
PRODUCTION: Dry

**MAP NUMBER—21**  
**McCormick et al., L. S. Thomas No. 1**

CARTER COORD.: SW¼NE¼NE¼ sec. 14, A-60E      ELEVATION: 1285 (T)  
DATE: ?      TOTAL DEPTH: 155  
PRODUCTION: Dry

**MAP NUMBER—22**  
**McCormick et al., Harris Thomas No. 1**

CARTER COORD.: NE¼NW¼SE¼ sec. 14, A-60E      ELEVATION: 1295 (T)  
DATE: ?      TOTAL DEPTH: 972  
PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Conductor .....	11	
8¼" casing .....	411	
Salt water .....	550	
Red rock (top) .....	560	
Big Lime (top) .....	730	
Break in Big Lime .....	865	869
6¼" casing .....	905	

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN		
MISSISSIPPIAN .....	560	972
	(first record)	(last record)
Pennington Formation .....	560	
Bangor Limestone .....		865
Hartselle Formation .....	865	869
Monteagle Limestone .....	869	972
		(last record)

MAP NUMBER—23

————— G. B. West No. 1

CARTER COORD.: SE¼NW¼SE¼ sec. 14, A-60E      ELEVATION: 1290 (T)  
 DATE: ?      TOTAL DEPTH: 1079  
 PRODUCTION: Dry

MAP NUMBER—24

Whitcomb Oil & Gas Co., Hendren No. 1

CARTER COORD.: NE¼SE¼SW¼ sec. 14, A-60E      ELEVATION: 1295 (T)  
 DATE: 1915      TOTAL DEPTH: 973  
 SAMPLE SET: No. 128  
 PRODUCTION: Oil  
 REMARKS: Now abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	5
Sandstone, yellowish-red, hard .....	5	47
Water @ 40		
Sandstone, gray, white, hard .....	47	205
Traces of coal @ 137-145		

<i>Lithology</i>	<i>From</i>	<i>To</i>
Shale, black, hard .....	205	210
Sandstone, white, hard (contains considerable coal) .....	210	285
Shale, blue, soft .....	285	300
Sandstone, blue, white, hard .....	300	320
Shale, bluish-gray, hard .....	320	335
Sandstone, white, gray, hard .....	335	402
Set 8¼" casing @ 335		
Water @ 368		
Sandstone, dark, blue, soft .....	402	424
Shale and sandstone, gray, black, hard, containing coal ....	424	565
Shale, red, blue, green, soft .....	565	748
Limestone, gray, very hard .....	748	876
Set 6¼" casing @ 788		
Gas @ 845		
Shale and lime, blue-gray, hard .....	876	886
Limestone, gray, hard .....	886	940
Show of oil @ 930		
Lime, gray, blue, hard, shaly .....	940	973
Oil pay @ 945-968		

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	5	565 (?)
MISSISSIPPIAN .....	565 (?)	973
		(last record)
Pennington Formation .....	565 (?)	
Bangor Limestone .....		876
Hartselle Formation .....	876	886
Monteagle Limestone .....	886	973
		(last record)

#### SAMPLE DESCRIPTION

554-60	Sandstone	light-gray, fine-grained, subangular, <i>coaly</i>
560-65	Siltstone	green—minor amount of shale, maroon—minor amount of sandstone, green-gray, fine-grained, subangular, shaly
565-739	Samples missing	
739-46	Siltstone	gray, dolomitic—minor amount of shale, gray, dolomitic
746-51	Dolomite	cream, fine-grained—minor amount of shale, gray, dolomitic
751-57	Siltstone	gray, very dolomitic
757-934	Samples missing	
934-40	Limestone	cream and tan, fine- to medium-grained, fragmental
940-46	Shale	gray—minor amount of limestone, brown, fine- to medium-grained, fragmental
946-52	Limestone	tan, fine- to medium-grained, fragmental, <i>show of oil</i> —minor amount of shale, gray
952-64	Limestone	tan, fine- to medium-grained, fragmental, <i>show of oil</i>
964-73	Limestone	tan, fine-grained, dolomitic, <i>show of oil</i>

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	554	562
	(first sample)	
MISSISSIPPIAN .....	562	973
		(last sample)
Pennington Formation .....	562	
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone .....		973
		(last sample)

MAP NUMBER—25  
C. S. Beck, Rosa Terry No. 1

CARTER COORD.: SW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 14, A-60E      ELEVATION: 1330 (T)  
 DATE: 1944      TOTAL DEPTH: 890  
 SAMPLE SET: No. 338  
 PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand rock and clay, yellow, soft .....	0	30
Sandstone, brown, soft .....	30	75
Water sand @ 65-75		
Sandstone, brown, hard .....	75	215
Water sand		
Shale and coal, black and gray, medium .....	215	220
(Approximately 5' coal seam)		
Sandstone, brown, hard (end of Mountain Sand) .....	220	341
Shale and lime, gray, hard .....	341	351
Lime, gray, hard .....	351	357
7" @ 357		
Sandy shale, gray, soft .....	357	360
Broken lime, gray, hard .....	360	370
Shale and lime, gray, hard .....	370	400
Sand, brown, hard .....	400	405
Streaks of iron		
Lime, gray, hard; water and iron .....	405	410
Lime, gray, hard; iron ore .....	410	415
Sand, brown, hard; streaky iron ore .....	415	425
Lime, gray, hard; light iron ore .....	425	435
Sand, brown, hard; light iron ore .....	435	440
Lime and shale, gray, hard; light iron ore .....	440	450
Shale, blue, soft, muddy .....	450	490
Lime, shale, blue, soft .....	490	495

<i>Lithology</i>	<i>From</i>	<i>To</i>
Lime, gray, soft .....	495	505
Sand, brown, hard .....	505	510
Lime and shale, gray, hard .....	510	520
Sandy lime, gray, hard .....	520	530
Shale and lime, gray, soft .....	530	535
Shale, blue soft .....	535	550
Lime, shale, blue, soft .....	550	580
Shale, blue, soft, muddy .....	580	590
Sand, brown, hard; iron ore .....	590	595
Shale, blue, soft .....	595	605
Shale, red and blue, soft .....	605	610
Shale, green, soft .....	610	615
Shale, red soft (caving) .....	615	675
Shale, blue and red, soft .....	675	680
Shale and lime, gray, soft .....	680	685
Shale, blue, soft .....	685	690
Shale and lime, red and gray, soft .....	690	695
Shale, red, soft; some lime partings .....	695	750
Shale, red, soft .....	750	770
Shale, blue, soft .....	770	775
Shale and lime, gray, soft .....	775	810
Shale and lime, gray, hard .....	810	845
Lime, brown, soft .....	845	850
Gas and oil odor		
Lime, gray, hard oolitic .....	850	870
Shale and lime, gray, soft .....	870	875
Lime, gray, soft, oolitic .....	875	880
Lime, gray, hard .....	880	885
Lime, brown, medium-hard .....	885	890
Gas @ 886		

Well abandoned with three strings of tools in hole at total depth of 890.  
(Tenn. Div. Geology Oil and Gas Chart #2 reports total depth 1320'.)

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	0	595
MISSISSIPPIAN .....	595	890
		(last record)
Pennington Formation .....	595	
Bangor Limestone .....		890
		(last record)

#### SAMPLE DESCRIPTION

29-43	Sandstone	light-gray, fine- to medium-grained, subangular
43-48	Sandstone	light-gray, fine-grained, subangular
48-60	Sandstone	light-gray, fine- to medium-grained, subangular—minor amount of shale, gray, micaceous
60-72	Sandstone	light-gray, fine- to medium-grained, subangular

72-79	Sandstone	light-gray, fine-grained, subangular
79-111	Sandstone	light-gray, fine- to medium-grained, subangular
111-17	Sandstone	light-gray, medium-grained, subangular
117-25	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
125-32	Sandstone	light-gray, fine-grained, subangular, <i>coaly</i>
132-37	Sandstone	light-gray, fine-grained, subangular
137-43	Sandstone	light-gray, fine- to medium-grained, subangular
143-56	Sandstone	light-gray, medium-grained, subangular
156-69	Sandstone	light-gray, coarse-grained, subangular, conglomeratic
169-93	Sandstone	light-gray, fine-grained, subangular
193-227	Sandstone	light-gray, fine-grained, subangular, <i>coaly</i>
227-37	Sandstone	light-gray, fine-grained
237-42	Sandstone	light-gray, fine- to medium-grained, subangular
242-47	Sandstone	light-gray, fine-grained, subangular
247-52	Sandstone	light-gray, fine-grained, subangular, <i>coaly</i>
252-57	Sandstone	light-gray, fine-grained, subangular
257-62	Sandstone	light-gray, fine-grained, subangular—minor amount of flint fire clay, brown
262-67	Sandstone	light-gray, fine- to medium-grained, subangular
267-72	Sandstone	light-gray, medium- to coarse-grained, subangular, conglomeratic
272-77	Sandstone	light-gray, medium- to coarse-grained, subangular, slightly conglomeratic
277-82	Sandstone	light-gray, medium- to coarse-grained, subangular, conglomeratic
282-87	Sandstone	light-gray, medium- to coarse-grained, subangular
287-92	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
292-97	Sandstone	light-gray, medium-grained, subangular, conglomeratic
297-317	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
317-24	Sandstone	light-gray, medium- to coarse-grained, subangular, conglomeratic
324-28	Shale	dark-gray, silty, micaceous
328-35	Sandstone	dark-gray, fine-grained, subangular, shaly
335-42	Sandstone	gray, fine-grained
342-47	Sandstone	gray, fine-grained—minor amount of shale, dark-gray, micaceous
347-51	Shale	dark-gray, micaceous—minor amount of sandstone, gray, fine-grained
351-55	Samples missing	
355-70	Shale	dark-gray, silty, micaceous
370-80	Siltstone	dark-gray, shaly
380-85	Siltstone	dark-gray, shaly—minor amount of sandstone, gray, fine-grained, subangular
385-95	Sandstone	gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly
395-405	Sandstone	light-gray, fine-grained, subangular
405-10	Sandstone	light-gray, fine-grained, sideritic

410-30	Sandstone	light-gray, fine-grained, subangular
430-35	Sandstone	light-gray, fine-grained, subangular, limy
435-40	Sandstone	light-gray, fine-grained, subangular
440-45	Sandstone	light-gray, fine-grained, subangular, <i>coaly</i>
445-50	Sandstone	light-gray, fine-grained, subangular
450-55	Shale	dark-gray, silty, micaceous
455-70	Shale	dark-gray
470-75	Shale	dark-gray, micaceous
475-85	Siltstone	black, shaly, micaceous
485-90	Shale	black, micaceous, <i>coaly</i>
490-95	Sandstone	gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly, sideritic
495-500	Sandstone	light-gray, fine-grained, subangular, sideritic
500-10	Sandstone	light-gray, fine-grained, subangular
510-15	Siltstone	gray, sideritic—minor amount of shale, dark-gray
515-20	Sandstone	gray, fine-grained, subangular
520-25	Sandstone	gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly, micaceous
525-30	Sandstone	light-gray, fine-grained, subangular
530-35	Shale	dark-gray, silty
535-40	Siltstone	dark-gray, shaly
540-50	Siltstone	dark-gray, shaly, micaceous
550-55	Siltstone	dark-gray, shaly, micaceous—minor amount of sandstone, light-gray, fine-grained, subangular
555-60	Sandstone	light-gray, fine-grained, subangular
560-70	Sandstone	light-gray and brown, fine-grained, subangular—minor amount of shale, dark-gray, micaceous
570-75	Siltstone	dark-gray, shaly, sandy, micaceous
575-80	Siltstone	dark-gray, shaly, sandy, micaceous—minor amount of sandstone, light-gray, fine-grained, subangular
580-90	Siltstone	black, shaly, sandy
590-95	Sandstone	gray, fine-grained, subangular
595-600	Shale	green, maroon and gray
600-10	Shale	green and maroon, dolomitic
610-50	Siltstone	green and maroon, dolomitic
650-55	Siltstone	gray and maroon, dolomitic
655-60	Siltstone	gray
660-80	Siltstone	gray and maroon, dolomitic
680-85	Dolomite	gray, fine-grained
685-90	Dolomite	dark-gray, fine-grained, limy
690-95	Sandstone	dark-gray, dolomitic
695-700	Sandstone	dark-gray, dolomitic—minor amount of shale, dark-gray
700-05	Shale	dark-gray
705-10	Shale	dark-gray—minor amount of sandstone, dark-gray, fine- grained, subangular, limy
710-20	Shale	maroon, dolomitic
720-25	Shale	gray and maroon, dolomitic
725-30	Siltstone	gray and maroon
730-40	Siltstone	gray and maroon, dolomitic
740-45	Siltstone	dark-gray, dolomitic—minor amount of shale, maroon



745-50	Siltstone	dark-gray and maroon, dolomitic
750-55	Siltstone	dark-gray and maroon
755-65	Shale	dark-gray
765-70	Shale	dark-gray, dolomitic
770-75	Shale	gray (Pencil Cave?)
775-805	Dolomite	gray, fine-grained, silty
805-10	Dolomite	gray, fine-grained, silty—minor amount of limestone, dark-gray, medium-grained, dolomitic
810-15	Limestone	cream and dark-gray, medium-grained
815-20	Limestone	dark-gray, medium-grained
820-35	Samples missing	
835-40	Siltstone	dark-gray, dolomitic—minor amount of limestone, dark-gray, medium-grained
840-45	Limestone	brown, medium-grained, dolomitic, <i>show of oil</i>
845-50	Dolomite	brown, fine-grained, silty, limy, <i>show of oil</i>
850-55	Limestone	brown, medium-grained, fragmental, slightly oolitic
855-60	Limestone	brown, fine- to medium-grained
860-65	Limestone	brown, medium-grained, fragmental, slightly oolitic
865-70	Limestone	cream and brown, medium-grained, fragmental
870-75	Limestone	brown, medium-grained
875-90	Limestone	cream and brown, medium-grained, fragmental

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	29	595
MISSISSIPPIAN .....	595	890
		(last sample)
Pennington Formation .....	595	810
Bangor Limestone .....	810	890
		(last sample)

MAP NUMBER—26  
Benedum-Trees Oil Co., Yellow Cliff No. 2

CARTER COORD.: NW¼SE¼SW¼ sec. 14, A-60E      ELEVATION: 1330 (T)  
DATE: 1915      TOTAL DEPTH: 1048  
PRODUCTION: Dry  
REMARKS: Produced for a few days after shooting with 100 quarts of nitro. Soon abandoned as dry.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	8
Conductor .....	12	
Sand .....	12	330
Water @ 80		
8" casing @ 330		

<i>Lithology</i>	<i>From</i>	<i>To</i>
Break .....	330	470
Lime .....	470	490
Slate .....	490	555
Lime .....	555	595
Slate .....	595	605
Red rock .....	605	690
Slate .....	690	725
Red rock .....	725	810
Slate .....	810	855
Gray lime .....	855	919
Break .....	919	926
6 1/4" casing @ 926		
Gray lime .....	926	960
Brown lime .....	960	1009
Oil .....	1009	1029

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	12	605
MISSISSIPPIAN .....	605	1029
		(last record)
Pennington Formation .....	605	
Bangor Limestone .....		915
Hartselle Formation .....	915	926
Monteagle Limestone .....	926	1029
		(last record)

MAP NUMBER—27

Brown, Conn, et al., E. C. Terry No. 1

CARTER COORD.: NW 1/4 SE 1/4 SW 1/4 sec. 14, A-60E      ELEVATION: 1320 (T)  
DATE: 1942      TOTAL DEPTH: 970  
SAMPLE SET: No. 211  
PRODUCTION: Oil  
REMARKS: Oil pay reported @ 935-65. Oil show reported @ 850. Now abandoned.

SAMPLE DESCRIPTION

25-136	Sandstone	light-gray, fine-grained, subangular
136-38	Sandstone	light-gray, medium-grained, subangular, conglomeratic
138-43	Samples missing	
143-63	Sandstone	light-gray, medium-grained, subangular, conglomeratic
163-76	Sandstone	light-gray and gray, fine-grained, subangular, sideritic
176-84	Sandstone	light-gray, fine-grained, subangular, sideritic
184-90	Sandstone	light-gray, fine-grained, subangular

190-92	Sandstone	light-gray, fine-grained, subangular, sideritic—minor amount of siltstone, dark-gray, shaly, sandy
192-205	Sandstone	light-gray, fine-grained, subangular
205-20	Sandstone	light-gray, coarse-grained, subangular, conglomeratic
220-25	Sandstone	light-gray and gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly, sandy
225-33	Sandstone	light-gray, fine-grained, subangular—minor amount of siltstone, gray, shaly
233-37	Sandstone	light-gray, medium-grained, subangular, conglomeratic
237-40	Samples missing	
240-43	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
243-45	Sandstone	light-gray, medium-grained, subangular
245-47	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
247-51	Sandstone	light-gray, medium-grained, subangular
251-55	Samples missing	
255-71	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
271-79	Sandstone	light-gray, medium-grained, subangular, conglomeratic
279-86	Sandstone	light-gray, medium-grained, subangular

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	25	286 (last sample)

MAP NUMBER—28  
Syndicate Oil & Gas Co., Toomey No. 1

CARTER COORD.: SW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 14, A-60E      ELEVATION: 1347 (S)  
DATE: ?      TOTAL DEPTH: 965  
SAMPLE SET: No. 28  
PRODUCTION: Oil  
REMARKS: Now abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Slate and mud, blue, soft .....	12	17
Slate and sand, blue, hard .....	17	32
Slate and sand, blue and white, hard .....	32	46
Sandstone, white, hard .....	46	260
Water @ 120		
Particles of coal and slate 135-140		
2' coal @ 235		
Sandstone and conglomerate, light-gray, hard .....	260	270

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sandstone, white, hard; contains particles of slate and iron pyrites .....	270	316
Sandstone, hard, shaly, gray .....	316	354
Slate, blue, hard .....	354	395
Sand, gray, hard .....	395	425
Sandstone, white, hard .....	425	466
Slate, black, soft .....	466	481
Sandstone, gray, hard .....	481	526
White sand and blue slate, hard .....	526	532
Sandstone, gray, hard .....	532	556
Slate, dark-gray, sandy .....	556	562
Sandstone and sandy lime, white .....	562	609
Shale, white, red and green (Chester shale) .....	609	810
Top of hard, white lime .....	810	
Limestone, light, hard, gray .....	810	820
Shale, bluish-brown, hard; some lime .....	820	845
Limestone, dark-gray, hard .....	845	965
Gas and some oil @ 945-950		
Oil @ 960-965		
Top of Chester shale .....	609	
Base of shale .....		805
Top of Big Lime (solid) .....	810	
Gas and show of oil @ 945		

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	12	609 (?)
MISSISSIPPIAN .....	609 (?)	965
		(last record)
Pennington Formation .....	609 (?)	845
Bangor Limestone .....	845	
Hartselle Formation		
Monteagle Limestone .....		965
		(last record)

#### SAMPLE DESCRIPTION

609-14	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, gray and maroon
614-19	Limestone	cream, fine-grained
619-28	Limestone	cream and tan, fine- to medium-grained
628-34	Shale	maroon and green, dolomitic
634-800	Samples missing	
800-05	Shale	gray and maroon—minor amount of dolomite, tan, fine-grained
805-10	Shale	gray, dolomitic—minor amount of dolomite, tan, fine-grained
810-15	Dolomite	cream, fine-grained
815-20	Shale	gray, dolomitic

820-55	Samples missing	
855-60	Dolomite	gray, fine-grained—minor amount of shale, gray, dolomitic
860-65	Shale	gray, dolomitic—minor amount of dolomite, tan, fine-grained, <i>show of oil</i>
865-70	Dolomite	cream and tan, fine-grained—minor amount of shale, gray and maroon, dolomitic, <i>show of oil</i>
870-945	Samples missing	
945-50	Dolomite	dark gray-brown, fine-grained, <i>slight show of oil</i>
950-55	Limestone	tan, medium-grained
955-65	Limestone	cream and tan, medium-grained, fragmental

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	609	614
	(first sample)	
MISSISSIPPIAN .....	614	965
		(last sample)
Pennington Formation .....	614	
Bangor Limestone		
Hartselle Formation .....		950
Monteagle Limestone .....	950	965
		(last sample)

MAP NUMBER—29  
Tenn.-Tex. Oil Co., Yellow Cliff No. 1

CARTER COORD.: NW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 14, A-60E      ELEVATION: 1330 (T)  
DATE: 1943      TOTAL DEPTH: 1148  
SAMPLE SET: No. 323  
PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Mountain sand, brownish, soft .....	0	167
Shale, gray, soft .....	167	172
Lime and sand, gray, hard .....	172	174
Slate, blue, soft .....	174	205
Coal vein, black, soft .....	205	207
Slate, blue, soft .....	207	225
Sand, brownish, soft .....	225	310
Water		
Shale, blue, soft .....	310	315
Lime, gray, hard .....	315	330
Shale, blue, soft .....	330	335
Broken lime, gray, soft .....	335	380
Lime, gray, hard .....	380	388
Sand, gray, hard .....	388	406

<i>Lithology</i>	<i>From</i>	<i>To</i>
Shale, blue, soft .....	406	440
Sand, gray, hard .....	440	452
Shale, gray, soft .....	452	458
Lime, gray, hard .....	458	490
Sand, gray, hard .....	490	509
Shale, blue, hard .....	509	532
Shale, and lime, gray, hard .....	532	542
Sand, gray, soft .....	542	560
Little gas show		
Lime, gray, hard .....	560	565
Sand, gray, soft .....	565	583
Little water		
Lime and red rock, soft .....	583	626
Red rock and shells, soft .....	626	670
Shale, blue, soft .....	670	675
Broken lime, gray, hard .....	675	680
Lime, gray, hard .....	680	685
Lime, broken, gray, soft .....	685	694
Shale, blue, soft .....	694	707
Red rock and shells, soft .....	707	750
Shale, blue, soft .....	750	760
Lime, blue, hard .....	760	763
Shale, blue, soft .....	763	768
Lime, gray, hard .....	768	773
Lime, blue, hard .....	773	829
Lime, brown, very hard .....	829	857
Lime, gray, very hard .....	857	900
Lime, broken, gray, hard .....	900	905
Muddy shale, blue, soft .....	905	910
Lime, gray, hard .....	910	933
Shale, green, soft .....	933	934
Lime, gray, hard, fine .....	934	945
Lime, gray, hard, coarse .....	945	948
Shale, gray, soft .....	948	949
Lime, gray, hard, fine .....	949	952
Lime, gray, hard, coarse .....	952	955
Shale, gray, soft .....	955	956
Lime, broken, blue and gray, hard and soft .....	956	960
Lime, brownish, hard (thin shale breaks @ 960-981) .....	960	987
Lime, brownish, very hard .....	987	990
Lime, gray, soft .....	990	995
Free oil		
Lime, light, gray, hard .....	995	1015
Oil show .....	1015	1023
Lime, light-gray, flaky .....	1023	1027
Lime, brown, hard .....	1027	1034
Good show of gas; some oil		
Lime, dark-gray, hard .....	1034	1058
Lime, light-gray, flaky .....	1058	1075

<i>Lithology</i>	<i>From</i>	<i>To</i>
Lime, dark-gray, flaky .....	1075	1086
Lime, light-gray, hard .....	1086	1089
Lime, dark-gray, hard .....	1089	1102
Lime, light-gray, hard .....	1102	1122
Show of gas; some oil 1108-1117		
Lime, dark-gray, hard .....	1122	1127
Lime, light-gray, hard .....	1127	1148

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	0	583 (?)
MISSISSIPPIAN .....	583 (?)	1148
		(last record)
Pennington Formation .....	583 (?)	
Bangor Limestone .....		900
Hartselle Formation .....	900	910
Monteagle Limestone .....	910	1148
		(last record)

#### SAMPLE DESCRIPTION

305-12	Sandstone	light-gray, fine- to medium-grained, subangular
312-19	Sandstone	light-gray, fine-grained, subangular, micaceous, sideritic
319-25	Sandstone	light-gray, fine-grained, subangular, micaceous—minor amount of sandstone, dark-gray, fine-grained, subangular, micaceous, shaly
325-44	Shale	dark-gray, silty, micaceous
344-50	Shale	dark-gray, silty, micaceous—minor amount of sandstone, gray, fine-grained, subangular
350-60	Siltstone	dark-gray, shaly, micaceous—minor amount of sandstone, light-gray, fine-grained, subangular
360-74	Sandstone	light-gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly, micaceous
374-82	Sandstone	light-gray, fine-grained, subangular—minor amount of sandstone, dark-gray, fine-grained, subangular, shaly
382-88	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, dark-gray, silty, micaceous
388-94	Sandstone	light-gray, fine-grained, subangular—minor amount of flint fireclay, brown
394-400	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, dark-gray, micaceous, sandy
400-06	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, dark-gray, micaceous, <i>coaly</i>
406-31	Shale	dark-gray
431-40	Shale	dark-gray, micaceous
440-46	Sandstone	light-gray, fine-grained, subangular
446-54	Sandstone	gray, fine-grained, subangular, micaceous
454-62	Sandstone	gray, fine-grained, subangular, micaceous—minor amount of siltstone, dark-gray, shaly

462-68	Sandstone	gray, fine-grained, subangular, micaceous, sideritic—minor amount of siltstone, dark-gray, shaly
468-82	Sandstone	gray, fine-grained, subangular, micaceous
482-90	Sandstone	gray, fine-grained, subangular, micaceous—minor amount of siltstone, dark-gray, shaly
490-95	Sandstone	gray, fine-grained, subangular, micaceous—minor amount of siltstone, dark-gray, shaly, sandy
495-509	Sandstone	light-gray, fine-grained, subangular
509-16	Siltstone	dark-gray
516-23	Siltstone	dark-gray—minor amount of sandstone, gray, fine-grained, subangular, sideritic
523-27	Siltstone	dark-gray, micaceous
527-32	Shale	dark-gray, micaceous
532-38	Sandstone	gray, fine-grained, subangular—minor amount of shale, dark-gray, micaceous
538-43	Siltstone	gray, sandy, sideritic
543-50	Sandstone	light-gray, fine- to medium-grained, subangular and sub-round—minor amount of siltstone, gray, sandy
550-57	Sandstone	light-gray, fine- to medium-grained, subangular
557-63	Sandstone	gray and green, fine-grained, sideritic
563-70	Sandstone	gray and green, fine-grained
570-76	Sandstone	light-gray, fine-grained, subangular
576-83	Sandstone	gray and green, fine-grained, subangular—minor amount of shale, green
583-89	Siltstone	green and maroon, dolomitic—minor amount of shale, maroon
589-96	Shale	maroon and green—minor amount of siltstone, green, dolomitic
596-602	Siltstone	green and gray—minor amount of shale, maroon and green
602-08	Siltstone	green and gray—minor amount of shale, maroon and green—minor amount of siltstone, green, dolomitic
608-35	Samples missing	
635-42	Siltstone	green, dolomitic—minor amount of shale, maroon and green
642-49	Siltstone	maroon and green, dolomitic
649-56	Shale	maroon, gray and green—minor amount of siltstone, maroon and gray
656-62	Shale	maroon, gray and green, dolomitic
662-68	Shale	maroon—minor amount of siltstone, maroon and gray, dolomitic
668-75	Siltstone	gray, dolomitic
675-82	Dolomite	gray, fine-grained, sandy
682-87	Dolomite	gray, fine-grained, slightly sandy—minor amount of siltstone, dark-gray, dolomitic
687-94	Sandstone	gray, fine-grained, subangular, dolomitic, limy—minor amount of siltstone, gray, micaceous
694-700	Shale	gray, micaceous—minor amount of siltstone, gray, micaceous



700-07	Shale	green—minor amount of siltstone, gray, micaceous—minor amount of sandstone, gray, fine-grained, subangular, limy
707-14	Shale	maroon and green, micaceous
714-21	Shale	maroon and gray—minor amount of siltstone, gray and maroon
721-28	Siltstone	maroon and gray, dolomitic
728-35	Shale	maroon and gray—minor amount of siltstone, gray, micaceous
735-48	Shale	maroon and gray—minor amount of siltstone, gray and maroon, dolomitic
748-55	Shale	gray and maroon—minor amount of siltstone, gray, micaceous
755-60	Siltstone	gray, dolomitic
760-66	Siltstone	gray, dolomitic—minor amount of shale, gray
766-73	Dolomite	light-gray and gray, fine-grained
773-85	Dolomite	dark-gray, fine-grained, silty
785-95	Siltstone	dark-gray, dolomitic
795-800	Siltstone	dark-gray, very dolomitic
800-10	Siltstone	dark-gray
810-15	Limestone	dark-gray, fine-grained, silty
815-22	Limestone	gray, fine-grained, dolomitic
822-29	Limestone	gray, fine-grained, dolomitic—minor amount of dolomite, tan, fine-grained, <i>slight show of oil</i>
829-39	Dolomite	tan and gray, fine-grained, <i>show of oil</i>
839-41	Limestone	cream and gray-brown, fine-grained
841-47	Limestone	cream and gray-tan, medium-grained, fragmental, slightly oolitic
847-50	Limestone	gray-brown, fine- to medium-grained
850-75	Limestone	cream and gray-tan, medium-grained, fragmental
875-900	Limestone	cream and gray-brown, medium-grained, fragmental
900-07	Dolomite	gray, fine-grained—minor amount of siltstone, green and maroon, dolomitic
907-10	Siltstone	green and maroon, dolomitic
910-11	Limestone	cream and tan, medium-grained, fragmental
911-15	Limestone	cream and tan, medium-grained, fragmental, slightly oolitic
915-30	Limestone	cream and tan, medium-grained, fragmental
930-35	Limestone	cream, medium-grained, very oolitic, <i>high calcium</i>
935-43	Limestone	cream and tan, medium-grained, fragmental, slightly oolitic
943-51	Limestone	cream and tan, medium-grained, fragmental
951-56	Limestone	cream and tan, medium-grained
956-61	Limestone	cream and tan and gray, medium-grained, fragmental
961-65	Limestone	cream and tan, medium-grained
965-68	Limestone	cream and tan, medium-grained, oolitic
968-73	Limestone	tan, fine-grained
973-74	Limestone	cream and tan, fine-grained
974-75	Limestone	cream and tan, fine-grained—minor amount of shale, gray
975-77	Limestone	cream and tan, fine-grained

977-79	Limestone	cream and tan, fine- to medium-grained
979-81	Limestone	tan, fine-grained
981-1008	Limestone	cream and tan, fine-grained
1008-11	Limestone	cream and tan, medium-grained, oolitic
1011-14	Limestone	cream and tan, fine- to medium-grained, oolitic
1014-17	Limestone	cream and tan, fine- to medium-grained, fragmental
1017-22	Limestone	tan, fine-grained
1022-24	Limestone	tan, fine- to medium-grained
1024-27	Limestone	cream and tan, medium-grained
1027-32	Limestone	cream and tan, medium-grained, fragmental
1032-41	Limestone	cream and tan, fine- to medium-grained
1041-45	Limestone	tan, fine-grained
1045-51	Limestone	gray, fine-grained, dolomitic
1051-55	Limestone	gray-tan, fine-grained
1055-59	Limestone	tan, fine- to medium-grained
1059-62	Limestone	cream, medium-grained, oolitic
1062-64	Dolomite	cream, fine-grained, limy, <i>very slight show of oil</i>
1064-68	Dolomite	cream, fine-grained, slightly cherty
1068-72	Dolomite	cream, fine-grained
1072-76	Limestone	gray-tan, medium-grained, dolomitic, fragmental, oolitic
1076-82	Limestone	gray-tan, medium-grained, oolitic
1082-87	Limestone	gray-tan, medium-grained, oolitic, dolomitic
1087-91	Limestone	tan, medium-grained, oolitic
1091-94	Limestone	tan, medium-grained, fragmental, dolomitic, oolitic
1094-99	Limestone	tan, medium-grained, oolitic
1099-1104	Limestone	tan, medium-grained
1104-17	Dolomite	cream, fine-grained
1117-22	Limestone	gray-tan, medium-grained, fragmental, dolomitic
1122-27	Limestone	cream and tan, medium-grained, fragmental, oolitic
1127-32	Limestone	cream and tan, medium-grained, fragmental
1132-48	Limestone	cream and tan, medium-grained

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	305	581
	(first sample)	
MISSISSIPPIAN .....	581	1148
		(last sample)
Pennington Formation .....	581	810
Bangor Limestone .....	810	900
Hartselle Formation .....	900	910
Monteagle Limestone .....	910	1148
		(last sample)

**MAP NUMBER—30**  
**Whitcomb Oil & Gas Co., Toomey No. 1**

CARTER COORD.: NE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 14, A-60E      ELEVATION: 1320 (S)  
 DATE: 1915      TOTAL DEPTH: 1700  
 PRODUCTION: Oil  
 REMARKS: Now abandoned.

**DRILLER'S LOG**

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand, dark, soft .....	0	20
Sand, white, hard (this sand was very hard on the bits, and seemed to correspond to what we used to call the "settling sand" in Morgan Co., Ky.) .....	20	200
Slate and thin coal, dark; hard .....	200	230
Sand, white, hard ("settling sand") .....	230	310
Slate, soft .....	310	350
Sand, white, hard .....	350	420
Slate, soft .....	420	430
Slate, soft and hard, by streaks .....	430	550
Sand, white, hard ("settling sand") .....	550	610
Slate, red, soft and caving (Pennington shale in the Chester formation) .....	610	750
Limestone, gray, hard .....	750	945
This is the thickness of the Big Lime from this top to production.		
Limestone, gray, sandy, fairly soft .....	945	965
This is the thickness of the producing sand where the oil flowed from the mouth of the well and several times spurted over top of derrick. Drillers estimated it would make 300-500 bbls. per day.		
Limestone, gray and brown, mostly hard .....	965	1296
Second pay struck @ 970, which made over 5 bbls. per day during balance of drilling, as well as not cased off below bottom of first pay @ 965. Brownish limestone @ about 1175 probably top of Waverly formation.		
Slate, blue, soft .....	1296	1306
Limestone, dark-gray, hard and gritty .....	1306	1377
Probably Berea sand; when subjected to acid tests, about $\frac{1}{3}$ of it remained as sand and silicon. Steel tape measurement @ 1306		
Limestone, pinkish, crystalline, and calcite with streaks of white .....	1377	1396 $\frac{1}{2}$
Limestone, gray with dark streaks, very hard .....	1396 $\frac{1}{2}$	1398 $\frac{1}{2}$
Small, brownish-colored, oil-bearing particles would continually dart out from underlying sand in the bottom of a can to the surface of the overlying water, until they had formed a flake of oily scum; then the whole mass,		

<i>Lithology</i>	<i>From</i>	<i>To</i>
apparently attracted by some element in the composition of the can, would impinge and plaster itself on the side of the can. These particles appeared to be soft and fibrous and, when crushed, exuded oil.		
Limestone, very hard, varying in color .....	1398½	1418
Limestone, white, hard .....	1418	1430
Limestone, beginning to be brownish, hard .....	1430	1432½
Limestone, hard (Beaver?) .....	1435	1475
Shale, black, soft (Devonian or Chattanooga?) .....	1475	1540
Slate, bluish, soft (Niagara?) .....	1540	1555
Lime with thin layers of slate, blue, soft .....	1555	1600
Lime, blue, hard (Clinton or Hudson?) .....	1600	1635
Lime, grayish-blue, soft and hard at times (Hudson?) ....	1635	1700

The diameter of the well at the mouth was 13 inches. It was found impossible to use 10-inch casing, on account of this catching on a crevice. 8¼-inch casing was placed @ 412 and 6¼-inch casing @ 840.

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	0	610
MISSISSIPPIAN .....	610	
Pennington Formation .....	610	
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1475
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1475	1540
ORDOVICIAN .....	1540	1700
		(last record)

#### MAP NUMBER—31

Borton et al., J. R. West No. 1

CARTER COORD.: SE¼SW¼NW¼ sec. 14, A-60E      ELEVATION: 1330 (T)  
DATE: 1942      TOTAL DEPTH: 1149  
PRODUCTION: Dry

#### MAP NUMBER—32

Whitcomb Oil & Gas Co., J. R. West No. 1

CARTER COORD.: NW¼NW¼SW¼ sec. 14, A-60E      ELEVATION: 1345 (T)  
DATE: 1915      TOTAL DEPTH: 1110  
SAMPLE SET: No. 130  
PRODUCTION: Oil  
REMARKS: Now abandoned. Oil pay reported @ 848-53.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	45
Slate, blue, hard .....	45	80
Sandstone, white, hard .....	80	114
Sandstone, white, hard (traces of coal @ 114-119 and 163-169) .....	114	169
Sandstone, white, hard, cementing coarse brown gravels and quartz grains .....	169	174
Slate, blue, hard .....	174	185
Sandstone, white, hard .....	185	191
White sandstone and blue slate, hard .....	191	196
Sandstone, gray, hard .....	196	224
Sandstone, white, hard .....	232	256
Sandstone, gray and white, hard .....	256	281
Sandstone, white, hard (traces of coal) .....	281	325
Coal and sandstone, hard .....	325	330
Shale, blue, hard .....	330	335
Shale, bluish-gray, hard .....	335	362
8 1/4" casing @ 352		
Sandstone, gray and white, hard .....	368	390
Sandstone, white with some gray-white, hard .....	396	404
Sandstone, white with some gray-white .....	404	410
Gas		
Sandstone, white with some gray-white, hard .....	410	421
Sandstone, white with some black particles, hard .....	421	432
Sandstone, gray and white, hard .....	450	510
Sandstone, white, hard .....	510	521
Sandstone, white and gray, hard (black slate @ 526-532) ..	521	537
Sandstone, gray, hard .....	537	556
Slate, bluish-black, hard .....	556	561
Sand and shale, white and blue, hard .....	566	594
Sandstone, white .....	594	599
Sand and sandstone, gray, hard, white and blue .....	599	610
Sandstone, gray, hard .....	610	616
Sandstone, gray, and shale, red, hard .....	616	624
Shale, red and green, soft .....	624	685
Shale, gray, soft, rather sandy .....	688	716
Shale, gray and red, soft .....	716	758
Shale, blue and red, hard .....	758	794
Shale and limestone, light-gray, hard .....	794	800
Shale, blue and red, soft .....		806
Shale, blue and red, soft .....		812
Shale, blue and red, soft .....		818
Shale, blue and red, soft .....		824
Shale, blue and red, soft .....		830
Shale, blue and red, soft .....		836
Shale and lime, light-gray, soft (limestone @ 840 by tape-line measurement) .....		842
Shale, and lime, light-gray, soft (largely shale from casing)	848	878

<i>Lithology</i>	<i>From</i>	<i>To</i>
Lime and shale, dirty-gray, hard .....	883	889
Tapeline measurement		
Set 6¼" casing		
Limestone, dirty-gray, hard .....	889	955
Limestone, gray .....	955	960
Limestone, light-gray .....	960	1100

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	46	616 (?)
MISSISSIPPIAN .....	616 (?)	1100
		(last record)
Pennington Formation .....	616 (?)	
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone .....		1100
		(last record)

#### SAMPLE DESCRIPTION

55-60	Sandstone	gray, fine-grained, silty, shaly, subangular, slightly sideritic
60-75	Sandstone	gray, fine-grained, silty, shaly, subangular—minor amount of shale, gray, silty
75-80	Shale	gray, silty
80-90	Shale	gray, silty—minor amount of sandstone, light-gray, medium-grained, subangular to subround
90-102	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
102-13	Samples missing	
113-25	Sandstone	light-gray, medium-grained, subangular
125-30	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
130-69	Sandstone	light-gray, medium-grained, subangular
169-74	Shale	gray, silty, sandy
174-89	Shale	gray, silty, sandy—minor amount of sandstone, gray, fine-grained, shaly
189-96	Sandstone	light-gray, fine-grained, subangular—minor amount of sandstone, gray, fine-grained, shaly
196-215	Sandstone	light-gray, fine-grained, subangular, dolomitic
215-19	Samples missing	
219-24	Sandstone	light-gray, fine-grained, subangular, dolomitic
224-32	Samples missing	
232-56	Sandstone	light-gray, medium-grained, subangular
256-60	Siltstone	gray, shaly, sandy—minor amount of sandstone, light-gray, medium-grained, subangular
260-71	Sandstone	light-gray, medium-grained, subangular
271-81	Sandstone	light-gray, fine- to medium-grained, subangular, silty
281-320	Sandstone	light-gray, medium-grained, subangular
320-25	Sandstone	light-gray, medium-grained, subangular, conglomeratic

325-41	Siltstone	light-gray, dolomitic
341-46	Samples missing	
346-62	Shale	gray
362-68	Samples missing	
368-85	Sandstone	light-gray, medium-grained, subangular, shaly
385-421	Sandstone	light-gray, fine-grained, subangular
421-55	Sandstone	light-gray, fine- to medium-grained, subangular
455-60	Samples missing	
460-65	Sandstone	gray, fine- to medium-grained, subangular—minor amount of siltstone, light-gray, <i>very slight show of oil</i>
465-88	Samples missing	
488-537	Sandstone	light-gray, fine-grained, subangular
537-56	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, gray
556-61	Shale	gray
561-66	Samples missing	
566-72	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, gray
572-82	Samples missing	
582-88	Siltstone	gray—minor amount of sandstone, gray, fine-grained
588-99	Sandstone	light-gray, fine-grained, subangular
599-605	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, gray
605-10	Shale	gray—minor amount of sandstone, light-gray, fine-grained, subangular
610-20	Shale	gray and maroon
620-32	Shale	gray, green and maroon
632-38	Shale	green and maroon
638-88	Shale	gray, green and maroon
688-93	Samples missing	
693-721	Siltstone	gray, dolomitic
721-27	Samples missing	
727-34	Shale	gray—minor amount of siltstone, gray, dolomitic
734-76	Shale	gray and maroon
776-94	Shale	gray
794-800	Shale	gray—minor amount of dolomite, cream, fine-grained
800-06	Shale	gray
806-30	Shale	gray, bentonitic
830-48	Shale	gray, bentonitic—minor amount of siltstone, gray, dolomitic—minor amount of limestone, gray-tan, fine-grained, silty, dolomitic
848-53	Dolomite	tan, fine-grained, siliceous, <i>good show of oil</i> —minor amount of shale, gray
853-58	Limestone	gray-tan, medium-grained—minor amount of dolomite, tan, fine-grained, siliceous
858-78	Limestone	gray-tan, medium-grained
878-83	Samples missing	
883-95	Limestone	gray-brown, medium-grained, slightly oolitic, slightly fragmental
895-930	Samples missing	

930-35	Limestone	gray and brown, fine- to medium-grained
935-40	Limestone	gray-tan, fine- to medium-grained, slightly fragmental
940-65	Siltstone	gray-green, dolomitic
965-1000	Limestone	cream and tan, fine- to medium-grained
1000-20	Limestone	gray-cream, fine- to medium-grained, slightly fragmental
1020-45	Limestone	gray-tan, fine-grained
1045-50	Limestone	cream and tan, fine- to medium-grained, slightly oolitic, <i>fair show of oil</i>
1050-55	Limestone	gray, fine-grained
1055-60	Limestone	gray-tan, fine-grained
1060-70	Limestone	tan, fine- to medium-grained, slightly fragmental, slightly oolitic
1070-78	Limestone	cream and tan, medium-grained, oolitic
1078-84	Limestone	cream, medium-grained, slightly dolomitic, slightly cherty
1084-90	Limestone	cream, fine- to medium-grained, very dolomitic
1090-1110	Limestone	gray-tan, fine- to medium-grained, very dolomitic

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	55	610
	(first sample)	
MISSISSIPPIAN .....	610	1110
		(last sample)
Pennington Formation .....	610	856
Bangor Limestone .....	856	940
Hartselle Formation .....	940	965
Monteagle Limestone .....	965	1110
		(last sample)

#### MAP NUMBER—33 Benedum-Trees Oil Co., Yellow Cliff No. 1

CARTER COORD.: SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 14, A-60E      ELEVATION: 1295 (T)  
DATE: 1915      TOTAL DEPTH: 1100  
PRODUCTION: Dry

#### DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Clay .....	1	12
Conductor .....	12	
Sand .....	12	195
Water .....	37	
10" casing .....	78	
Break .....	195	225
Sand .....	225	310
Break .....	310	389



<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand .....	389	405
8" casing @ 404		
Break .....	405	430
Lime shells .....	430	450
Slate .....	450	486
Sand .....	486	500
Shale .....	500	555
Sand .....	555	578
Red rock .....	578	582
Slate .....	682	695
Red rock .....	695	750
Slate .....	750	790
Solid lime .....	790	885
Break .....	885	896
Lime .....	896	1100

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	12	578
MISSISSIPPIAN .....	578	1100
		(last record)
Pennington Formation .....	578	790
Bangor Limestone .....	790	885
Hartselle Formation .....	885	896
Monteagle Limestone .....	896	1100
		(last record)

MAP NUMBER—34  
C. S. Beck, Terry Heirs No. 1

CARTER COORD.: NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 14, A-60E

ELEVATION: 1318 (S)

DATE: 1944

TOTAL DEPTH: 1150

PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil, light-yellow, soft .....	0	5
Clay, yellow, soft .....	5	15
Slate, dark, soft .....	15	35
Sandy lime, light, hard .....	35	42
Sandy, white, hard, broken, caving .....	42	198
Coal, black, soft, and sand, white, hard .....	198	206
Sand, white, hard .....	206	312
Slate, dark, soft .....	312	345
Sandy lime, dark-gray, medium .....	345	412
Slate, dark, soft .....	412	432
Shells, light, medium .....	432	475

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand, light-gray, medium .....	475	485
Salt water @ 480		
Slate and shells, dark, medium .....	485	560
Sand, white, medium .....	560	575
Salt water @ 566		
Lime, gray, hard .....	575	595
Red rock, medium .....	595	608
Sandy lime, gray, hard .....	608	615
Red rock, red, medium .....	615	640
Slate, dark, soft .....	640	650
Red rock, red, medium .....	650	675
Lime, gray, hard .....	675	690
Slate, dark, soft .....	690	705
Lime, gray, hard .....	705	712
Red rock, medium .....	712	743
Slate, dark, soft .....	743	775
Lime, light-gray, hard .....	775	783
Slate and shells, light, medium .....	783	808
Lime, gray, very hard .....	808	877
Slate, dark, soft .....	877	878
Lime, gray, very hard .....	878	883
Lime, gray, dark, medium .....	883	885
Lime, gray, hard .....	885	902
Slate, dark, soft .....	902	907
Lime, light- to dark-gray, hard .....	907	915
Shale, dark, soft .....	915	920
Lime, brown, hard .....	920	934
Lime, brown, very hard .....	934	940
Lime, light-gray, hard .....	940	964
Smell of oil @ 940; show of oil @ 951		
Slate, green, soft .....	964	965
Lime, light, gray, hard .....	965	971
Show of oil @ 966-67 and salt water rose 100'; no free oil		
Lime, light-gray, very hard .....	971	1150

CASING:

Conductor 8¼" @ 62  
6⅝" casing @ 490  
5 3/16" casing @ 927  
All pipe recovered; well plugged and abandoned Nov. 23, 1944.

