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## **Coal rank and stratigraphy of Pennsylvanian coal and coaly shale samples, Young County, north-central Texas**

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# Coal rank and stratigraphy of Pennsylvanian coal and coaly shale samples, Young County, north-central Texas

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## Abstract

Vitrinite reflectance ( $R_o$ ) measurements were made to determine the rank of selected subsurface coal and coaly shale samples from Young County, north-central Texas, for the National Coal Resources Database System (NCRDS) State Cooperative Program conducted by the Bureau of Economic Geology at The University of Texas at Austin. This research is the continuation of a pilot study that began in adjacent Archer County, and forms part of a larger investigation of the coalbed methane resource potential of Pennsylvanian coals in north-central Texas.

A total of 57 samples of coal and coaly shale fragments were hand-picked from drill cuttings from depths of about 2,000 ft in five wells, and  $R_o$  determinations were made on an initial 10-sample subset. Electric-log correlation of the sampled wells indicates that the collected samples represent coal and coaly shale layers in the Strawn (Pennsylvanian), Canyon (Pennsylvanian), and Cisco (Pennsylvanian-Permian) Groups.

Coal rank in the initial sample subset ranges from lignite ( $R_o=0.39$ ), in a sample from the Cisco Group at a depth of 310 to 320 ft, to high volatile bituminous A coal ( $R_o=0.91$ ) in a sample from the lower part of the Canyon Group at a depth of 2,030 to 2,040 ft.

## Introduction

This report summarizes studies of the Texas Coal Sample Collection for Rank Determination project carried out by the Bureau of Economic Geology (BEG) at The University of Texas at Austin from April 2005 through February 2006. This work is part of the National

Coal Resources Database System (NCRDS) State Cooperative Program of the U.S. Geological Survey (USGS). Coal and coaly shale fragments were collected from drill cuttings from five wells in Young County (fig. 1), and vitrinite reflectance measurements ( $R_o$ ) were made on a subset of the samples. The stratigraphy containing the sampled intervals is summarized in figure 2. These studies are a continuation of a pilot program of subsurface coal sampling by the BEG that began in 2004 in adjacent Archer County (Guevara and Sakurai, 2005; fig. 1), and form part of a larger assessment of the coalbed methane resource potential of Pennsylvanian coals in north-central Texas.

The sampled wells are located north (downdip) of outcrops of Pennsylvanian bituminous coal (fig. 1) whose stratigraphic position, characteristics, and depositional setting were summarized in Mapel (1967), Brown and others (1972, 1987, 1990), Galloway and Brown (1972), Brown (1973), Erxleben (1973, 1974), Cleaves (1973, 1975), and Evans (1974). Data on the regional extent and properties of these coals were compiled by Kim (2003) in a geographic information system (GIS) database for the NCRDS program.

### Objectives

The objectives of this investigation were to assess the rank of coals in the shallow subsurface of Young County (at depths of up to about 2,000 ft), and to estimate the stratigraphic position of the samples collected for the assessment.

### Data

Five wells (Table 1) were selected from candidate wells identified in Brown and others (1987) on the basis of the availability of drill cuttings and electric logs on