STRATIGRAPHIC INTERPRETATION

PENNSYLVANIAN .....	5	575
MISSISSIPPIAN .....	575	1150
		(last record)
Pennington Formation .....	575	808
Bangor Limestone .....	808	900
Hartselle Formation .....	900	920
Monteagle Limestone .....	920	
St. Louis Limestone .....		1150
		(last record)

**MAP NUMBER—35**  
**Andrew Brown et al., J. R. West No. 1**

CARTER COORD.: SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 14, A-60E      ELEVATION: 1320 (T)  
 DATE: ?      TOTAL DEPTH: ?  
 PRODUCTION: Dry

**MAP NUMBER—36**  
**Whitcomb Oil & Gas Co., Toomey No. 2**

CARTER COORD.: NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 15, A-60E      ELEVATION: 1305 (S)  
 DATE: 1915      TOTAL DEPTH: 997  
 PRODUCTION: Oil  
 REMARKS: Oil pay reported @ 920-944. Oil shows reported @ 945 and  
 955. Gas show reported @ 945. Now abandoned.

**MAP NUMBER—37**  
**Whitcomb Oil & Gas Co., Toomey No. 3**

CARTER COORD.: SE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 15, A-60E      ELEVATION: 1324 (S)  
 DATE: 1916      TOTAL DEPTH: 953  
 PRODUCTION: Dry

**DRILLER'S LOG**

<i>Lithology</i>	<i>From</i>	<i>To</i>
Top of red shale .....	575	
Bottom of shale (top Big Lime) .....	760	
Lime (solid) .....	800	
Five feet break in lime .....	890	895
Top of pay sand .....	920	
Bottom of pay .....	944	
Bottom of well .....	953	
Four feet limestone shell on top of red shale		

**STRATIGRAPHIC INTERPRETATION**

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....		575
		(first record)
MISSISSIPPIAN .....	575	953
	(first record)	(last record)
Pennington Formation .....	575	
Bangor Limestone .....		890
Hartselle Formation .....	890	895
Monteagle Limestone .....	895	953
		(last record)

**MAP NUMBER—38**  
**Willard & Washburn, Toomey No. 1**

CARTER COORD.: SE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 16, A-60E      ELEVATION: 1565 (T)  
 DATE: ?      TOTAL DEPTH: ?  
 PRODUCTION: Dry

**MAP NUMBER—39**  
**Texas Mineral Land Co., Yellow Cliff No. 1**

CARTER COORD.: SE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 16, A-60E      ELEVATION: 1315 (T)  
 DATE: 1962      TOTAL DEPTH: 750±  
 PRODUCTION: Dry

**MAP NUMBER—40**  
**Peoples Oil & Gas Co., Cross No. 1**

CARTER COORD.: NW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 21, A-60E      ELEVATION: 1445 (T)  
 DATE: 1915      TOTAL DEPTH: 2500  
 PRODUCTION: Dry  
 REMARKS: Show of gas at unrecorded depth.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Slate, blue .....	0	259
Coal .....	259	262
Slate, blue .....	262	334
Sand, white .....	334	449
Slate, black .....	449	459
Sand, white .....	459	619
Slate, black, shelly .....	619	944
Limestone, gray .....	944	974
Shale, red .....	974	989
Limestone, gray .....	989	999
Shale, red .....	999	1023
Limestone, gray .....	1023	1034
Shale, red .....	1034	1085
Shale, blue, lime shells .....	1085	1114
Limestone, gray .....	1114	1795
Slate, blue .....	1795	1800
Black shale .....	1800	1855
Limestone, black, soft .....	1855	1880
Limestone, gray .....	1880	2030
Limestone, gray, ferruginous .....	2030	2045
Limestone, dark-gray .....	2045	2445
Limestone, gray, sandy .....	2445	2465
Limestone, gray, hard .....	2465	2500

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	0	944
MISSISSIPPIAN .....	944	1855
Pennington Formation .....	944	1114
Bangor Limestone .....	1114	
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1800
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1800	1855
ORDOVICIAN .....	1855	2500
		(last record)

MAP NUMBER—41  
Oneida Improvement Co., H. F. Cooper No. 1

CARTER COORD.: NW¼NE¼SW¼ sec. 21, A-60E      ELEVATION: 1466 (S)  
 DATE: 1941      TOTAL DEPTH: 1598  
 SAMPLE SET: No. 298  
 PRODUCTION: Gas  
 REMARKS: Now abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	6
Slate and shells .....	6	100
Water @ 50 and 70		
Sand, gray, medium .....	100	115
Slate, black, soft .....	115	125
Water @ 122		
Sand, white, medium .....	125	165
Slate and shells, black, medium .....	165	265
Slate and shells, dark, medium .....	265	347
Salt sand, white, medium to reasonably hard .....	347	593
Coal 476-478		
Water level lowered @ 570-575		
Slate, dark, soft .....	593	596
Sand, black, hard .....	596	639
Slate, black, soft .....	639	653
Sand shell, gray, medium .....	653	671
Slate, black, soft .....	671	680
Shell, dark, hard .....	680	683
Slate and shells, dark, medium .....	683	730
Shells, gray, medium .....	730	746
Salt water 737-43		

<i>Lithology</i>	<i>From</i>	<i>To</i>
Slate, black, soft .....	746	832
Sand, gray, medium .....	832	846
Oil 832-835 (14" sand)		
Slate, black, soft .....	846	854
Show coal 854		
Sand shell, gray, medium .....	854	877
Slate, black, medium .....	877	907
Sandy shell, gray, hard .....	907	913
Slate, black, medium .....	913	970
Sand, gray, medium .....	970	1005
Small amount gas between 976-985		
Slate, black .....	1005	1015
Slate, green .....	1015	1028
Red rock, red, medium .....	1028	1040
Slate, dark .....	1040	1080
Red rock, red, soft .....	1080	1107
Shell, dark, hard .....	1107	1113
Slate, dark .....	1113	1137
Lime, light-gray, medium .....	1137	1160
Slate, black .....	1160	1180
Lime, dark, medium .....	1180	1267
Slate and red rock, green and red, soft .....	1267	1273
Lime, light-gray, hard .....	1273	1510
Oil smell 1365		
Lime, brown, hard .....	1510	1530
Oil show 1522-24		
Lime, sandy, brown, hard .....	1530	1569
Lime, sandy, red, medium .....	1569	1579
Gas 1579		
Shot well @ 1580. Increased gas double.		

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	6	1015 (?)
MISSISSIPPIAN .....	1015 (?)	1579
		(last record)
Pennington Formation .....	1015 (?)	
Bangor Limestone .....		1267 (?)
Hartselle Formation .....	1267 (?)	1273
Monteagle Limestone .....	1273	
St. Louis Limestone .....		1579
Warsaw Formation .....		(last record)

#### SAMPLE DESCRIPTION

17-100	Sandstone	gray, fine-grained, subangular, micaceous
100-05	Sandstone	gray, fine-grained, subangular, micaceous—minor amount of shale, dark-gray, micaceous

105-15	Sandstone	gray, fine-grained, subangular, micaceous, many dark grains
115-22	Sandstone	gray, fine-grained, subangular, micaceous, many dark grains—minor amount of shale, dark-gray, micaceous
122-57	Sandstone	light-gray, fine- to medium-grained, subangular
157-62	Shale	dark-gray, micaceous
162-85	Shale	dark-gray
185-90	Siltstone	gray—minor amount of shale, dark-gray
190-95	Sandstone	dark-gray, fine-grained, subangular, micaceous, shaly
195-204	Siltstone	dark-gray, shaly, micaceous—minor amount of shale, dark-gray, silty, micaceous
204-32	Siltstone	dark-gray, shaly, micaceous
232-40	Siltstone	dark-gray, shaly, micaceous—minor amount of sandstone, light-gray, fine-grained, subangular
240-54	Sandstone	light-gray, fine-grained, subangular
254-59	Sandstone	light-gray, fine- to medium-grained, subangular, micaceous, <i>coaly</i>
259-69	Sandstone	light-gray, fine-grained, subangular—minor amount of sandstone, dark-gray, fine-grained, micaceous, shaly
269-75	Sandstone	dark-gray, fine-grained, subangular, micaceous, shaly
275-88	Siltstone	dark-gray, micaceous, shaly
288-98	Shale	dark-gray, micaceous, silty
298-303	Sandstone	light-gray, fine-grained, subangular, micaceous—minor amount of shale, black, <i>coaly</i>
303-10	Sandstone	light-gray, fine-grained, subangular, micaceous
310-15	Sandstone	light-gray, fine-grained, subangular, micaceous—minor amount of siltstone, dark-gray, shaly, micaceous—minor amount of shale, dark-gray
315-33	Siltstone	dark-gray, micaceous, shaly
333-38	Siltstone	dark-gray, micaceous, shaly—minor amount of sandstone, light-gray, fine-grained, subangular
338-50	Samples missing	
350-58	Sandstone	light-gray, fine- to medium-grained, subangular
358-66	Sandstone	light-gray, medium-grained, subangular
366-70	Sandstone	light-gray, fine- to medium-grained, subangular
370-75	Sandstone	light-gray, fine-grained, subangular
375-85	Sandstone	light-gray, fine- to medium-grained, subangular
385-95	Samples missing	
395-400	Sandstone	light-gray, fine-grained, subangular
400-11	Sandstone	light-gray, fine- to medium-grained, subangular
411-22	Sandstone	light-gray, fine-grained, subangular
422-25	Sandstone	light-gray, fine- to medium-grained, subangular
425-31	Sandstone	light-gray, fine-grained, subangular
431-36	Sandstone	light-gray, fine- to medium-grained, subangular
436-40	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
440-45	Sandstone	light-gray, medium-grained, subangular, conglomeratic
445-55	Sandstone	light-gray, fine- to medium-grained, subangular
455-61	Sandstone	light-gray, fine-grained, subangular
461-72	Sandstone	light-gray, fine- to medium-grained, subangular

472-78	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic— <i>minor amount of coal</i>
478-80	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
480-511	Sandstone	light-gray, fine-grained, subangular
511-82	Sandstone	light-gray, fine- to medium-grained, subangular
532-38	Sandstone	light-gray, fine-grained, subangular
538-56	Sandstone	light-gray, fine- to medium-grained, subangular
556-61	Sandstone	light-gray, fine-grained, subangular
561-63	Sandstone	light-gray, fine-grained, subangular— <i>minor amount of siltstone, dark-gray, shaly</i>
563-605	Sandstone	light-gray, fine-grained, subangular
605-11	Sandstone	light-gray, fine- to medium-grained, subangular
611-17	Sandstone	light-gray, fine- to medium-grained, subangular— <i>minor amount of siltstone, dark-gray</i>
617-23	Sandstone	gray, fine-grained, subangular, shaly
623-34	Sandstone	light-gray, fine-grained, subangular
634-39	Shale	dark-gray, silty— <i>minor amount of siltstone, dark-gray, shaly</i>
639-50	Shale	dark-gray, silty
650-61	Sandstone	light-gray, fine-grained, subangular
661-67	Sandstone	light-gray, fine-grained, subangular— <i>minor amount of siltstone, dark-gray, shaly</i>
667-74	Siltstone	dark-gray, shaly
674-82	Samples missing	
682-86	Shale	dark-gray, silty
686-95	Sandstone	gray, fine-grained, subangular, shaly
695-707	Sandstone	gray, fine-grained, subangular, shaly— <i>minor amount of siltstone, dark-gray, shaly</i>
707-13	Sandstone	dark-gray, fine-grained, subangular, shaly— <i>minor amount of siltstone, dark-gray, micaceous</i>
713-24	Siltstone	dark-gray, shaly, micaceous
724-31	Sandstone	gray and brown, fine-grained, subangular, sideritic
731-49	Sandstone	gray and brown, fine-grained, subangular
749-819	Shale	dark-gray, micaceous, silty
819-32	Samples missing	
832-35	Sandstone	brown, medium-grained, subangular, <i>good show of oil</i>
835-42	Sandstone	brown, fine- to medium-grained, subangular, <i>good show of oil</i>
842-48	Shale	dark-gray, silty, micaceous
848-54	Shale	dark-gray, silty, micaceous— <i>minor amount of sandstone, gray-brown, fine- to medium-grained, subangular</i>
854-60	Siltstone	gray-brown, sideritic
860-66	Siltstone	gray-brown— <i>minor amount of sandstone, brown, fine-grained, show of oil</i>
866-72	Sandstone	brown, fine-grained, subangular, <i>show of oil</i>
872-77	Sandstone	brown, fine-grained, subangular— <i>minor amount of shale, dark-gray, silty</i>
877-903	Siltstone	dark-gray



903-09	Siltstone	dark-gray—minor amount of sandstone, light-gray, fine-grained, subangular
909-21	Siltstone	dark-gray, shaly
921-27	Shale	dark-gray, micaceous
927-34	Siltstone	dark-gray, shaly
934-52	Siltstone	dark-gray, shaly, sandy
952-64	Siltstone	dark-gray, shaly, sandy—minor amount of sandstone, tan, fine- to medium-grained, subangular
964-70	Siltstone	dark-gray, shaly, sandy—minor amount of sandstone, tan, fine- to medium-grained, subangular—minor amount of limestone, tan, fine-grained, dolomitic
970-94	Samples missing	
994-1000	Sandstone	light-gray and brown, medium-grained, <i>show of oil</i>
1000-05	Samples missing	
1005-10	Sandstone	light-gray, fine- to medium-grained, subangular—minor amount of shale, dark-gray—minor amount of limestone, brown, medium-grained, dolomitic
1010-26	Samples missing	
1026-32	Shale	maroon and greenish-gray, dolomitic—minor amount of dolomite, gray, fine-grained, shaly
1032-44	Samples missing	
1044-50	Dolomite	gray-tan, fine-grained—minor amount of shale, dark-gray, dolomitic
1050-56	Dolomite	gray-tan, fine-grained—minor amount of shale, maroon and dark-gray, dolomitic
1056-62	Dolomite	gray-tan, fine-grained
1062-68	Shale	gray and maroon—minor amount of dolomite, gray and brown, fine-grained—minor amount of limestone, gray-brown, medium-grained, fragmental
1068-75	Shale	gray, dolomitic—minor amount of dolomite, gray, fine-grained
1075-90	Shale	maroon and gray, dolomitic
1090-96	Shale	maroon and gray, dolomitic—minor amount of dolomite, gray and brown, fine-grained
1096-1107	Shale	maroon and gray, dolomitic
1107-13	Shale	maroon and gray, dolomitic—minor amount of dolomite, gray and brown, fine-grained, silty
1113-25	Shale	maroon and gray, dolomitic
1125-31	Samples missing	
1131-37	Shale	maroon and gray, dolomitic—minor amount of dolomite, gray, fine-grained, silty
1137-43	Dolomite	tan, fine-grained—minor amount of dolomite, gray, fine-grained, silty
1143-55	Dolomite	gray-brown and tan, fine-grained—minor amount of shale, dark-gray, bentonitic
1155-59	Samples missing	
1159-63	Shale	dark-gray, bentonitic—minor amount of limestone, white and gray-brown, medium-grained
1163-84	Limestone	dark gray-brown, medium-grained, fragmental
1184-89	Limestone	dark-gray, fine- to medium-grained, shaly

1189-98	Shale	green and gray, dolomitic, bentonitic
1198-1203	Shale	green and gray, dolomitic, bentonitic—minor amount of dolomite, brown, fine-grained
1203-07	Shale	dark-gray—minor amount of dolomite, brown, fine-grained—minor amount of limestone, brown, medium-grained
1207-15	Limestone	dark-brown, fine-grained
1215-36	Limestone	cream and brown, medium-grained, fragmental
1236-45	Limestone	dark-brown, medium-grained, dolomitic
1245-50	Samples missing	
1250-55	Limestone	dark-brown, medium-grained, dolomitic
1255-66	Limestone	brown, medium-grained
1266-73	Shale	gray and maroon, dolomitic
1273-78	Limestone	cream and brown, medium-grained
1278-86	Limestone	cream and tan, medium-grained
1286-94	Limestone	cream and tan, medium-grained—minor amount of shale, gray and maroon
1294-1303	Limestone	cream and tan, medium-grained
1303-07	Limestone	tan, medium-grained
1307-25	Samples missing	
1325-30	Limestone	tan, medium-grained, oolitic
1330-35	Samples missing	
1335-40	Limestone	tan, fine-grained—minor amount of shale, maroon and green
1340-47	Limestone	tan, medium-grained
1347-53	Limestone	tan, fine- to medium-grained
1353-70	Samples missing	
1370-75	Sandstone	light-gray, fine-grained, subangular, limy—minor amount of limestone, tan, fine-grained
1375-80	Limestone	tan, medium-grained
1380-91	Limestone	cream and tan, medium-grained, fragmental
1391-95	Samples missing	
1395-1400	Limestone	cream and tan, medium-grained, fragmental—minor amount of shale, dark-gray
1400-08	Limestone	cream and tan, medium-grained, fragmental
1408-14	Limestone	cream and tan, medium-grained, fragmental—minor amount of sandstone, light-gray, fine-grained, subangular—minor amount of shale, gray and maroon
1414-25	Limestone	tan, fine- to medium-grained
1425-29	Limestone	tan, medium-grained, fragmental
1429-40	Limestone	gray-tan, fine-grained
1440-57	Limestone	gray-tan, fine- to medium-grained, fragmental
1457-62	Limestone	gray-tan, fine- to medium-grained, fragmental—minor amount of sandstone, light-gray, fine-grained, subangular—minor amount of shale, gray
1462-70	Samples missing	
1470-81	Limestone	cream and tan, medium-grained, fragmental
1481-86	Limestone	gray-tan, fine-grained
1486-90	Limestone	tan, fine-grained, cherty
1490-95	Limestone	tan, fine-grained
1495-1500	Limestone	cream, fine-grained

1500-05	Dolomite	cream, fine-grained—minor amount of limestone, cream, fine-grained—minor amount of shale, gray-green
1505-09	Dolomite	cream and tan, fine-grained, slightly cherty
1509-13	Dolomite	tan, fine-grained, slightly cherty, <i>show of oil</i>
1513-16	Samples missing	
1516-21	Dolomite	tan, medium-grained, vugular porosity, <i>good show of oil</i>
1521-85	Samples missing	
1585-92	Sandstone	gray-brown, fine-grained, subangular, very dolomitic

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	17	1008
MISSISSIPPIAN .....	1008	1592
		(last sample)
Pennington Formation .....	1008	1155
Bangor Limestone .....	1155	1266
Hartselle Formation .....	1266	1273
Monteagle Limestone .....	1273	1481
St. Louis Limestone .....	1481	
Warsaw Formation .....		1592
		(last sample)

#### MAP NUMBER—42

#### Texas Mineral Land Co., Clayton Newport No. 1

CARTER COORD.: NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 25, A-60E      ELEVATION: 1525 (T)  
DATE: 1962      TOTAL DEPTH: 1835  
PRODUCTION: Gas

#### MAP NUMBER—43

#### Hydetown Oil & Gas Co., Shoally Fork No. 1

CARTER COORD.: SE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 7, A-61E      ELEVATION: 1370 (T)  
DATE: 1899      TOTAL DEPTH: 663  
PRODUCTION: Dry  
REMARKS: Oil show reported @ 553-663.

#### DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sandstone .....	0	175
Coal No. 3 $\frac{1}{2}$ ?		
Sandstone .....	175	550
Coal No. 3 reported .....	550	553
Sandstone, with oil .....	553	663

SAMPLE DESCRIPTION

20-40	Shale	gray, silty
40-60	Sandstone	tan and light-gray, fine-grained, subangular, weathered and friable
60-80	Sandstone	light-gray, fine-grained, subangular
80-160	Sandstone	light-gray, fine- to medium-grained, subangular
160-80	Sandstone	light-gray, medium-grained, subangular
180-200	Siltstone	dark-gray, shaly
200-20	Shale	dark-gray
220-40	Siltstone	dark-gray, shaly
240-80	Samples missing	
280-300	Siltstone	dark-gray, shaly
300-10	Samples missing	
310-40	Shale	dark-gray, silty
340-50	Sandstone	light-gray, fine- to medium-grained, subangular
350-70	Samples missing	
370-400	Sandstone	light-gray, fine- to medium-grained, subangular
400-50	Samples missing	
450-70	Sandstone	light-gray, medium-grained, subangular
470-80	Sandstone	light-gray, medium-grained, subangular, conglomeratic
480-500	Sandstone	light-gray, medium-grained, subangular
500-90	Samples missing	
590-600	Sandstone	light-gray, medium-grained, subangular, conglomeratic
600-60	Samples missing	
660-70	Shale	gray
670-80	Samples missing	
680-90	Sandstone	gray, fine-grained, subangular, silty
690-700	Samples missing	
700-10	Shale	gray
710-40	Samples missing	
740-50	Siltstone	dark-gray, shaly
750-70	Samples missing	
770-80	Siltstone	dark-gray, shaly—minor amount of sandstone, gray, fine-grained, subangular
780-90	Siltstone	dark gray, shaly—minor amount of sandstone, gray, fine-grained, subangular
790-900	Samples missing	
900-10	Siltstone	gray-green, dolomitic—minor amount of sandstone, gray, fine-grained, subangular— <i>trace of coal</i>
910-1010	Samples missing	
1010-20	Shale	gray-green and maroon
1020-50	Samples missing	
1050-80	Shale	gray and maroon
1080-90	Samples missing	
1090-1110	Siltstone	gray and maroon, shaly, dolomitic
1110-20	Siltstone	gray-green and maroon, dolomitic
1120-40	Limestone	dark-gray, medium-grained, dolomitic
1140-50	Limestone	dark-gray, medium-grained, slightly cherty—minor amount of siltstone, gray, dolomitic
1150-70	Limestone	dark-gray, medium-grained, dolomitic

1170-80	Limestone	tan, fine-grained
1180-90	Limestone	tan, fine-grained—minor amount of limestone, dark-gray, medium-grained
1190-1200	Limestone	tan and gray, fine- to medium-grained
1200-60	Samples missing	
1260-70	Limestone	gray-tan, medium-grained
1270-1400	Samples missing	
1400-10	Limestone	gray-tan, medium-grained, oolitic
1410-20	Samples missing	
1420-30	Limestone	gray-tan, fine- to medium-grained, slightly oolitic
1430-50	Limestone	gray-tan, fine- to medium-grained
1450-60	Limestone	gray-tan, fine- to medium-grained—minor amount of siltstone, maroon and gray, dolomitic

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	20	902
MISSISSIPPIAN .....	902	1460 (last sample)
Pennington Formation .....	902	1120
Bangor Limestone .....	1120	
Hartselle Formation .....		
Monteagle Limestone .....		1458
St. Louis Limestone .....	1458	1460 (last sample)

#### MAP NUMBER—45

#### Superior Oil Corp., L. E. Bryant No. 2

CARTER COORD.: SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 7, A-61E

DATE: ?

PRODUCTION: Dry

ELEVATION: 1346 (S)

TOTAL DEPTH: ?

#### MAP NUMBER—46

#### Superior Oil Corp., L. E. Bryant No. 1

CARTER COORD.: SW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 8, A-61E

DATE: 1923

PRODUCTION: Dry

ELEVATION: 1310 (T)

TOTAL DEPTH: 1900

#### DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
White sand, hard .....	0	79
#4 coal 20' above derrick floor		
White sand .....	79	102
Water		
Coal 8" thick		

<i>Lithology</i>	<i>From</i>	<i>To</i>
White sand, hard and fine .....	102	122
Black shale .....	122	220
Sand .....	222	240
Sand, hard and dark .....	240	272
Hole full of water		
White sand .....	272	580
Black slate .....	580	620
#3 coal 3' thick @ 617-620		
Shale .....	620	640
Bryant sand .....	640	705
Oil @ 702		
Black shale .....	705	710
#2 coal 705-706		
Black slate .....	710	752
Black shale .....	752	820
#1 coal 12", 819-820		
White slate (really hard, white, fine clay) .....	820	830
Slate and shaly, dark-bluish shale .....	830	877
Sand, coarse, white .....	877	887
Chester red shale with greenish streak .....	887	907
Reddish-brown and green streaks .....	907	965
Reddish and greenish caving shale .....	965	1052
Lime .....	1052	1054
Gas @ 1054 in very dark limestone 3-4' thick		
Dark lime .....	1054	1058
Gas		
Lime .....	1058	1070
Lost bit @ 1058		
Blue shale, caving .....	1070	1089
Cave from 1070-1089		
2 cu. yds. cement to shut off cave		
Big Lime .....	1089	1094
White lime .....	1094	1270
Lime .....	1270	1380
Hard lime .....	1380	1475
Brown lime .....	1475	1477
Show gas		
Dark-blue lime .....	1477	1480
Sandstone (?) .....	1480	1501
Lime .....	1501	1514
Shale .....	1514	1570
Cherty limestone .....	1570	1725
Green shale .....	1725	1750
Black shale .....	1750	1782
Green, brown, gray shale .....	1782	1803
Lime .....	1803	1900
CASING:		
8 1/4" casing @ 602		

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	0	887
MISSISSIPPIAN .....	887	
Pennington Formation .....	887	1089
Bangor Limestone .....	1089	
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1750
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1750	1782
ORDOVICIAN .....	1782	1900
		(last record)

**MAP NUMBER—47**  
**Superior Oil Corp., Hines No. 1**

CARTER COORD.: SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 9, A-61E      ELEVATION: 1280 (T)  
 DATE: 1919      TOTAL DEPTH: 1017  
 PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Surface .....	0	70
Slate and shale .....	70	120
Lime .....	120	125
Slate and shale .....	125	170
Blue shale .....	170	270
White sand .....	270	360
Blue shale .....	360	390
Blue and white sand .....	390	400
Shale .....	400	467
Oil showing		
Sand .....	467	560
Sand and shale .....	560	691
Sand .....	691	752
Showing of oil		
Slate .....	752	780
Hard slate .....	780	786
Lime .....	786	819
Black slate .....	819	858
Sand and slate .....	858	864
Gray shale and slate .....	864	870
Lime .....	870	884
Lime, white sand .....	884	895
Lime .....	895	901

<i>Lithology</i>	<i>From</i>	<i>To</i>
Fine sand .....	901	912
Coal and slate .....	912	918
Black lumpy shale (caves badly) .....	918	929
Slate .....	929	946
Black shale, lumpy (caves badly) .....	946	957
Green shale .....	957	962
Red rock .....	962	967
Broken shale .....	967	989
Fine gray sand .....	989	995
Red rock .....	995	1017
Hard shale .....		1017

Driller stated that after drilling on hard shale for several hours failed to make any progress. Hole caved badly @ 918 to 929 and 946 to 957. Attempted to set liner but dropped it and failed to get hold of it. Hole abandoned and plugged with wooden and cement plugs.

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	70	870
MISSISSIPPIAN .....	870	1017
		(last record)
Pennington Formation .....	870	1017
		(last record)

#### MAP NUMBER—48 Superior Oil Corp., Hines No. 2

CARTER COORD.: SW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 9, A-61E      ELEVATION: 1271 (S)  
DATE: 1921      TOTAL DEPTH: 751  
PRODUCTION: Dry

#### DRILLER'S LOG

Oil show @ 720-725

Oil pay @ 730-743

Well pumped 6 barrels in first 24 hours. Well shot on Jan. 28, 1921 with 40 quarts at 737-43 by Ky. Glycerine Co.

Contractor—R. E. Chapin

This well is 400 feet north of well #1. Approximately the same elevation above sea level in the bottom of Paunch Creek.

The top of the sandstone was struck @ 392. Apparently there was no difference in the other materials found in the #1. The bottom of this sandstone was struck @ 570 feet, 8 inches. Casing was set @ 573. The shale in which this was set lasted from 570-700. At 702 another string of casing was set in sandstone in which at 720 a little showing of oil was struck and was thought to extend to 736. The bottom of this sand was 743.



Well was put on pump Feb. 1, 1921, and pumped off in one hour. Well was pumped three hours on the first day and made 6 inches in 100-barrel tank; considerable water showing of a salty nature, which seemed to increase as well was pumped.

On Feb. 4, well was pumped and showed water and oil mixed; no increase in oil, but nearly all water. Total production on 4th showed 4 inches water and oil. When water was drawn off, oil pumped was 1/2 barrel.

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	392	743
	(first record)	(last record)

**MAP NUMBER—49**  
**Superior Oil Corp., Hines No. 3**

CARTER COORD.: NE1/4NE1/4SW1/4 sec. 9, A-61E	ELEVATION: 1275 (T)
DATE: ?	TOTAL DEPTH: ?
PRODUCTION: Dry	

**MAP NUMBER—50**  
**Texas Mineral Land Co., Wilson No. 1**

CARTER COORD.: SW1/4NE1/4NW1/4 sec. 10, A-61E	ELEVATION: 1365 (T)
DATE: 1962	TOTAL DEPTH: 728
PRODUCTION: Dry	

**MAP NUMBER—51**  
**———— L. E. Bryant No. 1**

CARTER COORD.: NE1/4NW1/4NW1/4 sec. 15, A-61E	ELEVATION: 1375 (T)
DATE: 1905	TOTAL DEPTH: 2210
PRODUCTION: Dry	

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Coal No. 3 @ .....		100
Coal No. 1 .....	519	525
Shale .....		990
Limestone .....	990	1365
Sandstone (?) .....	1365	1665
Black shale .....	1665	1703
Limestone and shale .....	1703	2210

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	100	
	(first record)	
MISSISSIPPIAN		
Pennington Formation .....		990
Bangor Limestone .....	990	
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1665
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1665	1703
ORDOVICIAN .....	1703	2210
		(last record)

**MAP NUMBER—52**  
**Superior Oil Corp., L. E. Bryant No. 3**

CARTER COORD.: NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 15, A-61E      ELEVATION: 1380 (T)  
 DATE: ?      TOTAL DEPTH: ?  
 PRODUCTION: Dry

**MAP NUMBER—53**  
**Superior Oil Corp., F. Reed No. 1**

CARTER COORD.: SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 17, A-61E      ELEVATION: 1390 (T)  
 DATE: 1925      TOTAL DEPTH: 1278  
 PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand, white, hard .....	190	210
Slate, blue, hard .....	210	260
Sand, white, hard .....	260	350
Sandy shale, gray, hard .....	350	410
Sand, gray, hard .....	410	455
Coal .....	455	459
Sand, white, hard .....	459	489
Break, soft .....	489	491
Sand, brown, hard .....	491	494
Oil and gas show		
Sand, white, hard .....	494	504
Sand, gray, hard .....	504	519

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand, white, hard .....	519	549
Slate, soft .....	549	641
Sand, gray, hard .....	641	656
Oil and gas		
Slate, black, soft .....	656	671
Sand, brown, hard .....	671	686
Slate, blue, soft .....	686	716
Sand, brown, soft .....	716	741
Oil and gas		
Slate, soft .....	741	756
Sand, brown, hard .....	756	811
Oil and gas		
Slate, blue, soft .....	811	870
Sand, white, hard .....	870	910
Shale, red and green, soft .....	910	1100
Lime, brown, hard .....	1100	1110
Slate, blue, soft .....	1110	1130
Lime, gray, hard .....	1130	1144
Deepened		
Lime, gray, hard .....	1144	1271
Shale, gray, hard .....	1271	1278

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	190	910
	(first record)	
MISSISSIPPIAN .....	910	1278
		(last record)
Pennington Formation .....	910	1130
Bangor Limestone .....	1130	
Hartselle Formation		
Monteagle Limestone .....		1278
		(last record)

**MAP NUMBER—54**  
**Superior Oil Corp., F. Reed No. 2**

CARTER COORD.: NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 18, A-61E      ELEVATION: 1490 (T)  
DATE: ?      TOTAL DEPTH: ?  
PRODUCTION: Dry

**MAP NUMBER—55**  
**Luke Lea, Jr., Ketchen No. 1**

CARTER COORD.: SE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 23, A-62E      ELEVATION: 1290 (T)  
DATE: 1962      TOTAL DEPTH: 1200±  
PRODUCTION: Dry

**MAP NUMBER—56**  
**Texas Mineral Land Co., Ketchen No. 1**

CARTER COORD.: SE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 23, A-62E      ELEVATION: 1290 (T)  
DATE: 1961      TOTAL DEPTH: 600±  
PRODUCTION: Dry

**MAP NUMBER—57**  
**Texas Mineral Land Co., Lay No. 4**

CARTER COORD.: SE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 1, 1S-59E      ELEVATION: 1580 (T)  
DATE: 1962      TOTAL DEPTH: 393  
PRODUCTION: Dry

**MAP NUMBER—58**  
**Texas Mineral Land Co., Lay No. 2**

CARTER COORD.: NW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 1, 1S-59E      ELEVATION: 1555 (T)  
DATE: 1962      TOTAL DEPTH: 600±  
PRODUCTION: Dry

**MAP NUMBER—59**  
**Texas Mineral Land Co., Lay No. 1**

CARTER COORD.: SE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 1, 1S-59E      ELEVATION: 1580 (T)  
DATE: 1961      TOTAL DEPTH: 1389  
PRODUCTION: Oil  
REMARKS: Estimated initial production of 12 BOPD.

**MAP NUMBER—60**  
**Texas Mineral Land Co., Lay No. 3**

CARTER COORD.: NW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 1, 1S-59E      ELEVATION: 1575 (T)  
DATE: 1962      TOTAL DEPTH: 905  
PRODUCTION: Dry

**MAP NUMBER—61**  
**C. L. Fowler, Traders, Inc., No. 1**

CARTER COORD.: SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 15, 1S-59E      ELEVATION: 945 (S)  
 DATE: 1962      TOTAL DEPTH: 987  
 SAMPLE SET: CORE  
 PRODUCTION: Dry  
 CASING RECORD: 8 $\frac{5}{8}$ " @ 65; 7" @ 91  
 REMARKS: Core hole below 91 feet. Oil shows reported @ 379-84, 649-53,  
 713-17, 756-71, 772-89, 920-34, 967-79. Gas show reported @ 379-84.