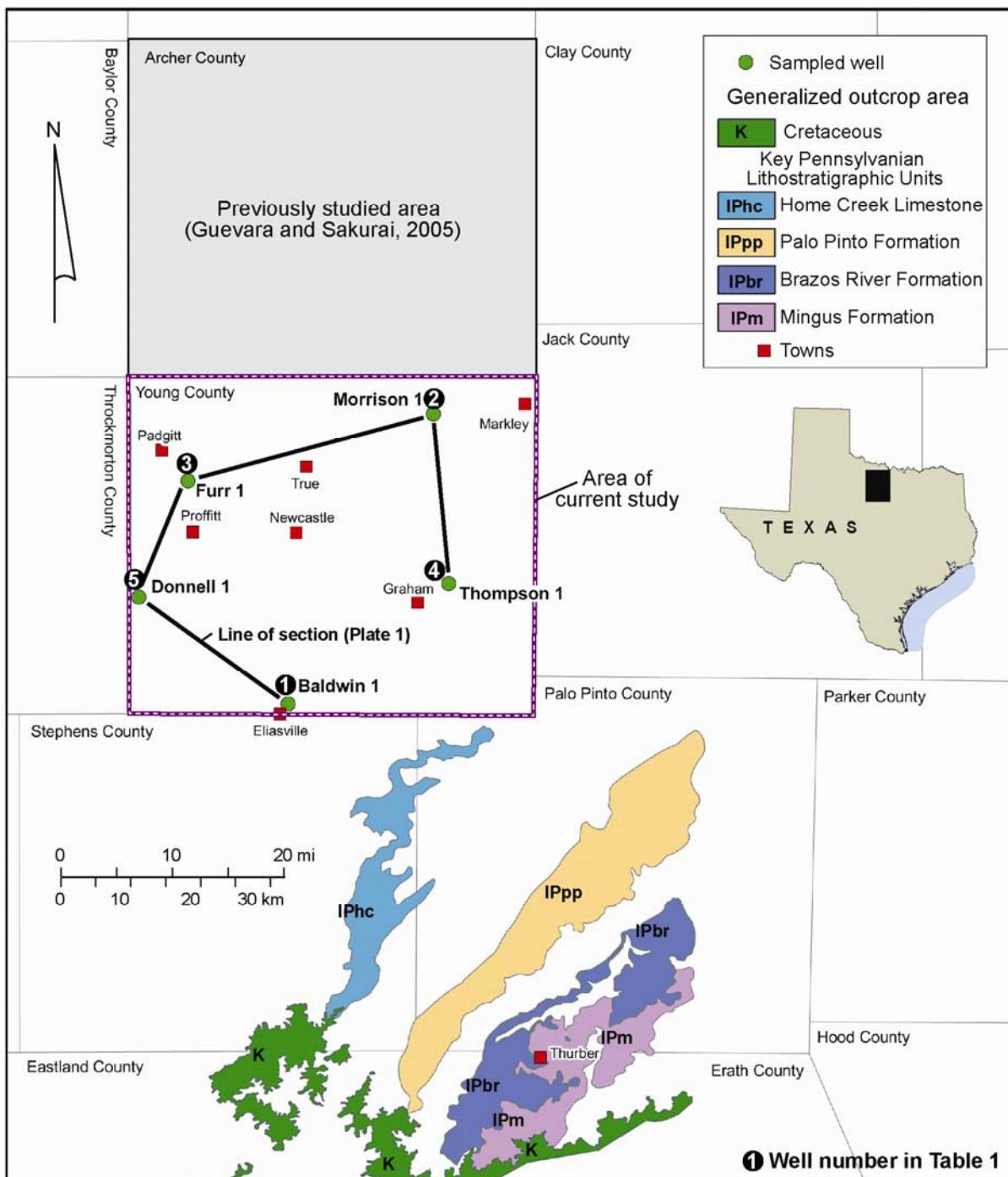


Figure 1. Index map of the study area showing locations of sampled wells and generalized outcrop area of key Pennsylvanian lithostratigraphic units. Young County lies north (downdip) of the outcrop area of north-central Texas bituminous coals. Outcrop area from Brown and others (1972).