SAMPLE DESCRIPTION

*Description of cable-tool cuttings from 0 to 91 feet:*

0-52	Samples missing	
52-57	Sandstone	light-gray, some orange staining, fine- to medium-grained, subangular to subround
57-62	Shale	gray, silty—minor amount of sandstone, light-gray, some orange staining, fine- to medium-grained, subangular to subround
62-72	Shale	gray, silty
72-91	Siltstone	gray, clayey—minor amount of sandstone, gray, fine-grained, subangular

*Description of core:*

91-94	Shale	dark-gray, silty—minor amount of sandstone, gray, fine-grained, subangular, lenticular (average lens 1/32" thick)
94-96	Shale	dark-gray, silty—minor amount of sandstone, gray, fine-grained, subangular, lenticular (lenses as much as 1/4" thick), <i>slightly coaly @ 96</i>
96-99	Sandstone	gray-brown, fine-grained, silty, subangular
99-101	Shale	gray-brown, clayey, soft
101-02	Shale	dark-gray—minor amount of sandstone, gray, fine-grained, subangular (lenses 1/32" thick)
102-04	Siltstone	gray-brown
104-05	Siltstone	gray-brown, <i>slightly coaly</i>
105-06	Siltstone	gray-brown
106-08	Shale	dark-gray, clayey
108-17	No core	
117-18	Sandstone	gray, fine-grained, subangular, slightly carbonaceous, slightly clayey
118-19	Shale	black, clayey, silty (2" coal reported @ 118)
119-20	Sandstone	dark-gray, fine-grained, subangular, clayey
120-23	Sandstone	gray, fine-grained, subangular, shaly
123-25	Shale	gray, sandy
125-26	Sandstone	gray, fine-grained, subangular, slightly shaly
126-27	Shale	gray, clayey
127-32	Dolomite	gray-tan, fine-grained, clayey, knotty

132-35	Shale	dark-gray, clayey, fissile
135-37	Dolomite	gray, fine-grained
137-44	Shale	gray, green and maroon, dolomitic
144-48	Shale	gray, dolomitic
148-50	Shale	gray and maroon, mottled, dolomitic
150-52	Siltstone	gray, dolomitic
152-54	Shale	gray and maroon—minor amount of siltstone, gray and maroon
154-60	Siltstone	gray
160-61	Shale	maroon, clayey
161-62	Siltstone	gray, sandy
162-64	Shale	maroon, clayey
164-65	Shale	gray, dolomitic
165-70	Shale	maroon, slightly dolomitic
170-76	Shale	gray, maroon mottled
176-212	Shale	dark-gray—minor amount of sandstone, gray, fine-grained (lenses 1/8" thick)
212-13	Dolomite	gray, fine-grained, clayey
213-18	Shale	dark-gray, clayey
218-21	Dolomite	gray, fine-grained
221-25	Siltstone	gray, dolomitic
225-26	Dolomite	gray, fine-grained, clayey
226-28	Shale	dark-gray
228-35	Dolomite	gray, fine-grained, silty
235-48	Shale	dark-gray—minor amount of sandstone, gray, fine-grained, subangular (lenses 1/16" thick)
248-49	Limestone	dark-brown and white, coarse-grained, fragmental, fossiliferous, clayey
249-51	Shale	dark-gray—minor amount of sandstone, gray, fine-grained, subangular (lenses 1/16" thick)
251-52	Limestone	dark-gray and brown, coarse-grained, fragmental, fossiliferous
252-55	Shale	dark-gray
255-56	Dolomite	gray, fine-grained, silty
256-65	Shale	maroon and gray
265-66	Dolomite	gray, fine-grained, silty
266-78	Shale	maroon and gray, slightly dolomitic
278-83	Shale	dark-gray—minor amount of sandstone, light-gray, fine-grained, subangular (lenses 1/8" thick)
283-99	Shale	maroon and gray, slightly dolomitic
299-300	Dolomite	dark-gray, fine-grained, silty
300-04	Dolomite	cream, fine-grained, slightly limy
304-12	Dolomite	brown and dark-brown, fine-grained, silty
312-17	Shale	dark-gray, dolomitic
317-34	Siltstone	dark-gray, dolomitic
334-46	Siltstone	dark-gray, dolomitic, clayey
346-50	Shale	dark-gray, slightly limy
350-55	Limestone	brown, medium-grained, fragmental, oolitic
355-56	Limestone	dark-brown, fine-grained, dolomitic, few celestite geodes
356-60	Limestone	dark-brown, medium-grained, dolomitic, fragmental

360-62	Limestone	dark-brown, medium-grained, fragmental
362-65	Limestone	dark-brown, medium-grained, dolomitic
365-67	Dolomite	dark-brown, limy, clayey
367-68	Shale	dark-brown, limy
368-69	Limestone	brown, medium-grained, fragmental
369-76	Dolomite	dark-brown and brown, fine-grained, limy, few celestite geodes
376-81	Shale	gray, clayey, slightly limy
381-84	Dolomite	tan, fine-grained
384-91	Limestone	dark-brown, medium- to coarse-grained, fragmental
391-410	Limestone	brown and dark-brown, fine- to medium-grained, frag- mental
410-11	Shale	dark-gray, limy
411-50	Limestone	brown, medium-grained, fragmental
450-51	Limestone	brown, medium-grained, fragmental, sandy
451-53	Limestone	brown, fine-grained, dolomitic
453-55	Limestone	brown, medium-grained, fragmental
455-56	Limestone	brown, medium-grained, fragmental, sandy
456-57	Shale	green, dolomitic
457-59	Shale	maroon and green, mottled
459-61	Shale	gray
461-62	Shale	gray—minor amount of sandstone, gray, fine-grained, sub- angular
462-66	Limestone	tan, medium-grained, fragmental, oolitic
466-67	Limestone	brown, fine-grained, dolomitic
467-72	Limestone	tan, medium-grained, fragmental, slightly oolitic
472-84	Limestone	tan and brown, medium-grained, fragmental
484-86	Limestone	tan, medium-grained, oolitic
486-91	Limestone	tan and brown, medium-grained, oolitic
491-93	Limestone	gray-brown, fine-grained
493-500	Limestone	tan, medium-grained, fragmental
500-06	Limestone	tan, fine- to medium-grained
506-07	Limestone	tan, medium-grained, fragmental
507-11	Limestone	tan, fine- to medium-grained
511-16	Limestone	tan, medium-grained, fragmental
516-18	Limestone	tan, fine- to medium-grained, fragmental, oolitic
518-18½	Shale	brown, clayey, limy
518½-21	Limestone	tan, fine-grained, dolomitic, top 6" brecciated and filled with white dolomite
521-26	Limestone	tan, fine-grained, knotty
526-29	Limestone	tan, fine- to medium-grained, dolomitic
529-40	Limestone	tan, fine- to medium-grained, dolomitic, few dolomite geodes
540-44	Limestone	cream, medium-grained, oolitic
544-49	Limestone	tan, medium-grained, fragmental
549-50	Limestone	tan, medium-grained, oolitic
550-57	Limestone	tan, fine-grained, dolomitic
557-62	Limestone	tan, fine-grained, fragmental
562-66	Limestone	tan, fine- to medium-grained, fragmental
566-79	Limestone	tan, fine- to medium-grained, dolomitic

579-80	Limestone	tan, medium-grained, oolitic
580-84	Limestone	white, medium-grained, oolitic
584-94	Limestone	tan, medium-grained, oolitic
594-96	Limestone	tan, medium-grained, fragmental
596-99	Limestone	tan, medium-grained, oolitic
599-600	Limestone	tan, fine-grained, dolomitic
600-05	Limestone	tan, fine- to medium-grained, dolomitic
605-06	Limestone	tan, medium-grained, fragmental
606-08	Limestone	tan, fine-grained
608-09	Limestone	tan, fine- to medium-grained, fragmental
609-13	Limestone	tan, medium-grained, fragmental
613-16	Limestone	brown, fine-grained
616-18	Limestone	brown, medium-grained, fragmental
618-20	Limestone	brown, fine-grained
620-22	Limestone	tan, medium-grained, fragmental
622-23	Limestone	brown, medium-grained, oolitic
623-37	Limestone	brown, medium-grained, fragmental, oolitic
637-43	Limestone	brown, medium-grained, fragmental
643-49	Limestone	brown, medium-grained, oolitic
649-52	Limestone	white, medium-grained, oolitic, excellent interoolite porosity with <i>much dead oil</i>
652-55	Limestone	tan, medium-grained, oolitic
655-57	Limestone	tan, fine- to medium-grained, dolomitic
657-70	Limestone	dark-brown and brown, fine- to medium-grained, fragmental—minor amount of chert, dark-brown
670-71	Limestone	tan, fine- to medium-grained
671-75	Limestone	tan, fine- to medium-grained—minor amount of chert, dark-brown, nodular
675-81	Limestone	tan, fine- to medium-grained
681-82	Limestone	tan and gray, fine- to medium-grained, shaly—minor amount of shale, maroon
682-84	Limestone	tan, fine- to medium-grained
684-91	Limestone	brown and dark-brown, fine-grained
691-97	Limestone	brown, fine- to medium-grained
697-717	Dolomite	gray-brown, fine-grained, limy
717-18	Dolomite	brown, fine-grained, slightly vugular, <i>completely saturated with live oil</i>
718-20	Dolomite	gray-tan, fine-grained, <i>slight staining with live oil</i>
720-21	Dolomite	gray-tan, fine-grained, few calcite geodes
721-22	Dolomite	gray-tan, fine-grained
722-22½	Limestone	gray, pink, and saffron crystals, medium- to coarse-grained
722½-28	Limestone	dark gray-brown, fine-grained, slightly dolomitic
728-30	Dolomite	gray-tan, fine-grained, slightly limy
730-30½	Limestone	dark-brown, medium-grained, slightly dolomitic
730½-33	Limestone	maroon and gray, medium-grained, clayey
733-35	Limestone	gray-tan, fine- to medium-grained, dolomitic
735-41	Dolomite	tan and gray-brown, fine- to medium-grained, slightly limy
741-42	Limestone	gray-brown, fine- to medium-grained, dolomitic
742-47	Dolomite	tan, fine-grained, slightly limy
747-52½	Limestone	brown, fine- to medium-grained, dolomitic, very sandy



752½-561½	Dolomite	dark-brown, fine- to medium-grained, very sandy, scattered maroon pellets (iron oxide?), ¼" band of gypsum
756½-805	Dolomite	gray-brown, fine- to medium-grained, <i>very sandy</i> , maroon pellets (iron oxide?) in upper part. <i>Spotted to uniform oil staining throughout, tight</i> . This rock could be classified as: Sandstone, gray-brown, fine-grained, sub-angular, very dolomitic, maroon pellets (iron oxide?) in upper part, <i>spotted to uniform oil staining throughout, tight</i>
805-07	Siltstone	dark-gray, very dolomitic, slightly sandy, scattered maroon pellets
807-12	Sandstone	dark-gray and gray, fine-grained, subangular, clayey, very dolomitic, spots or zones of red metallic mineral
812-25	Siltstone	dark-gray and gray, very dolomitic, jasperoid chert nodules and lentils associated with red metallic mineral
825-85	Siltstone	dark-gray and gray, very dolomitic, <i>two ⅛" gypsum bands @ 828</i> , scattered lumps of red metallic mineral
835-46	Siltstone	dark-gray and gray, very dolomitic, few nodules of pink anhydrite, pink chert and lumps of red metallic mineral; ⅛" gypsum band @ 838
846-56	Siltstone	dark-gray and gray, very-dolomitic, ⅛" band of gypsum @ 848
856-63	Sandstone	dark-gray and gray, fine-grained, subangular, very dolomitic, silty, ⅛" band of gypsum @ 863
863-86	Siltstone	dark-gray and gray, very dolomitic, ¼" gypsum bands @ 879 and 886
886-90	Dolomite	gray, fine-grained, very silty, blue chert and anhydrite nodules
890-99	Limestone	gray, fine- to medium-grained, dolomitic, cherty (dark-gray)
899-901	Limestone	gray and brown, medium- to coarse-grained, cherty
901-14	Limestone	gray, fine- to medium-grained, very cherty
914-20	Limestone	light-gray, fine- to medium-grained, very cherty, very dolomitic
920-34	Silicestone	cream, fine-grained, very cherty, dolomitic, <i>slight oil staining in part</i>
934-51	Silicestone	cream, fine-grained, very cherty, dolomitic
951-56	Limestone	cream, medium- to coarse-grained, siliceous, slightly cherty
956-76	Limestone	cream, medium- to coarse-grained, siliceous, dolomitic, <i>slight oil stain @ 970-72</i>
976-87	Limestone	cream-gray and brown, fine- to medium-grained, siliceous, cherty, dolomitic

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	57	127
MISSISSIPPIAN .....	127	987
		(last sample)
Pennington Formation .....	127	350
Bangor Limestone .....	350	455

	<i>From</i>	<i>To</i>
Hartselle Formation .....	455	462
Monteagle Limestone .....	462	657
St. Louis Limestone .....	657	747
Warsaw Formation .....	747	
Fort Payne Formation .....		987
		(last sample)

**MAP NUMBER—62**  
**Easter Oil & Gas Co., Cross No. 1**

CARTER COORD.: NE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 1, 1S-60E

ELEVATION: 1481 (S)

DATE: 1915

TOTAL DEPTH: 1428

PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Shale, light-gray, soft (about 1' coal @ 90) .....	0	300
Sandstone, white, soft .....	300	355
Slate, black, soft .....	355	390
Sand, white, hard .....	390	460
Slate, black, soft .....	460	480
Sand, white, hard .....	480	525
Slate, black, soft .....	525	530
Sand, white, hard .....	530	650
Slate, black, soft .....	650	655
Sand .....	655	695
Water		
Coal .....	695	700
Slate, black, hard .....	700	730
Shale, black, soft .....	730	875
Slate, and some sand, black, hard .....	875	885
Sand, white, hard .....	885	900
Slate, black, soft .....	900	985
Sand, white, hard .....	985	990
Lime .....	990	1000
Red shale, soft .....	1000	1085
Shale, black, soft .....	1085	1150
Lime, hard, gray .....	1150	1170
Lime, soft, blue, shaly .....	1170	1200
Lime, hard, gray .....	1200	1428

3 small shows of oil

CASING:

Diameter at casing head 8 $\frac{1}{4}$ "

8 $\frac{1}{4}$ " casing set @ 525

6 $\frac{1}{4}$ " casing set @ 1158

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	0	990
MISSISSIPPIAN .....	990	1428
		(last record)
Pennington Formation .....	990	1150
Bangor Limestone .....	1150	
Hartselle Formation		
Monteagle Limestone .....		1428
		(last record)

**MAP NUMBER—63**  
**Bill Arnn, O & W Railroad No. 1**

CARTER COORD.: NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 2, 1S-60E      ELEVATION: 1436 (S)  
 DATE: 1951      TOTAL DEPTH: 1385  
 SAMPLE SET: No. 644  
 PRODUCTION: Dry  
 REMARKS: Oil show reported @ 1286. Gas show reported @ 1272 (small).

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Dirt .....	0	6
Slate, sand shell .....	6	37
Coal .....	37	39
White sand, medium-hard .....	39	120
Water @ 39		
Slate, black .....	120	211
Sand, medium-hard .....	211	241
Sand shell, slate .....	241	313
Sand, gray-white .....	313	391
Sand, light, dark-gray .....	391	486
Slate, blue .....	486	487
Sand, white, medium-hard .....	487	507
Sandy shale, gray, black, medium .....	507	517
Sand, white, medium .....	517	602
Sandy lime and slate, black, medium-hard .....	602	640
Lime, gray, black, hard .....	640	661
Slate, lime, shell, dark .....	661	687
Red rock, muddy .....	687	702
Lime, sandy, black, light-gray, medium-hard .....	702	726
Slate, red rock, blue, soft .....	726	838
Lime .....	838	844
Sand, gray, white, hard, sharp .....	844	874
Oil @ 844		
Lime, gray, brown .....	874	878
Ran 7" OD casing @ 877		

<i>Lithology</i>	<i>From</i>	<i>To</i>
Slate and lime, medium-hard .....	878	915
Coal, hard .....	915	917
Sandy lime, gray, hard .....	917	950
Lime, green, hard .....	950	967
Red rock, red-brown .....	967	975
Lime, green, medium-hard .....	975	995
Lime, gray, black, hard .....	995	1010
Red rock, soft .....	1010	1037
Pencil Cave (?) .....	1037	1039
Lime, brown, green .....	1039	1065
Red rock, slate, soft .....	1065	1091
Lime, white, hard .....	1091	

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	6	
MISSISSIPPIAN .....		1091+
		(last record)
Pennington Formation		
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone .....		1091+
		(last record)

#### SAMPLE DESCRIPTION

835-44	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, black, silty
844-47	Sandstone	light-gray, fine-grained, subangular—minor amount of sandstone, dark-gray, fine-grained, subangular, shaly
847-60	Sandstone	light-gray, fine- to medium-grained, subangular
860-61	Coal	bright, <i>show of oil</i>
861-66	Sandstone	light-gray, fine-grained, subangular
866-70	Shale	dark-gray—minor amount of siltstone, dark-gray, shaly—minor amount of sandstone, light-gray, fine-grained, subangular
870-74	Sandstone	light-gray, fine- to medium-grained, subangular
874-77	Sandstone	gray and dark-gray, fine-grained, shaly
877-917	Samples missing	
917-22	Sandstone	gray, fine-grained, subangular—minor amount of shale, dark-gray, <i>coaly</i>
922-27	Sandstone	gray, fine-grained, subangular—minor amount of shale, dark-gray, silty—minor amount of shale, gray
927-41	Sandstone	gray, fine-grained, subangular—minor amount of shale, dark-gray, <i>coaly</i>
941-46	Sandstone	gray, fine-grained, subangular—minor amount of dolomite, gray-brown, fine-grained, silty
946-51	Siltstone	gray-green, dolomitic—minor amount of sandstone, dark-gray, fine-grained, subangular, micaceous, silty

951-62	Siltstone	gray-green, dolomitic—minor amount of shale, green
962-69	Shale	maroon, dolomitic
969-74	Siltstone	maroon and green, shaly
974-83	Shale	maroon, gray and green, dolomitic
983-91	Shale	gray, green and maroon
991-95	Siltstone	gray-green, dolomitic
995-1000	Siltstone	gray, dolomitic
1000-05	Siltstone	gray, dolomitic—minor amount of dolomite, gray-brown, sandy
1005-10	Siltstone	gray, green, dolomitic
1010-15	Siltstone	gray, green, dolomitic—minor amount of shale, gray-green
1015-25	Siltstone	gray-green, dolomitic, shaly
1025-32	Sandstone	gray, fine-grained, subangular, shaly—minor amount of shale, dark-gray (Pencil Cave)
1032-40	Shale	maroon, dolomitic
1040-65	Siltstone	gray, dolomitic—minor amount of shale, gray and maroon, dolomitic
1065-82	Shale	gray and maroon, dolomitic
1082-88	Siltstone	gray-green, dolomitic
1088-93	Siltstone	gray-green, dolomitic—minor amount of dolomite, light-gray, fine-grained
1093-1203	Samples missing	
1203-08	Limestone	gray-brown, fine-grained, dolomitic
1208-13	Limestone	cream and gray-brown, medium-grained, dolomitic
1213-22	Limestone	cream and brown, fine-grained
1222-27	Sandstone	gray, fine-grained, subangular, shaly
1227-33	Shale	gray, sandy
1233-52	Limestone	cream and tan, medium-grained, fragmental
1252-56	Limestone	cream and tan, medium-grained, fragmental, slightly oolitic
1256-61	Limestone	cream and tan, medium-grained, fragmental
1261-72	Limestone	cream and gray, medium-grained, dolomitic
1272-82	Limestone	cream and tan, medium-grained
1282-88	Limestone	cream and tan, medium-grained, slightly oolitic
1288-92	Dolomite	tan, fine-grained, limy—minor amount of shale, gray
1292-1323	Samples missing	
1323-25	Dolomite	tan, fine-grained, limy, <i>show of oil</i>
1325-31	Limestone	tan, medium-grained, oolitic, <i>show of oil</i>
1331-37	Limestone	cream and tan, medium-grained, oolitic
1337-44	Limestone	cream and tan, medium-grained—minor amount of limestone, brown, medium-grained, silty
1344-51	Limestone	cream and tan, medium-grained, oolitic
1351-56	Limestone	cream and tan, medium-grained, oolitic, dolomitic
1356-75	Limestone	tan, medium-grained, oolitic
1375-85	Limestone	tan, fine-grained

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	835	945
	(first sample)	

	<i>From</i>	<i>To</i>
MISSISSIPPIAN .....	945	1385 (last sample)
Pennington Formation .....	945	
Bangor Limestone .....		1222
Hartselle Formation .....	1222	1233
Monteagle Limestone .....	1233	1385 (last sample)

**MAP NUMBER—64**  
**Oneida Oil & Gas Co., Anderson No. 1**

CARTER COORD.: NW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 2, 1S-60E      ELEVATION: 1421 (S)  
DATE: 1915      TOTAL DEPTH: 1803  
PRODUCTION: Gas  
REMARKS: Now abandoned.

**DRILLER'S LOG**

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	28
Sand .....	28	150
Slate .....	150	175
Sand .....	175	220
Slate .....	220	280
Sand .....	280	340
Lime .....	340	360
Sand .....	360	400
Lime .....	400	435
Slate .....	435	450
Slate and lime .....	450	500
Sand .....	500	595
Slate and lime .....	595	826
Coal .....	826	830
Lime and slate .....	830	870
White sand .....	870	921
Red rock .....	921	995
White slate, clayey .....	995	1040
Red rock .....	1040	1070
Slate .....	1070	1085
Lime .....	1085	1100
Black slate .....	1100	1116
Big Lime .....	1116	1226
Slate .....	1226	1230
White lime .....	1230	1510
Red rock .....	1510	1541
Gray sand .....	1541	1600
Black slate .....	1600	1641

<i>Lithology</i>	<i>From</i>	<i>To</i>
Lime .....	1641	1665
Beaver sand .....	1665	1790
Chattanooga shale .....	1790	1803
CASING:		
13" @ 28		
8¼" @ 652		
6¼" @ 1216		
Good show of oil @ 1210		
Gas @ 1250		
Tubed 2" @ 1282 to save gas. Make easily 50,000 a day.		

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	28	921
MISSISSIPPIAN .....	921	
Pennington Formation .....	921	1085
Bangor Limestone .....	1085	
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1790
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1790	1803

(last record)

**MAP NUMBER—65**  
**Oneida Oil & Gas Co., Joel Reed No. 1**

CARTER COORD.: NW¼SW¼NW¼ sec. 2, 1S-60E      ELEVATION: 1435 (T)  
DATE: ?      TOTAL DEPTH: 1334  
PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Surface .....	0	10
White sand .....	10	135
Slate .....	135	165
Black lime .....	165	173
Black slate .....	173	198
Black lime .....	198	233
Slate and shells .....	233	310
White sand .....	310	360
Slate and lime shells .....	360	543
White sand .....	543	590
Slate .....	590	603

<i>Lithology</i>	<i>From</i>	<i>To</i>
Black lime .....	603	628
Slate .....	628	705
Shells and slate .....	705	745
Sand .....	745	778
Slate .....	778	792
Black lime .....	792	854
Red rock .....	854	1040
Top of Big Lime .....	1040	1060
Black slate .....	1060	1085
White lime .....	1085	1334
Water @ 108		
8¼" casing @ 593		
Gas @ 760		
6¼" casing @ 1129		

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	10	854
MISSISSIPPIAN .....	854	1334
		(last record)
Pennington Formation .....	854	1040
Bangor Limestone .....	1040	
Hartselle Formation		
Monteagle Limestone .....		1334
		(last record)

MAP NUMBER—66  
Texas Mineral Land Co., H. F. Cooper No. 2

CARTER COORD.: NE¼SW¼NE¼ sec. 4, 1S-60E      ELEVATION: 1520 (T)  
DATE: 1961      TOTAL DEPTH: 1722  
PRODUCTION: Gas

MAP NUMBER—67  
Texas Mineral Land Co., H. F. Cooper No. 3

CARTER COORD.: SW¼NE¼NW¼ sec. 4, 1S-60E      ELEVATION: 1510 (T)  
DATE: 1961      TOTAL DEPTH: 1740  
SAMPLE SET: No. 1364  
PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Top soil .....	0	7
Sand .....	7	106
Mud and shale .....	106	150



<i>Lithology</i>	<i>From</i>	<i>To</i>
Sandy lime .....	150	175
Sand .....	175	215
Shale and mud .....	215	225
Sandy shale .....	225	235
Sand .....	235	250
Shale and mud .....	250	270
Sand .....	270	282
Shale and sand .....	282	320
Sand .....	320	340
Dark shale .....	340	347
Dark shale and coal .....	347	350
Sand .....	350	420
Shell .....	420	427
Sand .....	427	445
Black lime .....	445	455
Sand .....	455	480
Sand, hard .....	480	513
Sand .....	513	542
Sand, hard .....	542	545
Blue mud .....	545	560
Black sand .....	560	585
Shale .....	585	590
Sandy lime .....	590	594
Black sand .....	594	645
Sand .....	645	650
Black sand .....	650	657
8" casing @ 657		
Dark shale .....	657	760
Sand .....	760	776
Shale .....	776	800
Sandy shale .....	800	855
Blue mud .....	855	862
Sandy shale .....	862	895
Gray lime .....	895	900
Pink shale .....	900	925
Red rock .....	925	930
Broken lime .....	930	945
Gray sandy lime .....	945	965
Red rock shale .....	965	1010
Dark shale .....	1010	1018
Blue mud .....	1018	1024
Dark lime .....	1024	1029
White lime .....	1029	1051
Dark broken lime .....	1051	1059
Dark lime .....	1059	1065
Broken lime .....	1065	1095
Small show of oil @ 1082-89		
Light-brown lime, hard .....	1095	1108
Brown lime .....	1108	1161

<i>Lithology</i>	<i>From</i>	<i>To</i>
Gray lime .....	1161	1165
Shale break .....	1165	1171
Gray lime .....	1171	1190
Brown lime and gray lime .....	1190	1210
Gray lime .....	1210	1230
White mud .....	1230	1235
Brown lime .....	1235	1275
Show of oil @ 1256-66		
Hard, brown lime .....	1275	1290
Show of oil @ 1285-90		
S. L. M. <sup>1</sup> 1290=1285		
Brown lime .....	1285	1302
7" casing @ 1300		
Brown lime, hard .....	1302	1347
Brown lime .....	1347	1363
Gray lime .....	1363	1494
Show oil and gas @ 1483, 1487-94		
Sandy lime .....	1494	1536
Green sandy lime .....	1536	1536½
Black lime .....	1536½	1558
Gray lime .....	1558	1563
Black lime .....	1563	1568
Green shale .....	1568	1594
Gray lime .....	1594	1619
Sand .....	1619	1720
Little show of oil @ 1642-47		
Green shell, top of black shale .....	1720	1725
Black shale .....	1725	1740

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	7	895 (?)
MISSISSIPPIAN .....	895 (?)	
Pennington Formation .....	895 (?)	
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1725
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1725	1740 (last record)

#### SAMPLE DESCRIPTION

657-761	Shale	dark-gray
761-73	Sandstone	light-gray, fine- to medium-grained, subangular
773-800	Shale	dark-gray, silty
800-15	Shale	dark-gray, silty—minor amount of sandstone, light-gray, fine-grained, subangular

<sup>1</sup>Steel line measurement.

815-26	Sandstone	gray, fine-grained, subangular—minor amount of shale, dark-gray, silty
826-36	Siltstone	dark-gray, shaly
836-46	Siltstone	dark-gray, shaly—minor amount of sandstone, gray, fine-grained, subangular
846-56	Shale	dark-gray—minor amount of sandstone, gray, fine-grained, subangular
856-66	Sandstone	gray, fine-grained, subangular—minor amount of shale, dark-gray
866-73	Samples missing	
873-78	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, dark-gray, silty
878-85	Sandstone	light-gray, fine-grained, subangular
885-92	Sandstone	light-gray, fine-grained, subangular—minor amount of sandstone, gray, fine-grained, subangular, silty
892-921	Shale	gray-green and maroon
921-31	Shale	gray—minor amount of dolomite, gray, fine-grained, limy
931-40	Dolomite	gray, fine-grained
940-60	Limestone	light-gray and gray-brown, medium-grained, fragmental
960-66	Shale	gray-green and maroon—minor amount of limestone, gray, fine-grained
966-1010	Shale	gray-green and maroon
1010-18	Shale	gray and maroon
1018-24	Shale	gray
1024-32	Shale	gray—minor amount of dolomite, cream, fine-grained
1032-42	Dolomite	cream and gray, fine-grained
1042-52	Dolomite	gray, fine-grained—minor amount of shale, dark-gray
1052-62	Dolomite	gray, fine-grained, limy
1062-65	Dolomite	gray, fine-grained
1065-70	Limestone	light-gray and gray-brown, medium-grained, fragmental
1070-80	Samples missing	
1080-89	Limestone	gray-brown, medium-grained
1089-95	Limestone	gray-tan, fine-grained
1095-1108	Samples missing	
1108-20	Limestone	light-gray and gray, medium-grained, fragmental
1120-29	Limestone	light-gray and gray-tan, medium-grained, fragmental
1129-39	Limestone	light-gray and gray-brown, medium-grained, fragmental
1139-49	Limestone	light-gray and gray-brown spotted, medium-grained, fragmental
1149-60	Limestone	light-gray and gray-brown, medium-grained, fragmental, oolitic
1160-67	Limestone	light-gray and gray-brown, medium-grained, fragmental
1167-80	Limestone	light-gray and gray-brown spotted, medium-grained, fragmental, oolitic
1180-90	Limestone	cream and gray-tan, medium-grained, fragmental
1190-1210	Limestone	light-gray and brown, medium-grained, fragmental, oolitic
1210-24	Limestone	gray-cream, medium-grained
1224-35	Limestone	light-gray and gray, medium-grained, fragmental
1235-47	Limestone	light-gray and gray, fine- to medium-grained, dolomitic
1247-56	Limestone	gray-cream, fine-grained, dolomitic

1256-63	Limestone	gray-cream, fine- to medium-grained
1263-70	Limestone	gray-cream, fine- to medium-grained—minor amount of dolomite, tan, fine-grained, <i>slight show of oil</i>
1270-75	Dolomite	gray and tan, fine-grained
1275-82	Limestone	cream, fine-grained—minor amount of dolomite, gray, fine-grained
1282-95	Samples missing	
1295-1300	Limestone	light-gray, medium-grained, fragmental, oolitic
1300-07	Limestone	gray-tan, medium-grained, fragmental, oolitic
1307-13	Limestone	gray-tan, medium-grained, fragmental
1313-26	Limestone	gray-tan, fine- to medium-grained
1326-40	Limestone	gray-tan, medium-grained, fragmental, oolitic
1340-45	Samples missing	
1345-55	Limestone	gray-tan, medium-grained, fragmental
1355-63	Samples missing	
1363-70	Limestone	gray-tan, medium-grained, fragmental
1370-82	Samples missing	
1382-90	Dolomite	cream, fine-grained, cherty
1390-1405	Limestone	cream and tan, fine- to medium-grained, cherty
1405-10	Limestone	gray and gray-tan, fine-grained, dolomitic
1410-18	Samples missing	
1418-30	Limestone	gray and tan, fine-grained
1430-40	Dolomite	tan, fine-grained, dolomitic
1440-55	Limestone	gray, fine-grained, dolomitic
1455-72	Dolomite	gray, fine-grained, limy
1472-87	Samples missing	
1487-94	Limestone	gray and tan, medium-grained, fragmental
1494-1500	Sandstone	gray, fine- to medium-grained, subangular, limy
1500-10	Limestone	gray, medium-grained, sandy— <i>minor amount of intergranular white sulfate</i>
1510-20	Samples missing	
1520-25	Sandstone	gray, fine-grained, subangular, dolomitic— <i>minor amount of sulfate, white</i> —minor amount of chert
1525-30	Sandstone	gray, fine-grained, subangular, dolomitic
1530-35	Sandstone	gray, fine-grained, subangular, dolomitic— <i>minor amount of intergranular white sulfate</i>
1535-49	Sandstone	gray, fine-grained, subangular, dolomitic—trace of reddish mineral
1549-59	Sandstone	gray, fine-grained, subangular, dolomitic
1559-70	Dolomite	gray, fine-grained, silty, cherty
1570-1602	Siltstone	dark-gray, dolomitic
1602-05	Dolomite	gray, fine-grained, very cherty
1605-14	Dolomite	gray, fine-grained, very cherty— <i>minor amount of sulfate, white</i>
1614-27	Silicestone	gray, medium-grained, cherty, dolomitic
1627-41	Silicestone	gray, medium-grained, cherty, limy
1641-75	Silicestone	gray, fine-grained, cherty, dolomitic
1675-87	Silicestone	gray, fine-grained, cherty, limy
1687-1706	Silicestone	gray, fine-grained, cherty, dolomitic

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	657	892
	(first sample)	
MISSISSIPPIAN .....	892	1706
		(last sample)
Pennington Formation .....	892	1065
Bangor Limestone .....	1065	1180
Hartselle Formation .....		
Monteagle Limestone .....	1180	1382
St. Louis Limestone .....	1382	1472
Warsaw Formation .....	1472	
Fort Payne Formation .....		1706
		(last sample)

MAP NUMBER—68  
Clock Oil Co., H. F. Cooper No. 2

CARTER COORD.: NW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 5, 1S-60E      ELEVATION: 1530 (T)  
 DATE: 1944      TOTAL DEPTH: 1810  
 SAMPLE SET: No. 335  
 PRODUCTION: Gas  
 REMARKS: Now abandoned. Gas pay reported @ 1350.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	3
Sand rock .....	3	35
Sand .....	35	50
White, hard sand .....	50	84
White sand .....	84	136
Brown sand .....	136	145
Brown shale .....	145	160
Shale and shells .....	160	200
Brown shale .....	200	291
Hard, brown shale .....	291	310
Sand .....	310	375
White sand .....	375	390
Coal .....	390	393
White sand .....	393	403
Sand .....	403	429
Hard, white sand .....	429	456
Sand .....	456	480
Sandy shale .....	480	484
Sandy brown shale .....	484	489
Blue shale .....	489	496
Brown, hard sand .....	496	512

<i>Lithology</i>	<i>From</i>	<i>To</i>
Blue sand .....	512	537
Blue, hard sand .....	537	563
Sandy shale .....	563	567
Black slate .....	567	572
Black sand .....	572	592
Gray, hard lime .....	592	596
Sandy mud and gray, hard lime .....	596	600
Black sand .....	600	622
Gray lime .....	622	651
Black sand .....	651	665
Sandy shale .....	665	722
Sandy brown shale .....	722	740
Hard, gray lime .....	740	755
Brown shale .....	755	784
Sandy shale .....	784	800
Gray lime .....	800	825
Lime .....	825	838
Sandy shale .....	838	850
Lime .....	850	855
Gray, soft sand .....	855	858
Brown shale .....	858	871
Gray, soft shale .....	871	876
Red rock, hard .....	876	895
Red rock and shells .....	895	953
Hard, sandy lime .....	953	957
Little gas		
Red rock and green shale .....	957	962
Green shale .....	962	975
Red rock and shells .....	975	1015
Gray shale .....	1015	1030
Gray lime, very hard .....	1030	1034
Blue shale, soft .....	1034	1039
Broken shale and lime .....	1039	1041
Gray lime .....	1041	1055
Brown lime .....	1055	1067
Blue shale, soft .....	1067	1076
Brown, hard lime .....	1076	1090
Gray lime .....	1090	1111
Medium-hard lime .....	1111	1123
Gray lime .....	1123	1138
Gas, plenty, @ 1123-1125		
Gray, hard lime .....	1138	1153
Brown lime .....	1153	1178
Gas 1172-1175		
Blue, soft shale .....	1178	1182
Brown, lime, hard .....	1182	1194
Gray lime .....	1194	1217
Gray, hard lime .....	1217	1231

<i>Lithology</i>	<i>From</i>	<i>To</i>
Gray lime .....	1231	1247
Increase gas 1245-1247		
Gray lime (caving) .....	1247	1258
Gray lime .....	1258	1273
Gray, hard lime .....	1273	1281
Dark-brown lime .....	1281	1285
Gray, hard lime .....	1285	1290
Brown lime, hard .....	1290	1310
Very hard brown lime .....	1310	1322
Gray lime .....	1322	1338
Gray lime, very hard .....	1338	1341
Pink lime, very hard .....	1341	1350
Big gas 1350		
Gray lime .....	1350	1450
Broken lime, hard, and shale .....	1450	1452
Gray, hard lime .....	1452	1462
Gray lime .....	1462	1480
Very hard, dark, broken, sandy lime .....	1480	1487
Brown, sandy lime .....	1487	1495
Increase of gas .....	1495	1498
Hard, sandy lime .....	1498	1503
Sandy lime .....	1503	1512
Sandy lime, hard .....	1512	1518
Brown lime .....	1518	1525
Red, sandy shale .....	1525	1526
Red mud .....	1526	1528
Brown lime, hard .....	1528	1532
Brown sand		
Increase in gas		
Hard sand .....	1532	1539
Brown, hard sand .....	1539	1552
Brown sand .....	1552	1559
Hard, sandy lime .....	1559	1565
Sandy shale .....	1565	1570
Sandy shale, soft, dark .....	1570	1576
Black lime, hard .....	1576	1579
Brown, sandy shale .....	1579	1589
Black, sandy shale .....	1589	1614
Black, sandy shale, sharp .....	1614	1615
Gray lime, hard .....	1615	1621
Gray lime .....	1621	1632
Very hard gray lime .....	1632	1642
Gray lime .....	1642	1648
Hard, gray lime .....	1648	1653
Light, sandy lime, hard .....	1653	1654
Sandy lime .....	1654	1659
Brown, sandy lime, hard .....	1659	1661
Sandy lime .....	1661	1665
Gray lime .....	1665	1668

<i>Lithology</i>	<i>From</i>	<i>To</i>
Gray lime, soft .....	1668	1677
Brown, sandy lime .....	1677	1680
Gray lime .....	1680	1682
Gray, sandy lime, hard .....	1682	1687
Light sand, hard .....	1687	1689
Brown sand .....	1689	1692
Gray sand, hard .....	1692	1695
Gray, sandy, hard lime .....	1695	1698
Sandy lime .....	1698	1701
Sandy lime, light-brown .....	1701	1704
Gray lime .....	1704	1706
Fine, sandy lime, gray, hard .....	1706	1708
Flinty lime .....	1708	1709
Sandy lime .....	1709	1713
Sandy lime, gray, hard .....	1713	1716
Sandy lime, brown .....	1716	1719
Dark, sandy lime .....	1719	1721
Gray, sandy lime .....	1721	1723
Gray, sandy lime, hard .....	1723	1731
Gray lime .....	1731	1735
Green shale .....	1735	1738
Black shale .....	1738	1745
Black shale, sandy .....	1745	1786
Gray, sandy shale .....	1786	1795
Brown, sandy shale .....	1795	1800
Gray, sandy lime .....	1800	1810

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	3	858
MISSISSIPPIAN .....	858	
Pennington Formation .....	858	
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1738
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1738	1786
ORDOVICIAN .....	1786	1810

(last record)

#### SAMPLE DESCRIPTION

500-61	Sandstone	light-gray, fine- to medium-grained, subangular
561-70	Sandstone	gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly
570-80	Siltstone	dark-gray, shaly



580-92	Sandstone	light-gray, fine-grained, subangular, sideritic
592-96	Sandstone	light-gray, fine-grained, subangular
596-600	Sandstone	light-gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly
600-10	Siltstone	dark-gray, shaly—minor amount of sandstone, light-gray, fine-grained, subangular
610-16	Sandstone	gray, fine-grained, subangular, slightly shaly
616-26	Sandstone	gray and dark-gray, fine-grained, subangular, shaly
626-51	Sandstone	gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly
651-60	Sandstone	dark-gray, fine-grained, subangular, shaly
660-80	Sandstone	dark-gray, fine-grained, subangular, shaly—minor amount of siltstone, dark-gray, shaly
680-90	Sandstone	dark-gray, fine-grained, subangular, shaly
690-700	Siltstone	dark-gray, shaly—minor amount of sandstone, gray, fine-grained, subangular
700-12	Siltstone	dark-gray, shaly
712-41	Shale	dark-gray, silty
741-84	Siltstone	dark-gray, shaly
784-801	Shale	dark-gray, silty
801-11	Shale	dark-gray, <i>coaly</i> —minor amount of sandstone, light-gray, fine-grained, subangular
811-15	Shale	dark-gray, silty—minor amount of sandstone, light-gray, fine-grained, subangular
815-21	Sandstone	light-gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly
821-32	Sandstone	gray, fine-grained, subangular—minor amount of shale, dark-gray—minor amount of siltstone, dark-gray, shaly
832-52	Sandstone	gray, fine-grained, subangular, shaly
852-59	Sandstone	gray, fine-grained, subangular, shaly—minor amount of siltstone, dark-gray, shaly
859-67	Shale	green and gray—minor amount of siltstone, dark-gray, shaly
867-76	Siltstone	gray, green and maroon
876-90	Siltstone	gray, green and maroon, dolomitic
890-95	Siltstone	gray and green—minor amount of siltstone, maroon, dolomitic
895-904	Siltstone	gray and green and maroon
904-21	Siltstone	gray and green and maroon, dolomitic
921-29	Shale	maroon—minor amount of siltstone, gray, green
929-42	Shale	maroon—minor amount of sandstone, gray, fine-grained, subangular
942-53	Shale	maroon and gray
953-59	Shale	maroon—minor amount of siltstone, gray, dolomitic
959-75	Shale	gray
975-83	Shale	gray and green
983-92	Shale	gray, maroon and green
992-1000	Shale	maroon and green, dolomitic
1000-09	Shale	maroon, gray and green
1009-25	Siltstone	maroon, gray and green

1025-35	Siltstone	gray and maroon
1035-40	Siltstone	light-gray, dolomitic
1040-49	Dolomite	white, fine-grained
1049-57	Dolomite	white and light-gray, fine-grained—minor amount of shale, dark-gray
1057-64	Dolomite	gray, fine-grained, silty
1064-75	Dolomite	gray, fine-grained, silty—minor amount of siltstone, gray shaly
1075-90	Limestone	light-gray and brown, medium-grained, fragmental
1090-1100	Limestone	gray-brown, fine-grained, dolomitic
1100-11	Limestone	gray and tan, medium-grained, oolitic
1111-15	Limestone	gray-tan, fine- to medium-grained
1115-25	Limestone	gray-brown, medium-grained, oolitic
1125-28	Limestone	gray-brown, medium-grained
1128-31	Limestone	cream and tan, medium-grained, oolitic
1131-38	Limestone	cream and tan, medium-grained, fragmental
1138-49	Limestone	cream and brown, medium-grained, fragmental
1149-63	Limestone	brown, medium-grained, dolomitic, fragmental
1163-72	Limestone	cream and brown, medium-grained, fragmental
1172-1209	Limestone	cream and tan, medium-grained, fragmental
1209-17	Limestone	cream and tan, medium-grained, fragmental, oolitic, <i>slight show of oil</i>
1217-25	Limestone	cream and tan, medium-grained, fragmental
1225-31	Limestone	cream and tan, medium-grained, fragmental, oolitic, <i>show of oil</i>
1231-39	Limestone	cream and tan, medium-grained, fragmental, slightly oolitic
1239-47	Limestone	cream and tan, medium-grained, fragmental, oolitic
1247-58	Limestone	cream and tan, fine- to medium-grained, fragmental
1258-73	Limestone	cream and tan, fine- to medium-grained, fragmental, slightly oolitic
1273-81	Dolomite	tan, fine-grained—minor amount of limestone, cream and tan, fine- to medium-grained, fragmental
1281-90	Dolomite	tan, fine-grained—minor amount of limestone, cream and tan, fine- to medium-grained, fragmental, <i>slight show of oil</i>
1290-1300	Limestone	cream and tan, medium-grained—minor amount of dolo- mite, tan, fine-grained
1300-10	Limestone	cream and tan, medium-grained, slightly oolitic
1310-22	Limestone	tan, fine-grained
1322-38	Limestone	cream and tan, medium-grained, oolitic
1338-50	Samples missing	
1350-60	Limestone	cream and tan, medium-grained, oolitic
1360-1400	Limestone	cream, medium-grained, oolitic
1400-10	Limestone	cream and gray, fine- to medium-grained
1410-18	Limestone	cream and gray, fine- to medium-grained, slightly cherty
1418-28	Limestone	tan, fine-grained, cherty
1428-31	Samples missing	
1431-40	Dolomite	gray-tan, fine-grained
1440-50	Limestone	gray and tan, fine- to medium-grained, dolomitic