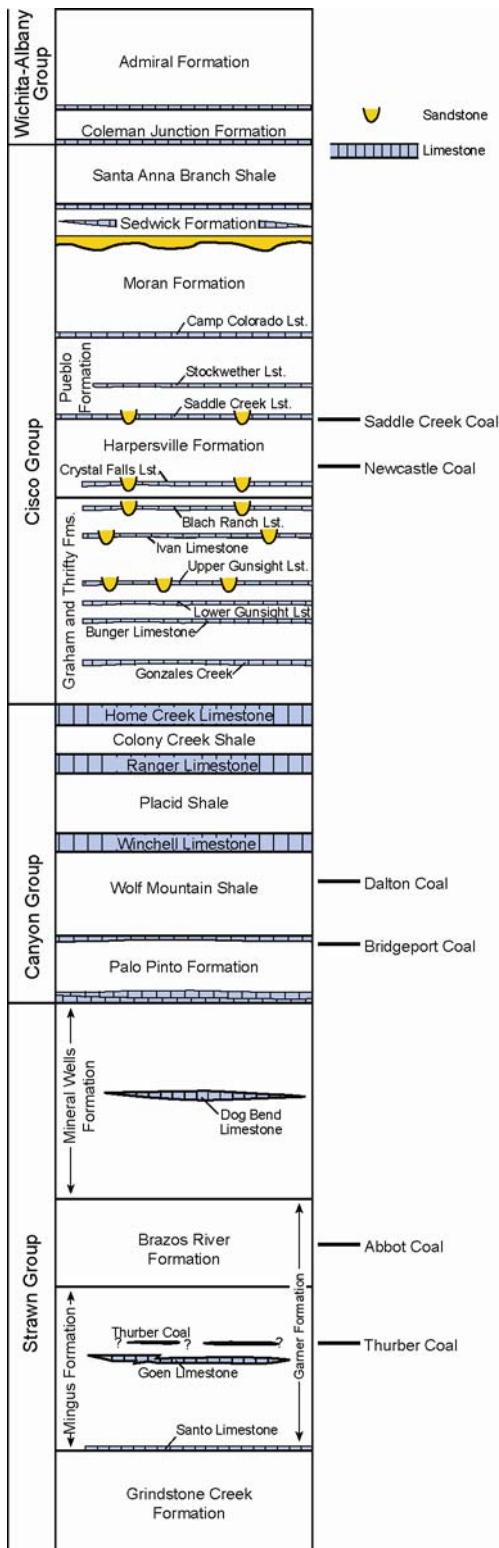


Figure 2. Generalized stratigraphic column of the Pennsylvanian in north-central Texas illustrating the nomenclature used in this report and the approximate stratigraphic position of coal beds in Mapel (1967). Stratigraphic nomenclature and subdivisions are from Brown and others (1972).

open-file at BEG. Logs used in the study depict spontaneous potential (SP) and resistivity curves at a vertical scale of 1 inch = 100 ft and have handwritten stratigraphic annotations. These archival well logs were used in the studies of Wermund and Jenkins (1970) (L. F. Brown, Jr., personal communication), and in Brown and others (1987, 1990). Additionally, typewritten, narrative descriptions of drill cuttings from Young County, on open-file at BEG, were reviewed for reported coal occurrences.

## Methods

The location of each sampled well was plotted on an ArcView\* map of Young County, Texas. Neuralog software was used for log-curve digitization, and for displays of each well log. A well log cross section (Plate 1) was produced using Paradigm Geophysical's GEOLOG software.

Four main activities were carried out in the study: (1) well identification, screening, and selection for sampling; (2) collection of coal and coaly shale fragments from washed drill cuttings kept on open-file at BEG; (3) estimation of the stratigraphic position of collected samples; and (4) selection and analysis of an initial 10-sample subset to ascertain the range of  $R_o$  values at depths of up to about 2,000 ft.  $R_o$  measurements on the sample subset were provided by Humble Geochemical Services, Humble, Texas.

Table 1. Names and locations of sampled wells, Young County, north-central Texas. Drill cuttings and corresponding electric logs are on open-file at The University of Texas at Austin, Bureau of Economic Geology.

| Well name<br>(Operator, Lease, Well No.)                           | Derrick Floor<br>Elevation (ft) | Location   |
|--|---------------------------------|--|
| 1. Deep Rock Oil Corp.,<br><u>C. R. Baldwin, Jr. No. 1*</u>        | 1,129                           | TE&L Co. survey, 1,400 ft<br>FSL of farm and on line of<br>section 1020-1019; 1 mi from<br>Eliasville.                                     |
| 2. Kerlyn Oil Company,<br><u>Gillie-Morrison No. 1</u>             | 1,162                           | G&BN Survey, sec. 1, 528 ft<br>N and 825 ft E of the SW<br>corner of the Davidson<br>survey Abstract 84, which is the<br>SE 1/4 of sec. 1. |
| 3. Lipscomb and De Lange,<br><u>Adam Furr No. 1</u>                | 1,161                           | TE&L Co. survey, 621 ft<br>FEL and 333 ft FSL of<br>section 338; 3 mi SE of<br>Padgett.  |
| 4. Panhandle Refining Co.<br><u>Eula Thompson No. 1</u>            | 1,115                           | TE&L Co. survey, No. 2692,<br>764 ft FNL and 1,401 ft<br>FSEL of survey.   |
| 5. Standard of Texas and<br><u>H. Buchanan, S.R. Donnell No. 1</u> | 1,246                           | TE&L Co. survey, section<br>2377, 1,400 ft FNL and 467 ft<br>FWL   |

\* Well 81 in Brown and others (1987), Plate XIX, cross section 4-4'

Estimation of the stratigraphic position of samples was accomplished by correlating the electric log of one of the sampled wells (Baldwin No. 1; Plate 1) with the logs from the other sampled wells; the Baldwin 1 well was also used in Brown and others (1987; plate XIX, cross section 4-4', well 81). Additionally, general well information and depths of drill cuttings with narrative descriptions on open-file at BEG indicating occurrence of coal, black shale, or dark shale were compiled for 597 wells (see Appendix; coal occurrences highlighted).

## Results

### Well selection and collected samples

Fifty-seven samples of coal and coaly shale fragments (Table 2) were hand-picked from drill cuttings from mostly <2,000 ft depths in five wells for which drill cuttings and electric logs were on open-file at BEG. The coal and coaly shale fragments are minor components in the sampled drill cuttings and some of the collected samples were extremely small.

### Stratigraphic position of collected samples and nomenclature used

Electric-log correlation of the sampled wells allowed estimation of the stratigraphic position of the collected samples. Lithostratigraphic subdivisions in Brown and others (1987) were used in the correlation. Table 3 records the tops of correlated lithostratigraphic units, and Plate 1 displays the stratigraphic position of collected samples with respect to the correlated units.

Well log correlation indicates that the collected samples represent coal and coaly shale layers forming part of (1) the Strawn Group (middle Pennsylvanian), probably at stratigraphic positions equivalent to Thurber and Abbot coalbeds in Mapel (1967); (2) the Canyon Group (Pennsylvanian), probably equivalent to Dalton and Bridgeport coalbeds in Mapel (1967); and (3) the Cisco Group (Pennsylvanian–Permian), probably at stratigraphic positions comparable to Newcastle and Saddle Creek coalbeds in Mapel (1967) (fig. 2).

Following the usage described by Brown (1959), units correlated in this study are lithostratigraphic. Boundaries of the Pennsylvanian Groups shown in Plate 1 are based on Brown and others (1972, 1987, 1990), with the top of the Strawn Group defined by the base of the Palo Pinto Formation (generalized outcrop area shown on fig. 1), the top of the Canyon Group defined by the top of the Home Creek Limestone (generalized outcrop area shown in fig. 1), and the top of the Cisco Group defined by the base of the Coleman Junction Formation (not shown in fig. 1). Therefore, coal occurrences in stratigraphic intervals younger than the

Table 2. Depth of coal and coaly shale samples collected in Young County, north-central Texas, and results of vitrinite reflectance analysis ( $R_o$ ) on an initial 10-sample subset.  $R_o$  analysis by Humble Geochemical Services. All log depths are in ft.