1450-62	Limestone	brown, medium-grained, dolomitic—minor amount of shale, green
1462-70	Dolomite	tan, fine-grained, limy
1470-77	Limestone	tan and yellow, medium- to coarse-grained, fragmental, trace of sulfate
1477-87	Dolomite	gray-tan, fine-grained, sandy
1487-1518	Sandstone	gray, fine-grained, subangular, dolomitic
1518-26	Sandstone	gray, fine-grained, subangular, dolomitic—minor amount of siltstone, dark-gray, dolomitic
1526-30	Dolomite	gray, fine-grained, silty, cherty (pink)
1530-39	Sandstone	gray, fine-grained, subangular, dolomitic, trace of sulfate
1539-57	Sandstone	gray, fine-grained, subangular, dolomitic
1557-60	Sandstone	gray, fine-grained, subangular, dolomitic, trace of red mineral
1560-64	Sandstone	gray, fine-grained, subangular, dolomitic, trace of pink chert, trace of red mineral
1564-70	Siltstone	dark-gray, dolomitic, trace of red mineral
1570-84	Siltstone	dark-gray, dolomitic, cherty (pink)
1584-89	Siltstone	dark-gray, dolomitic, cherty, trace of sulfate
1589-97	Siltstone	dark-gray, dolomitic, trace of sulfate
1597-1614	Siltstone	dark-gray, dolomitic
1614-21	Limestone	white and gray, fine- to medium-grained, silty, cherty
1621-42	Silicestone	gray, limy, cherty
1642-47	Samples missing	
1647-1708	Silicestone	gray, limy, cherty
1708-13	Silicestone	gray, limy, cherty, trace of sulfate
1713-23	Silicestone	gray, limy, cherty
1723-31	Silicestone	gray, dolomitic, limy, cherty
1731-38	Siltstone	gray and green
1738-86	Shale	black, brown streak
1786-96	Siltstone	gray-green, dolomitic
1796-1800	Shale	black, brown streak—minor amount of siltstone, gray-green, dolomitic
1800-10	Siltstone	gray, dolomitic

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	500	858
	(first sample)	
MISSISSIPPIAN .....	858	
Pennington Formation .....	858	1075
Bangor Limestone .....	1075	1172
Hartselle Formation .....		
Monteagle Limestone .....	1172	1400
St. Louis Limestone .....	1400	1470
Warsaw Formation .....	1470	
Fort Payne Formation .....		1738
DEVONIAN AND MISSISSIPPIAN .....		
Chattanooga Shale .....	1738	1786
ORDOVICIAN .....	1786	1810
		(last sample)

**MAP NUMBER—69**  
**Clock Oil Co., H. F. Cooper No. 1**

CARTER COORD.: NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 5, 1S-60E      ELEVATION: 1565 (T)  
 DATE: 1943      TOTAL DEPTH: 1756  
 SAMPLE SET: No. 329  
 PRODUCTION: Gas

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil and shells, dark, soft .....	0	12
Sandstone, light, medium-soft .....	12	135
Hole full water		
Shale, blue, soft .....	135	190
Sand shell, gray, hard .....	190	210
Shale, blue, soft .....	210	298
Sand, light, medium-soft .....	298	361
Shale, blue, soft .....	361	367
Sand, light, medium-soft .....	367	377
Sand shells and shale, dark, medium-soft .....	377	388
Sand, light, hard .....	388	410
Sand, light, medium-soft .....	410	470
Sand, light, hard .....	470	485
Coal and shale, dark, soft .....	485	492
Sand, light, medium-soft .....	492	578
Shale, blue, soft .....	578	583
Shaly lime, dark, medium-soft .....	583	637
Shale and shells, dark, medium-soft .....	637	758
Lime, gray, hard .....	758	769
Shale, blue, soft .....	769	774
Lime, gray, hard .....	774	793
Shale and shells, dark, medium-soft .....	793	800
Shale, blue, soft .....	800	825
Shale and shells, dark, medium-soft .....	825	841
Lime, gray, hard .....	841	865
Very good show of gas from 845-865, with trace of salt water		
Shale, blue, soft .....	865	869
Lime, gray, hard .....	869	888
Shale, blue, soft .....	888	895
Red rock and shells, medium-soft .....	895	925
Lime, gray, hard .....	925	933
Red rock and shells, medium-soft .....	933	971
Shale and shells, dark, medium-soft .....	971	988
Shale, blue, soft .....	988	1003
Shale and shells, dark, medium-soft .....	1003	1010
Red rock and shells, medium-soft .....	1010	1030
Shale and shells, dark, medium-soft .....	1030	1060
Lime, gray, hard .....	1060	1077

<i>Lithology</i>	<i>From</i>	<i>To</i>
Shale, blue, soft (very soft—bad cave) .....	1077	1106
Lime, gray, hard .....	1106	1200
Shale, green, soft .....	1200	1205
Lime, gray, hard .....	1205	1327
Lime, fine, light-gray, medium-hard .....	1327	1350
Very good show of rich smelling gas with small trace of oil from 1330-1333		
Lime, brownish-gray, medium-hard .....	1350	1359
Gas increased		
Lime, light-gray, medium-hard .....	1359	1370
Increase in oil show		
Lime, dark, hard .....	1370	1375
Lime, light-gray, hard .....	1375	1414
Lime, dark, hard .....	1414	1456
Trace of oil 1419-1443		
Increase in gas 1440-1443		
Lime, red to brown, medium-soft .....	1456	1460
Lime, sharp, dark, hard .....	1460	1540
Increase in gas @ 1503		
Broken lime and shale, dark, medium-soft .....	1540	1547
Lime, sharp, dark, hard .....	1547	1562
Broken lime and shale, dark, medium-soft .....	1562	1575
Lime, sharp, dark, hard .....	1575	1579
Shale, dark, very soft (bad cave) .....	1579	1585
Lime, black, hard .....	1585	1590
Shale, dark, very soft (bad cave) .....	1590	1595
Black lime and shale, dark, medium-soft .....	1595	1614
Lime, gray, hard .....	1614	1750
Approximately one million cu. ft. of gas encountered from 1623-1625		
Shale, green, soft .....	1750	1755
Shale, Chattanooga, medium-soft .....	1775	1756
Bad fishing job; left drill stem and bit in hole; plugged back to 1700. Completed for gas well.		
CASING:		
6 $\frac{5}{8}$ " @ 661		
2" tubing @ 1700		

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	12	
MISSISSIPPIAN		
Pennington Formation .....		1106
Bangor Limestone .....	1106	1200 (?)
Hartselle Formation .....	1200 (?)	1205
Monteagle Limestone .....	1205	
St. Louis Limestone		

	<i>From</i>	<i>To</i>
Warsaw Formation		
Fort Payne Formation .....		1755 (?)
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1755 (?)	1756 (last record)

SAMPLE DESCRIPTION

245-50	Siltstone	dark-gray, shaly
250-60	Shale	dark-gray—minor amount of sandstone, gray, fine-grained, subangular
260-70	Sandstone	gray and dark-gray, fine-grained, subangular
270-80	Sandstone	gray and dark-gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly
280-86	Siltstone	dark-gray, shaly
286-93	Samples missing	
293-98	Sandstone	light-gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly
298-309	Sandstone	light-gray, fine- to medium-grained, subangular
309-15	Sandstone	light-gray, fine-grained, subangular
315-20	Sandstone	light-gray, fine-grained, subangular, sideritic
320-45	Sandstone	light-gray, fine- to medium-grained, subangular
345-50	Sandstone	light-gray, medium-grained, subangular
350-55	Sandstone	light-gray, fine- to medium-grained, subangular
355-60	Sandstone	light-gray, medium-grained, subangular
360-63	Shale	dark-gray
363-68	Siltstone	dark-gray, shaly—minor amount of shale, dark-gray
368-74	Sandstone	light-gray, fine-grained, subangular
374-80	Sandstone	light- and dark-gray, fine-grained, subangular, slightly shaly
380-84	Sandstone	dark- and light-gray, fine-grained, subangular, shaly
384-90	Sandstone	light- and dark-gray, fine-grained, subangular, slightly shaly
390-95	Sandstone	light-gray, fine-grained, subangular, sideritic
395-436	Sandstone	light-gray, fine-grained, subangular
436-56	Sandstone	light-gray, fine- to medium-grained, subangular
456-63	Sandstone	gray, medium-grained, subangular
463-85	Sandstone	light-gray, fine- to medium-grained, subangular
485-89	Sandstone	light-gray, fine- to medium-grained, subangular—minor amount of shale, dark-gray, <i>coaly</i>
489-95	Sandstone	light-gray, fine- to medium-grained, subangular—minor amount of shale, dark-gray
495-500	Sandstone	light-gray, fine-grained, subangular
500-06	Sandstone	light-gray, fine- to medium-grained, subangular
506-29	Sandstone	light-gray, fine- to medium-grained, subangular, slightly conglomeratic
529-35	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
535-40	Sandstone	light-gray, fine- to medium-grained, subangular, slightly conglomeratic

540-45	Sandstone	light-gray, medium-grained, subangular
545-57	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
557-71	Sandstone	light-gray, medium-grained, subangular
571-78	Shale	gray
578-84	Sandstone	gray, fine-grained, subangular, sideritic—minor amount of shale. dark-gray—minor amount of siltstone, dark-gray
584-90	Sandstone	gray, fine-grained, subangular—minor amount of flint fire clay, brown
590-96	Sandstone	gray, fine-grained, subangular
596-605	Sandstone	gray, fine-grained, subangular—minor amount of siltstone, dark-gray
605-23	Sandstone	gray, fine-grained, subangular
623-32	Sandstone	gray, fine-grained, subangular, shaly
632-37	Siltstone	dark-gray, shaly
637-42	Siltstone	dark-gray, shaly, <i>coaly</i>
642-51	Sandstone	gray, fine-grained, subangular, very sideritic
651-61	Sandstone	gray, fine-grained, subangular
661-73	Sandstone	gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly
673-79	Siltstone	dark-gray, shaly
679-705	Sandstone	gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly
705-10	Sandstone	gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly, <i>very slight show of oil</i>
710-42	Shale	dark-gray
742-47	Siltstone	dark-gray, shaly
747-55	Shale	dark-gray
755-62	Shale	dark-gray, <i>coaly</i>
762-67	Siltstone	gray, sideritic
767-72	Shale	dark-gray, silty
772-78	Sandstone	light-gray, fine-grained, subangular, sideritic
778-88	Sandstone	light-gray, fine-grained, subangular
788-800	Sandstone	light-gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly
800-11	Siltstone	dark-gray
811-18	Shale	dark-gray, silty
818-25	Siltstone	dark-gray, shaly
825-38	Siltstone	dark-gray, shaly—minor amount of sandstone, gray, fine-grained, subangular
838-44	Siltstone	dark-gray, shaly—minor amount of sandstone, gray, fine-grained, subangular— <i>minor amount of coal</i>
844-61	Sandstone	light-gray, fine-grained, subangular
861-66	Sandstone	light-gray, fine-grained, subangular—minor amount of limestone, gray-brown, medium-grained, fragmental
866-72	Limestone	tan, fine- to medium-grained—minor amount of dolomite, gray-tan, fine-grained
872-82	Limestone	tan, fine- to medium-grained
882-86	Limestone	cream and tan, fine- to medium-grained

886-95	Siltstone	gray, green, maroon, dolomitic
895-915	Siltstone	maroon and green, dolomitic
915-20	Siltstone	maroon and green, dolomitic—minor amount of siltstone, green, micaceous
920-25	Siltstone	maroon and green, dolomitic
925-31	Siltstone	maroon and green, dolomitic—minor amount of sandstone, gray-green, fine-grained, subangular
931-38	Siltstone	maroon and green
938-45	Siltstone	maroon and green—minor amount of shale, gray, dolomitic
945-51	Siltstone	maroon and green
951-59	Shale	maroon—minor amount of siltstone, maroon and green
959-74	Siltstone	maroon and gray, dolomitic
974-83	Siltstone	gray, dolomitic
983-89	Siltstone	gray, sandy
989-94	Siltstone	gray, sandy—minor amount of shale, dark-gray
994-98	Shale	dark-gray
998-1003	Shale	dark-gray, silty
1003-20	Siltstone	maroon and gray, dolomitic
1020-26	Shale	maroon and gray
1026-33	Siltstone	maroon and green—minor amount of shale, maroon
1033-39	Siltstone	gray, dolomitic
1039-45	Siltstone	gray and maroon
1045-56	Siltstone	dark-gray, dolomitic
1056-62	Siltstone	dark-gray, dolomitic—minor amount of dolomite, light-gray, fine-grained
1062-67	Dolomite	light-gray, fine-grained
1067-74	Dolomite	gray, fine-grained, silty
1074-82	Dolomite	gray, fine-grained, silty—minor amount of shale, dark-gray
1082-90	Shale	dark-gray and maroon—Pencil Cave
1090-99	Shale	dark-gray, slightly dolomitic—Pencil Cave
1099-1108	Shale	dark-gray, slightly dolomitic—minor amount of limestone, gray-brown, cream, medium-grained, fragmental
1108-18	Limestone	gray and brown, medium-grained, fragmental—Pencil Cave float
1118-23	Siltstone	gray, dolomitic
1123-30	Limestone	tan, fine-grained
1130-36	Limestone	cream and tan, fine-grained
1136-48	Limestone	cream and brown, medium-grained
1148-59	Limestone	cream and brown, medium-grained, fragmental
1159-75	Limestone	cream and brown, medium-grained, very fragmental
1175-80	Limestone	white and gray-brown, medium-grained, fragmental, mottled
1180-85	Limestone	gray-brown, medium-grained
1185-91	Limestone	cream and brown, medium-grained
1191-97	Limestone	gray-tan, fine-grained
1197-1202	Siltstone	gray, dolomitic—minor amount of sandstone, gray, fine-grained, dolomitic
1202-05	Shale	gray, green, maroon, dolomitic
1205-29	Limestone	cream and tan, medium-grained
1229-35	Samples missing	



1235-55	Limestone	cream and tan, medium-grained
1255-61	Limestone	tan, fine-grained
1261-67	Limestone	tan, fine-grained, slightly oolitic
1267-78	Limestone	cream and tan, medium-grained, slightly oolitic
1278-81	Limestone	cream, medium-grained, slightly oolitic
1281-87	Limestone	cream, fine-grained
1287-93	Limestone	cream, medium-grained, slightly oolitic
1293-98	Limestone	cream, medium-grained, oolitic
1298-1302	Samples missing	
1302-05	Limestone	cream and tan, medium-grained
1305-07	Limestone	cream and tan, medium-grained, oolitic
1307-21	Limestone	tan, fine- to medium-grained
1321-46	Limestone	cream, medium-grained, oolitic
1346-52	Limestone	cream, medium-grained, oolitic—minor amount of limestone, gray-tan, fine-grained, dolomitic
1352-58	Limestone	tan and brown, fine-grained, dolomitic
1358-60	Limestone	tan, medium-grained, fragmental, <i>show of oil</i>
1360-73	Limestone	cream, medium-grained, oolitic
1373-76	Limestone	tan, medium-grained, slightly oolitic
1376-83	Limestone	tan, medium-grained, very oolitic
1383-89	Limestone	tan, fine- to medium-grained
1389-1400	Limestone	tan, fine- to medium-grained, dolomitic
1400-05	Limestone	tan, fine- to medium-grained, dolomitic, cherty
1405-15	Limestone	cream, medium-grained
1415-19	Limestone	gray-tan, fine-grained, dolomitic
1419-25	Limestone	tan, fine-grained, dolomitic, <i>show of oil</i>
1425-32	Limestone	tan, fine-grained, dolomitic, <i>slight show of oil</i>
1432-39	Dolomite	tan, fine-grained, limy
1439-42	Dolomite	tan, fine-grained, limy, <i>show of oil</i>
1442-48	Limestone	tan, fine-grained, dolomitic
1448-52	Limestone	brown, fine-grained, dolomitic
1452-60	Limestone	brown, fine-grained, dolomitic—minor amount of siltstone, gray and maroon, dolomitic
1460-67	Dolomite	gray-tan, fine-grained
1467-75	Limestone	brown, medium-grained, dolomitic, sideritic, fragmental
1475-1515	Sandstone	tan, fine-grained, subangular, limy, dolomitic
1515-21	Siltstone	gray-brown, cherty (pink)
1521-29	Sandstone	gray-tan, fine-grained, subangular, limy, dolomitic
1529-35	Sandstone	gray-tan, fine-grained, subangular, limy, dolomitic, slightly cherty (pink)
1535-58	Sandstone	gray, fine-grained, subangular, limy, dolomitic
1558-75	Siltstone	gray, sandy, dolomitic
1575-79	Siltstone	dark-gray, dolomitic
1579-81	Shale	dark-gray, dolomitic
1581-84	Siltstone	dark-gray, dolomitic, sandy
1584-1614	Siltstone	dark-gray, dolomitic
1614-20	Siltstone	dark-gray, dolomitic, limy
1620-23	Limestone	cream and tan, medium-grained

1623-29	Limestone	cream and tan, medium-grained, vugular porosity, <i>very slight show of oil</i>
1629-35	Limestone	cream and tan, medium-grained
1635-64	Limestone	cream and gray-tan, medium-grained
1664-69	Limestone	cream and gray-tan, medium-grained, cherty
1669-75	Limestone	gray, medium-grained
1675-80	Limestone	cream and gray, medium-grained
1680-85	Silicestone	gray, limy, very cherty
1685-1702	Silicestone	cream and gray, limy, very cherty
1702-06	Silicestone	cream, dolomitic, very cherty
1706-11	Silicestone	cream, dolomitic, very cherty—minor amount of siltstone, dark-gray
1711-29	Silicestone	cream, dolomitic, very cherty
1729-43	Silicestone	gray-tan, dolomitic, limy, very cherty
1743-50	Siltstone	dark-gray, limy—minor amount of siltstone, green—minor amount of shale, black, brown streak

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	245	865
	(first sample)	
MISSISSIPPIAN .....	865	
Pennington Formation .....	865	1106
Bangor Limestone .....	1106	1197
Hartselle Formation .....	1197	1205
Monteagle Limestone .....	1205	1383
St. Louis Limestone .....	1383	1467
Warsaw Formation .....	1467	
Fort Payne Formation .....		1749
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1749	1750
		(last sample)

#### MAP NUMBER—70 Texas Mineral Land Co., H. F. Cooper No. 1

CARTER COORD.: SW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 5, 1S-60E      ELEVATION: 1540 (T)  
DATE: 1962      TOTAL DEPTH: 1686  
PRODUCTION: Dry  
REMARKS: Small show of oil and gas reported in the Ft. Payne.

**MAP NUMBER—71**  
**Texas Mineral Land Co., Thompson No. 1**

CARTER COORD.: NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 5, 1S-60E      ELEVATION: 1565 (T)  
 DATE: 1961      TOTAL DEPTH: 1705  
 PRODUCTION: Dry

**MAP NUMBER—72**  
**Clock Oil Co., H. F. Cooper No. 3**

CARTER COORD.: NE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 6, 1S-60E      ELEVATION: 1490 (T)  
 DATE: 1944      TOTAL DEPTH: 1656  
 SAMPLE SET: No. 336  
 PRODUCTION: Dry

**DRILLER'S LOG**

<i>Lithology</i>	<i>From</i>	<i>To</i>
Spudded in sand rock .....	0	20
Red sand .....	20	38
White sand .....	38	71
Blue shale; hole full of water .....	71	142
Blue shale, medium .....	142	167
Gray sand, medium .....	167	175
Blue, sandy shale, soft .....	175	185
Brown lime, hard .....	185	205
Gray sand .....	205	228
Blue, sandy shale .....	228	241
Blue, sandy shale, soft .....	241	266
Gray sand .....	266	365
Sandy shale .....	365	378
Sandy shale, hard .....	378	379
White water sand, hard .....	379	415
Sand, gray, hard .....	415	450
Sandy shale, light .....	450	457
Sandy, gray, hard .....	457	460
Sand, white, hard .....	460	497
Blue sand, hard .....	497	542
Blue shale, sandy, medium .....	542	553
Brown, sandy, hard .....	553	572
Brown shale, medium .....	572	576
Gray lime, hard .....	576	579
Muddy sand, soft .....	579	588
Sandy shale, brown, medium .....	588	600
Blue shale, soft .....	600	609
Gray lime, hard .....	609	310
Running 6" pipe @ 610		
Lime, brown, hard .....	610	630
Broken gray lime and shale .....	630	646

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sandy lime, brown, soft .....	646	675
Shale, brown, soft .....	675	679
Shale and broken lime, gray, medium .....	679	700
Red rock, broken, soft .....	700	739
Sandy shale, brown, medium .....	739	799
Sandy shale, brown, soft .....	799	815
Gray sand, hard .....	815	825
Brown, sandy shale, soft .....	825	842
Red rock .....	842	854
Brown, sandy shale, medium .....	854	860
Red rock, medium-hard .....	860	895
Red rock, soft, hole caving bad; gas. Pulled 6" pipe. Reamed hole from 606 to 626. 21' of 8" hole reamed ...	895	912
Lime, gray, hard .....	912	915
Red rock, soft .....	915	940
Lime shells, hard .....	940	973
Sandy shale, soft .....	973	987
Green shale, sandy, soft .....	987	1013
Blue shale, soft, caving, sandy .....	1013	1033
Blue mud, soft .....	1033	1036
Gray lime, hard .....	1036	1060
Blue shale, soft .....	1060	1078
Gray lime, hard .....	1078	1401
Little gas @ 1105, 1125-30 and 1338-39 Set 5" casing @ 1166		
Brown, sandy lime, hard .....	1401	1412
Gray lime, hard .....	1412	1416
Brown, sandy lime, hard .....	1416	1422
Gray lime, hard .....	1427	1430
Brown lime, hard .....	1430	1467
Brown lime, hard, broken .....	1467	1478
Brown lime, hard .....	1478	1524
Pink lime, hard, sandy .....	1524	1526
Brown lime, hard, sandy .....	1526	1571
Black lime, hard .....	1571	1605
Black shale, sandy, medium-hard .....	1605	1617
Brown, sandy lime, hard .....	1617	1630
Brown lime, hard .....	1630	1645
Gray sandy lime, hard .....	1645	1656

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	20	
MISSISSIPPIAN .....		1656
		(last record)
Pennington Formation .....		1078

	<i>From</i>	<i>To</i>
Bangor Limestone .....	1078	
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1656
		(last record)

#### SAMPLE DESCRIPTION

610-730	Siltstone	dark-gray, shaly
730-95	Samples missing	
795-800	Siltstone	dark-gray, shaly
800-15	Siltstone	gray, shaly
815-25	Siltstone	dark-gray, shaly
825-35	Sandstone	gray, fine-grained, subangular, <i>show of oil</i>
835-42	Sandstone	gray, fine-grained, subangular, <i>slight show of oil</i> —minor amount of sandstone, maroon, fine-grained, subangular, shaly
842-54	Sandstone	maroon, fine-grained, subangular, shaly—minor amount of limestone, tan, fine-grained
854-70	Siltstone	gray-green, dolomitic
870-80	Siltstone	gray-green and maroon, dolomitic
880-86	Siltstone	gray-green, dolomitic
886-918	Siltstone	gray, green and maroon
918-34	Siltstone	gray, green and maroon, dolomitic
934-68	Siltstone	gray and maroon, dolomitic
968-82	Siltstone	gray
982-91	Siltstone	gray and maroon
991-1003	Siltstone	gray
1003-21	Siltstone	gray, dolomitic
1021-33	Siltstone	gray
1033-49	Siltstone	gray—minor amount of dolomite, gray, fine-grained
1049-55	Dolomite	gray, fine-grained
1055-58	Samples missing	
1058-78	Siltstone	gray and maroon
1078-89	Limestone	dark-brown, medium-grained
1089-91	Limestone	dark-brown, medium-grained, fragmental
1091-98	Limestone	gray-brown, fine-grained
1098-1105	Limestone	cream and brown, medium-grained, fragmental, oolitic
1105-14	Limestone	cream and brown, medium-grained, fragmental, slightly oolitic
1114-19	Limestone	cream and brown, medium-grained, fragmental
1119-25	Limestone	cream and brown, medium-grained, oolitic
1125-36	Limestone	cream and brown, medium-grained, fragmental
1136-41	Limestone	cream and brown, medium-grained, fragmental, oolitic
1141-56	Limestone	gray, medium-grained, shaly
1156-66	Limestone	brown, medium-grained, fragmental, oolitic
1166-72	Samples missing	
1172-77	Limestone	tan, fine- to medium-grained, dolomitic, <i>show of oil</i>

1177-1210	Limestone	tan, fine- to medium-grained, dolomitic
1210-14	Limestone	tan, fine- to medium-grained
1214-30	Limestone	cream and tan, medium-grained
1230-45	Limestone	tan, fine-grained
1245-60	Limestone	cream and tan, fine- to medium-grained
1260-70	Limestone	cream and tan, fine- to medium-grained, fossiliferous, oolitic, <i>show of oil</i>
1270-80	Limestone	cream and tan, fine- to medium-grained, <i>show of oil</i>
1280-90	Limestone	cream and tan, medium-grained, oolitic
1290-1323	Limestone	cream and tan, medium-grained, slightly oolitic
1323-30	Limestone	cream and tan, medium-grained, dolomitic, slightly oolitic
1330-42	Limestone	cream, medium-grained, oolitic
1342-55	Limestone	cream and tan, medium-grained, slightly oolitic
1355-70	Limestone	cream and tan, medium-grained, oolitic
1370-74	Limestone	cream and tan, medium-grained, slightly oolitic
1374-78	Limestone	cream and tan, medium-grained, oolitic
1378-84	Samples missing	
1384-94	Limestone	cream and tan, fine- to medium-grained
1394-1400	Limestone	cream and tan, medium-grained, oolitic
1400-07	Limestone	cream and tan, medium-grained, cherty
1407-16	Limestone	cream and tan, fine- to medium-grained
1416-27	Limestone	gray-tan, fine-grained
1427-35	Dolomite	tan, fine-grained—minor amount of siltstone, gray, dolomitic
1435-48	Dolomite	tan, fine-grained
1448-55	Limestone	cream and tan, fine- to medium-grained, dolomitic
1455-61	Limestone	brown, medium-grained, dolomitic—minor amount of siltstone, gray-green
1461-70	Limestone	brown, medium-grained, dolomitic
1470-75	Limestone	tan, fine-grained
1475-83	Limestone	tan, fine-grained, dolomitic
1483-93	Sandstone	tan, fine-grained, subangular, limy
1493-1510	Sandstone	tan, fine-grained, subangular, limy, dolomitic
1510-15	Sandstone	tan, fine-grained, subangular, dolomitic
1515-19	Sandstone	tan, fine-grained, subangular, dolomitic, cherty (pink)
1519-24	Sandstone	gray, fine-grained, subangular, dolomitic
1524-30	Sandstone	gray, fine-grained, subangular, dolomitic, cherty (pink), <i>sulfate</i>
1530-44	Sandstone	gray, fine-grained, subangular, dolomitic
1544-54	Sandstone	gray, fine-grained, subangular, dolomitic, <i>trace of red mineral</i>
1554-71	Sandstone	gray, fine-grained, subangular, dolomitic
1571-74	Sandstone	gray, fine-grained, subangular, dolomitic, <i>trace of red mineral</i>
1574-80	Siltstone	dark-gray, dolomitic
1580-85	Siltstone	dark-gray, dolomitic, <i>trace of red mineral</i>
1585-87	Siltstone	dark-gray, dolomitic, slightly cherty
1587-1634	Siltstone	dark-gray, dolomitic
1634-44	Limestone	white and gray, medium-grained, cherty

1644-50 Silicestone gray, limy, cherty  
 1650-55 Silicestone gray, limy, very cherty

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	610	850
	(first sample)	
MISSISSIPPIAN .....	850	1655
		(last sample)
Pennington Formation .....	850	1078
Bangor Limestone .....	1078	1172
Hartselle Formation .....		
Monteagle Limestone .....	1172	1400
St. Louis Limestone .....	1400	1483
Warsaw Formation .....	1483	
Fort Payne Formation .....		1655
		(last sample)

MAP NUMBER—73  
 Russell Producing Co., Brance Keeton No. 1

CARTER COORD.: SE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 8, 1S-60E      ELEVATION: 1530 (T)  
 DATE: 1962      TOTAL DEPTH: 1701  
 SAMPLE SET: No. 705  
 PRODUCTION: Dry  
 CASING RECORD: 8 $\frac{1}{4}$ " @ 957; 6 $\frac{5}{8}$ " @ 1235

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	2
Sandy, blue, hard .....	2	53
Coal, black .....	53	54
Sand, blue, hard .....	54	97
Sand, white-gray, hard to medium .....	97	161
Slate, sand and shale, dark, medium .....	161	241
Coal .....	241	243+
Sand, gray, hard, sharp .....	243	269
Slate, sand and shale, gray-black, medium .....	269	308
Sand, gray, hard .....	308	531
Sand, shale and slate, dark, medium .....	531	557
Sand, white, hard .....	557	633
Slate, sand and shale, white and black .....	633	694
Sand, gray, medium .....	694	733
Slate, black .....	733	787
Sandy lime, dark, gray, medium-hard .....	787	833

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand, sharp, gray-brown, hard .....	833	867
Slate, sand and shale, dark, medium .....	867	893
Sand, sharp, white, gray, hard .....	893	954
Lime, brown-gray, hard .....	954	971
Red rock, green shale, medium .....	971	1060
Lime, gray, hard .....	1060	1072
Slate, blue .....	1072	1083
Lime, brown .....	1083	1094
Red rock (Pencil Cave? @ 1094) .....	1094	1129
Lime and slate, green .....	1129	1152
Lime (Big?) .....	1152	1167
Pencil Cave 1166		
Lime, brown, medium-hard .....	1167	1176
Lime and slate mud, black .....	1176	1184
Lime, gray .....	1184	1209
Lime, brown, medium .....	1209	1233
Oil show 1216-20		
Lime, gray to blue, hard .....	1233	1248
Slate and lime, blue, soft .....	1248	1253
Lime, light- to dark-gray, medium-hard .....	1253	1292
Lime, oolitic, tan, medium, green shale .....	1292	1320
Lime, light-gray, medium-hard .....	1320	1364
Lime, tan, hard .....	1364	1380
Lime, light-gray, hard .....	1380	1395
Lime, tan, hard .....	1395	1410
Lime, light-brown, medium .....	1410	1418
Oil show		
Lime, light-gray, hard .....	1418	1448
Lime, oolitic, pebbly, light-brown, hard to medium ....	1448	1465
Lime, sandy, dark-gray, hard .....	1465	1482
Lime, oolitic, light-gray, medium-hard .....	1482	1500
Lime, red-green-gray, medium .....	1500	1505
Lime, dark-gray, hard .....	1505	1560
Slate, dark, soft .....	1560	1563
Sand, green, black, hard .....	1563	1579
Chert, pink-white, hard .....	1579	1580
Lime, black, medium .....	1580	1583
Sand, dark, hard .....	1583	1595
Slate and lime, black, medium .....	1595	1600
Chert, white-pink, hard .....	1600	1601
Sand and lime, dark-gray, hard .....	1601	1676
Shale, dark to black, soft, muddy .....	1676	1701

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	2	954
MISSISSIPPIAN .....	954	
Pennington Formation .....	954	
Bangor Limestone		



	<i>From</i>	<i>To</i>
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1676
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1676	1701 (last record)

SAMPLE DESCRIPTION

954-62	Limestone	cream and tan, fine- to medium-grained
962-67	Limestone	cream and gray-tan, fine- to medium-grained
967-71	Limestone	cream and dark-brown, fine- to medium-grained
971-76	Siltstone	gray and brown, dolomitic
976-82	Siltstone	gray and maroon, dolomitic
982-87	Shale	maroon, dolomitic
987-1003	Shale	maroon, dolomitic—minor amount of siltstone, gray-green, slightly dolomitic
1003-06	Shale	maroon, dolomitic—minor amount of sandstone, light-gray, fine-grained, subangular, micaceous
1006-13	Siltstone	greenish-gray, sandy
1013-18	Sandstone	gray, fine-grained, micaceous
1018-23	Shale	maroon
1023-30	Shale	maroon—minor amount of siltstone, gray and green
1030-35	Shale	maroon and green
1035-40	Shale	maroon and gray, micaceous
1040-45	Shale	gray-brown and maroon
1045-50	Shale	maroon
1050-55	Shale	maroon—minor amount of siltstone, gray, dolomitic
1055-60	Siltstone	gray, dolomitic—minor amount of dolomite, gray, fine-grained, silty
1060-73	Dolomite	gray, fine-grained, silty
1073-80	Shale	gray, micaceous—minor amount of sandstone, gray, fine-grained, subangular
1080-86	Limestone	brown, medium-grained, fragmental
1086-91	Limestone	cream and dark-brown mottled, medium-grained, knotty, fossiliferous
1091-97	Shale	maroon—minor amount of dolomite, gray, fine-grained, silty
1097-1103	Shale	maroon
1103-11	Shale	maroon and gray—minor amount of siltstone, gray, dolomitic
1111-23	Siltstone	maroon and brown, dolomitic
1123-29	Siltstone	gray, dolomitic—minor amount of dolomite, gray, fine-grained, silty
1129-34	Siltstone	gray, dolomitic
1134-41	Siltstone	maroon and gray, dolomitic
1141-52	Siltstone	gray, dolomitic
1152-62	Dolomite	white, fine-grained

1162-67	Dolomite	white and tan, fine-grained—minor amount of shale, gray, Pencil Cave
1167-72	Dolomite	tan, fine-grained
1172-76	Sandstone	gray-brown, fine-grained, limy, micaceous
1176-81	Sandstone	gray-brown, fine-grained, micaceous
1181-86	Sandstone	gray-brown, fine-grained, micaceous, limy
1186-90	Limestone	cream and brown mottled, medium-grained, knotty
1190-95	Limestone	cream and brown mottled, medium-grained, knotty, cherty
1195-1200	Limestone	dark-brown, medium-grained, cherty
1200-05	Limestone	cream and brown mottled, medium-grained
1205-08	Limestone	gray-brown, medium-grained, silty, dolomitic
1208-13	Limestone	gray-brown, medium-grained, silty, dolomitic—minor amount of dolomite, gray, fine-grained, silty
1213-18	Limestone	gray-brown, medium-grained, silty, dolomitic
1218-31	Dolomite	tan, fine-grained, <i>show of oil</i>
1231-35	Dolomite	gray and brown, fine-grained
1235-42	Limestone	brown, medium-grained, fragmental, cherty
1242-48	Limestone	brown, medium-grained—minor amount of dolomite, gray, fine-grained
1248-53	Dolomite	gray, fine-grained, limy
1253-60	Limestone	cream and brown, medium-grained, fragmental
1260-83	Limestone	cream and brown mottled, medium-grained, fragmental
1283-86	Samples missing	
1286-92	Dolomite	gray-tan, fine-grained
1292-1305	Limestone	cream and tan, medium-grained, fragmental
1305-10	Limestone	cream and tan, medium-grained, fragmental—minor amount of dolomite, gray-tan, fine-grained
1310-15	Limestone	cream and tan, medium-grained, fragmental
1315-20	Limestone	cream and tan, medium-grained, oolitic
1320-25	Dolomite	cream, fine-grained
1325-29	Dolomite	light-gray, fine-grained
1329-39	Limestone	cream and tan, medium-grained
1339-43	Limestone	tan, medium-grained, fragmental
1343-48	Limestone	tan and brown, medium-grained, fragmental
1348-57	Limestone	cream and tan, medium-grained, fragmental
1357-62	Dolomite	tan, fine-grained—minor amount of siltstone, gray, dolo- mitic
1362-69	Limestone	tan, fine-grained, dolomitic
1369-75	Limestone	tan, fine-grained
1375-80	Limestone	tan, fine- to medium-grained
1380-84	Dolomite	cream, fine- to medium-grained, limy
1384-90	Limestone	tan, medium-grained
1390-1404	Limestone	tan, medium-grained, fragmental
1404-08	Limestone	cream, medium-grained, oolitic
1408-13	Limestone	cream and tan, medium-grained, oolitic
1413-18	Limestone	white and cream, medium-grained, oolitic, <i>slight show of oil</i>
1418-23	Limestone	cream, medium-grained, oolitic—minor amount of dolo- mite, cream, fine- to medium-grained
1423-28	Dolomite	brown, fine-grained

1428-33	Limestone	brown, fine-grained
1433-47	Limestone	tan, fine-grained
1447-57	Limestone	tan, medium-grained, oolitic
1457-61	Limestone	tan, medium-grained
1461-71	Limestone	tan, fine- to medium-grained
1471-77	Limestone	tan, medium-grained, fragmental
1477-82	Limestone	tan, medium-grained, fragmental—minor amount of limestone, brown, fine-grained, dolomitic
1482-87	Limestone	tan, medium-grained, oolitic
1487-1524	Samples missing	
1524-33	Dolomite	tan, fine-grained
1533-39	Limestone	tan, fine-grained, dolomitic
1539-43	Limestone	gray-tan, medium-grained, dolomitic
1543-52	Dolomite	gray-tan, medium-grained, limy
1552-57	Dolomite	tan, fine-grained
1557-72	Siltstone	gray and maroon, dolomitic, sandy
1572-79	Sandstone	gray-brown, fine-grained, subangular, dolomitic, limy
1579-84	Siltstone	dark-gray, limy, dolomitic—minor amount of chert, pink
1584-88	Sandstone	gray, limy, dolomitic—minor amount of chert, pink
1588-94	Sandstone	gray, limy, dolomitic
1594-98	Siltstone	dark-gray, dolomitic
1598-1601	Sandstone	gray, fine-grained, subangular, dolomitic, slightly cherty— <i>minor amount of sulfate</i>
1601-05	Sandstone	gray, fine-grained, subangular, dolomitic, slightly cherty— <i>trace of sulfate</i>
1605-33	Sandstone	gray, fine-grained, subangular, dolomitic
1633-37	Sandstone	gray, fine-grained, subangular, dolomitic, slightly cherty
1637-42	Sandstone	gray, fine-grained, subangular, <i>vug of red mineral</i>
1642-47	Sandstone	gray, fine-grained, dolomitic, subangular
1647-53	Sandstone	gray, fine-grained, subangular, dolomitic, slightly cherty, pink—minor amount of siltstone, dark-gray, dolomitic
1653-63	Siltstone	dark-gray, dolomitic
1663-65	Siltstone	dark-gray, dolomitic—minor amount of limestone, cream, medium-grained
1665-1700	Siltstone	dark-gray, dolomitic

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....		<b>954</b>
		(first sample)
MISSISSIPPIAN .....	954	1700
		(last sample)
Pennington Formation .....	954	1186
Bangor Limestone .....	1186	1233
Hartselle Formation .....	1233	1292
Monteagle Limestone .....	1292	
St. Louis Limestone .....		1557
Warsaw Formation .....	1557	
Fort Payne Formation .....		1700
		(last sample)

**MAP NUMBER—73A**  
**Texas Mineral Land Co., Airport No. 1**

CARTER COORD.: NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 15, 1S-60E ELEVATION: 1525 (T)  
 DATE: 1962 TOTAL DEPTH: 1368  
 SAMPLE SET: No. 1367  
 PRODUCTION: Dry  
 CASING RECORD: 4 $\frac{1}{2}$ " @ 1368  
 REMARKS: Oil show reported at unrecorded depth.