| Sample ID<br>(well and depth in ft) | $R_o$ | n  | s.d. | Lithostratigraphic Group |
|-------------------------------------|-------|----|------|--------------------------|
| Baldwin No. 1 280-290               |       |    |      | Cisco                    |
| Baldwin No. 1 560-570               | 0.61  | 27 | 0.06 | Canyon                   |
| Baldwin No. 1 800-810               |       |    |      | Canyon                   |
| Baldwin No. 1 810-820               |       |    |      | Canyon                   |
| Baldwin No. 1 980-990               |       |    |      | Canyon                   |
| Baldwin No. 1 1460-1470             | 0.63  | 19 | 0.05 | Strawn                   |
| Baldwin No. 1 2750-2760             |       |    |      | Strawn                   |
| Baldwin No. 1 2760-2770             |       |    |      | Strawn                   |
| Baldwin No. 1 2770-2780             |       |    |      | Strawn                   |
| Morrison No. 1 240-250              |       |    |      | Cisco                    |
| Morrison No. 1 310-320              | 0.39  | 30 | 0.06 | Cisco                    |
| Morrison No. 1 1350-1360            | 0.52  | 10 | 0.06 | Canyon                   |
| Morrison No. 1 1650-1660            |       |    |      | Canyon                   |
| Morrison No. 1 1730-1740            |       |    |      | Canyon                   |
| Morrison No. 1 2030-2040            | 0.91  | 29 | 0.00 | Canyon                   |
| Furr No. 1 100-110                  |       |    |      | Cisco                    |
| Furr No. 1 110-120                  |       |    |      | Cisco                    |
| Furr No. 1 380-390                  |       |    |      | Cisco                    |
| Furr No. 1 440-450                  |       |    |      | Cisco                    |
| Furr No. 1 530-540                  |       |    |      | Cisco                    |
| Furr No. 1 540-550                  |       |    |      | Cisco                    |
| Furr No. 1 610-620                  |       |    |      | Cisco                    |
| Furr No. 1 730-740                  |       |    |      | Cisco                    |
| Furr No. 1 770-780                  |       |    |      | Cisco                    |
| Furr No. 1 820-830                  |       |    |      | Cisco                    |
| Furr No. 1 1850-1860                |       |    |      | Canyon                   |
| Furr No. 1 1950-1960                |       |    |      | Canyon                   |
| Furr No. 1 2160-2170                | 0.55  | 26 | 0.04 | Canyon                   |
| Thompson No. 1 780-790              | 0.51  | 27 | 0.06 | Canyon                   |
| Thompson No. 1 820-830              |       |    |      | Canyon                   |
| Thompson No. 1 980-990              |       |    |      | Canyon                   |
| Donnell No. 1 30-40                 |       |    |      | -                        |
| Donnell No. 1 310-320               |       |    |      | Cisco                    |
| Donnell No. 1 320-330               |       |    |      | Cisco                    |
| Donnell No. 1 330-340               |       |    |      | Cisco                    |
| Donnell No. 1 380-390               |       |    |      | Cisco                    |
| Donnell No. 1 390-400               |       |    |      | Cisco                    |
| Donnell No. 1 410-420               |       |    |      | Cisco                    |
| Donnell No. 1 420-430               |       |    |      | Cisco                    |
| Donnell No. 1 440-450               |       |    |      | Cisco                    |
| Donnell No. 1 450-460               |       |    |      | Cisco                    |
| Donnell No. 1 480-490               |       |    |      | Cisco                    |
| Donnell No. 1 730-800               |       |    |      | Cisco                    |
| Donnell No. 1 800-810               |       |    |      | Cisco                    |
| Donnell No. 1 810-820               |       |    |      | Cisco                    |
| Donnell No. 1 1130-1140             |       |    |      | Cisco                    |
| Donnell No. 1 1240-1250             |       |    |      | Cisco                    |
| Donnell No. 1 1250-1260             |       |    |      | Cisco                    |
| Donnell No. 1 1340-1350             |       |    |      | Canyon                   |
| Donnell No. 1 1620-1630             |       |    |      | Canyon                   |
| Donnell No. 1 1630-1640             | 0.45  | 31 | 0.08 | Canyon                   |
| Donnell No. 1 1750-1760             |       |    |      | Canyon                   |
| Donnell No. 1 1930-1940             |       |    |      | Canyon                   |
| Donnell No. 1 1940-1950             |       |    |      | Canyon                   |
| Donnell No. 1 2180-2190             |       |    |      | Strawn                   |
| Donnell No. 1 2350-2360             |       |    |      | Strawn                   |
| Donnell No. 1 2360-2370             |       |    |      | Strawn                   |

n = number of measurements, s.d. = standard deviation.