SAMPLE DESCRIPTION

185-90	Sandstone	light-gray, fine-grained, subangular—equal amount of siltstone, dark-gray, shaly
190-95	Samples missing	
195-200	Siltstone	dark-gray, shaly, sandy
200-05	Siltstone	dark-gray, sandy
205-10	Samples missing	
210-15	Siltstone	dark-gray, sandy
215-20	Samples missing	
220-40	Siltstone	dark-gray, shaly
240-50	Shale	dark-gray, silty
250-55	Samples missing	
255-75	Shale	dark-gray, silty
275-90	Sandstone	light-gray, fine-grained, shaly
290-95	Siltstone	dark-gray, sandy
295-300	Shale	dark-gray
300-05	Sandstone	gray, fine-grained, subangular, shaly
305-10	Sandstone	light-gray, fine-grained, subangular
310-15	Sandstone	light-gray, fine- to medium-grained, subangular
315-25	Siltstone	dark-gray, shaly, sandy
325-35	Sandstone	dark-gray, fine- to medium-grained, shaly, silty
335-40	Samples missing	
340-85	Sandstone	light-gray, medium-grained, subangular
385-90	Samples missing	
390-405	Sandstone	light-gray, medium-grained, subangular
405-15	Sandstone	light-gray, medium-grained, subangular—minor amount of siltstone, dark-gray, sandy
415-35	Sandstone	light-gray, fine-grained, subangular
435-45	Sandstone	dark-gray, fine-grained, subangular, silty, shaly
445-50	Siltstone	dark-gray, sandy, shaly
450-55	Siltstone	dark-gray, sandy, shaly—minor amount of sandstone, gray, fine-grained, subangular, shaly
455-60	Sandstone	light-gray, fine-grained, subangular
460-65	Siltstone	dark-gray, sandy
465-70	Sandstone	light-gray, fine-grained, subangular
470-75	Samples missing	
475-95	Sandstone	light-gray, fine-grained, subangular
495-505	Sandstone	light-gray, fine- to medium-grained, subangular
505-20	Sandstone	light-gray, fine-grained, subangular

520-30	Sandstone	light-gray, fine- to medium-grained, subangular
530-50	Samples missing	
550-55	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
555-60	Sandstone	light-gray, medium-grained, subangular
560-65	Sandstone	light-gray, fine- to medium-grained, subangular
565-70	Sandstone	light-gray, medium- to coarse-grained, subangular, conglomeratic
570-75	Sandstone	dark-gray, fine-grained, subangular, shaly
575-80	Siltstone	dark-gray, sandy, shaly
580-90	Sandstone	light-gray, fine- to medium-grained, subangular
590-95	Sandstone	light-gray, fine-grained, subangular
595-605	Sandstone	gray, fine-grained, subangular, shaly
605-10	Sandstone	gray, fine-grained, subangular, shaly—equal amount of siltstone, dark-gray, sandy
610-25	Samples missing	
625-30	Siltstone	dark-gray, sandy
630-40	Samples missing	
640-45	Siltstone	dark-gray, sandy
645-55	Samples missing	
655-60	Siltstone	dark-gray, sandy
660-65	Samples missing	
665-75	Sandstone	dark-gray, fine-grained, subangular, shaly
675-89	Siltstone	dark-gray, shaly, sandy
689-92	Samples missing	
692-98	Sandstone	dark-gray, fine-grained, subangular, shaly, silty
698-710	Siltstone	dark-gray, shaly, sandy
710-13	Samples missing	
713-19	Siltstone	dark-gray, shaly, sandy
719-22	Samples missing	
722-34	Sandstone	light-gray, fine-grained, subangular, shaly
734-37	Samples missing	
737-40	Sandstone	light-gray, fine-grained, subangular, shaly
740-43	Samples missing	
743-52	Sandstone	light-gray, fine-grained, subangular, shaly
752-55	Sandstone	light-gray, fine-grained, subangular, slightly conglomeratic
755-58	Samples missing	
758-61	Sandstone	light-gray, fine-grained, subangular
761-67	Sandstone	light-gray, fine- to medium-grained, subangular
767-79	Samples missing	
779-82	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
782-85	Samples missing	
785-98	Sandstone	light-gray, medium-grained, subangular, conglomeratic
798-804	Sandstone	light-gray, coarse-grained, subangular, conglomeratic
804-07	Sandstone	light-gray, fine- to medium-grained, conglomeratic
807-10	Samples missing	
810-13	Sandstone	light-gray, fine- to medium-grained, subangular
813-16	Sandstone	light-gray, fine- to medium-grained, subangular, shaly
816-19	Samples missing	

819-21	Sandstone	light-gray, fine-grained, subangular
821-24	Samples missing	
824-27	Siltstone	dark-gray, shaly, <i>trace of coal</i>
827-30	Siltstone	dark-gray, shaly, sandy
830-43	Shale	dark-gray, silty
843-46	Sandstone	dark-gray, fine-grained, subangular, shaly, silty
846-49	Siltstone	dark-gray, shaly, sandy
849-58	Sandstone	dark-gray, fine-grained, shaly, silty
858-61	Siltstone	dark-gray, shaly
861-64	Sandstone	light-gray, fine- to medium-grained, subangular
864-67	Sandstone	light-gray, fine-grained, subangular
867-70	Samples missing	
870-88	Sandstone	light-gray, fine-grained, subangular
888-95	Sandstone	light-gray, fine- to medium-grained, subangular
895-97	Sandstone	light-gray, fine- to medium-grained, subangular—minor amount of siltstone, dark-gray, shaly
897-900	Sandstone	light-gray, fine- to medium-grained, subangular—minor amount of siltstone, dark-gray, shaly—minor amount of shale, gray, gray-brown
900-09	Limestone	cream and tan, fine- to medium-grained
909-12	Limestone	cream and brown, fine- to medium-grained
912-15	Limestone	gray, fine-grained, dolomitic
915-18	Limestone	gray, fine-grained, dolomitic—minor amount of shale, gray and green, dolomitic
918-21	Shale	gray, green, maroon, dolomitic
921-30	Shale	green and maroon, dolomitic
930-72	Sandstone	gray-green, fine-grained, subangular, silty
972-90	Sandstone	light-gray, fine- to medium-grained, subangular
990-93	Samples missing	
993-1008	Sandstone	light-gray, fine- to medium-grained, subangular
1008-11	Sandstone	light-gray, fine- to medium-grained, subangular—minor amount of shale, dark-gray and gray
1011-20	Dolomite	gray-brown, fine-grained, silty
1020-29	Dolomite	gray-brown, fine-grained, silty—minor amount of shale, dark-gray
1029-32	Sandstone	gray, fine-grained, subangular, shaly
1032-35	Shale	dark-gray—minor amount of siltstone, dark-gray, shaly, sandy
1035-38	Dolomite	dark-gray, fine-grained, silty
1038-44	Sandstone	dark-gray, fine-grained, subangular, shaly
1044-47	Sandstone	dark-gray, fine-grained, subangular, shaly—equal amount of shale, green and gray
1047-53	Shale	green and maroon, dolomitic
1053-56	Shale	maroon, dolomitic
1056-59	Shale	maroon and green, dolomitic
1059-65	Shale	gray and maroon, dolomitic
1065-68	Siltstone	maroon and gray
1068-71	Dolomite	gray, fine-grained, silty, shaly
1071-77	Dolomite	gray, fine-grained, silty, shaly—minor amount of siltstone, maroon and gray, dolomitic

1077-80	Siltstone	dark-gray, sandy, dolomitic
1080-83	Siltstone	dark-gray, sandy, dolomitic—minor amount of shale, maroon, dolomitic
1083-89	Siltstone	dark-gray, sandy, dolomitic
1089-95	Dolomite	dark-gray, fine-grained, silty
1095-98	Dolomite	dark-gray, fine-grained, silty—equal amount of limestone, gray and dark-gray mottled, medium-grained, fragmental
1098-1104	Siltstone	dark-gray, shaly, dolomitic
1104-13	Dolomite	gray-tan, fine-grained
1113-22	Dolomite	gray, fine-grained, silty
1122-25	Shale	gray and brown, bentonitic
1125-34	Shale	gray and brown
1134-58	Limestone	gray and dark-gray mottled, medium-grained, fragmental
1158-61	Limestone	tan and brown mottled, medium-grained, fragmental
1161-64	Shale	dark-gray, bentonitic
1164-67	Limestone	gray-tan, fine- to medium-grained
1167-70	Dolomite	tan, fine-grained, <i>show of oil</i> —equal amount of limestone, tan, fine-grained, dolomitic
1170-73	Limestone	gray-tan, fine-grained
1173-76	Limestone	brown, fine- to medium-grained, dolomitic
1176-1227	Limestone	tan and brown mottled, medium-grained, fragmental
1227-30	Limestone	gray-tan, fine- to medium-grained
1230-33	Limestone	gray-brown, medium-grained—minor amount of shale, gray-brown
1233-42	Samples missing	
1242-60	Limestone	tan, medium-grained, fragmental
1260-69	Limestone	cream and tan, medium-grained, fragmental
1269-72	Limestone	cream and tan, medium-grained, oolitic
1272-75	Limestone	cream and tan, medium-grained, slightly oolitic
1275-96	Limestone	cream and tan, medium-grained
1296-1302	Limestone	cream and tan, medium-grained, oolitic
1302-05	Limestone	cream and tan, medium-grained
1305-11	Limestone	cream and tan, fine- to medium-grained
1311-14	Limestone	cream, medium-grained, oolitic
1314-17	Limestone	cream, medium-grained
1317-20	Limestone	cream and tan, fine- to medium-grained
1320-23	Limestone	cream and tan, medium-grained, slightly oolitic
1323-32	Samples missing	
1332-35	Limestone	cream and tan, fine- to medium-grained
1335-38	Limestone	gray-tan, fine- to medium-grained
1338-41	Dolomite	cream, fine-grained, limy
1341-44	Limestone	cream, medium-grained, dolomitic
1344-47	Limestone	cream, medium-grained, dolomitic—equal amount of sandstone, light-gray, fine-grained, subangular, limy

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	185	900
	(first sample)	

	<i>From</i>	<i>To</i>
MISSISSIPPIAN .....	900	1347 (last sample)
Pennington Formation .....	900	1134
Bangor Limestone .....	1134	
Hartselle Formation		
Monteagle Limestone .....		1347 (last sample)

**MAP NUMBER—74**  
**John Toomey, et al., Ridgeway Sprankle No. 1**

CARTER COORD.: SW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 23, 1S-60E      ELEVATION: 1360 (S)  
DATE: 1918      TOTAL DEPTH: 3937  
PRODUCTION: Dry  
CASING RECORD: Conductor 10 ft.; 10" @ 485; 8 $\frac{1}{4}$ " @ 1060; 6 $\frac{1}{2}$ " @ 2095

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	8
Sand rock .....	8	40
Slate, black .....	40	50
Sand rock .....	50	90
Artesian sulphur water @ 50		
Slate, black .....	90	130
Shale, black .....	130	180
Coal .....	180	181
Sand, dark .....	181	275
Slate .....	275	320
Sand rock .....	320	420
Brown rock .....	420	430
Slate .....	430	450
Sand rock .....	450	600
Slate .....	600	640
Sand rock .....	640	825
Slate and shells .....	825	905
Red rock (shale) .....	905	910
Slate .....	910	930
Red rock (shale) .....	930	1020
Slate .....	1020	1045
Hard shell .....	1045	1050
Slate .....	1050	1060
Hard shell .....	1060	1063
Red rock (shale) .....	1063	1090
Slate .....	1090	1115
Lime .....	1115	1130
Slate .....	1130	1130



<i>Lithology</i>	<i>From</i>	<i>To</i>
Lime, gray .....	1160	1790
Black shale .....	1790	1845
Lime .....	1845	1875
Slate .....	1875	1890
Lime, red .....	1890	1905
Lime, gray .....	1905	3680
Lime, blue .....	3680	3937

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	8	905
MISSISSIPPIAN .....	905	
Pennington Formation .....	905	1115
Bangor Limestone .....	1115	
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1790
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1790	1845
ORDOVICIAN .....	1845	3937

(last record)

**MAP NUMBER—75**  
**Miller & Culbertson, J. L. West No. 1**

CARTER COORD.: SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 12, 1S-61E      ELEVATION: 1310 (T)  
DATE: 1961      TOTAL DEPTH: 2021  
PRODUCTION: Dry  
CASING RECORD: 4 $\frac{1}{2}$ " @ 1900 $\pm$   
REMARKS: Oil shows reported @ 390 (small) and 1335-50. Gas show in  
the Ft. Payne.

**MAP NUMBER—76**  
**McCurdy & Co., Isaac Risdén No. 1**

CARTER COORD.: NW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 20, 2S-58E      ELEVATION: 1232 (S)  
DATE: 1922      TOTAL DEPTH: 1260  
PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil and quicksand .....	0	16
Lime, sandy .....	16	96

Set 10" @ 20

<i>Lithology</i>	<i>From</i>	<i>To</i>
Slate and shells .....	96	106
Sand .....	106	130
Slate and shells .....	130	210
Sandy shells .....	210	240
Slate .....	240	306
Sand .....	306	400
Slate and shells .....	400	450
Lime .....	450	460
Sand .....	460	470
Slate and sand .....	470	549
Red rock .....	549	564
Lime .....	564	590
Slate and sand .....	590	656
Lime .....	656	674
Set 8" @ 670		
Red rock (shale) .....	674	708
Slate .....	708	740
Lime, sandy .....	740	765
Slate .....	765	776
Lime .....	776	897
Sand .....	897	921
Lime .....	921	960
Show of gas		
Red rock .....	960	961
Lime, flinty .....	961	965
Lime .....	965	974
Sand .....	974	980
Lime .....	980	1126
Sand .....	1126	1132
Show of oil		
Lime .....	1132	1137
Sand .....	1137	1141
Lime, sandy .....	1141	1260

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	16	549
MISSISSIPPIAN .....	549	1260
		(last record)
Pennington Formation .....	549	776
Bangor Limestone .....	776	897
Hartselle Formation .....	897	921
Monteagle Limestone .....	921	
St. Louis Limestone		
Warsaw Formation .....		1260
		(last record)

**MAP NUMBER—77**  
**Kassner & Basinski, Rolman Reed No. 1**

CARTER COORD.: SE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 10, 2S-59E      ELEVATION: 1105 (T)  
 DATE: 1962      TOTAL DEPTH: 640  
 SAMPLE SET: No. 1378  
 PRODUCTION: Dry  
 CASING RECORD: Casing set @ 640.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Clay topsoil, light-yellow dirt .....	0	50
Water @ 26		
Gray sand, slate, coal, gray and black, soft; water. ....	50	60
White sand, coal and slate, white and black, soft .....	60	65
Hard drilling		
Light-gray sand and coal, soft .....	65	70
Hard drilling		
White sand and coal, soft .....	70	75
Brackish water		
White sand and coal and slate, soft .....	75	80
Water		
White sand and coal, soft .....	80	85
Large amount of water		
White sand, soft .....	85	90
Gas and brackish water		
White sand and coal, soft .....	90	95
Gas and brackish water		
Light-tan sand, and slate, soft .....	95	100
Tan sand, quartz, coal and slate, soft .....	105	110
Gas		
Tan sand and coal, soft .....	110	115
Gas		
Tan sand, quartz, soft .....	115	120
Gas and brackish water		
Tan sand and gray-black slate, soft .....	120	125
Crevice		
Gray sand, slate, soft .....	125	130
Light-tan sand, gray and black slate, quartz, soft .....	130	135
Gray sand, slate and shale, soft .....	135	140
Gas		
Tan sand, coal, slate, soft .....	140	145
Light-tan sand, slate, coal, quartz, hard .....	145	150
Hard drilling, abrasive		
Tan sand, slate, coal, quartz, hard .....	150	155
Tan sand, quartz, and iron pyrites, hard .....	160	165
Gas and brackish water		
White sand, quartz, hard .....	165	170
Oil show, salty water, salt sand		

<i>Lithology</i>	<i>From</i>	<i>To</i>
Tan sand, quartz and coal, hard .....	170	175
Salt taste to water		
Tan sand, hard .....	175	180
Light-tan sand, coal, soft .....	180	185
White sand, slate, quartz, soft .....	185	190
Water (new supply)		
Light-gray sand, soft .....	190	195
Crevice, caving; new water supply .....	195	200
Tan sand and coal, soft .....	200	210
Tan sand, coal and slate, soft .....	210	215
Tan sand, soft .....	215	220
Gas		
Tan sand and slate, soft .....	220	225
Gray and white sand and slate, soft .....	225	230
Tan sand, soft .....	230	240
Salty water		
Tan sand and shale, soft .....	240	250
Blue shale .....	250	270
Oil show @ 265-70		
Blue-black shale and tan sand, soft .....	270	275
Gas show		
Tan sand and shale, soft .....	275	280
Tan sand, bits of slate, soft .....	280	285
Tan sand, hard .....	285	290
Tan sand and slate, hard .....	290	295
Soft .....	295	300
Black slate and blue shale, soft .....	300	305
Gas show		
Blue shale and slate, soft .....	305	320
Shale, blue-gray, soft .....	320	350
Sand and shale, tan and gray, soft .....	350	355
Gray sand, slate, soft .....	355	365
Blue shale, soft .....	365	375
Tan sand, slate, coal and quartz, hard .....	375	385
Tan sand and coal, soft .....	385	395
Sand and shale, blue and tan, soft .....	395	415
Gas @ 400-415		
Shale, blue-gray, soft .....	415	420
Gas		
Sand, tan, soft (salt sand) .....	420	440
Sand, tan, soft .....	440	470
Gas sands		
Sand and shale, blue-gray, soft .....	470	495
Shale, black, soft .....	495	505
Gas		
Sand and shale, black and brown, soft and coarse .....	505	510
Gas		
Shale and sand, black and soft .....	510	515
Shale and sand, black and white, soft .....	515	520

<i>Lithology</i>	<i>From</i>	<i>To</i>
Coarse sand and coal, brown, soft .....	520	530
Sand and slate, white, soft .....	530	535
Salt water		
Sand, white and soft .....	535	560
Salt water		
Sand, white and gray, soft .....	560	570
Salt water		
Sand and coal, gray and black, medium-hard .....	570	575
Sand and coal, gray brown and black, medium-hard, coarse	575	580
Shale and sand, gray, soft; leaving sand, going into blue shale	580	585
Blue shale, soft (drilling good) .....	585	590
Blue shale and slate, blue-gray, and black, soft (drilling good)	590	595
Blue shale, soft (stones) .....	595	605
Shale, black, soft (Chattanooga Shale) .....	605	620
Slate, shale, lime and pea gravel, dark-gray, soft to hard; hole caving @ 623 .....	620	623
Oil show, yellow crude		
Light-gray shale, soft (Pencil Cave) .....	623	625
Shale and shell rock (limestones), light-gray and green, soft; lost bit, drilling passed and leaving bit .....	625	630
Red and green shale and red rock, soft; drills easy (Pencil Cave) .....	635	640

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	50	630
MISSISSIPPIAN .....	630	640
		(last record)
Pennington Formation .....	630	640
		(last record)

#### SAMPLE DESCRIPTION

49-60	Sandstone	light-gray, fine- to medium-grained, subangular
60-70	Sandstone	light-gray, medium-grained, subangular
70-75	Sandstone	light-gray, fine-grained, subangular
75-85	Sandstone	light-gray, fine- to medium-grained, subangular
85-90	Samples missing	
90-100	Sandstone	light-gray, fine- to medium-grained, subangular
100-05	Samples missing	
105-20	Sandstone	light-gray, medium-grained, subangular, conglomeratic
120-25	Sandstone	light-gray, medium-grained, subangular, conglomeratic— equal amount of sandstone, gray, fine-grained, sub- angular, shaly
125-35	Sandstone	light-gray, fine- to medium-grained, subangular, slightly conglomeratic
135-40	Sandstone	light-gray, fine- to medium-grained, subangular, conglom- eratic

140-45	Sandstone	light-gray, fine- to medium-grained, subangular, slightly conglomeratic
145-60	Sandstone	light-gray, fine- to medium-grained, subangular
160-65	Sandstone	light-gray, fine- to medium-grained, subangular, slightly conglomeratic
165-70	Sandstone	light-gray, fine- to medium-grained, subangular
170-75	Samples missing	
175-85	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
185-95	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
195-200	Samples missing	
200-05	Sandstone	light-gray, fine- to medium-grained, subangular
205-10	Samples missing	
210-15	Sandstone	light-gray, fine- to medium-grained, subangular
215-20	Sandstone	light-gray, fine- to medium-grained, subangular, conglomeratic
220-25	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
225-30	Sandstone	light-gray, medium-grained, subangular
230-35	Sandstone	light-gray, fine-grained, subangular—minor amount of siderite, brown and gray
235-50	Sandstone	light-gray, fine-grained, subangular
250-80	Siltstone	gray, sandy, shaly
280-300	Sandstone	light-gray, fine-grained, subangular
300-05	Shale	dark-gray, slightly silty
305-10	Shale	dark-gray, slightly silty—equal amount of siltstone, gray, shaly
310-30	Siltstone	dark-gray, shaly
330-35	Shale	dark-gray
335-40	Shale	dark-gray—equal amount of siltstone, dark-gray, shaly
340-50	Siltstone	gray, shaly
350-55	Siltstone	gray, shaly—equal amount of shale, dark-gray
355-60	Shale	dark-gray
360-65	Siltstone	gray, shaly
365-70	Siltstone	gray, shaly—equal amount of sandstone, light-gray, fine- to medium-grained, subangular, conglomeratic
370-75	Siltstone	gray, shaly
375-80	Samples missing	
380-85	Siltstone	gray, shaly
385-95	Sandstone	light-gray, fine-grained, subangular
395-400	Samples missing	
400-12	Sandstone	light-gray, fine-grained, subangular
412-15	Siltstone	gray, shaly
415-25	Siltstone	gray
425-40	Sandstone	light-gray, medium-grained, subangular
440-50	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
450-55	Sandstone	light-gray, medium-grained, subangular

455-75	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
475-505	Siltstone	dark-gray, shaly
505-10	Siltstone	dark-gray, shaly, <i>trace of coal</i>
510-15	Siltstone	dark-gray, shaly
515-20	Samples missing	
520-25	Sandstone	light-gray, fine-grained, subangular
525-30	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, dark-gray, silty
530-35	Sandstone	light-gray, fine-grained, subangular
535-40	Samples missing	
540-45	Siltstone	gray
545-50	Sandstone	light-gray, fine-grained, subangular
550-70	Siltstone	gray, sandy
570-80	Sandstone	light-gray, fine-grained, subangular
580-85	Sandstone	light-gray, fine- to medium-grained, subangular
585-90	Sandstone	light-gray, medium-grained, subangular
590-605	Siltstone	gray, sandy
605-10	Siltstone	dark-gray, sandy
610-15	Siltstone	gray
615-20	Siltstone	gray— <i>minor amount of coal</i>
620-25	Siltstone	gray-brown
625-30	Sandstone	gray, fine-grained, subangular
630-35	Siltstone	gray-green and maroon, dolomitic
635-38	Siltstone	gray-green, dolomitic
638-40	Siltstone	gray-green and maroon, dolomitic

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	49	630
MISSISSIPPIAN .....	630	640
		(last sample)
Pennington Formation .....	630	640
		(last sample)

MAP NUMBER—78  
Russell Producing Co., York No. 1

CARTER COORD.: SW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 18, 2S-59E      ELEVATION: 1190 (T)  
DATE: 1923      TOTAL DEPTH: 2528.5  
PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	3
Sand, white, hard .....	3	68
Big flow water @ 48		
Shale, black .....	68	83

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand, shaly .....	83	190
Sand, hard, white .....	190	215
Shale, black .....	215	235
Sand, dark .....	235	350
Shale, black .....	350	405
Coal .....	405	408
Shale, light .....	408	428
Sand, white .....	428	430
Shale, dark .....	430	438
Sand, white ("salt sand") .....	438	740
Set 8" casing @ 740		
Lime shells and shale .....	740	900
Lime, gray .....	900	980
Lime, white .....	980	1050
Gas @ 980 and 1050		
Lime, dark .....	1050	1070
Lime, white .....	1070	1400
Set 6 5/8" casing @ 1207		
Gas @ 1212		
Lime, dark .....	1400	1490
Lime, dark, sandy .....	1490	1505
Lime, white, hard, sandy .....	1505	1525
Lime, brown, hard, sandy .....	1525	1580
Black shale .....	1580	1695
Lime, sandy .....	1695	1795
Lime, light and dark, hard .....	1795	2528.5

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	3	740
MISSISSIPPIAN .....	740	
Pennington Formation .....	740	
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1580
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1580	1695 (?)
ORDOVICIAN .....	1695 (?)	2528.5
		(last record)



**MAP NUMBER—79**  
**Forest Oil Co., Rugby Land Co. No. 1**

CARTER COORD.: SW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 18, 2S-59E      ELEVATION: 1240 (T)  
 DATE: 1896      TOTAL DEPTH: 2401  
 SAMPLE SET: No. 248  
 PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Shale and clay, yellow .....	0	15
Slate, black, soft .....	15	30
Coal, black, soft .....	30	33
Slate, black, soft .....	33	48
Slate, black, hard .....	48	60
Sand, white, very hard .....	60	130
Slate, black, soft .....	130	150
Sand, gray, very hard .....	150	250
Slate, black, hard .....	250	300
Sand, white, very hard .....	300	395
Slate, soft, black .....	395	512
Show of oil and gas @ 475		
Sand, white, very hard .....	512	762
Show of tar @ 512-517		
Lime, white, hard .....	762	780
Slate, gray, soft .....	780	795
Shale, reddish-brown, soft .....	795	816
Slate, black and brown, soft .....	816	873
Lime, black, hard .....	873	878
Shale, red, soft .....	878	906
Lime, dark, hard .....	906	945
Slate, black, soft .....	945	970
Lime, dark-gray, hard .....	970	1120
Show of gas @ 1060		
Slate, dark, soft .....	1120	1140
Sand, white, hard .....	1140	1148
Lime, dark-gray, very hard .....	1148	1388
Show of dark-green oil @ 1335		
Lime, grayish-brown, hard .....	1388	1414
Sand, dark-gray and brown, hard .....	1414	1460
Lime, dark-gray, very hard .....	1460	1473
Sand, light- and dark-gray, hard .....	1473	1503
Slate, gray and black, hard .....	1503	1558
Lime, gray, flinty, very hard .....	1558	1681
Black shale .....	1681	1728
Lime, blue and gray, hard .....	1728	1798
Lime, brown, blue, gray, soft .....	1798	2117
Lime, dark-gray and brown .....	2117	2401

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	0	762
MISSISSIPPIAN .....	762	
Pennington Formation .....	762	
Bangor Limestone .....		1120
Hartselle Formation .....	1120	1148
Monteagle Limestone .....	1148	
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1681
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1681	1728
ORDOVICIAN .....	1728	2401
		(last record)

SAMPLE DESCRIPTION

1581-?	Limestone	gray and dark-brown, fine- to medium-grained, dolomitic (St. Louis?)
1715-?	Silicestone	gray, very dolomitic, very cherty (Ft. Payne)
1798-?	Siltstone	gray, very dolomitic (Richmond ?)
1840-?	Siltstone	gray, very dolomitic (Richmond ?)
1875-?	Dolomite	gray, fine-grained, silty
1897-1900	Limestone	cream and gray-brown, medium-grained, siliceous
1900-05	Dolomite	gray-brown, fine-grained, limy
1905-10	Samples missing	
1910-41	Dolomite	gray and reddish-brown, fine-grained, limy
1941-51	Dolomite	gray, fine-grained, limy
1951-?	Limestone	light- and dark-gray, medium-grained (Sunnybrook?)
2271-?	Limestone	light- and dark-gray, medium-grained (Sunnybrook?)
2271	Last sample	

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN		
MISSISSIPPIAN .....	1581	
		(first sample)
Pennington Formation		
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation		
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale		
ORDOVICIAN .....		2271
		(last sample)

**MAP NUMBER—80**  
**Ned Biffle Oil Co., Howard Baker No. 1**

CARTER COORD.: NE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 1, 2S-60E      ELEVATION: 1380 (T)  
 DATE: 1962      TOTAL DEPTH: 1716.5  
 PRODUCTION: Dry

**MAP NUMBER—81**  
**Carter Oil Co., William Todd No. 1**

CARTER COORD.: NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 2, 3S-59E      ELEVATION: 1359.2 (S)  
 DATE: ?      TOTAL DEPTH: ?  
 PRODUCTION: Dry

**MAP NUMBER—82**  
**Russell Producing Co., William Todd No. 1**

CARTER COORD.: SW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 2, 3S-59E      ELEVATION: 1260.4 (S)  
 DATE: 1917      TOTAL DEPTH: 1249  
 PRODUCTION: Oil and gas  
 REMARKS: Now abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	10
Shale .....	10	13
Coal .....	13	15
Shale .....	15	110
Set 10" @ 18		
Hole full of fresh water @ 80		
Sandstone .....	110	147
Shale .....	147	164
Sand shells and shale .....	164	245
Sandstone .....	245	368
Hard calcareous sandstone .....	368	395
Shale .....	395	462
Sand shells and shale .....	462	515
Hard sandstone .....	515	538
Shale .....	538	540
Hard white sandstone .....	540	732
Set 8" @ 662		
Black shale .....	732	736
Full of salt water @ 736		
Water-bearing sandstone .....	736	745
Hard white sandstone .....	745	833
White limestone .....	833	864
Red shale .....	864	936

<i>Lithology</i>	<i>From</i>	<i>To</i>
Thin limestone and shale .....	936	966
Red shale .....	966	1035
White shale .....	1035	1045
Limestone .....	1045	1070
Set 6½" @ 1050		
Shale .....	1070	1120
Black shale .....	1120	1123
White limestone .....	1123	1219
Oil sand .....	1219	1230
Sandy limestone .....	1230	1249

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	10	833
MISSISSIPPIAN .....	833	1249
		(last record)
Pennington Formation .....	833	
Bangor Limestone		
Hartselle Formation .....		1249
		(last record)

MAP NUMBER—83  
Russell Producing Co., William Todd No. 2

CARTER COORD.: SW¼SE¼SW¼ sec. 2, 3S-59E      ELEVATION: 1258.4 (S)  
DATE: 1917      TOTAL DEPTH: 1345  
PRODUCTION. Dry  
CASING RECORD: Wood conductor 14'; 8" @ 764; 6⅝" @ 1136  
REMARKS: Slight show of oil and gas. Abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Surface, earth .....	0	14
White sand .....	14	20
Hole full of water		
Slate, black .....	20	30
Lime, white .....	30	40
Slate, blue .....	40	45
Coal .....	45	48
Lime, blue and white .....	48	90
Lime, blue, salty, sandy .....	90	124
Lime, yellow, sandy .....	124	135
Lime, blue and gray, salty .....	135	169
Slate and lime, shell .....	169	240
Sandy, white, settling .....	240	245
Lime and slate .....	245	305
Sand, white .....	305	380

<i>Lithology</i>	<i>From</i>	<i>To</i>
Slate, blue, gray, sandy .....	380	460
Lime and slate .....	460	514
Lime, hard, sandy .....	514	540
Slate .....	540	545
Lime, hard, blue .....	545	550
Lime, gray, sandy .....	550	639
Slate .....	639	650
Sand, hard, white, and slate .....	650	784
Slate, blue and black .....	784	818
Show of gas @ 800		
Lime, white .....	818	853
Red rock (shale) .....	853	910
Lime and slate, gray, hard .....	910	964
Red rock (shale) .....	964	972
Lime shell .....	972	974
Red rock (shale) .....	974	1000
Lime and slate, white .....	1000	1128
Pencil Cave (shaly lime) .....	1128	1130
Lime, blue, salty .....	1130	1206
Lime, brown, sandy .....	1206	1210
Lime, gray, blue, hard .....	1210	1317
Smell of oil @ 1297		
Lime, brown, sandy .....	1317	1328
Oil filled up hole 38 ft. in 14 hrs.		
Lime .....	1328	1345
Plugged with 80 feet of sand pumpings, then a plug, then 80 feet more sand pumpings, then another plug.		

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	14	818
MISSISSIPPIAN .....	818	1345
		(last record)
Pennington Formation .....	818	
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone .....		1345
		(last record)

#### MAP NUMBER—84 John Toomey, et al., William Todd No. 1

CARTER COORD.: SE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 2, 3S-59E      ELEVATION: 1300 (T)  
DATE: 1918      TOTAL DEPTH: ?  
PRODUCTION: Oil and gas  
REMARKS: Initial production estimated at 12 to 15 BOPD. Well now abandoned. Oil and gas pays from unrecorded depth.

**MAP NUMBER—85**  
**Russell Producing Co., William Todd No. 3**

CARTER COORD.: NE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 2, 3S-59E      ELEVATION: 1260.4 (S)  
 DATE: 1918      TOTAL DEPTH: 1370  
 PRODUCTION: Oil and gas

**DRILLER'S LOG**

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	16
Slate and shells .....	16	70
Sand .....	70	110
Slate and shells .....	110	197
Sand .....	197	248
Slate, brown .....	248	273
Sand .....	273	311
Slate and shells .....	311	474
Coal .....	474	479
Slate and shells .....	479	512
Sand .....	512	828
Red rock (shale) .....	828	844
Slate and shells .....	844	940
Red rock (shale) .....	940	980
Slate and shells .....	980	1020
Lime .....	1020	1052
Slate and shells .....	1052	1195
Sand, gray .....	1195	1210
Lime, white .....	1210	1242
Lime, sandy .....	1242	1245
Gas		
Lime, brown .....	1245	1300
Lime, white .....	1300	1346
Lime, white, sandy .....	1346	1354
Oil		
Lime, white .....	1354	1365
Lime, gray .....	1365	1370
<b>CASING:</b>		
Wooden conductor 16'		
10" @ 164 (pulled)		
8" @ 828 (pulled)		
6 $\frac{5}{8}$ " @ 1155		

**STRATIGRAPHIC INTERPRETATION**

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	16	828

	<i>From</i>	<i>To</i>
MISSISSIPPIAN .....	828	1370 (last record)
Pennington Formation .....	828	1195
Bangor Limestone .....		1210
Hartselle Formation .....	1195	1370
Monteagle Limestone .....	1210	(last record)

**MAP NUMBER—86**  
**Fisher Oil Co., Jim McCart No. 1**

CARTER COORD.: SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 2, 3S-59E      ELEVATION: 1314.6 (S)  
DATE: 1917      TOTAL DEPTH: 1342

PRODUCTION: Oil and gas

REMARKS: Initial production 20 bbls. first 24 hrs., 30 bbls. second 24 hrs.,  
50 bbls. third 24 hrs.; 250,000 cu. ft. gas per day. Well went dry in 6  
months.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	12
Slate .....	12	110
Water @ 60		
Sandstone .....	110	160
Slate and shells .....	160	220
Set 10" casing @ 172		
Water @ 197		
Sandstone .....	220	480
Slate .....	480	500
Sandstone .....	500	540
Slate .....	540	560
Sandstone .....	560	810
Set 8 $\frac{1}{4}$ " casing @ 730		
Water @ 800		
Slate .....	810	817
Limestone .....	817	880
Red rock (shale) .....	880	955
Limestone .....	955	970
Slate .....	970	980
Red rock (shale) .....	980	1035
Slate .....	1035	1050
Limestone .....	1050	1076
Set 6 $\frac{5}{8}$ " casing @ 1068		
Slate .....	1076	1091
Limestone .....	1091	1167

<i>Lithology</i>	<i>From</i>	<i>To</i>
Slate .....	1167	1170
Limestone .....	1170	1220
Red rock (shale) .....	1220	1235
Limestone .....	1235	1275
Red rock (shale) .....	1275	1280
Limestone .....	1280	1321
Sand (sandy lime) .....	1321	1330
Oil pay		
Lime .....	1330	1342

Note: Show of gas @ 1321, continued getting stronger until it reached a volume of 250,000 cu. ft. daily. Well began spraying oil, which also kept getting stronger. Hole filled up 800 ft. with oil during first night, and then began flowing by heads about once every hour.

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	12	817
MISSISSIPPIAN .....	817	1342
		(last record)
Pennington Formation .....	817	1091
Bangor Limestone .....	1091	1220
Hartselle Formation .....	1220	1235
Monteagle Limestone .....	1235	1342
		(last record)

#### MAP NUMBER—87 Russell Producing Co., Russell Fee No. 1

CARTER COORD.: NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 2, 3S-59E      ELEVATION: 1419 (S)  
DATE: 1948      TOTAL DEPTH: 1965  
SAMPLE SET: No. 724  
PRODUCTION: Dry

#### DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	12
Slate and shells .....	12	98
18' of 10" pipe		
Coal .....	98	100
Slate and shells .....	100	205
Sand, hard .....	205	260
Slate and shells .....	260	338
Sand .....	338	432
Slate .....	432	443
Sand, white .....	443	485



<i>Lithology</i>	<i>From</i>	<i>To</i>
Slate and shell .....	485	614
Salt sand, hard-medium .....	614	901
Slate, dark .....	901	942
Limestone, sandy .....	942	948
Red rock .....	948	953
Lime shell .....	953	978
Red rock .....	978	1000
Lime shell .....	1000	1007
8¼" pipe @ 1003		
Slate and red rock .....	1007	1020
Lime shell .....	1020	1042
Slate .....	1042	1074
Red rock .....	1074	1105
Slate .....	1105	1120
Slate and shells .....	1120	1134
Lime shell, hard .....	1134	1164
Slate .....	1164	1172
Lime, brown, medium .....	1172	1208
Pencil Cave, black .....	1208	1209
Limestone, brown .....	1209	1241
Reduced hole to 6½" @ 1213		
Limestone, dark .....	1241	1267
Lime, brown, soft .....	1267	1287
Lime, green .....	1287	1289
Red rock .....	1289	1296
Lime, dark .....	1296	1308
Sand, gray .....	1308	1314
Limestone, sandy, dark .....	1314	1317
Gas (big show)		
Lime, light-brown, medium-hard .....	1317	1320
Lime, light-gray, hard .....	1320	1342
Lime, red, hard .....	1342	1348
Lime, light- and dark-gray, medium-hard .....	1348	1520
Show oil @ 1392-1395		
Gas @ 1464		
Lime, dark-gray .....	1520	1551
Lime, sandy, pink .....	1551	1561
Lime, sandy, dark-gray .....	1561	1578
Lime, sandy, red .....	1578	1582
Lime, sandy, bluish .....	1582	1593
Lime, coffee, black and white specks .....	1593	1608
Lime, dark .....	1608	1639
Lime, black, medium .....	1639	1965
Hard from 1670'		

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	12	942

	<i>From</i>	<i>To</i>
MISSISSIPPIAN .....	942	
Pennington Formation .....	942	1172 (?)
Bangor Limestone .....	1172 (?)	1289
Hartselle Formation .....	1289	1317
Monteagle Limestone .....	1317	
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation		
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale		

#### SAMPLE DESCRIPTION

1171-80	Limestone	cream and gray-tan, medium-grained, fragmental, slightly oolitic
1180-1317	Samples missing	
1317-?	Limestone	gray-tan, medium-grained, fragmental, oolitic
? -1352	Samples missing	
1352-63	Limestone	cream and tan, medium-grained, oolitic
1363-77	Limestone	gray-tan, fine-grained
1377-1407	Limestone	cream and tan, medium-grained, oolitic
1407-12	Dolomite	tan, fine-grained
1412-17	Limestone	cream and tan, medium-grained, slightly oolitic
1417-23	Limestone	cream and tan, medium-grained, oolitic
1423-26	Limestone	cream and tan, medium-grained, slightly cherty, slightly oolitic
1426-30	Limestone	tan, fine-grained, very cherty
1430-35	Limestone	cream and brown, fine-grained
1435-39	Limestone	cream and tan, fine- to medium-grained, cherty
1439-45	Limestone	cream and gray-tan, medium-grained
1445-55	Limestone	gray-tan, fine-grained, cherty, slightly dolomitic
1455-60	Limestone	cream and gray-tan, medium-grained, slightly cherty
1460-65	Limestone	light-gray and gray-brown, fine- to medium-grained, <i>show of oil</i> —minor amount of dolomite, light-gray, fine-grained
1465-71	Dolomite	light-gray, fine-grained
1471-76	Dolomite	light-gray and gray, fine-grained
1476-81	Dolomite	light gray-tan, fine-grained—minor amount of limestone, medium-grained
1481-86	Limestone	brown, fine-grained, dolomitic—minor amount of shale, dark-green
1486-92	Limestone	gray-brown and brown, fine- to medium-grained, dolomitic, siliceous—minor amount of siltstone, maroon and green, limy, dolomitic
1492-1502	Samples missing	
1502-07	Dolomite	gray-brown, fine-grained, limy
1507-24	Samples missing	
1524-30	Sandstone	brown, fine-grained, dolomitic
1530-36	Samples missing	
1536-40	Sandstone	gray, fine-grained, dolomitic

1540-1865 Samples missing  
 1865-70 Shale black, brown streak

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN		
MISSISSIPPIAN .....	1171	
	(first sample)	
Pennington Formation .....		1171
Bangor Limestone .....	1171	
Hartselle Formation .....		1317
Monteagle Limestone .....	1317	1481
St. Louis Limestone .....	1481	
Warsaw Formation		
Fort Payne Formation .....		1865
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1865	1870
		(last sample)

MAP NUMBER—88

Russell Producing Co., William Todd No. 4

CARTER COORD.: SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 2, 3S-59E      ELEVATION: 1260.6 (S)  
 DATE: 1918      TOTAL DEPTH: 1401  
 PRODUCTION: Dry  
 REMARKS: Oil show reported @ 1313. Now abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	24
Slate, blue .....	24	70
Set 10" casing @ 25		
Sand .....	70	145
Slate .....	145	230
Sand .....	230	428
Slate and shells .....	428	488
Slate and lime .....	488	526
Sand, white .....	526	800
Slate .....	800	805
Lime .....	805	830
Red rock (shale) .....	830	924
Set 8" casing @ 836		
Sand, black .....	924	930
Lime .....	930	945
Red rock (shale) .....	945	998

<i>Lithology</i>	<i>From</i>	<i>To</i>
Lime and slate .....	998	1090
Lime .....	1090	1123
Shaly lime .....	1123	1130
Lime .....	1130	1401
Set 6 $\frac{1}{8}$ " casing @ 1169		

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	24	805
MISSISSIPPIAN .....	805	1401
		(last record)
Pennington Formation .....	805	1090
Bangor Limestone .....	1090	
Hartselle Formation .....		
Monteagle Limestone .....		1401
		(last record)

MAP NUMBER—89  
Fisher Oil Co., Jim McCart No. 2

CARTER COORD.: NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 2, 3S-59E      ELEVATION: 1317.8 (S)  
DATE: 1918      TOTAL DEPTH: 1523  
PRODUCTION: Gas  
REMARKS: Now abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	16
Wooden conductor to 16'		
Lime and sand .....	16	150
Slate .....	150	180
Sand and lime .....	180	230
Lime, black .....	230	250
Sand .....	250	400
Set 10" casing @ 330		
Lime .....	400	485
Slate .....	485	550
Sand, white ("salt sand") .....	550	818
Slate and shells .....	818	845
Lime .....	845	880
Red rock (shale) .....	880	948
Set 8 $\frac{1}{4}$ " casing @ 915		
Lime .....	948	1007
Red rock (shale) .....	1007	1065
Lime .....	1065	1095

<i>Lithology</i>	<i>From</i>	<i>To</i>
Slate .....	1095	1115
Lime .....	1115	1248
Red rock (shale) .....	1248	1257
Lime .....	1257	1339
Gas @ 1270; oil show		
Lime, gray .....	1339	1437
Oil show @ 1416		
Lime, red .....	1437	1523

Note: Well showed about 1 million cu. ft. gas when drilled in, and sprayed a little oil the following night. One month later the well was deepened about 100 ft., and the gas increased to 5 or 6 million cu. ft., with 70 pounds rock pressure.

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	16	845
MISSISSIPPIAN .....	845	1523
		(last record)
Pennington Formation .....	845	1115
Bangor Limestone .....	1115	1248
Hartselle Formation .....	1248	1257
Monteagle Limestone .....	1257	
St. Louis Limestone .....		1523
		(last record)

### MAP NUMBER—90 Ohio Oil Co., Media Williams No. 1

CARTER COORD.: NW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 3, 3S-59E      ELEVATION: 1415 (S)  
DATE: 1917      TOTAL DEPTH: 1486  
PRODUCTION: Gas  
REMARKS: Initial production estimated 2 million cu. ft. gas. Now abandoned.

#### DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Surface .....	0	15
Wood conductor to 10'		
Slate and shells .....	15	75
Sand (water) .....	75	100
Hole full of water. @ 75		
Slate .....	100	105
Lime .....	105	130
Slate .....	130	145
Sand, gray, hard .....	145	160
Shale, black .....	160	180

<i>Lithology</i>	<i>From</i>	<i>To</i>
Slate, white .....	180	195
Lime (grit) .....	195	205
Slate, white .....	205	208
Lime (grit) .....	208	270
Slate, black .....	270	278
Sand, gray, very hard .....	278	415
Slate .....	415	420
Sand, white, sharp .....	420	495
Slate .....	495	505
Sand, white, hard .....	505	865
Set 8¼" casing @ 662		
Hole full of water @ 790		
Slate and shells .....	865	945
Red shale .....	945	960
Lime .....	960	980
Red shale .....	980	995
Slate, white .....	995	1008
Lime, white, hard .....	1008	1030
Slate, white .....	1030	1058
Sand, gray, hard .....	1058	1062
Red shale .....	1062	1070
Lime, hard .....	1070	1075
Red shale .....	1075	1085
Shale, white .....	1085	1120
Lime, dark, hard .....	1120	1127
Slate, dark, soft .....	1127	1131
Lime, hard .....	1131	1135
Lime, dark, slaty .....	1135	1177
Set 6½" casing @ 1153		
Lime, white, hard .....	1177	1307
Sand (sandy lime ?) .....	1307	1318
Gas		
Lime .....	1318	1486

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	15	945
MISSISSIPPIAN .....	945	1486
		(last record)
Pennington Formation .....	945	1177
Bangor Limestone .....	1177	1307
Hartselle Formation .....	1307	1318
Monteagle Limestone .....	1318	1486
		(last record)

**MAP NUMBER—91**  
**Ohio Oil Co., Media Williams No. 2**

CARTER COORD.: SW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 3, 3S-59E  
 DATE: 1917  
 PRODUCTION: Dry

ELEVATION: 1411.2 (S)  
 TOTAL DEPTH: 1515

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Surface .....	0	5
Conductor to 5'		
Slate, black .....	5	20
Slate and shells .....	20	75
Hole full of water @ 45		
Sand .....	75	90
Black slate and shells .....	90	175
Lime .....	175	220
Slate, black .....	220	260
Black slate and lime .....	260	325
Sand .....	325	500
Slate and lime .....	500	595
Sand .....	595	690
Slate and shells .....	690	710
Sand .....	710	860
Shale .....	860	880
Lime and sand .....	880	900
Set 6 $\frac{5}{8}$ " casing @ 900		
Lime .....	900	940
Red rock (shale) .....	940	955
Slate and lime .....	955	985
Red rock (shale) .....	985	1010
Lime .....	1010	1030
Slate, white .....	1030	1035
Lime .....	1035	1050
Red rock (shale) .....	1050	1065
Lime and white slate .....	1065	1115
Lime .....	1115	1145
Slate, black .....	1145	1160
Lime .....	1160	1178
Slate, white .....	1178	1180
Lime, white .....	1180	1234
Set 8 $\frac{1}{4}$ " casing @ 1187		
Slate, black .....	1234	1235
Lime, dark .....	1235	1270
Slate and lime .....	1270	1283
Red rock .....	1283	1285
Sand, gray .....	1285	1293
Slate .....	1293	1295
Lime, white .....	1295	1505
Strong puff gas @ 1310		

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	5	900
MISSISSIPPIAN .....	900	1505
		(last record)
Pennington Formation .....	900	1160
Bangor Limestone .....	1160	1270
Hartselle Formation .....	1270	1295
Monteagle Limestone .....	1295	
St. Louis Limestone .....		1505
		(last record)

**MAP NUMBER—92**  
**Diversa Producing Co., Freeman Hawn No. 1**

CARTER COORD.: SE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 3, 3S-59E      ELEVATION: 1265 (T)  
 DATE: 1960      TOTAL DEPTH: 1405  
 SAMPLE SET: No. 1187  
 PRODUCTION: Dry  
 REMARKS: Oil show reported @ 1260 (10 to 15 bbls. natural). Gas show reported @ 1072 (roared for 5 hrs., then quit).

SAMPLE DESCRIPTION

50-80	Sandstone	light-gray, fine- to medium-grained, subangular
80-90	Shale	dark-gray, silty
90-125	Shale	dark-gray
125-43	Shale	dark-gray, silty—minor amount of sandstone, gray, fine-grained, subangular
143-51	Shale	dark-gray, silty
151-71	Shale	dark-gray, silty—minor amount of sandstone, gray, fine-grained, subangular
171-96	Shale	dark-gray—minor amount of sandstone, light-gray, fine-to medium-grained, subangular
196-200	Sandstone	light-gray, fine- to medium-grained, subangular—minor amount of shale, dark-gray
200-16	Sandstone	light-gray, medium-grained, subangular—minor amount of shale, dark-gray
216-36	Sandstone	light-gray, medium-grained, subangular
236-60	Sandstone	gray, medium-grained, subangular
260-70	Sandstone	light-gray, medium-grained, subangular
270-80	Sandstone	light-gray, fine- to medium-grained, subangular, slightly conglomeratic
280-87	Sandstone	light-gray, medium- to coarse-grained, subangular, slightly conglomeratic
287-96	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic



296-302	Sandstone	light-gray, medium-grained, subangular, conglomeratic
302-08	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
308-33	Sandstone	light-gray, medium-grained, subangular, conglomeratic
333-43	Sandstone	light-gray, fine- to medium-grained, subangular, sideritic, <i>coaly</i> —minor amount of shale, dark-gray, sandy, silty
343-53	Sandstone	light-gray, fine-grained, subangular, slightly sideritic
353-60	Sandstone	light-gray, fine-grained, subangular
360-71	Sandstone	light-gray, fine-grained, subangular, <i>slightly coaly</i>
371-82	Shale	dark-gray, sandy
382-92	Siltstone	gray-brown, sandy, slightly dolomitic
392-454	Shale	dark-gray, silty
454-59	Shale	dark-gray, silty—equal amount of sandstone, light-gray, fine- to medium-grained, subangular
459-65	Sandstone	light-gray, fine- to medium-grained, subangular—minor amount of shale, dark-gray, silty
465-72	Sandstone	light-gray, medium-grained, subangular—minor amount of siltstone, brown
472-506	Sandstone	light-gray, medium- to coarse-grained, subangular, conglomeratic
506-565	Sandstone	light-gray, medium-grained, subangular
565-85	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
585-600	Sandstone	light-gray, medium- to coarse-grained, subangular, conglomeratic
600-21	Sandstone	light-gray, medium-grained, subangular, conglomeratic
621-31	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
631-43	Sandstone	gray, fine- to medium-grained, subangular
643-50	Sandstone	gray, fine- to medium-grained, subangular, slightly conglomeratic
650-55	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
655-703	Sandstone	light-gray, coarse-grained, subangular, very conglomeratic
703-40	Sandstone	light-gray, coarse-grained, subangular, very conglomeratic, slightly limy
740-51	Shale	dark-gray, silty—minor amount of sandstone, light-gray, coarse-grained, subangular, conglomeratic
751-58	Siltstone	dark-gray and maroon—minor amount of sandstone, gray, fine-grained, subangular, silty
758-67	Sandstone	gray, fine- to medium-grained, subangular—minor amount of shale, dark-gray, <i>coaly</i>
767-71	Shale	black, <i>coaly</i> —minor amount of limestone, gray-tan, fine- to medium-grained, slightly oolitic
771-83	Limestone	gray-tan, fine- to medium-grained, slightly oolitic—minor amount of shale, black, <i>coaly</i>
783-88	Limestone	gray-tan, fine-grained, dolomitic—minor amount of siltstone, gray-green, dolomitic
788-96	Siltstone	gray-green, dolomitic—minor amount of limestone, gray-tan, fine-grained, dolomitic

796-815	Shale	gray-green and maroon, dolomitic
815-26	Shale	gray-green and maroon, dolomitic—minor amount of limestone, gray, fine-grained, dolomitic, silty
826-36	Shale	gray-green and maroon, dolomitic
836-45	Shale	gray-green and maroon, dolomitic—minor amount of limestone, dark-brown, fine-grained, dolomitic, silty
845-55	Shale	gray-green and maroon, dolomitic—minor amount of siltstone, gray, dolomitic, limy
855-73	Shale	gray-green and maroon, dolomitic
873-85	Limestone	gray-tan, fine-grained, dolomitic, silty—minor amount of shale, gray-green and maroon, dolomitic
885-94	Limestone	gray-tan, fine-grained, dolomitic, silty
894-900	Shale	gray, gray-green and maroon, limy, dolomitic
900-06	Shale	gray, limy, dolomitic
906-12	Shale	gray and maroon, limy, dolomitic
912-17	Shale	gray, limy, dolomitic
917-22	Limestone	light-gray and gray-brown, medium-grained, fragmental, oolitic
922-28	Limestone	cream and gray-brown, medium-grained, fragmental, oolitic
928-35	Shale	gray, green and maroon, limy, dolomitic
935-49	Shale	maroon, limy, dolomitic
949-55	Shale	maroon and green, limy, dolomitic—minor amount of sandstone, gray, fine-grained, subangular, limy
955-61	Sandstone	light-gray, fine-grained, subangular, limy—minor amount of shale, gray and maroon, limy, dolomitic
961-81	Shale	gray and maroon, limy, dolomitic
981-91	Shale	gray and maroon, limy, dolomitic—minor amount of limestone, cream and brown, medium-grained, fragmental
991-99	Dolomite	cream, fine-grained—minor amount of shale, maroon, limy, dolomitic
999-1009	Dolomite	gray-cream, fine-grained, limy
1009-18	Shale	dark-gray—minor amount of limestone, cream and brown, medium-grained, fragmental
1018-35	Limestone	cream and gray, medium-grained, fragmental
1035-52	Limestone	cream and gray-brown, medium-grained, fragmental
1052-57	Shale	dark-gray
1057-63	Limestone	gray-tan, fine-grained
1063-64	Limestone	cream and gray-tan, medium-grained, fragmental
1064-83	Limestone	cream and gray-tan, medium-grained, oolitic, fragmental
1083-1165	Limestone	cream and gray-tan, medium-grained, fragmental
1105-11	Limestone	cream and gray-brown, medium-grained, fragmental
1111-24	Limestone	gray-brown, medium-grained, fragmental
1124-27	Limestone	cream and gray-brown splotched, medium-grained, fragmental
1127-37	Limestone	gray-brown, fine-grained
1137-43	Limestone	cream and gray-brown, fine- to medium-grained
1143-50	Limestone	gray-brown, fine- to medium-grained

1150-57	Limestone	gray-brown, fine- to medium-grained—minor amount of shale, gray and green-gray, limy
1157-67	Limestone	gray-brown, fine- to medium-grained—minor amount of shale, gray, limy
1167-77	Shale	gray-brown and gray, limy—minor amount of limestone, gray-brown, medium-grained
1177-95	Shale	gray-brown and gray, limy—minor amount of limestone, gray-brown, fine-grained
1195-1206	Limestone	cream, medium-grained, fragmental, oolitic
1206-13	Limestone	cream and gray, fine-grained
1213-18	Limestone	cream, fine- to medium-grained, fragmental
1218-26	Limestone	cream, fine- to medium-grained, fragmental, oolitic
1226-40	Limestone	cream, fine- to medium-grained, fragmental
1240-55	Limestone	gray-tan, fine-grained
1255-70	Limestone	gray-tan, fine- to medium-grained, fragmental
1270-74	Limestone	cream, medium-grained, oolitic, asphaltic, free oolites; good interoolite porosity
1274-78	Limestone	cream, medium-grained, oolitic, slightly asphaltic; fair interoolite porosity in part
1278-82	Limestone	gray-tan, fine-grained
1282-85	Limestone	gray-tan, fine- to medium-grained, fragmental
1285-1302	Limestone	gray-tan, fine-grained
1302-13	Limestone	cream and tan, medium-grained, fragmental
1313-19	Limestone	tan, fine- to medium-grained, cherty
1319-26	Limestone	gray-tan, fine- to medium-grained
1326-32	Limestone	gray-tan, fine- to medium-grained, cherty
1332-36	Limestone	cream, fine-grained, cherty, dolomitic
1336-41	Limestone	cream, fine-grained
1341-48	Limestone	gray, fine-grained
1348-55	Limestone	gray-tan, fine-grained
1355-61	Dolomite	cream, fine-grained
1361-76	Limestone	tan and gray, fine-grained, dolomitic
1376-85	Dolomite	gray-tan, fine-grained
1385-92	Limestone	gray, fine- to medium-grained—minor amount of siltstone, maroon, dolomitic

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	50	769
MISSISSIPPIAN .....	769	1392
		(last sample)
Pennington Formation .....	769	1057
Bangor Limestone .....	1057	1167
Hartselle Formation .....	1167	1195
Monteagle Limestone .....	1195	1376
St. Louis Limestone .....	1376	1392
		(last sample)

**MAP NUMBER—93**  
**Russell Producing Co., Rugby Land Co. No. 1**

CARTER COORD.: NE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 3, 3S-59E      ELEVATION: 1396.4 (S)  
 DATE: 1917      TOTAL DEPTH: 1508  
 PRODUCTION: Gas  
 REMARKS: Now abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	8
Sand .....	8	30
Sand (some water) .....	30	40
Slate .....	40	70
Sand (hole full of water) .....	70	95
Slate .....	95	135
Sand, white, soft .....	135	140
Set 10" casing @ 136.5		
Slate and lime .....	140	200
Lime, blue and white .....	200	265
Slate and lime .....	265	345
Sand .....	345	415
Slate .....	415	420
Sand, white .....	420	530
Slate .....	530	535
Coal .....	535	536
Slate and sandy lime .....	536	740
Sand, white, soft .....	740	785
Sand, white .....	785	825
Sand and slate .....	825	870
Slate, black .....	870	928
Red rock (shale) .....	928	935
Sand, gray .....	935	940
Set 8" casing @ 936		
Red rock (shale) .....	940	950
Lime .....	950	965
Slate, white .....	965	990
Lime .....	990	994
Red rock (shale) .....	994	998
Slate and lime .....	998	1063
Red rock (shale) .....	1063	1100
Lime and slate .....	1100	1157
Slate, gray, sandy, and lime .....	1157	1183
Pencil Cave (shaly lime) .....	1183	1188
Lime .....	1188	1190
Pencil Cave (shaly lime) .....	1190	1196
Lime and slate .....	1196	1282
Set 6 $\frac{5}{8}$ " casing @ 1220		
Slate, green .....	1282	1290

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand .....	1290	1308
Gas		
Sand and shell .....	1308	1310
Big gas		
Lime, gray and white .....	1310	1480
Gas @ 1328		
Oil @ 1460		
Sand, brown, soft .....	1480	1485
Lime, black .....	1485	1508

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	8	928
MISSISSIPPIAN .....	928	
Pennington Formation .....	928	1196
Bangor Limestone .....	1196	1282
Hartselle Formation .....	1282	1310
Monteagle Limestone .....	1310	1508

(last record)

MAP NUMBER—94

Russell Producing Co., Gatewood Pemberton No. 14

CARTER COORD.: NW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 3, 3S-59E      ELEVATION: 1261.5 (S)  
DATE: 1921      TOTAL DEPTH: 1376  
PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	7
Sand .....	7	100
Set 10" casing @ 19 $\frac{1}{2}$		
Slate .....	100	160
Sand .....	160	310
Slate .....	310	450
Salt sand .....	450	715
Slate .....	715	740
Lime .....	740	773
Red rock (shale) .....	773	785
Set 8" casing @ 783		
Slate .....	785	1000
Lime .....	1000	1115
Pencil Cave (caving lime) .....	1115	1125

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand .....	1125	1175
Lime .....	1175	1376
Set 6 5/8" casing @ 1200		

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	7	740
MISSISSIPPIAN .....	740	1376
		(last record)
Pennington Formation .....	740	1000
Bangor Limestone .....	1000	1115
Hartselle Formation .....	1115	1175
Monteagle Limestone .....	1175	
St. Louis Limestone .....		1376
		(last record)

MAP NUMBER—95

Russell Producing Co., Livonia Stonecipher No. 1

CARTER COORD.: NW 1/4 NE 1/4 NW 1/4 sec. 3, 3S-59E ELEVATION: 1381.2 (S)  
DATE: 1918 TOTAL DEPTH: 1454  
PRODUCTION: Oil  
REMARKS: Now abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	8
Conductor to 8'		
Slate .....	8	30
Sand, soft ( water) .....	30	35
Slate and shells .....	35	72
Set 10" casing @ 72		
Lime .....	72	81
Slate and shells .....	81	200
Lime, white .....	200	260
Slate .....	260	340
Lime .....	340	350
Lime, soft .....	350	365
Sand .....	365	475
Slate and shells .....	475	530
Lime, sandy .....	530	645
Sand, white .....	645	745
Slate .....	745	751

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand, white .....	751	800
Slate, blue .....	800	805
Sand .....	805	830
Lime .....	830	834
Slate, black .....	834	885
Pink rock (shale) .....	885	897
Slate, black .....	897	902
Red rock (shale) .....	902	933
Set 8" casing @ 933		
Sand, white, hard (lime ?) .....	933	950
Lime and shells .....	950	1143
Set 6 5/8" casing @ 1103		
Pencil Cave (caving lime) .....	1143	1150
Lime .....	1150	1193
Lime, sandy .....	1193	1450
Oil and gas @ 1430-50		
Lime, black .....	1450	1454
Note: When the well was drilled in, the hole filled up 700 to 800 feet with oil and acted as though it was going to flow. The well pumped 45 bbls. of oil and went dry.		

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	8	830
MISSISSIPPIAN .....	830	1454
		(last record)
Pennington Formation .....	830	
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone .....		1454
		(last record)

MAP NUMBER—96

Russell Producing Co., Gatewood Pemberton No. 5

CARTER COORD.: NE 1/4 SW 1/4 SW 1/4 sec. 3, 3S-59E      ELEVATION: 1284.8 (S)  
DATE: 1919      TOTAL DEPTH: 1400  
PRODUCTION: Oil  
REMARKS: Now abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	20
Set 10" @ 20		

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand and shells .....	20	120
Slate and shells .....	120	170
Slate .....	170	200
Sandy lime .....	200	230
Slate and shells .....	230	500
White sand .....	500	775
Lime and slate .....	775	785
Set 8" @ 785		
Lime .....	785	794
Red rock .....	794	859
Slate .....	859	879
Lime and red rock .....	879	920
Lime and slate .....	920	1158
White lime .....	1158	1175
Set 6 $\frac{5}{8}$ " @ 1175		
Dark lime .....	1175	1253
Oil sand (sandy lime ?) .....	1253	1261
Lime .....	1261	1365
Sandy lime .....	1365	1400

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	20	775
MISSISSIPPIAN .....	775	1400
		(last record)
Pennington Formation .....	775	
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone .....		1400
		(last record)

MAP NUMBER—97

Russell Producing Co., Gatewood Pemberton No. 13

CARTER COORD.: NE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 3, 3S-59E      ELEVATION: 1267.1 (S)

DATE: 1920

TOTAL DEPTH: 1271

PRODUCTION: Oil

REMARKS: Initial production reported as 15 BOPD.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	6
Sand .....	6	16
Lime, sandy .....	16	350
Set 10" casing @ 18		



<i>Lithology</i>	<i>From</i>	<i>To</i>
Slate and shells .....	350	455
Salt sand .....	455	705
Slate and shells .....	705	740
Sand .....	740	780
Set 3" casing @ 780		
Red rock (shale) .....	780	800
Slate and shells .....	800	1025
Lime .....	1025	1140
Slate and shells .....	1140	1200
Set 6 5/8" casing @ 1166		
Lime .....	1200	1243
Sand (sandy lime ?) .....	1243	1251
Oil		
Lime .....	1251	1271

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	6	780
MISSISSIPPIAN .....	780	1271
		(last record)
Pennington Formation .....	780	1025
Bangor Limestone .....	1025	
Hartselle Formation		
Monteagle Limestone .....		1271
		(last record)

MAP NUMBER—98  
Russell Producing Co., Rugby Land Co. No. 3

CARTER COORD.: NE 1/4 SW 1/4 NW 1/4 sec. 3, 3S-59E      ELEVATION: 1355.7 (S)  
DATE: 1922      TOTAL DEPTH: 1435  
PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	6
Slate .....	6	40
Set 10" drive pipe to 20		
Sand .....	40	45
Slate and shells .....	45	72
Lime .....	72	81
Slate and shells .....	81	222
Lime .....	222	260
Slate .....	260	340
Lime .....	340	345
Sand .....	345	475

<i>Lithology</i>	<i>From</i>	<i>To</i>
Slate and shells .....	475	530
Salt sand .....	530	830
Slate .....	830	850
Red rock (shale) .....	850	875
Set 8" casing @ 860		
Slate and shells .....	875	1050
Lime .....	1050	1100
Pencil Cave (shaly lime) .....	1100	1107
Lime .....	1107	1435
Set 6 5/8" casing @ 1190		

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	6	850
MISSISSIPPIAN .....	850	1435
		(last record)
Pennington Formation .....	850	1107
Bangor Limestone .....	1107	
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone .....		1435
		(last record)

MAP NUMBER—99  
Russell Producing Co., Gatewood Pemberton No. 4

CARTER COORD.: NE 1/4 SW 1/4 SW 1/4 sec. 3, 3S-59E      ELEVATION: 1280.7 (S)  
DATE: 1918      TOTAL DEPTH: 1268  
PRODUCTION: Oil and gas

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	20
Set 10" pipe @ 20		
Sand and slate .....	20	100
Lime and sand .....	100	150
Slate .....	150	180
Lime, sandy .....	180	210
Sand and lime .....	210	380
Slate .....	380	415
Sand, white .....	415	750
Slate .....	750	768
Set 8" casing @ 768		
Lime .....	768	780
Slate .....	780	840

<i>Lithology</i>	<i>From</i>	<i>To</i>
Red rock (shale) .....	840	860
Slate .....	860	910
Red rock (shale) .....	910	925
Slate .....	925	930
Lime .....	930	940
Slate, black .....	940	954
Lime .....	954	974
Slate .....	974	984
Lime .....	984	1015
Slate .....	1015	1030
Lime .....	1030	1070
Slate .....	1070	1100
Lime .....	1100	1124
Pencil Cave (caving lime) .....	1124	1127
Lime, brown .....	1127	1134
Slate .....	1134	1168
Lime .....	1168	1247
Sand .....	1247	1255
Oil and gas		
Lime, white .....	1255	1268
Set 6 $\frac{5}{8}$ " casing @ 1268		

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	20	768
MISSISSIPPIAN .....	768	1268
		(last record)
Pennington Formation .....	768	1030
Bangor Limestone .....	1030	1134
Hartselle Formation .....	1134	1168
Monteagle Limestone .....	1168	1268
		(last record)

**MAP NUMBER—100**  
**Russell Producing Co., Gatewood Pemberton No. 9**

CARTER COORD.: SE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 3, 3S-59E      ELEVATION: 1375.9 (S)  
DATE: 1919      TOTAL DEPTH: 1803  
PRODUCTION: Gas  
REMARKS: Now abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	21
Set 10" casing @ 21		
Slate and sand .....	21	603

<i>Lithology</i>	<i>From</i>	<i>To</i>
Salt sand .....	603	892
Set 8" casing @ 872		
Red rock (shale) .....	892	928
Lime .....	928	993
Slate .....	993	1055
Red rock (shale) .....	1055	1090
Lime .....	1090	1150
Pencil Cave (caving lime) .....	1150	1159
Lime .....	1159	1332
Set 6 5/8" casing @ 1240		
Sand (sandy lime ?) .....	1332	1340
Gas		
Lime, gray .....	1340	1602
Lime, black .....	1602	1765
Sand .....	1765	1777
Black shale .....	1777	1803

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	21	872
MISSISSIPPIAN .....	872	
Pennington Formation .....	872	
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1777
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1777	1803
		(last record)

MAP NUMBER—101  
Russell Producing Co., Gatewood Pemberton No. 1

CARTER COORD.: NW 1/4 SW 1/4 SW 1/4 sec. 3, 3S-59E      ELEVATION: 1262.5 (S)  
DATE: 1916      TOTAL DEPTH: 1244

PRODUCTION: Oil

REMARKS: Initial production reported as 10 to 20 BOPD. Now abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	3
Sand .....	3	45
Slate .....	45	150

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand .....	150	305
Slate .....	305	435
Sand .....	435	540
Slate .....	540	547
Sand .....	547	730
Set 8" casing to 552		
Slate and lime shells .....	730	775
Red rock .....	775	795
Black slate .....	795	822
Black lime .....	822	895
Red rock .....	895	908
Lime .....	908	930
Black slate .....	930	950
Set 6¼" casing to 950		
Lime .....	950	1048
White slate .....	1048	1051
Black lime .....	1051	1144
Black slate .....	1144	1147
Sand .....	1147	1155
White lime .....	1155	1238
Oil sand .....	1238	1240

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	3	730
MISSISSIPPIAN .....	730	1240
		(last record)
Pennington Formation .....	730	
Bangor Limestone .....		1144
Hartselle Formation .....	1144	1155
Monteagle Limestone .....	1155	1240
		(last record)

MAP NUMBER—102  
Russell Producing Co., Gatewood Pemberton No. 8

CARTER COORD.: SW¼NW¼SW¼ sec. 3, 3S-59E      ELEVATION: 1321.4 (S)

DATE: 1919

TOTAL DEPTH: 1305

PRODUCTION: Oil

REMARKS: Now abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	23
Set 10" casing @ 23		
Slate and sand .....	23	503

<i>Lithology</i>	<i>From</i>	<i>To</i>
Salt sand .....	503	792
Red rock (shale) .....	792	850
Set 8" casing @ 820		
Lime .....	850	910
Slate .....	910	970
Red rock (shale) .....	970	1005
Lime .....	1005	1284
6 5/8" casing @ 1195		
Sand (sandy lime ?) .....	1284	1293
Oil		
Lime .....	1293	1305

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	23	792
MISSISSIPPIAN .....	792	1305
		(last record)
Pennington Formation .....	792	
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone .....		1305
		(last record)

MAP NUMBER—103  
Russell Producing Co., Gatewood Pemberton No. 6

CARTER COORD.: NW 1/4 SW 1/4 SW 1/4 sec. 3, 3S-59E      ELEVATION: 1286.2 (S)  
DATE: 1919      TOTAL DEPTH: 1269  
PRODUCTION: Oil  
REMARKS: Now abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	16
Lime .....	16	50
Set 10" casing @ 28		
Slate .....	50	75
Sand .....	75	105
Slate .....	105	185
Sand .....	185	315
Slate .....	315	330
Sand .....	330	352
Slate .....	352	455
Sand .....	455	740
Slate .....	740	750
Set 8" casing @ 750		
Lime shell .....	750	751

<i>Lithology</i>	<i>From</i>	<i>To</i>
Slate .....	751	765
Lime .....	765	785
Red rock (shale) .....	785	830
Lime .....	830	836
Slate .....	836	871
Lime .....	871	877
Slate .....	877	887
Lime .....	887	894
Slate .....	894	910
Red rock (shale) .....	910	942
Lime .....	942	948
Slate .....	948	961
Lime .....	961	1022
Slate and cave .....	1022	1032
Lime (water) .....	1032	1145
Lime, sandy .....	1145	1170
Lime .....	1170	1251
Set 6 $\frac{5}{8}$ " casing @ 1172		
Oil sand (sandy lime ?) .....	1251	1260
Lime .....	1260	1269

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	16	765
MISSISSIPPIAN .....	765	1269
		(last record)
Pennington Formation .....	765	1032
Bangor Limestone .....	1032	1145
Hartselle Formation .....	1145	1170
Monteagle Limestone .....	1170	1269
		(last record)

MAP NUMBER—104  
Russell Producing Co., Gatewood Pemberton No. 2

CARTER COORD.: SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 4, 3S-59E      ELEVATION: 1261 (S)  
DATE: 1918      TOTAL DEPTH: 1447  
PRODUCTION: Oil  
REMARKS: Now abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	13
Sand .....	13	50
Conductor to 16'		
Slate and shells .....	50	80
Sand, hard .....	80	85

<i>Lithology</i>	<i>From</i>	<i>To</i>
Slate and shells .....	85	170
Sand, hard .....	170	305
Slate, black .....	305	415
Sand, white, close .....	415	730
Set 8" casing @ 588		
Slate .....	730	735
Lime, white .....	735	770
Red rock (shale) .....	770	780
Lime .....	780	792
Slate .....	792	856
Lime .....	856	876
Slate, black .....	876	880
Lime .....	880	896
Red rock (shale) .....	896	912
Slate and shells .....	912	963
Lime .....	963	990
Slate and shells .....	990	1129
Pencil Cave (caving lime) .....	1129	1131
Lime, white .....	1131	1227
Set 6 5/8" casing @ 1155		
Oil sand (sandy lime ?) .....	1227	1234
Lime .....	1234	1240
Slate, green .....	1240	1245
Lime .....	1245	1290
Lime, pebbly .....	1290	1297
Lime, gritty .....	1297	1447

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	13	735
MISSISSIPPIAN .....	735	1447
		(last record)
Pennington Formation .....	735	
Bangor Limestone		
Hartselle Formation .....		1142
Monteagle Limestone .....	1142	
St. Louis Limestone		
Warsaw Formation .....		1447
		(last record)

MAP NUMBER—105

Russell Producing Co., Gatewood Pemberton No. 3

CARTER COORD.: NE 1/4 SE 1/4 SE 1/4 sec. 4, 3S-59E      ELEVATION: 1274.6 (S)  
DATE: 1918      TOTAL DEPTH: 1274  
PRODUCTION: Oil and gas  
REMARKS: Oil pay reported @ 1239-49. Gas pay reported @ 1236-39. Now  
abandoned.



DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	7
Lime .....	7	40
Set 10" pipe @ 20		
Slate and shells .....	40	375
Slate .....	375	490
Sand .....	490	693
Set 8" casing @ 693		
Lime .....	693	780
Red rock (shale) .....	780	796
Slate and shells .....	796	975
Lime .....	975	1145
Pencil Cave (caving lime) .....	1145	1154
Lime .....	1154	1236
Set 6 5/8" casing @ 1167		
Gas sand (sandy lime ?) .....	1236	1239
Oil sand (sandy lime ?) .....	1239	1249
Lime .....	1249	1274

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	7	693 (?)
MISSISSIPPIAN .....	693 (?)	1274
		(last record)
Pennington Formation .....	693 (?)	
Bangor Limestone .....		1145
Hartselle Formation .....	1145	1154
Monteagle Limestone .....	1154	1274
		(last record)

MAP NUMBER—106

Russell Producing Co., Gatewood Pemberton No. 7

CARTER COORD.: SE 1/4 NE 1/4 SE 1/4 sec. 4, 3S-59E

ELEVATION: 1294.8 (S)

DATE: 1919

TOTAL DEPTH: 1286

PRODUCTION: Oil

REMARKS: Now abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	20
Set 10" casing @ 20		
Slate .....	20	110
Sand .....	110	120
Slate .....	120	165

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand .....	165	308
Slate .....	308	456
Salt sand .....	456	725
Set 8" casing @ 700		
Slate .....	725	730
Sand, soft .....	730	765
Lime .....	765	770
Sand .....	770	790
Slate .....	790	800
Red rock (shale) .....	800	825
Slate .....	825	870
Lime .....	870	910
Red rock (shale) .....	910	940
Slate .....	940	960
Lime .....	960	970
Slate .....	970	1020
Lime .....	1020	1134
Red rock (lime ?) .....	1134	1164
Lime .....	1164	1257
Set 6½" casing @ 1175		
Oil sand (sandy lime ?) .....	1257	1266
Lime .....	1266	1286

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	20	790
MISSISSIPPIAN .....	790	1286
		(last record)
Pennington Formation .....	790	
Bangor Limestone .....		1134
Hartselle Formation .....	1134	1164
Monteagle Limestone .....	1164	1286
		(last record)

MAP NUMBER—107

Russell Producing Co., Gatewood Pemberton No. 10

CARTER COORD.: NW¼NE¼SE¼ sec. 4, 3S-59E      ELEVATION: 1372 (S)  
DATE: 1920      TOTAL DEPTH: 1375  
PRODUCTION: Gas  
REMARKS: Gas pay reported @ 1335-41. Now abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	5
Slate and sand .....	5	110
Set 10" casing @ 34		

<i>Lithology</i>	<i>From</i>	<i>To</i>
Lime .....	110	165
Lime, sandy .....	165	255
Slate and shells .....	255	400
Sand .....	400	470
Slate and shells .....	470	540
Salt sand .....	540	865
Slate .....	865	910
Set 8" casing @ 870		
Lime and shells .....	910	950
Lime .....	950	985
Slate .....	985	1035
Lime .....	1035	1200
Slate .....	1200	1235
Set 6 3/8" casing @ 1230		
Lime .....	1235	1335
Sand (sandy, lime ?) .....	1335	1341
Gas		
Lime .....	1341	1375

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	5	865
MISSISSIPPIAN .....	865	1375
		(last record)
Pennington Formation .....	865	
Bangor Limestone .....		1200
Hartselle Formation .....	1200	1235
Monteagle Limestone .....	1235	1375
		(last record)

**MAP NUMBER—108**  
**Russell Producing Co., Gatewood Pemberton No. 11**

CARTER COORD.: NW 1/4 SE 1/4 SE 1/4 sec. 4, 3S-59E  
DATE: 1920  
PRODUCTION: Oil  
REMARKS: Now abandoned.

ELEVATION: 1280 (S)  
TOTAL DEPTH: 1311

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	10
Sand .....	10	60
Set 10" casing @ 17		
Slate and shells .....	60	130
Lime, sandy .....	130	290

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand .....	290	320
Slate .....	320	410
Lime .....	410	455
Salt sand .....	455	780
Set 8" casing @ 778		
Slate and shells .....	780	900
Lime .....	900	1050
Slate .....	1050	1100
Lime .....	1100	1125
Pencil Cave (caving lime) .....	1125	1135
Lime .....	1135	1238
Set 6 5/8" casing @ 1170		
Small puff gas @ 1238		
Lime, sandy .....	1238	1287
Sand (sandy lime ?) .....	1287	1291
Oil		
Lime .....	1291	1311

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	10	780
MISSISSIPPIAN .....	780	1311
		(last record)
Pennington Formation .....	780	
Bangor Limestone .....		1125
Hartselle Formation .....	1125	1135
Monteagle Limestone .....	1135	1311
		(last record)

MAP NUMBER—109  
Russell Producing Co., Gatewood Pemberton No. 12

CARTER COORD.: NW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 4, 3S-59E      ELEVATION: 1268 (S)  
DATE: 1920      TOTAL DEPTH: 1702  
PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	6
Slate and shells .....	6	90
Set 10" drive pipe @ 21		
Lime, sandy .....	90	200
Lime .....	200	250
Slate and shells .....	250	350
Lime .....	350	400
Slate .....	400	440

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand, white (salt sand) .....	440	760
Slate and shells .....	760	890
Set 8" casing @ 762		
Lime .....	890	1165
Pencil Cave (caving lime) .....	1165	1170
Lime .....	1170	1400
Set 6 $\frac{5}{8}$ " casing @ 1172		
Lime, sandy .....	1400	1420
Lime .....	1420	1603
Sand .....	1603	1621
Black shale .....	1621	1681
Lime shells .....	1681	1702

Note: All casing pulled except 80 ft. of 6 $\frac{5}{8}$ ".

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	6	760
MISSISSIPPIAN .....	760	
Pennington Formation .....	760	
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1621
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1621	1681
ORDOVICIAN .....	1681	1702

(last record)

### MAP NUMBER—109A Russell Producing Co., Gatewood Pemberton No. 15

CARTER COORD.: SE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 4, 3S-59E      ELEVATION: 1425 (T)  
DATE: 1948      TOTAL DEPTH: 1565  
SAMPLE SET: No. 460  
PRODUCTION: Dry  
REMARKS: Gas show reported @ 1250.

#### SAMPLE DESCRIPTION

200-05	Siltstone	dark-gray, shaly
205-12	Siltstone	dark-gray, shaly—minor amount of sandstone, gray, fine-grained, subangular
212-15	Sandstone	gray, fine-grained, subangular
215-20	Samples missing	

220-25	Sandstone	gray, fine-grained, shaly, subangular
225-48	Siltstone	dark-gray, shaly
248-54	Sandstone	gray, fine-grained, subangular, sideritic
254-60	Shale	gray
260-66	Shale	gray and dark-gray—minor amount of sandstone, light-gray, fine-grained, subangular
266-70	Sandstone	light-gray, fine-grained, subangular
270-80	Sandstone	light-gray, fine- to medium-grained, subangular
280-85	Sandstone	light-gray, fine-grained, subangular
285-91	Sandstone	light-gray, fine- to medium-grained, subangular
291-96	Sandstone	light-gray, fine- to medium-grained, subangular—minor amount of flint fire clay, brown
296-308	Sandstone	light-gray, fine- to medium-grained, subangular
308-28	Sandstone	light-gray, medium-grained, subangular
328-37	Sandstone	light-gray, medium-grained, subangular, conglomeratic
337-49	Sandstone	light-gray, fine-grained, subangular
349-59	Sandstone	light-gray, fine- to medium-grained, subangular
359-66	Sandstone	light-gray, fine- to medium-grained, subangular—minor amount of flint fire clay, brown
366-71	Sandstone	light-gray, fine- to medium-grained, subangular
371-74	Sandstone	light-gray, medium- to coarse-grained, subangular
374-86	Sandstone	light-gray, medium-grained subangular, conglomeratic
386-95	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
395-401	Sandstone	light-gray, medium- to coarse-grained, subangular, conglomeratic
401-06	Sandstone	light-gray, medium-grained, subangular, conglomeratic
406-11	Sandstone	light-gray, medium- to coarse-grained, subangular, conglomeratic
411-16	Sandstone	light-gray, medium- to coarse-grained, subangular, slightly conglomeratic
416-21	Sandstone	gray, fine-grained, subangular—minor amount of sandstone, dark-gray, fine-grained, subangular, shaly—minor amount of flint fire clay, brown
421-26	Sandstone	light-gray, fine-grained, subangular, sideritic—minor amount of sandstone, dark-gray, fine-grained subangular, shaly
426-31	Sandstone	light-gray, fine-grained, subangular, sideritic
431-50	Sandstone	light-gray, fine-grained, subangular
450-61	Sandstone	dark-gray, fine-grained, subangular, silty, shaly
461-98	Siltstone	dark-gray, shaly, sandy
498-502	Sandstone	dark-gray, fine-grained, subangular, shaly—minor amount of siltstone, dark-gray, shaly, sandy
502-06	Sandstone	dark-gray, fine-grained, subangular, shaly—minor amount of sandstone, light-gray, fine-grained, subangular
506-10	Sandstone	gray, fine-grained, subangular
510-15	Siltstone	dark-gray, shaly, sandy
515-36	Siltstone	dark-gray, shaly
536-42	Sandstone	dark-gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly

542-48	Sandstone	dark-gray, fine-grained, subangular
548-54	Sandstone	dark-gray, fine-grained, subangular, shaly
554-59	Sandstone	gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly
559-65	Sandstone	light-gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly
565-69	Sandstone	light-gray, fine-grained, subangular, slightly conglomeratic
569-76	Sandstone	light-gray, fine-grained, subangular
576-82	Sandstone	light-gray, fine- to medium-grained, subangular, slightly conglomeratic
582-85	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
585-90	Sandstone	light-gray, fine- to medium-grained, subangular
590-93	Sandstone	light-gray, fine- to medium-grained, subangular, slightly conglomeratic
593-604	Sandstone	light-gray, fine- to medium-grained, subangular
604-07	Sandstone	light-gray, fine- to medium-grained, subangular, slightly conglomeratic
607-12	Sandstone	light-gray, fine- to medium-grained, subangular
612-17	Sandstone	light-gray, fine- to medium-grained, subangular, conglomeratic
617-32	Sandstone	light-gray, medium-grained, subangular, conglomeratic
632-38	Sandstone	light-gray, fine-grained, subangular, conglomeratic
638-46	Sandstone	gray, fine-grained, subangular, shaly
646-52	Sandstone	light-gray, fine-grained, subangular, sideritic
652-72	Sandstone	light-gray, fine-grained, subangular
672-700	Sandstone	light-gray, fine- to medium-grained, subangular
700-06	Sandstone	light-gray, fine- to medium-grained, subangular—minor amount of shale, dark-gray
706-25	Sandstone	light-gray, fine- to medium-grained, subangular
725-30	Sandstone	light-gray, medium-grained, subangular
730-41	Samples missing	
741-52	Sandstone	light-gray, fine- to medium-grained, subangular
752-57	Samples missing	
757-65	Sandstone	gray, fine- to medium-grained, subangular—minor amount of siltstone, dark-gray, shaly
765-73	Sandstone	light-gray, medium- to coarse-grained, subangular, conglomeratic
773-79	Samples missing	
779-89	Sandstone	light-gray, medium-grained, subangular
789-94	Sandstone	light-gray, medium-grained, subangular, conglomeratic
794-800	Sandstone	light-gray, medium- to coarse-grained, subangular, conglomeratic
800-12	Sandstone	light-gray, coarse-grained, subangular, conglomeratic
812-18	Sandstone	light-gray, coarse-grained, subangular, conglomeratic—minor amount of flint fire clay
818-24	Sandstone	light-gray, medium-grained, subangular
824-35	Sandstone	light-gray, medium-grained, subangular, conglomeratic
835-48	Samples missing	
848-55	Sandstone	light-gray, medium-grained, subangular, conglomeratic

855-58	Samples missing	
858-61	Limestone	cream and tan, fine- to medium-grained
861-64	Samples missing	
864-72	Limestone	cream and brown, medium-grained, fragmental, mottled
872-78	Siltstone	gray and green, dolomitic
878-85	Samples missing	
885-91	Siltstone	maroon and green, dolomitic—minor amount of limestone, gray, fine-grained, silty
891-98	Samples missing	
898-921	Siltstone	maroon and green, dolomitic
921-27	Samples missing	
927-33	Sandstone	light-gray, fine-grained, subangular, limy, dolomitic
933-44	Sandstone	light-gray, fine-grained, subangular, limy, dolomitic—minor amount of siltstone, gray, dolomitic
944-50	Siltstone	dark-gray, shaly
950-56	Siltstone	dark-gray, shaly, sandy
956-63	Limestone	tan, medium-grained, sandy
963-69	Siltstone	gray-green, dolomitic
969-79	Dolomite	tan, fine-grained, silty
979-84	Siltstone	dark-gray, dolomitic
984-90	Siltstone	dark-gray, dolomitic—minor amount of dolomite, gray, fine-grained, silty
990-98	Siltstone	dark-gray, dolomitic—minor amount of sandstone, gray, fine-grained, subangular, dolomitic
998-1014	Limestone	cream and dark-brown, medium-grained, fragmental, mottled, oolitic
1014-19	Shale	maroon
1019-25	Siltstone	maroon and gray, dolomitic
1025-32	Siltstone	maroon and gray, dolomitic—minor amount of limestone, gray, fine-grained
1032-38	Siltstone	maroon and gray, dolomitic
1038-44	Siltstone	maroon and gray, dolomitic—minor amount of limestone, gray, fine-grained—minor amount of dolomite, yellow, silty
1044-58	Sandstone	gray, very fine-grained
1058-63	Siltstone	dark-gray, shaly
1063-75	Siltstone	dark-gray, shaly—minor amount of sandstone, gray, fine-grained, subangular
1075-80	Sandstone	gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly
1080-91	Limestone	gray-tan, fine- to medium-grained—minor amount of dolomite, tan, fine-grained
1091-1100	Dolomite	dark gray-brown, fine-grained, silty
1100-07	Limestone	cream and dark-brown, medium-grained, fragmental, fossiliferous
1107-12	Limestone	dark gray-brown, medium-grained, fragmental, fossiliferous
1112-18	Limestone	dark gray-brown, medium-grained, fragmental, fossiliferous, shaly



1118-40	Limestone	cream and dark-brown, medium-grained, fragmental, fossiliferous
1140-45	Dolomite	gray-tan, fine-grained
1145-51	Dolomite	gray-tan, fine-grained—minor amount of limestone, brown, medium-grained
1151-55	Limestone	cream and tan, fine- to medium-grained
1155-60	Limestone	cream and brown, medium-grained, oolitic
1160-65	Limestone	cream and tan, fine- to medium-grained
1165-96	Samples missing	
1196-1220	Limestone	cream and dark gray-brown, medium-grained, fossiliferous, fragmental
1220-30	Limestone	dark gray-brown, medium-grained—minor amount of dolomite, gray-tan, fine-grained
1230-38	Siltstone	maroon and green
1238-43	Shale	maroon and green
1243-49	Shale	maroon
1249-60	Shale	maroon—minor amount of siltstone, green, shaly, dolomitic
1260-63	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, maroon
1263-67	Limestone	cream and brown, medium-grained
1267-86	Limestone	cream and tan, medium-grained
1286-91	Limestone	gray-tan, fine-grained—minor amount of dolomite, tan, fine-grained
1291-96	Dolomite	tan, fine-grained, <i>very slight show of oil</i>
1296-1302	Limestone	cream and tan, fine-grained
1302-11	Limestone	cream and tan, fine- to medium-grained
1311-17	Limestone	tan, fine-grained
1317-23	Limestone	cream and tan, fine-grained
1323-27	Dolomite	tan, fine-grained—minor amount of limestone, cream and tan, fine-grained
1327-34	Limestone	tan, fine-grained, dolomitic
1334-40	Limestone	cream and tan, medium-grained

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	200	858
	(first sample)	
MISSISSIPPIAN .....	858	1340
		(last sample)
Pennington Formation .....	858	1100
Bangor Limestone .....	1100	1230
Hartselle Formation .....	1230	1263
Monteagle Limestone .....	1263	1340
		(last sample)

**MAP NUMBER—110**  
**Russell Producing Co., Rugby Land Co. No. 2**

CARTER COORD.: NE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 4, 3S-59E      ELEVATION: 1302.8 (S)  
 DATE: 1919      TOTAL DEPTH: 1270  
 PRODUCTION: Oil and gas  
 REMARKS: Initial production reported 8 bbl. oil per 24 hrs., and considerable gas. Now abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	8
Sand .....	8	38
Set 10" drive pipe to 13'		
Slate .....	38	100
Lime .....	100	110
Sand .....	110	260
Slate .....	260	290
Sand .....	290	315
Slate .....	315	405
Salt sand .....	405	695
Slate .....	695	700
Set 8" casing @ 700		
Lime .....	700	733
Red rock (shale) .....	733	757
Slate .....	757	810
Lime .....	810	850
Red rock (shale) .....	850	880
Lime .....	880	903
Slate .....	903	940
Lime .....	940	970
Sand (sandy lime) .....	970	980
Gas		
Set 6 $\frac{5}{8}$ " casing @ 978		
Lime .....	980	1085
Slate .....	1085	1090
Lime .....	1090	1095
Sand .....	1095	1100
Lime .....	1100	1250
Sand (sandy lime) .....	1250	1259
Oil		
Lime .....	1259	1270

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	8	700
MISSISSIPPIAN .....	700	1270

(last record)

	<i>From</i>	<i>To</i>
Pennington Formation .....	700	
Bangor Limestone .....		1085
Hartselle Formation .....	1085	1100
Monteagle Limestone .....	1100	1270
		(last record)

**MAP NUMBER—111**  
**Diversa Producing Co., I. M. Griffith No. 1**

CARTER COORD.: SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 4, 3S-59E      ELEVATION: 1285 (T)  
DATE: 1960      TOTAL DEPTH: 1333  
SAMPLE SET: Nos. 1199 and 1233  
PRODUCTION: Dry  
CASING RECORD: 8 $\frac{5}{8}$ " @ 61; 7" @ 962; 4 $\frac{1}{2}$ " @ 1332  
REMARKS: Show of gas reported @ 1118-22, 1126-28, 1133-39. Show of oil reported @ 1285.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Surface sand and clay .....	0	61
Fresh water @ 50		
Sand .....	61	245
Hole full of water @ 100-245		
Shale .....	245	312
Sand .....	312	343
Shale .....	343	387
Sand .....	387	489
Slate .....	489	497
Sand .....	497	689
Hole full of water		
Lime .....	689	716
Shale, red and green .....	716	746
Red shale and lime .....	746	811
Shale and lime shells .....	811	858
Broken sand .....	858	877
Lime, brown .....	877	905
Lime, broken, dark .....	905	935
Shale, brown .....	935	944
Lime, brown .....	944	1322
Gas show @ 1140		
Oil show @ 1285		
Lime, dark .....	1322	1333

The interval 1277-91 was perforated and acidized. No oil. The intervals 1118-22, 1126-28, and 1133-39 were perforated and acidized. Slight increase in gas. This zone was

then sand fraced, which resulted in a slight increase in gas. The lower zone was acidized again but without results. The hole was abandoned after placing a 10-sack cement plug @ 987 and a 2-sack cement plug at the surface.

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	61	689
MISSISSIPPIAN .....	689	1333
		(last record)
Pennington Formation .....	689	
Bangor Limestone		
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone .....		1333
		(last record)

#### SAMPLE DESCRIPTION

60-70	Sandstone	gray, fine-grained, subangular, shaly
70-80	Sandstone	gray, fine- to medium-grained, subangular
80-86	Sandstone	light-gray, fine- to medium-grained, subangular
86-92	Sandstone	light-gray, fine- to medium-grained, subangular—minor amount of shale, dark-gray
92-98	Sandstone	light-gray, fine- to medium-grained, subangular
98-120	Sandstone	light-gray, fine- to medium-grained, subangular—minor amount of shale, dark-gray
120-54	Sandstone	light-gray, fine- to medium-grained, subangular
154-64	Samples missing	
164-91	Sandstone	light-gray, medium-grained, subangular
191-241	Sandstone	light-gray, fine- to medium-grained, subangular
241-45	Sandstone	light-gray, medium-grained, subangular, conglomeratic
245-54	Sandstone	light-gray, medium-grained, subangular, conglomeratic—minor amount of sandstone, gray, fine-grained, subangular, slightly shaly
254-89	Sandstone	gray, fine-grained, subangular, slightly shaly
289-99	Siltstone	gray, shaly
299-321	Sandstone	gray, fine-grained, subangular
321-30	Sandstone	light-gray, fine-grained, subangular
330-38	Sandstone	gray, fine-grained, subangular
338-45	Sandstone	gray, fine-grained, subangular—minor amount of sandstone, dark-gray, fine-grained, subangular, shaly
345-52	Sandstone	dark-gray, fine-grained, subangular, shaly
352-80	Siltstone	dark-gray, shaly
380-400	Sandstone	light-gray, fine-grained, subangular
400-04	Sandstone	light-gray, fine-grained, subangular, silty
404-18	Sandstone	light-gray, fine-grained, subangular, silty, shaly
418-25	Sandstone	light-gray, fine- to medium-grained, subangular, few shale laminae
425-32	Sandstone	light-gray, medium-grained, subangular
432-37	Sandstone	light-gray, medium-grained, subangular, conglomeratic

437-45	Sandstone	light-gray, fine- to medium-grained, subangular
445-53	Sandstone	light-gray, fine-grained, subangular, silty
453-63	Sandstone	light-gray, fine- to medium-grained, subangular
463-79	Sandstone	light-gray, fine-grained, subangular
479-87	Sandstone	light-gray, fine-grained, subangular—minor amount of sandstone, gray, fine-grained, subangular, shaly
487-97	Sandstone	gray, fine-grained, subangular, shaly
497-501	Samples missing	
501-09	Sandstone	gray, fine-grained, subangular, shaly
509-68	Sandstone	light-gray, fine-grained, subangular
568-76	Sandstone	light-gray, fine- to medium-grained, subangular
576-602	Sandstone	light-gray, medium-grained, subangular
602-20	Sandstone	light-gray, medium-grained, subangular, conglomeratic
620-30	Sandstone	light-gray, medium- to coarse-grained, subangular, conglomeratic
630-40	Sandstone	gray, fine-grained, subangular, shaly, with shale laminae
640-59	Sandstone	light-gray, medium-grained, subangular, conglomeratic
659-82	Sandstone	light-gray, fine-grained, subangular
682-87	Sandstone	gray, medium-grained, subangular, conglomeratic, with rounded, dark-brown chert pebbles and granules
687-90	Sandstone	gray, medium-grained, subangular—minor amount of limestone, light-gray, fine- to medium-grained
690-703	Limestone	light-gray, fine- to medium-grained
703-12	Limestone	dark-brown, fine-grained
712-16	Siltstone	gray and maroon, dolomitic
716-21	Shale	gray and maroon, dolomitic
721-35	Siltstone	gray and maroon, dolomitic
735-38	Siltstone	gray, dolomitic
738-42	Siltstone	gray and maroon, dolomitic
742-65	Sandstone	gray, fine-grained, subangular, silty, shaly, dolomitic
765-84	Siltstone	gray, shaly
784-94	Shale	gray, dolomitic
794-811	Siltstone	gray, dolomitic
811-17	Siltstone	gray, shaly, dolomitic, limy
817-23	Limestone	gray and dark-gray mottled, medium-grained
823-40	Siltstone	green and maroon, dolomitic
840-52	Shale	gray and maroon, dolomitic
852-77	Sandstone	light-gray, fine-grained, silty
877-92	Siltstone	gray, dolomitic, limy
892-97	Dolomite	dark-gray, fine-grained, very silty, limy
897-902	Dolomite	light-gray, fine-grained, limy
902-10	Dolomite	gray, fine-grained, silty
910-15	Dolomite	gray, fine-grained, silty—minor amount of limestone, gray-brown, medium-grained
915-35	Limestone	gray and dark-gray mottled, medium-grained, fragmental
935-45	Dolomite	gray, fine-grained, silty, shaly
945-61	Limestone	gray and dark-gray mottled, medium-grained, fragmental
961-82	Limestone	gray, fine- to medium-grained
982-1039	Limestone	light-gray and tan mottled, medium-grained, fragmental
1039-40	Limestone	dark-brown, fine- to medium-grained, dolomitic

1040-52	Limestone	light-gray and brown mottled, medium-grained, fragmental
1052-57	Siltstone	gray, limy—equal amount of shale, gray, limy
1057-67	Siltstone	gray, limy, dolomitic
1067-74	Limestone	dark-gray, fine-grained, silty, dolomitic
1074-89	Limestone	tan and brown mottled, medium-grained, fragmental—equal amount of sandstone, green, fine-grained, dolomitic
1089-94	Limestone	light gray-tan, fine- to medium-grained
1094-1111	Limestone	light gray-tan, fine- to medium-grained, slightly oolitic
1111-40	Limestone	light-gray, fine- to medium-grained
1140-49	Limestone	light-gray, medium-grained, oolitic, free oolites
1149-53	Limestone	light-gray, medium-grained, slightly oolitic
1153-61	Limestone	cream and tan, medium-grained, fragmental, slightly oolitic
1161-76	Samples missing	
1176-91	Limestone	gray, fine-grained, dolomitic, silty
1191-1230	Limestone	light gray-tan, fine-grained
1230-40	Limestone	light-gray, fine- to medium-grained
1240-61	Limestone	light-gray, fine-grained
1261-77	Limestone	light-gray, fine- to medium-grained, fragmental, dolomitic
1277-91	Limestone	light-gray, fine- to medium-grained, fragmental, dolomitic, <i>very slight stain of oil</i>
1291-98	Dolomite	light-gray, fine-grained
1298-1303	Dolomite	dark-brown, fine-grained, 3% <i>sulfate</i> , limy
1303-05	Limestone	gray, fine-grained, dolomitic—equal amount of dolomite, dark-gray, fine-grained, limy
1305-11	Dolomite	dark-brown, fine-grained, limy, <i>slight show of oil</i>
1311-33	Limestone	dark brown-gray, fine-grained, dolomitic

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	60	689
MISSISSIPPIAN .....	689	1333
		(last sample)
Pennington Formation .....	689	914
Bangor Limestone .....	914	1052
Hartselle Formation .....	1052	1087
Monteagle Limestone .....	1087	1291
St. Louis Limestone .....	1291	1333
		(last sample)

**MAP NUMBER—112**  
**Russell Producing Co., I. M. Griffith No. 1**

CARTER COORD.: NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 5, 3S-59E      ELEVATION: 1255.8 (S)  
 DATE: 1918      TOTAL DEPTH: 1630  
 PRODUCTION: Gas  
 REMARKS: Initial production reported 12 to 13 million cu. ft. gas. Now  
 abandoned.

**DRILLER'S LOG**

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	24
Set 10" casing @ 24		
Sand .....	24	200
Slate and shells .....	200	420
Sand .....	420	685
Set 8" casing @ 685		
Lime .....	685	720
Red rock (shale) .....	720	730
Slate and shells .....	730	1075
Lime .....	1075	1130
Lime, sandy .....	1130	1140
Gas		
Set 6 $\frac{5}{8}$ " casing @ 1140		
Lime .....	1140	1630
Set anchor packer @ 1589		

**STRATIGRAPHIC INTERPRETATION**

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	24	685
MISSISSIPPIAN .....	685	1630
		(last record)
Pennington Formation .....	685	
Bangor Limestone		
Hartselle Formation .....		1075
Monteagle Limestone .....	1075	
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1630
		(last record)

**MAP NUMBER—113**  
**W. G. Strubbe, Board of Aid No. 1**

CARTER COORD.: NW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 5, 3S-59E      ELEVATION: 1250.8 (S)  
 DATE: 1891      TOTAL DEPTH: 1236  
 PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Alluvium .....	0	15
Shale, gray and black .....	15	70
Thin seam of coal @ 65		
Sandstone, gray .....	70	170
Sandstone and shale, gray .....	170	180
Sandstone, gray .....	180	220
Sandstone and shale, black .....	220	260
Sandstone, dark-gray .....	260	320
Sandstone and shale, black .....	320	375
Sandstone, gray, hard .....	375	680
Limestone, dark-gray, hard .....	680	690
Shale and lime, red and black .....	690	755
Set casing @ 700		
Limestone, gray .....	755	760
Shale and lime, black .....	760	780
Limestone, black .....	780	805
Shale, black .....	805	825
Shale, red and black, soft .....	825	850
Shale, black, soft .....	850	885
Limestone, gray and black .....	885	1070
Limestone, dark .....	1070	1236
Little gas @ 1128		
Show of oil @ 1233		

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	15	680
MISSISSIPPIAN .....	680	1236
		(last record)
Pennington Formation .....	680	
Bangor Limestone		
Hartselle Formation .....		1070
Monteagle Limestone .....	1070	1236
		(last record)

MAP NUMBER—114

Russell Producing Co., Rugby Land Co. No. 4

CARTER COORD.: SW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 5, 3S-59E      ELEVATION: 1250.5 (S)  
 DATE: 1924      TOTAL DEPTH: 1500  
 PRODUCTION: Dry  
 REMARKS: Plugged and abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	6
Quicksand .....	6	20



<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand, hard .....	20	40
Slate and lime shells .....	40	75
Sand, white, hard .....	75	190
Coal .....	190	191
Lime, sandy .....	191	230
Lime and shells .....	230	365
Sand, gray .....	365	680
Water @ 565-570		
Slate, black .....	680	700
Red rock (shale) .....	700	705
Slate and shells .....	705	820
Red rock (shale) .....	820	850
Slate and shells .....	850	875
Lime, white .....	875	900
Lime shells .....	900	925
Lime, gray .....	925	1120
Lime, sandy .....	1120	1140
Show of gas @ 1135		
Lime, hard .....	1140	1255
Show of oil @ 1235 and 1252		
Lime, sandy .....	1255	1265
Lime, hard .....	1265	1295
Lime, sandy .....	1295	1320
Show of oil @ 1300		
Lime, hard .....	1320	1340
Lime, white, hard .....	1340	1370
Lime, sandy, hard .....	1370	1400
Lime, black, hard .....	1400	1435
Lime, hard, sandy .....	1435	1460
Lime, gray, hard .....	1460	1500

Note: Set pine plug at bottom of 8" hole and 15 feet of stone and sand pumpings on top of pine plug. Set plug and bridge at bottom of 10" hole and filled to top of well with stone and sand pumpings.

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	6	705
MISSISSIPPIAN .....	705	1500
		(last record)
Pennington Formation .....	705	925
Bangor Limestone .....	925	
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1500
		(last record)

**MAP NUMBER—115**  
**Russell Producing Co., George Todd No. 1**

CARTER COORD.: NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 10, 3S-59E ELEVATION: 1265.4 (S)  
 DATE: 1923 TOTAL DEPTH: 1500  
 PRODUCTION: Dry  
 CASING RECORD: 10" @ 22 $\frac{1}{2}$ "; 8" @ 800; 6 $\frac{5}{8}$ " @ 1170

**DRILLER'S LOG**

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	20
Slate .....	20	80
Lime and slate .....	80	230
Hard shell and slate .....	230	270
Lime .....	270	295
Coal .....	295	298
Slate .....	298	320
Lime .....	320	342
Sand .....	342	410
Slate .....	410	425
Sand, hard .....	425	495
Sand and slate .....	495	835
Lime .....	835	865
Red rock (shale) .....	865	940
Lime .....	940	964
Slate .....	964	975
Red rock (shale) .....	975	1020
Slate .....	1020	1041
Lime .....	1041	1085
Slate and lime .....	1085	1135
Lime, white, sandy .....	1135	1188
Lime, black .....	1188	1195
Gas		
Sand, white .....	1195	1204
Lime, black, sandy .....	1204	1300
Show of oil @ 1300		
Lime, white .....	1300	1334
Oil and gas @ 1334		
Lime, gray .....	1334	1364
Lime, white .....	1364	1480
Sand, black .....	1480	1500

**STRATIGRAPHIC INTERPRETATION**

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	20	835
MISSISSIPPIAN .....	835	1500
		(last record)
Pennington Formation .....	835	
Bangor Limestone .....		1188

	<i>From</i>	<i>To</i>
Hartselle Formation .....	1188	1204
Monteagle Limestone .....	1204	
St. Louis Limestone		
Warsaw Formation .....		1500
		(last record)

**MAP NUMBER--116**  
**Petroleum, Inc., Howard Baker No. 2**

CARTER COORD.: SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 9, 3S-59E      ELEVATION: 1440 (T)  
DATE: 1960      TOTAL DEPTH: 1600  
SAMPLE SET: No. 1266  
PRODUCTION: Dry

SAMPLE DESCRIPTION

60-74	Shale	dark-gray
74-130	Shale	gray, silty
130-45	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, gray, silty
145-83	Siltstone	dark-gray, shaly
183-200	Sandstone	light-gray, fine-grained, subangular
200-26	Siltstone	dark-gray, shaly
226-34	Sandstone	gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly
234-39	Sandstone	gray, fine-grained, subangular
239-50	Sandstone	light-gray, fine- to medium-grained, subangular
250-65	Sandstone	light-gray, fine-grained, subangular
265-75	Siltstone	dark-gray, shaly—minor amount of sandstone, light-gray, fine-grained, subangular
275-91	Siltstone	dark-gray, shaly
291-95	Shale	dark-gray, silty
295-310	Sandstone	gray, fine- to medium-grained, subangular
310-35	Sandstone	gray, fine- to medium-grained, subangular—equal amount of shale, dark-gray, silty
335-43	Shale	dark-gray, silty
343-48	Sandstone	dark-gray, fine-grained, subangular, shaly—minor amount of sandstone, gray, fine-grained, subangular
348-58	Sandstone	gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly
358-68	Siltstone	dark-gray, shaly—minor amount of sandstone, gray, fine-grained, subangular
368-78	Sandstone	light-gray, fine- to medium-grained, subangular
378-88	Shale	dark-gray, silty
388-98	Sandstone	light-gray, fine- to medium-grained, subangular
398-420	Sandstone	light-gray, medium-grained, subangular, conglomeratic
420-30	Sandstone	light-gray, medium-grained, subangular

430-48	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
448-58	Shale	black, silty—minor amount of sandstone, light-gray, medium-grained, subangular, slightly conglomeratic
458-64	Sandstone	light-gray, fine- to medium-grained, subangular—minor amount of shale, black, coaly
464-85	Sandstone	light-gray, fine- to medium-grained, subangular
485-510	Sandstone	light-gray, medium-grained, subangular, conglomeratic
510-16	Siltstone	gray, shaly, sandy
516-50	Sandstone	gray, fine-grained, subangular, shaly, silty
550-80	Sandstone	gray, fine-grained, subangular
580-90	Sandstone	gray, fine-grained, subangular, slightly sideritic
590-600	Sandstone	gray, fine-grained, subangular
600-07	Sandstone	gray, fine-grained, subangular, sideritic
607-27	Sandstone	gray, fine-grained, subangular
627-31	Sandstone	gray, fine-grained, subangular, shaly
631-40	Sandstone	light-gray, fine- to medium-grained, subangular
640-50	Sandstone	light-gray, fine- to medium-grained, subangular—minor amount of shale, dark-gray, silty
650-60	Sandstone	gray, fine-grained, subangular—minor amount of shale, dark-gray, silty
660-67	Sandstone	gray, fine-grained, subangular, sideritic—minor amount of shale, dark-gray, <i>coaly</i>
667-78	Sandstone	gray, fine-grained, subangular— <i>minor amount of coal, bright</i>
678-88	Samples missing	
688-709	Sandstone	light-gray, fine- to medium-grained, subangular
709-20	Sandstone	light-gray, fine- to medium-grained, subangular— <i>minor amount of coal, bright</i>
720-36	Sandstone	light-gray, fine- to medium-grained, subangular
736-44	Sandstone	light-gray, fine- to medium-grained, subangular— <i>minor amount of coal, bright</i>
744-60	Sandstone	light-gray, medium-grained, subangular
760-72	Sandstone	light-gray, medium-grained, subangular— <i>minor amount of coal, bright</i>
772-82	Sandstone	light-gray, medium-grained, subangular, conglomeratic— <i>minor amount of coal, bright</i>
782-834	Sandstone	light-gray, medium-grained, subangular, conglomeratic
834-45	Sandstone	light-gray, medium-grained, subangular, conglomeratic— <i>minor amount of coal, bright</i>
845-63	Sandstone	light-gray, medium-grained, subangular, conglomeratic
863-92	Sandstone	light-gray, medium-grained, subangular
892-903	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
903-16	Sandstone	light-gray, medium-grained, subangular, conglomeratic
916-25	Sandstone	light-gray, fine- to medium-grained, subangular, conglomeratic
925-51	Sandstone	light-gray, medium- to coarse-grained, subangular, conglomeratic
951-75	Siltstone	dark-gray, shaly, sandy

975-81	Siltstone	gray, shaly, sandy
981-89	Siltstone	gray, shaly, sandy—minor amount of limestone, gray-tan, fine-grained, dolomitic
989-96	Limestone	cream and tan, medium-grained
996-1004	Limestone	cream and gray-brown, medium-grained
1004-10	Limestone	gray-brown, medium-grained
1010-14	Limestone	light-gray and brown, medium-grained, oolitic
1014-26	Siltstone	gray-green and maroon, dolomitic
1026-45	Siltstone	gray and maroon, dolomitic
1045-61	Siltstone	gray and maroon, dolomitic—minor amount of limestone, tan, fine-grained
1061-87	Siltstone	gray and maroon, dolomitic
1087-1100	Dolomite	cream and gray, fine-grained, limy
1100-10	Dolomite	gray-brown, fine-grained, limy—minor amount of shale, dark-gray, dolomitic
1110-16	Dolomite	gray-brown, fine-grained, limy—minor amount of shale, gray, dolomitic
1116-23	Samples missing	
1123-42	Limestone	light-gray and gray-brown, medium-grained, oolitic
1142-47	Limestone	light-gray and gray-brown, medium-grained, oolitic—minor amount of shale, gray and maroon
1147-52	Samples missing	
1152-62	Siltstone	gray and maroon, dolomitic—minor amount of sandstone, gray, fine-grained, subangular
1162-67	Siltstone	gray, dolomitic
1167-94	Sandstone	gray, fine-grained, subangular
1194-99	Dolomite	gray-tan, fine-grained, limy
1199-1220	Dolomite	light-gray, fine-grained, limy
1220-27	Dolomite	light-gray, fine-grained, limy—minor amount of limestone, gray-brown, medium-grained, dolomitic
1227-37	Limestone	gray-brown, medium-grained
1237-45	Shale	dark-gray, limy—minor amount of limestone, gray-brown, medium-grained, fragmental
1245-50	Limestone	dark-gray, medium-grained, shaly
1250-55	Limestone	light-gray and brown, medium-grained, fragmental
1255-65	Limestone	light-gray and brown, spotted, medium-grained, fragmental
1265-72	Dolomite	cream, fine-grained, limy—minor amount of shale, dark-gray, limy
1272-81	Limestone	gray-brown, medium-grained, fragmental—minor amount of dolomite, cream, fine-grained, limy
1281-93	Limestone	cream and gray-tan, medium-grained, fragmental
1293-1302	Limestone	gray-tan, medium-grained, fragmental
1302-21	Limestone	gray-brown, medium-grained, fragmental
1321-32	Limestone	cream and gray-brown, medium-grained, fragmental
1332-38	Limestone	cream and dark-brown, medium-grained, fragmental
1338-45	Limestone	gray-brown, medium-grained, fragmental
1345-65	Limestone	gray and brown, fine- to medium-grained
1365-74	Shale	gray and maroon—minor amount of sandstone, light-gray, fine-grained, subangular

1374-81	Shale	dark-gray
1381-85	Shale	dark-gray, limy
1385-90	Limestone	cream and tan, medium-grained, fragmental
1390-1404	Limestone	cream and tan, medium-grained, fragmental, slightly oolitic
1404-10	Limestone	cream, medium-grained, fragmental, slightly oolitic
1410-14	Limestone	cream, fine-grained
1414-63	Limestone	cream and gray-tan, fine- to medium-grained, fragmental, slightly oolitic
1463-73	Limestone	cream and tan, medium-grained, fragmental
1473-80	Limestone	cream and gray-tan, fine-grained
1480-88	Limestone	gray-tan, fine-grained
1488-1502	Limestone	cream and tan, medium-grained, fragmental, slightly oolitic
1502-07	Limestone	cream and tan, fine-grained
1507-13	Limestone	cream, medium-grained, oolitic
1513-20	Dolomite	light-gray, fine-grained, limy
1520-27	Limestone	gray, fine- to medium-grained
1527-33	Limestone	gray-cream, medium-grained, oolitic, slight interoolite porosity
1533-37	Limestone	gray, fine- to medium-grained
1537-45	Limestone	gray, fine- to medium-grained—minor amount of limestone, gray-cream, medium-grained, oolitic, fair interoolite porosity
1545-49	Limestone	gray-cream, medium-grained, oolitic, tight
1549-51	Limestone	gray-brown, fine-grained, cherty
1551-59	Limestone	gray-brown and cream, fine- to medium-grained, cherty (pink)
1559-64	Limestone	dark-brown, fine-grained
1564-71	Limestone	cream and tan, fine- to medium-grained
1571-76	Dolomite	cream, fine-grained, cherty (pink)
1576-83	Dolomite	light-gray, fine-grained
1583-86	Dolomite	light-gray, fine-grained, cherty (pink)
1586-89	Dolomite	light-gray, fine-grained, limy
1589-95	Dolomite	light-gray, fine-grained
1595-1600	Dolomite	light-gray, fine-grained, cherty

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	60	987
MISSISSIPPIAN .....	987	1600
		(last sample)
Pennington Formation .....	987	1245
Bangor Limestone .....	1245	1365
Hartselle Formation .....	1365	1385
Monteagle Limestone .....	1385	1549
St. Louis Limestone .....	1549	1600
		(last sample)

**MAP NUMBER—117**  
**E. P. and Sam Jarvis, Howard Baker No. 1**

CARTER COORD.: SE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 8, 3S-59E      ELEVATION: 1433 (S)  
 DATE: 1947      TOTAL DEPTH: 1568  
 SAMPLE SET: No. 827  
 PRODUCTION: Dry  
 REMARKS: Oil show @ 524-46. Abandoned with 3 strings of tools in hole.

SAMPLE DESCRIPTION

103-10	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
110-503	Samples missing	
503-15	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic—minor amount of siltstone, dark-gray, shaly
515-25	Sandstone	dark-gray, fine-grained, subangular, silty, micaceous, shaly
525-45	Sandstone	dark- and light-gray, fine-grained, subangular, silty, shaly, micaceous
545-57	Sandstone	light-gray, fine-grained, subangular, sideritic
557-628	Sandstone	light-gray, fine-grained, subangular
628-50	Sandstone	light-gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly, micaceous
650-58	Sandstone	light-gray and gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly
658-66	Sandstone	light-gray, fine- to medium-grained, subangular, slightly conglomeratic
666-72	Sandstone	light-gray, fine- to medium-grained, subangular, conglomeratic
672-78	Sandstone	light-gray, fine- to medium-grained, subangular
678-92	Sandstone	light-gray, fine- to medium-grained, subangular—minor amount of shale, dark-gray, <i>coaly</i>
692-707	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
707-38	Sandstone	light-gray, medium-grained, subangular, conglomeratic
738-54	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
754-58	Sandstone	light-gray, medium-grained, subangular
758-66	Sandstone	light-gray, fine- to medium-grained, subangular
766-72	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, black
772-80	Sandstone	light-gray, fine- to medium-grained, subangular
780-88	Sandstone	light-gray, medium-grained, subangular, conglomeratic
788-96	Sandstone	light-gray and gray, medium-grained, subangular—minor amount of sandstone, dark-gray, fine-grained, subangular, shaly
796-803	Sandstone	light-gray, medium-grained, subangular—minor amount of sandstone, dark-gray, fine-grained, subangular, shaly
803-10	Sandstone	light-gray, medium-grained, subangular

810-42	Sandstone	light-gray, fine- to medium-grained, subangular
842-52	Sandstone	light-gray, fine- to medium-grained, subangular, slightly conglomeratic
852-58	Sandstone	light-gray, medium-grained, subangular, conglomeratic
858-66	Sandstone	light-gray, fine- to medium-grained, subangular, conglomeratic
866-80	Sandstone	light-gray, fine- to medium-grained, subangular, slightly conglomeratic
880-903	Sandstone	light-gray, medium-grained, subangular, conglomeratic
903-10	Samples missing	
910-16	Sandstone	light-gray, fine- to medium-grained, subangular, slightly conglomeratic
916-25	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, dark-gray, silty
925-35	Sandstone	light-gray, medium-grained, subangular, conglomeratic
935-58	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, black
958-65	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, dark-gray, silty
965-76	Limestone	light-gray and tan, medium-grained, fragmental
976-82	Limestone	gray, fine- to medium-grained
982-90	Limestone	gray, fine- to medium-grained—minor amount of siltstone, green-gray, dolomitic—minor amount of dolomite, gray, fine-grained, silty
990-1004	Shale	green and maroon, dolomitic
1004-07	Shale	green and maroon, dolomitic—minor amount of siltstone, gray, dolomitic
1007-11	Shale	green and maroon, dolomitic—minor amount of dolomite, gray and green, fine-grained, silty
1011-17	Shale	green and maroon, dolomitic
1017-25	Shale	green and maroon, dolomitic—minor amount of siltstone, gray and green, dolomitic
1025-35	Shale	green and maroon, dolomitic—minor amount of limestone, light-gray, medium-grained—minor amount of siltstone, gray and green, dolomitic
1035-45	Siltstone	gray and green, dolomitic
1045-54	Shale	green and maroon, dolomitic—minor amount of limestone, dark-brown, medium-grained, fragmental
1054-62	Siltstone	gray and green, dolomitic—minor amount of shale, maroon, dolomitic
1062-72	Siltstone	gray, dolomitic
1072-83	Samples missing	
1083-86	Siltstone	gray, dolomitic—minor amount of dolomite, gray, fine-grained, silty
1086-96	Siltstone	gray, dolomitic
1096-1103	Siltstone	gray, dolomitic—minor amount of sandstone, gray, fine-grained, subangular, dolomitic, limy
1103-13	Limestone	gray and white mottled, medium-grained, fragmental—minor amount of sandstone, gray, fine-grained, subangular, dolomitic, limy



1113-23	Shale	maroon—minor amount of limestone, gray and white mottled, medium-grained, fragmental
1123-35	Shale	maroon and green
1135-40	Shale	maroon and green—minor amount of sandstone, gray-green, fine-grained, dolomitic
1140-52	Sandstone	gray, fine-grained, subangular
1152-60	Sandstone	gray, fine-grained, subangular—minor amount of shale, gray, Pencil Cave
1160-72	Sandstone	gray, fine-grained, subangular
1172-78	Sandstone	light-gray, fine- to medium-grained, subangular
1178-85	Shale	dark-gray
1185-1202	Samples missing	
1202-06	Sandstone	gray, fine-grained, subangular—minor amount of limestone, gray and white, medium-grained, fragmental, knotty

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	103	965
	(first sample)	
MISSISSIPPIAN .....	965	1206
		(last sample)
Pennington Formation .....	965	1206
		(last sample)

MAP NUMBER—118  
Russell Producing Co., Anna Pemberton No. 1

CARTER COORD.: NE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 8, 3S-59E      ELEVATION: 1254.9 (S)  
DATE: 1917      TOTAL DEPTH: 1377  
PRODUCTION: Oil and gas  
REMARKS: Initial production reported as 340 BOPD. Now abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	3
Slate .....	3	30
13" wood conductor to 14'		
Limestone .....	30	60
Sand .....	60	110
Slate .....	110	360
Set 10" casing @ 127		
Sand .....	360	370
Slate and shells .....	370	495
"Salt sand" .....	495	800
Slate .....	800	818

<i>Lithology</i>	<i>From</i>	<i>To</i>
Lime .....	818	825
Set 8" casing to 820		
Red rock (shale) .....	825	837
Lime .....	837	857
Slate and shells .....	857	1065
Lime .....	1065	1100
Slate, black .....	1100	1112
Lime .....	1112	1130
Slate .....	1130	1170
Lime .....	1170	1185
Set 6 5/8" casing @ 1170		
Slate .....	1185	1200
Lime .....	1200	1216
Sand .....	1216	1220
Lime .....	1220	1347
Lime, sandy .....	1347	1362
Oil pay		
Lime .....	1362	1377

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	3	818
MISSISSIPPIAN .....	818	1377
		(last record)
Pennington Formation .....	818	1065
Bangor Limestone .....	1065	1216
Hartselle Formation .....	1216	1220
Monteagle Limestone .....	1220	1377
		(last record)

**MAP NUMBER—119**  
**Russell Producing Co., Anna Pemberton No. 2**

CARTER COORD.: SE 1/4 NW 1/4 SE 1/4 sec. 8, 3S-59E      ELEVATION: 1263.7 (S)  
DATE: 1917      TOTAL DEPTH: 1411  
PRODUCTION: Oil  
REMARKS: Initial production 75 bbls. daily; no gas. Well went dry in 60 days, was plugged and abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	4
Slate .....	4	40
Set 10" casing @ 28		
Lime .....	40	60

<i>Lithology</i>	<i>From</i>	<i>To</i>
Slate .....	60	112
Lime .....	112	120
Slate .....	120	360
Sand .....	360	370
Slate and shells .....	370	500
Sand .....	500	810
Slate .....	810	835
Set 8" casing @ 820		
Lime .....	835	843
Pink rock (shale) .....	843	853
Slate and shells .....	853	1053
Lime .....	1053	1073
Slate .....	1073	1103
Lime .....	1103	1123
Pencil Cave (shaly lime) .....	1123	1138
Lime .....	1138	1185
Slate .....	1185	1200
Lime .....	1200	1240
Set 6 5/8" casing @ 1200		
Sand (sandy lime) .....	1240	1250
Lime .....	1250	1345
Sand (sandy lime) .....	1345	1353
Lime .....	1353	1390
Sand .....	1390	1411
Oil pay		

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	4	835
MISSISSIPPIAN .....	835	1411
		(last record)
Pennington Formation .....	835	1103
Bangor Limestone .....	1103	1185
Hartselle Formation .....	1185	1200
Monteagle Limestone .....	1200	1411
		(last record)

MAP NUMBER—120  
Ohio Fuel Co., Joel McCart No. 1

CARTER COORD.: SW 1/4 NW 1/4 SE 1/4 sec. 8, 3S-59E      ELEVATION: 1270.2 (S)  
DATE: 1917      TOTAL DEPTH: 1450  
PRODUCTION: Dry

**MAP NUMBER—121**  
**Fisher Oil Co., Anna Pemberton No. 1**

CARTER COORD.: SW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 8, 3S-59E      ELEVATION: 1269.3 (S)  
 DATE: 1917      TOTAL DEPTH: 1524  
 PRODUCTION: Dry  
 REMARKS: Plugged and abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Surface .....	0	15
Slate .....	15	30
Wooden conductor to 16'		
Lime (probably sandstone) .....	30	60
Slate .....	60	110
Set 10" casing @ 74		
Sand .....	110	310
Slate and shells .....	310	500
Salt sand .....	500	760
Coal (?) .....	760	761
Lime .....	761	766
Sand .....	766	780
Lime .....	780	800
Red rock (shale) .....	800	816
Set 8 $\frac{1}{4}$ " casing @ 816		
Slate .....	816	850
Lime .....	850	860
Slate .....	860	930
Lime .....	930	945
Slate .....	945	975
Lime .....	975	1100
Slate .....	1100	1120
Lime .....	1120	1175
Slate .....	1175	1185
Lime .....	1185	1190
Slate .....	1190	1200
Lime .....	1200	1440
Set 6 $\frac{5}{8}$ " casing @ 1205		
Lime, red .....	1440	1460
Lime, gray .....	1460	1520
Lime .....	1520	1524

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	15	780
MISSISSIPPIAN .....	780	1524
		(last record)
Pennington Formation .....	780	

	<i>From</i>	<i>To</i>
Bangor Limestone .....		1176
Hartselle Formation .....	1176	1205
Monteagle Limestone .....	1205	
St. Louis Limestone		
Warsaw Formation .....		1524
		(last record)

**MAP NUMBER—122**  
**Russell Producing Co., Anna Pemberton No. 3**

CARTER COORD.: NW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 8, 3S-59E      ELEVATION: 1265.9 (S)

DATE: 1918

TOTAL DEPTH: 2050

PRODUCTION: Oil

REMARKS: Initial production 2 or 3 bbl. oil per 24 hrs. Well went completely dry in a few weeks. Now abandoned.

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	5
Slate .....	5	40
Set 10" casing @ 28		
Lime (really sandstone) .....	40	60
Slate .....	60	100
Lime (really sandstone) .....	100	120
Slate .....	120	365
Sand .....	365	375
Slate .....	375	505
Salt sand .....	505	808
Set 8" casing @ 808		
Slate .....	808	835
Lime .....	835	850
Red rock (shale) .....	850	860
Slate and shells .....	860	1050
Lime .....	1050	1070
Slate .....	1070	1106
Lime .....	1106	1140
Pencil Cave (shaly lime) .....	1140	1148
Lime .....	1148	1190
Slate .....	1190	1206
Lime .....	1206	1499
Set 6 $\frac{5}{8}$ " casing @ 1206		
Show of gas @ 1390		
Sand .....	1499	1509
Show of oil		
Lime .....	1509	1704

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sand .....	1704	1730
Show of oil		
Black shale .....	1730	1805
Lime, red .....	1805	1825
Lime, gray .....	1825	2050

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	5	835
MISSISSIPPIAN .....	835	
Pennington Formation .....	835	
Bangor Limestone .....		1190
Hartselle Formation .....	1190	1206
Monteagle Limestone .....	1206	
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1730
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1730	1805
ORDOVICIAN .....	1805	2050

(last record)

**MAP NUMBER—123**  
**Ohio Fuel Co., Hagemeyer No. 2**

CARTER COORD.: NE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 8, 3S-59E      ELEVATION: 1447.7 (S)  
DATE: 1917      TOTAL DEPTH: 1445  
PRODUCTION: Dry

**MAP NUMBER—124**  
**Ohio Fuel Co., Hagemeyer No. 1**

CARTER COORD.: NE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 8, 3S-59E      ELEVATION: 1260.1 (S)  
DATE: 1917      TOTAL DEPTH: 1805  
PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Quicksand .....	0	18
Slate .....	18	36
Set 10" casing @ 23		
Sandstone .....	36	100
Slate .....	100	180

<i>Lithology</i>	<i>From</i>	<i>To</i>
Sandstone .....	180	360
Slate .....	360	470
Sand, white ("salt sand") .....	470	760
Set 8" casing @ 760		
Slate .....	760	785
Lime .....	785	810
Water @ 795		
Red rock (shale) .....	810	820
Slate and shells .....	820	900
Red rock (shale) .....	900	960
Lime .....	960	1040
Slate .....	1040	1050
Lime .....	1050	1140
Show of gas @ 1060		
Salt water @ 1070		
Slate .....	1140	1160
Set 6 $\frac{1}{8}$ " casing @ 1160		
Sand .....	1160	1170
Lime .....	1170	1420
Show oil @ 1225 (2 gal. in 3 days)		
Red rock (shale) .....	1420	1425
Sand .....	1425	1450
Lime, black .....	1450	1465
Sand .....	1465	1505
Lime, black, shaly .....	1505	1630
Shale, black .....	1630	1695
Shell .....	1695	1700
Black shale .....	1700	1750
Lime, gray .....	1750	1805

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	18	785
MISSISSIPPIAN .....	785	
Pennington Formation .....	785	
Bangor Limestone .....		1140
Hartselle Formation .....	1140	1170
Monteagle Limestone .....	1170	
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1700
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1700	1750
ORDOVICIAN .....	1750	1805
		(last record)

**MAP NUMBER—125**  
**Russell Producing Co., Gatewood Pemberton No. 16**

CARTER COORD.: NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 8, 3S-59E      ELEVATION: 1270 (T)  
 DATE: 1953      TOTAL DEPTH: 1485  
 SAMPLE SET: No. 815  
 PRODUCTION: Dry  
 CASING RECORD: 10" @ 13; 8 $\frac{1}{4}$ " @ 740; 7" @ 1141

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil .....	0	8
Sand, gray, hard .....	8	37
Water		
Coal, black, medium-soft .....	37	39
Sand, gray, hard .....	39	53
Slate, dark, medium-soft .....	53	146
Sand, gray, hard .....	146	289
Slate, dark, medium .....	289	299
Sand, white, hard .....	299	327
Slate, dark .....	327	418
Salt sand, with light-gray, medium-hard .....	418	702
Coal, black .....	702	703
Sand, gray .....	703	706
Slate, dark-gray, soft .....	706	714
Slate, black, hard .....	714	723
Slate, white, soft .....	723	728
Limestone, dark, hard .....	728	755
Slate, light, soft .....	755	761
Red rock, soft .....	761	766
Slate, lime, light, medium .....	766	779
Red rock, soft .....	779	806
Slate, lime, light-gray, medium .....	806	835
Sandy lime, light-gray, hard .....	835	857
Slate and shaly lime, dark-gray, medium-hard .....	857	870
Lime, light-gray, hard .....	870	890
Red rock, medium .....	890	915
Slate, dark-gray, medium-hard .....	915	927
Sand, greenish-gray, hard, sharp .....	927	943
Slate, dark, soft .....	943	960
Lime, light-gray, hard .....	960	992
Slate, dark, medium .....	992	1001
Lime, small oolitic, gray-brown, medium-hard .....	1001	1012
Lime, gray, hard .....	1012	1036
Lime, oolitic, light-gray, hard .....	1036	1052
Salt water 1052		
Lime, dark, hard .....	1052	1087
Gas 1052-1070		
Salt water 1058 and 1070		



<i>Lithology</i>	<i>From</i>	<i>To</i>
Lime, gray, brown, medium-hard .....	1087	1125
Slate, black, sand, white and gray, medium-hard .....	1125	1132
Lime, white, light-gray .....	1132	1232
Gas 1207-1210		
S.L.M. <sup>1</sup> 1212=1215		
More gas 1232 (S.L.M.); oil		
Lime, oolitic, light-brown, medium .....	1232	1243
Lime, light-gray, hard .....	1243	1252
Lime, oolitic, tannish-gray, medium .....	1252	1264
Lime, light-gray, hard, medium .....	1264	1485

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	8	728 (?)
MISSISSIPPIAN .....	728 (?)	1485
		(last record)
Pennington Formation .....	728 (?)	1001 (?)
Bangor Limestone .....	1001 (?)	
Hartselle Formation		
Monteagle Limestone		
St. Louis Limestone		
Warsaw Formation .....		1485
		(last record)

#### SAMPLE DESCRIPTION

745-50	Limestone	gray and tan, fine- to medium-grained
750-55	Limestone	gray and gray-brown, fine- to medium-grained
755-63	Siltstone	green and maroon, dolomitic
763-70	Siltstone	green and gray and maroon, dolomitic
770-79	Siltstone	green and maroon, dolomitic
779-86	Siltstone	maroon, dolomitic
786-92	Siltstone	maroon and green, dolomitic
792-800	Samples missing	
800-06	Shale	green and maroon
806-14	Siltstone	gray, dolomitic
814-20	Siltstone	gray, dolomitic—minor amount of limestone, gray-brown, medium-grained, sandy
820-26	Siltstone	gray, sandy, shaly
826-33	Siltstone	gray, dolomitic
833-38	Sandstone	gray, fine-grained, subangular, dolomitic
838-45	Sandstone	gray, fine-grained, subangular
845-50	Sandstone	gray, fine-grained, subangular, dolomitic
850-57	Dolomite	gray-brown, fine-grained—minor amount of sandstone, gray, fine-grained, subangular, dolomitic
857-62	Shale	gray, dolomitic
862-69	Shale	gray, dolomitic, limy

<sup>1</sup>Steel line measurement.

869-73	Shale	gray, dolomitic, limy—minor amount of limestone, gray, medium-grained
873-78	Limestone	cream and dark-brown mottled, medium-grained, fragmental, oolitic
878-88	Limestone	cream and dark-brown mottled, medium-grained, fragmental
888-901	Shale	maroon and gray—minor amount of limestone, cream and dark-brown mottled, medium-grained, fragmental
901-15	Shale	maroon and gray
915-20	Shale	gray
920-27	Shale	dark-gray
927-41	Sandstone	greenish-gray, fine-grained, subangular
941-48	Shale	gray
948-55	Siltstone	dark-gray, shaly, dolomitic, sandy
955-60	Dolomite	dark-gray, fine-grained, limy—minor amount of limestone, dark-brown, medium-grained, dolomitic
960-65	Limestone	gray-brown, medium-grained
965-70	Samples missing	
970-77	Dolomite	gray, fine-grained
977-82	Dolomite	gray, fine-grained—minor amount of limestone, brown, medium-grained, dolomitic
982-89	Dolomite	dark-gray, fine-grained—minor amount of limestone, brown, medium-grained, dolomitic
989-1000	Shale	gray, Pencil Cave
1000-08	Limestone	cream and dark-brown mottled, medium-grained, fragmental, fossiliferous
1008-17	Limestone	cream and dark-brown mottled, medium-grained, fragmental, oolitic
1017-22	Limestone	cream and dark-brown, medium-grained, fragmental
1022-27	Dolomite	gray-tan, fine-grained, limy
1027-32	Limestone	cream and tan, fine-grained
1032-43	Limestone	cream and tan, medium-grained, oolitic
1043-50	Limestone	cream and gray-tan, medium-grained, oolitic
1050-53	Limestone	cream and brown, medium-grained, oolitic, <i>very slight show of oil</i>
1053-58	Limestone	cream and brown, medium-grained, slightly cherty, oolitic
1058-71	Limestone	gray-brown, medium-grained, dolomitic
1071-75	Limestone	cream and brown, medium-grained
1075-80	Limestone	brown, medium-grained, dolomitic
1080-87	Limestone	gray and brown, medium-grained
1087-90	Limestone	cream and gray-tan, medium-grained, fragmental
1090-1100	Limestone	brown, fine-grained
1100-04	Limestone	cream and dark-brown, fine- to medium-grained
1104-10	Limestone	gray-brown, fine- to medium-grained
1110-17	Limestone	gray-tan, fine-grained, dolomitic—minor amount of shale, green-gray, sandy
1117-25	Shale	gray
1125-40	Sandstone	green-gray, fine-grained, subangular
1140-47	Shale	green-gray—minor amount of limestone, tan, medium-grained, oolitic

1147-52	Limestone	cream and tan, medium-grained, oolitic
1152-66	Limestone	cream and tan, medium-grained
1166-82	Limestone	cream and tan, fine-grained
1182-90	Limestone	cream and tan, medium-grained
1190-95	Limestone	cream and tan, medium-grained, oolitic
1195-1200	Limestone	cream and tan, fine- to medium-grained
1200-08	Limestone	cream and tan, medium-grained, oolitic, interoolite porosity, <i>show of oil</i>
1208-15	Limestone	cream and tan, medium-grained, slightly oolitic
1215-18	Limestone	cream and tan, medium-grained
1218-23	Limestone	cream and tan, medium-grained, oolitic
1223-26	Limestone	cream and tan, medium-grained, oolitic, much interoolite porosity, <i>show of oil</i>
1226-32	Samples missing	
1232-38	Limestone	cream and tan, medium-grained, oolitic, much interoolite porosity, <i>show of oil</i>
1238-42	Limestone	cream and tan, medium-grained, oolitic, much interoolite porosity, <i>slight show of oil</i>
1242-44	Limestone	cream, medium-grained, <i>show of oil</i>
1244-49	Limestone	dark gray-brown, fine-grained, siliceous, dolomitic
1249-53	Limestone	cream and tan, medium-grained, fragmental, slightly oolitic
1253-57	Limestone	cream, medium-grained, oolitic, slight interoolite porosity
1257-64	Limestone	cream, medium-grained, oolitic, tight
1264-70	Limestone	cream and gray-tan, fine- to medium-grained, dolomitic

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN		
MISSISSIPPIAN .....	745	1270 (last sample)
Pennington Formation .....	745	1000
Bangor Limestone .....	1000	1115
Hartselle Formation .....	1115	1145
Monteagle Limestone .....	1145	1270 (last sample)

#### MAP NUMBER—126 Petroleum, Inc., Howard Baker No. 1

CARTER COORD.: SW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 12, 3S-59E      ELEVATION: 1478 (T)  
DATE: 1960      TOTAL DEPTH: 3030  
SAMPLE SET: Nos. 1265 and 1317  
PRODUCTION: Oil  
REMARKS: Oil show reported @ 1558-70. Initial production reported as 6 BOPH after acid.

SAMPLE DESCRIPTION

645-52	Sandstone	gray and light-gray, fine-grained, shaly, subangular
652-61	Samples missing	
661-83	Sandstone	gray, fine-grained, subangular—minor amount of shale, dark-gray, sandy
683-95	Sandstone	light-gray, fine-grained, subangular
695-704	Sandstone	light-gray, fine-grained, subangular—minor amount of siltstone, dark-gray, shaly
704-17	Sandstone	light-gray, fine-grained, subangular
717-36	Siltstone	dark-gray, shaly
736-77	Shale	dark-gray
777-85	Samples missing	
785-92	Shale	dark-gray, silty
792-800	Sandstone	light-gray, fine- to medium-grained, subangular, slightly conglomeratic
800-07	Sandstone	light-gray, medium-grained, subangular
807-17	Sandstone	light-gray, fine- to medium-grained, subangular, slightly conglomeratic (water?)
817-23	Samples missing	
823-32	Sandstone	light-gray, fine- to medium-grained, subangular, slightly conglomeratic—minor amount of shale, dark-gray, <i>trace of coal</i>
832-42	Samples missing	
842-914	Sandstone	light-gray, medium-grained, subangular, conglomeratic
914-19	Samples missing	
919-26	Sandstone	light-gray, fine-grained, subangular, slightly conglomeratic
926-36	Sandstone	light-gray, fine-grained, subangular
936-61	Samples missing	
961-81	Sandstone	light-gray, fine-grained, subangular
981-98	Sandstone	light-gray, medium- to coarse-grained, subangular, conglomeratic
998-1033	Sandstone	light-gray, medium-grained, subangular, conglomeratic
1033-56	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
1056-80	Sandstone	gray, very fine-grained, subangular, slightly sideritic
1080-89	Sandstone	gray, very fine-grained, subangular
1089-95	Sandstone	light-gray, fine- to medium-grained, subangular—minor amount of shale, dark-gray
1095-1100	Sandstone	light-gray, fine- to medium-grained, subangular—minor amount of shale, dark-gray— <i>minor amount of bright coal</i>
1100-13	Limestone	light-tan and brown, medium-grained, pseudo-oolitic, knotty
1113-23	Limestone	cream and brown, fine- to medium-grained, pseudo-oolitic
1123-32	Limestone	cream and brown, fine- to medium-grained, pseudo-oolitic—minor amount of dolomite, light-gray, fine-grained, limy
1132-42	Dolomite	light-gray, fine-grained, limy—minor amount of shale, maroon and gray, dolomitic

1142-47	Siltstone	maroon and gray—minor amount of limestone, gray-tan, fine-grained
1147-52	Siltstone	maroon and gray, dolomitic—minor amount of limestone, gray-tan, fine-grained
1152-57	Siltstone	gray and maroon, dolomitic, sandy—minor amount of limestone, gray-tan, fine-grained
1157-62	Siltstone	gray and maroon, dolomitic, sandy
1162-79	Sandstone	gray, fine-grained, subangular, dolomitic—minor amount of siltstone, gray and maroon, dolomitic
1179-95	Sandstone	light-gray, fine-grained, subangular
1195-1203	Siltstone	gray and maroon, dolomitic—minor amount of sandstone, light-gray, fine-grained, subangular—minor amount of limestone, tan, fine-grained
1203-11	Dolomite	gray-brown, fine-grained—minor amount of siltstone, gray and maroon, dolomitic
1211-16	Samples missing	
1216-21	Dolomite	gray-brown, fine-grained—minor amount of siltstone, gray and maroon, dolomitic
1221-26	Siltstone	gray and maroon, dolomitic—minor amount of dolomite, gray-brown, fine-grained
1226-32	Siltstone	gray and maroon, dolomitic—equal amount of dolomite, gray-brown, fine-grained
1232-43	Dolomite	gray-brown, fine-grained—minor amount of siltstone, gray and maroon, dolomitic
1243-54	Siltstone	gray-brown, dolomitic—much Pencil Cave from above
1254-61	Sandstone	gray, fine-grained, subangular—minor amount of siltstone, gray-brown, dolomitic
1261-75	Limestone	dark-brown and white mottled, medium-grained, oolitic, fragmental
1275-83	Shale	maroon—minor amount of siltstone, gray-green, dolomitic
1283-90	Shale	maroon—minor amount of siltstone, gray-green, dolomitic—minor amount of limestone, gray-tan, fine-grained, dolomitic
1290-95	Shale	maroon—minor amount of siltstone, gray-green, dolomitic
1295-99	Shale	maroon—minor amount of dolomite, gray, fine-grained
1299-1306	Shale	maroon—minor amount of sandstone, gray, fine-grained, subangular—minor amount of dolomite, gray, fine-grained
1306-11	Sandstone	gray, fine-grained, subangular, dolomitic—minor amount of shale, maroon
1311-28	Sandstone	gray, fine-grained, subangular, dolomitic
1328-34	Sandstone	light-gray, fine-grained, limy—minor amount of limestone, brown, medium-grained, fragmental
1334-38	Sandstone	light-gray, fine-grained, limy—equal amount of limestone, tan, fine- to medium-grained
1338-68	Dolomite	gray-tan, fine-grained, very limy
1368-91	Limestone	dark-brown and white mottled, medium-grained, fragmental
1391-98	Limestone	gray-tan, fine-grained—minor amount of dolomite, tan, fine-grained, limy

1398-1403	Limestone	gray-tan, fine-grained, dolomitic—minor amount of dolomite, tan, fine-grained, limy
1403-11	Limestone	brown and cream mottled, medium-grained, fragmental, slightly oolitic
1411-44	Limestone	brown and cream mottled, medium-grained, fragmental
1444-90	Limestone	tan and brown, medium-grained
1490-97	Shale	maroon, dolomitic—minor amount of sandstone, light-gray, fine-grained, dolomitic
1497-1505	Shale	maroon, dolomitic—minor amount of siltstone, green, dolomitic—minor amount of sandstone, light-gray, fine-grained, subangular, dolomitic
1505-14	Limestone	cream and tan, medium-grained—minor amount of sandstone, gray, fine-grained, subangular, dolomitic
1514-19	Limestone	cream and tan, medium-grained, pseudo-oolitic
1519-44	Limestone	cream and tan, medium-grained
1544-50	Limestone	cream and tan, fine- to medium-grained, pseudo-oolitic
1550-70	Limestone	cream and tan, fine- to medium-grained
1570-81	Limestone	cream, medium-grained, oolitic, good interoolite porosity, <i>show of oil</i>
1581-90	Limestone	cream and tan, medium-grained
1590-97	Limestone	cream and tan, medium-grained, slightly oolitic
1597-1612	Limestone	cream, medium-grained, oolitic—free oolites
1612-62	Limestone	gray-cream, medium-grained, oolitic—free oolites
1662-68	Limestone	gray-tan, medium-grained, pseudo-oolitic
1668-77	Limestone	gray-cream, medium-grained, oolitic—free oolites
1677-90	Limestone	gray-tan, fine-grained
1690-95	Limestone	tan, fine-grained, dolomitic, very cherty, <i>show of oil</i>
1695-99	Limestone	tan, fine-grained, dolomitic, very cherty
1699-1711	Limestone	gray-tan, fine-grained, dolomitic, cherty
1711-26	Dolomite	cream and gray, fine-grained
1726-34	Dolomite	cream and gray, fine-grained, cherty
1734-53	Dolomite	cream and gray, fine-grained—minor amount of limestone, cream, medium-grained
1753-60	Dolomite	gray, fine-grained
1760-68	Dolomite	gray, fine-grained, <i>slight show of oil</i>
1768-75	Dolomite	gray-tan, fine-grained, slightly cherty
1775-82	Dolomite	gray-tan, fine-grained, slightly cherty—minor amount of sandstone, tan, fine-grained, subangular, dolomitic
1782-89	Dolomite	gray and brown, fine- to medium-grained, sandy
1789-1814	Sandstone	dark-gray, fine-grained, subangular, dolomitic
1814-29	Sandstone	dark-gray, fine-grained, subangular, dolomitic—minor amount of pink and blue chert
1829-36	Sandstone	dark-gray, fine-grained, subangular, dolomitic—minor amount of siltstone, dark-gray, dolomitic, sandy
1836-44	Siltstone	dark-gray, dolomitic, sandy—minor amount of sandstone, dark-gray, fine-grained, subangular, dolomitic
1844-53	Sandstone	dark-gray, fine-grained, subangular, dolomitic—minor amount of siltstone, dark-gray, dolomitic, sandy
1853-88	Siltstone	dark-gray, dolomitic, sandy
1888-1937	Siltstone	dark-gray, dolomitic, shaly

1937-48	Siltstone	dark-gray, dolomitic, shaly—minor amount of limestone, gray, medium-grained, <i>slight show of oil</i>
1948-60	Limestone	gray, medium-grained—minor amount of siltstone, dark-gray, dolomitic, shaly
1960-75	Limestone	gray and white, medium-grained
1975-88	Limestone	brown and light-gray, medium-grained, slightly cherty
1988-95	Limestone	brown and light-gray, medium-grained, slightly cherty, <i>slight show of oil</i>
1995-2014	Limestone	brown and light-gray, medium-grained—minor amount of chert
2014-46	Silicestone	gray, medium-grained, limy—minor amount of chert
2046-90	Shale	dark-brown, brown streak
2090-2111	Siltstone	dark-gray, slightly dolomitic
2111-19	Siltstone	dark-gray, dolomitic—minor amount of sandstone, gray, fine-grained, dolomitic, <i>slight show of oil</i>
2119-54	Siltstone	dark-gray, dolomitic
2154-91	Dolomite	gray, medium-grained, silty
2191-2208	Siltstone	dark-gray, dolomitic
2208-43	Siltstone	dark-gray, dolomitic—minor amount of siltstone, maroon, dolomitic
2243-2305	Siltstone	gray and maroon, dolomitic
2305-12	Siltstone	dark-gray, dolomitic, limy
2312-30	Siltstone	dark-gray and maroon, dolomitic, limy
2330-45	Limestone	gray and white, medium-grained, silty, dolomitic—minor amount of siltstone, dark-gray and maroon, dolomitic, limy
2345-2450	Limestone	gray and white, medium-grained, silty, dolomitic
2450-2508	Limestone	gray, medium-grained, dolomitic, silty
2508-2762	Limestone	gray and white, medium-grained, silty, dolomitic
2762-2985	Limestone	brown and white, medium-grained, silty
2985-95	Limestone	gray-tan, fine-grained—minor amount of bentonite, yellowish-green, biotitic
2995-3008	Limestone	gray-tan, fine-grained—minor amount of Pencil Cave float
3008-18	Limestone	gray-tan, fine-grained
3018-21	Bentonite	light-gray, biotitic
3021-30	Bentonite	light-gray, biotitic—minor amount of limestone, gray-tan, fine-grained

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	645	1100
	(first sample)	
MISSISSIPPIAN .....	1100	
Pennington Formation .....	1100	1368
Bangor Limestone .....	1368	1490
Hartselle Formation .....	1490	1502
Monteagle Limestone .....	1502	1677
St. Louis Limestone .....	1677	1780
Warsaw Formation .....	1780	
Fort Payne Formation .....		2046

	<i>From</i>	<i>To</i>
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	2046	2090
ORDOVICIAN .....	2090	3030
		(last sample)
Sequatchie Formation .....	2090	
Leipers Formation		
Nashville Group .....		2985
Stones River Group .....	2985	3030
		(last sample)

**MAP NUMBER—127**  
**Petroleum, Inc., Howard Baker No. 3**

CARTER COORD.: NW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 12, 3S-59E   ELEVATION: 1482 (S)  
DATE: 1963   TOTAL DEPTH: 1700±  
PRODUCTION: Dry  
REMARKS: Oil show reported @ 1550-59.

**MAP NUMBER—128**  
**Howard Baker-Olds Oil Co., Payne No. 1**

CARTER COORD.: SW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 10, 3S-60E   ELEVATION: 1203 (S)  
DATE: 1947   TOTAL DEPTH: 3004  
SAMPLE SET: No. 383  
PRODUCTION: Dry  
REMARKS: Drilled to 2002 in 1946 by Howard Baker. Deepened to 3004  
in 1947 by Olds Oil Co.

SAMPLE DESCRIPTION

5-20	Sandstone	ocherous, fine-grained, subangular, shaly, silty
20-25	Shale	gray, silty
25-30	Sandstone	gray, fine-grained, subangular
30-73	Shale	dark-gray
73-80	Siltstone	gray, sideritic, shaly
80-85	Sandstone	light-gray, fine-grained
85-100	Sandstone	light-gray, fine-grained—minor amount of shale, dark-gray
100-05	Shale	dark-gray, silty
105-15	Samples missing	
115-21	Sandstone	light-gray, fine-grained, subangular
121-28	Sandstone	gray, fine-grained, subangular
128-35	Shale	dark-gray
135-40	Sandstone	gray, fine-grained, subangular—minor amount of shale, dark-gray



140-50	Sandstone	gray, fine-grained, subangular, sideritic
150-68	Sandstone	gray and dark-gray, fine-grained, subangular, shaly
168-73	Shale	dark-gray
173-80	Shale	dark-gray, sandy
180-85	Sandstone	gray, fine-grained, subangular, shaly—minor amount of shale, dark-gray, sandy
185-95	Sandstone	gray, fine-grained, subangular, shaly
195-250	Shale	dark-gray, sandy
250-56	Shale	dark-gray
256-300	Shale	dark-gray, sandy
300-14	Sandstone	gray, fine-grained, subangular, shaly—minor amount of shale, dark-gray, sandy
314-17	Sandstone	gray, fine-grained, subangular, shaly
317-35	Sandstone	light-gray, fine- to medium-grained, subangular
335-46	Sandstone	light-gray, fine-grained, subangular
346-60	Sandstone	light-gray, fine-grained, subangular— <i>minor amount of coal</i>
360-70	Sandstone	light-gray, fine-grained, subangular
370-77	Sandstone	light-gray, medium-grained, subangular
377-84	Sandstone	gray, fine-grained, subangular
384-97	Shale	dark-gray, sandy
397-430	Shale	dark-gray
430-44	Sandstone	light-gray, fine- to medium-grained, conglomeratic
444-54	Sandstone	light-gray, medium-grained, subangular, conglomeratic
454-90	Sandstone	gray, fine-grained, subangular, shaly—minor amount of shale, dark-gray
490-99	Samples missing	
499-524	Sandstone	light-gray, fine-grained, subangular
524-28	Sandstone	light-gray, fine-grained, subangular—minor amount of shale, dark-gray
528-35	Sandstone	gray, fine-grained, subangular
535-42	Sandstone	gray, fine-grained, subangular—minor amount of shale, dark-gray
542-46	Sandstone	gray, fine-grained, subangular—equal amount of shale, dark-gray
546-605	Shale	dark-gray
605-10	Shale	dark-gray—minor amount of sandstone, gray, fine-grained, subangular
610-90	Sandstone	light-gray, fine-grained, subangular
690-702	Sandstone	light-gray, medium-grained, subangular, conglomeratic
702-08	Samples missing	
708-53	Sandstone	light-gray, medium-grained, subangular, conglomeratic
753-60	Sandstone	light-gray, medium-grained, subangular, slightly conglomeratic
760-93	Sandstone	light-gray, medium-grained, subangular, conglomeratic
793-840	Sandstone	light-gray, fine-grained, subangular, slightly conglomeratic
840-65	Sandstone	light-gray, medium-grained, subangular, conglomeratic
865-70	Samples missing	
870-71	Sandstone	light-gray, fine-grained, subangular, conglomeratic
871-903	Sandstone	light-gray, medium-grained, subangular, conglomeratic
903-09	Sandstone	dark-gray, fine-grained, shaly

909-16	Samples missing	
916-44	Sandstone	dark-gray, fine-grained, shaly
944-62	Sandstone	dark-gray, fine-grained, shaly—minor amount of shale, dark-gray, sandy
962-69	Sandstone	gray, fine-grained, subangular
969-75	Samples missing	
975-79	Sandstone	light-gray, fine-grained, subangular
979-86	Samples missing	
986-1002	Sandstone	light-gray, fine-grained, subangular
1002-10	Limestone	dark gray-brown, fine-grained, shaly
1010-25	Limestone	gray-green, fine-grained, silty—minor amount of shale, maroon, limy
1025-31	Shale	maroon, gray-green, limy
1031-37	Shale	maroon, limy
1037-48	Shale	maroon, limy—minor amount of sandstone, light-gray, fine-grained, subangular
1048-60	Shale	maroon
1060-67	Shale	maroon and green
1067-76	Shale	maroon
1076-82	Shale	maroon—minor amount of limestone, gray, fine-grained, shaly
1082-86	Limestone	gray, fine-grained, shaly—minor amount of shale, maroon
1086-91	Shale	maroon
1091-96	Shale	maroon and gray-green
1096-1100	Limestone	gray, fine-grained, shaly
1100-30	Shale	maroon and gray
1130-39	Shale	gray
1139-55	Shale	gray, limy
1155-63	Shale	gray, limy—minor amount of limestone, gray-brown, fine-grained
1163-72	Shale	maroon—minor amount of limestone, gray-brown, medium-grained, shaly
1172-88	Shale	maroon—minor amount of sandstone, gray, fine-grained, limy
1188-97	Shale	gray and maroon
1197-1208	Shale	gray—minor amount of limestone, gray and white, medium-grained, knotty
1208-17	Limestone	gray-brown, fine- to medium-grained, knotty, shaly
1217-32	Limestone	gray, fine-grained, shaly
1232-53	Limestone	dark-gray and white, medium-grained, knotty
1253-60	Shale	gray, limy
1260-65	Limestone	gray-brown, medium-grained, fragmental
1265-79	Limestone	dark gray-brown and white, medium-grained, fragmental
1279-88	Limestone	tan, fine-grained
1288-1307	Limestone	tan and brown, fine- to medium-grained
1307-33	Limestone	tan and brown, medium-grained, fragmental
1333-43	Limestone	gray and white, fine- to medium-grained, knotty
1343-59	Limestone	dark gray-brown, fine-grained
1359-65	Limestone	dark gray-brown and white, fine-grained

1365-75	Sandstone	gray-green, fine-grained, limy
1375-79	Sandstone	white, fine-grained, clean—minor amount of shale, maroon and gray
1379-94	Limestone	gray-tan, fine- to medium-grained, fragmental
1394-1402	Limestone	dark-gray, fine-grained—minor amount of shale, green
1402-27	Limestone	cream, fine- to medium-grained, knotty
1427-43	Limestone	tan, fine-grained
1443-55	Limestone	gray-tan, fine-grained
1455-61	Limestone	cream, fine- to medium-grained
1461-77	Limestone	cream, medium-grained, oolitic
1477-88	Limestone	tan, medium-grained
1488-98	Limestone	gray-tan, fine-grained, cherty
1498-1513	Limestone	cream and tan, fine- to medium-grained
1513-30	Limestone	cream, medium-grained, cherty
1530-36	Samples missing	
1536-46	Limestone	cream, medium-grained
1546-51	Limestone	tan, fine-grained, fragmental
1551-65	Limestone	white, medium-grained, oolitic with good interoolite porosity
1565-73	Limestone	white, medium-grained
1573-92	Limestone	tan, fine- to medium-grained, fragmental, knotty
1592-1610	Limestone	tan, fine-grained, cherty
1610-23	Limestone	tan, fine-grained
1623-34	Dolomite	tan, fine-grained, cherty, limy
1634-44	Dolomite	tan, fine-grained, limy
1644-59	Dolomite	tan, fine-grained, limy—minor amount of shale, maroon, dolomitic
1659-69	Dolomite	tan, fine-grained, limy
1669-76	Dolomite	tan, fine-grained, limy—minor amount of sandstone, gray, fine-grained, limy, dolomitic
1676-95	Sandstone	tan, fine-grained, limy—minor amount of sandstone, gray, fine-grained, limy, dolomitic
1695-97	Sandstone	gray, fine-grained, limy, dolomitic, with few fragments of red mineral
1697-1705	Sandstone	gray, fine-grained, limy, dolomitic—minor amount of chert
1705-15	Dolomite	dark-gray, shaly
1715-42	Sandstone	gray-brown, fine-grained, dolomitic
1742-75	Sandstone	gray, fine-grained, dolomitic
1775-87	Sandstone	gray-green, fine-grained, shaly, limy
1787-1800	Siltstone	dark-gray, shaly, limy
1800-06	Shale	dark-gray, limy
1806-12	Siltstone	dark-gray, limy—equal amount of shale, dark-gray, limy, dolomitic
1812-17	Siltstone	dark-gray and gray, limy, dolomitic—minor amount of chert
1817-50	Siltstone	gray, limy—minor amount of chert, gray
1850-1904	Siltstone	gray-brown, dolomitic—minor amount of chert, gray
1904-19	Siltstone	gray, dolomitic—minor amount of chert, gray
1919-25	Shale	dark gray-brown, brown streak
1925-33	Samples missing	

1933-46	Shale	dark brown-black, brown streak
1946-76	Samples missing	
1976-96	Shale	dark-gray, slightly limy
1996-2002	Shale	dark-gray, slightly limy—minor amount of dolomite, gray, fine-grained, silty
2002-12	Samples missing	
2012-22	Shale	dark-gray, slightly limy—minor amount of dolomite, gray, fine-grained, few fragments of shale, maroon, dolomitic
2022-30	Siltstone	gray-brown, dolomitic
2030-38	Dolomite	gray, fine-grained, silty
2038-46	Dolomite	gray-brown, fine-grained, very silty
2046-51	Dolomite	gray-brown, fine-grained, very silty, shaly
2051-60	Samples missing	
2060-70	Dolomite	gray-brown, fine-grained, very silty, shaly
2070-76	Samples missing	
2076-79	Dolomite	gray-brown, fine-grained, silty
2079-93	Samples missing	
2093-2100	Dolomite	gray-brown, fine-grained, very silty—minor amount of shale, maroon, dolomitic
2100-07	Dolomite	gray-tan, fine-grained, very silty—minor amount of shale, maroon, dolomitic
2107-26	Samples missing	
2126-40	Dolomite	gray-tan, fine-grained, very silty—minor amount of shale, maroon, dolomitic
2140-50	Dolomite	gray, fine-grained, very silty
2150-70	Samples missing	
2170-76	Dolomite	gray, medium-grained, very silty
2176-81	Limestone	gray, fine-grained, silty, shaly, dolomitic
2181-95	Limestone	gray-brown, fine-grained, dolomitic, silty, shaly
2195-2200	Dolomite	gray, fine-grained, silty, shaly
2200-05	Limestone	brown and maroon, fine-grained, dolomitic, silty, shaly
2205-10	Dolomite	red-brown, medium-grained, very shaly, very silty
2210-20	Samples missing	
2220-37	Siltstone	gray, dolomitic, limy
2237-50	Limestone	gray, fine-grained, silty
2250-65	Limestone	gray, fine-grained, very silty
2265-84	Siltstone	gray, dolomitic
2284-90	Limestone	gray, fine-grained, silty
2290-95	Limestone	gray and white, fine-grained, silty
2295-2303	Samples missing	
2303-31	Limestone	gray and white, fine-grained, silty
2331-37	Limestone	gray and white, fine-grained
2337-47	Samples missing	
2347-75	Siltstone	gray, limy, dolomitic
2375-84	Limestone	gray and white, fine-grained—minor amount of siltstone, gray, dolomitic, limy
2384-2400	Siltstone	gray, dolomitic, limy—minor amount of limestone, gray and white, fine-grained
2400-13	Siltstone	gray, dolomitic, limy

2413-35	Siltstone	gray, dolomitic, limy—minor amount of limestone, gray and white, fine-grained
2435-45	Siltstone	gray, dolomitic—minor amount of limestone, gray and white
2445-54	Limestone	gray and white, fine-grained—minor amount of siltstone, gray, dolomitic
2454-75	Limestone	gray and white, fine- to medium-grained
2475-80	Limestone	gray and white, fine- to medium-grained—minor amount of siltstone, gray, limy
2480-2500	Limestone	gray and white, fine- to medium-grained, silty
2500-43	Limestone	gray and white, fine- to medium-grained
2543-65	Limestone	gray and white, fine- to medium-grained—minor amount of siltstone, gray, limy
2565-75	Limestone	gray, fine-grained, silty—minor amount of siltstone, gray, limy, dolomitic
2575-85	Limestone	gray-brown and white, fine- to medium-grained, silty
2585-95	Limestone	gray-brown and white, fine- to medium-grained, silty—minor amount of siltstone, gray, limy, dolomitic
2595-2636	Limestone	gray-brown and white, fine- to medium-grained, silty
2636-45	Limestone	gray and white, fine- to medium-grained
2645-55	Limestone	gray and white, fine- to medium-grained—minor amount of siltstone, gray, dolomitic, limy
2655-87	Limestone	gray and white, fine- to medium-grained
2687-2775	Limestone	brown and white, fine-grained
2775-85	Limestone	brown and white, fine- to medium-grained, phosphatic
2785-2822	Limestone	brown and white, fine- to medium-grained
2822-35	Limestone	brown and white, fine- to medium-grained, phosphatic
2835-41	Limestone	brown and white, fine- to medium-grained, phosphatic—minor amount of siltstone, gray, limy, dolomitic
2841-50	Limestone	brown and white, fine- to medium-grained, phosphatic
2850-58	Limestone	brown and white, fine- to medium-grained, phosphatic—minor amount of siltstone, gray, limy, dolomitic
2858-70	Samples missing	
2870-85	Limestone	brown and white, fine- to medium-grained, phosphatic
2885-95	Limestone	gray-brown, fine-grained, silty, dolomitic—minor amount of shale, green-gray, bentonitic
2895-2908	Samples missing	
2908-48	Limestone	brown and white, fine-grained
2948-54	Limestone	gray-tan and white, fine-grained
2954-68	Limestone	gray-tan and white, fine-grained, cherty
2968-90	Limestone	gray-tan and white, fine-grained
2990-3004	Limestone	gray and gray-tan, fine-grained

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	5	1002
MISSISSIPPIAN .....	1002	
Pennington Formation .....	1002	1260
Bangor Limestone .....	1260	1365

	<i>From</i>	<i>To</i>
Hartselle Formation .....	1365	1402
Monteagle Limestone .....	1402	1592
St. Louis Limestone .....	1592	1674
Warsaw Formation .....	1674	
Fort Payne Formation .....		1919
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1919	
ORDOVICIAN .....		3004
		(last sample)
Sequatchie Formation		
Leipers Formation		
Nashville Group .....		2885
Stones River Group .....	2885	3004
		(last sample)

**MAP NUMBER—129**  
**White Brothers Oil & Gas Co., G. A. Chandler No. 1**

CARTER COORD.: SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 16, 3S-60E

ELEVATION: 1355 (T)

DATE: 1917

TOTAL DEPTH: 2090

PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Soil, yellow, soft .....	0	4
Sand, blue, hard .....	4	30
Sand, gray, hard .....	30	60
Hole full of water @ 37		
Slate, brown, soft .....	60	90
Sand, white, hard .....	90	125
Slate, black, soft .....	125	150
Sand, gray, hard .....	150	625
Slate, dark, medium .....	625	750
Sand, gray, hard .....	750	760
Slate, brown, soft .....	760	765
Sand, gray, hard .....	765	1040
Lime, white, hard .....	1040	1046
Shale, brown, soft .....	1046	1081
Sand, gray, hard .....	1081	1100
Lime, brown, hard .....	1100	1150
Red rock (soft shale) .....	1150	1180
Sand, gray, hard .....	1180	1200
Red rock (soft shale) .....	1200	1215
Lime, white, hard .....	1215	1218
Slate, brown, soft .....	1218	1230
Sand, white, hard .....	1230	1250
Slate, brown, soft .....	1250	1250

<i>Lithology</i>	<i>From</i>	<i>To</i>
Lime, white, hard .....	1265	1275
Slate, dark, soft .....	1275	1300
Red rock (soft shale) .....	1300	1305
Lime, white, hard .....	1305	1318
Sand, dark, medium .....	1318	1338
Lime and slate, black .....	1338	1530
Sand, gray, hard .....	1530	1550
Lime, black and white, hard .....	1550	1840
Little gas @ 1608		
Lime, blue and red .....	1840	1865
Lime, black, white, gray .....	1865	2090
Gas and show of oil @ 2000		

STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	4	1100
MISSISSIPPIAN .....	1100	2090
		(last record)
Pennington Formation .....	1100	1403
Bangor Limestone .....	1403	1510
Hartselle Formation .....	1510	1530
Monteagle Limestone .....	1530	
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		2090
		(last record)

MAP NUMBER—130  
Toomey & Todd, Brandow No. 1

CARTER COORD.: SW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 17, 3S-60E      ELEVATION: 1300 (T)  
DATE: 1928      TOTAL DEPTH: 2002  
PRODUCTION: Dry

DRILLER'S LOG

<i>Lithology</i>	<i>From</i>	<i>To</i>
Clay, sandy .....	0	19
Wood conductor to 19		
Slate, black .....	19	82
Lime, black (water) .....	82	185
Slate, black .....	185	280
Sand, white, hard .....	280	510
Slate, black .....	510	610
Lime, dark, gritty .....	610	640
Sand, gray .....	640	645
Show of gas		

<i>Lithology</i>	<i>From</i>	<i>To</i>
Lime, dark, gritty .....	645	670
Sand, gray .....	670	860
Slate, black .....	860	866
Sand, gray, very hard .....	866	895
Slate, black .....	895	900
Chert, white .....	900	915
Lime, gray .....	915	920
Sand, gray, very hard .....	920	945
Set 8¼" casing @ 932		
Slate, black .....	945	960
Hole filled with salt water @ 960. Exhausted in 5 days.		
Sand, black .....	960	963
Lime, gray and black .....	963	985
Slate, gray .....	985	1020
Red rock (shale) .....	1020	1080
Slate, gray .....	1080	1130
Lime .....	1130	1150
Red rock (shale) .....	1150	1180
Slate, gray .....	1180	1220
Lime, gray .....	1220	1260
Pencil Cave (caving lime) .....	1260	1270
Lime, gray and white .....	1270	1360
Set 6½" casing @ 1283		
Red rock (lime?) .....	1360	1385
Lime, gray .....	1385	1800
Small show of gas @ 1505		
Lime, dark-gray, gritty .....	1800	1940
Black shale .....	1940	1980
Lime, dark-gray .....	1980	2002

#### STRATIGRAPHIC INTERPRETATION

	<i>From</i>	<i>To</i>
PENNSYLVANIAN .....	19	963
MISSISSIPPIAN .....	963	
Pennington Formation .....	963	
Bangor Limestone .....		1360
Hartselle Formation .....	1360	1385
Monteagle Limestone .....	1385	
St. Louis Limestone		
Warsaw Formation		
Fort Payne Formation .....		1940
DEVONIAN AND MISSISSIPPIAN		
Chattanooga Shale .....	1940	1980
ORDOVICIAN .....	1980	2002

(last record)



**MAP NUMBER—131**  
**McCurdy & Co., Round Mtn. Coal & Lumber Co. No. 1**

CARTER COORD.: NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 15, 3S-61E      ELEVATION: 1234 (S)  
DATE: 1918      TOTAL DEPTH: 1815  
PRODUCTION: Dry

DRILLER'S LOG

10" surface pipe set at 42 $\frac{1}{2}$   
8" casing @ 531  
Gas @ 897  
Set 6 $\frac{5}{8}$ " casing on packer to test out for gas; continued with 6 $\frac{5}{8}$ " hole to 835 and got salt water.

Then pulled 6 $\frac{5}{8}$ " casing, reamed hole to 8 inches, and continued with 8-inch wet hole to 1278; had dry hole to 1405, but hole caved in red rock formation.

Pulled 6 $\frac{5}{8}$ " casing and reamed hole to 8-inch from 1278 to 1379. Total amount of 6 $\frac{5}{8}$ " casing in hole was 1379 feet, but should have used more casing on account of red rock cave at 1575 and 1600.

Gas estimated at 300,000 cubic feet at 1630 with good sand from 1630 to 1660.

Total depth of well, 6 $\frac{5}{8}$ " at bottom, 1815 ft.

Well plugged back to 1652 with black pine poles 10 feet long. Tubing run with packer at 1652 feet.

Complete strings of 6 $\frac{5}{8}$ -inch and 8-inch removed from the hole, and well completed August 17, 1918.

**MAP NUMBER—132**  
**Midland Corp., et al., Baker-Payne Estate No. 1**

CARTER COORD.: NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 1, 4S-60E      ELEVATION: 1415 (T)  
DATE: 1959      TOTAL DEPTH: 2121  
PRODUCTION: Dry  
REMARKS: Oil show reported @ 1200 (very slight show).