Crystal Falls Limestone are assigned in this study to the Cisco Group (Pennsylvanian–Permian), not to the Wichita Group (Lower Permian), as they were in Mapel (1967). Conflicts in the stratigraphic nomenclature of Pennsylvanian–Lower Permian strata in north-central Texas largely result from issues of lithostratigraphy versus chronostratigraphy (Brown, 1959).

### Geologic setting of sampled coals

North-central Texas coals have been interpreted to be allochthonous detrital accumulations occurring in interdeltaic embayments flanking delta systems (e.g., Galloway and Brown, 1972; Cleaves, 1973; Brown, 1973).

Erxleben (1973, 1974) interpreted coals in the Canyon Group as forming part of the Perrin Delta System, and, according to Brown (1973), coals in the Cisco Group represent delta-plain facies of elongate deltas having a vertical facies succession comparable

Table 3. Pennsylvanian lithostratigraphy and tops of the units correlated on logs of the sampled wells, Young County, north-central Texas. Nomenclature according to Brown (1973), and Brown and others (1987, 1990). Log depths are in feet.

| GROUP  | FORMATION            | Member                             | Sampled well Baldwin No. 1 |       | Furr No. 1 | Morrison No. 1 | Thompson No. 1 |
|--------|----------------------|------------------------------------|----------------------------|-------|------------|----------------|----------------|
|        |                      |                                    | 1                          | 1     |            |                |                |
|        | MORAN                | Camp Colorado Limestone            |                            |       | 50         |                |                |
|        | PUEBLO               | Stockwether Limestone              |                            |       | 170        |                |                |
|        | HARPERSVILLE         | Saddle Creek Limestone             | 295                        | 327   | 50         |                |                |
|        |                      | Flippin                            | 353                        | 385   | 160        |                |                |
|        |                      | Crystal Falls Limestone            | 467                        | 495   | 285        |                |                |
| CISCO  | HARPERSVILLE/THRIFTY | Breckenridge/Blach Ranch Limestone | 507                        | 560   | 375        |                |                |
|        | THRIFTY              | Ivan Limestone                     | 642                        | 695   | 498        |                |                |
|        | GRAHAM               | Gunsight Limestone                 | 765                        | 900   | 675        |                |                |
|        |                      | Bunger Limestone                   | 245                        | 937   | 1,047      | 870            | 110            |
|        |                      | Gonzales Creek                     | 350                        | 1,045 | 1,160      | 940            | 185            |
|        |                      | Salem School                       | 502                        | 1,250 | 1,368      | 1,090          | 335            |
|        | HOME CREEK LIMESTONE |                                    | 528                        | 1,285 | 1,440      | 1,120          | 380            |
| CANYON | RANGER LIMESTONE     |                                    | 732                        | 1,480 | 1,570      | 1,303          | 560            |
|        | PLACID SHALE         |                                    |                            |       |            |                |                |
|        | WINCHELL LIMESTONE   |                                    | 970                        | 1,704 | 1,770      | 1,504          | 762            |
|        | WOLF MOUNTAIN SHALE  |                                    |                            |       |            |                |                |
|        | PALO PINTO           |                                    | 1,254                      | 2,005 | 2,159      | 2,012          | 1,210          |
| STRAWN | MINERAL WELLS        | Dog Bend Limestone                 | 1,408                      | 2,180 | 2,300      | 2,108          | 1,380          |
|        |                      | Goen Limestone                     | 1,645                      | 2,350 | 2,442      | 2,630          | 1,640          |
|        |                      |                                    | 2,248                      | 3,010 | 3,122      |                |                |

(although not in scale) to that of the modern Mississippi birdfoot delta.

The north-central Texas Pennsylvanian coals have been described as thin (<3 ft thick) (e.g., Mapel, 1967) and discontinuous (Galloway and Brown, 1972); the limited thickness and lateral extent interpreted to reflect the detrital origin and depositional setting. Drill-cutting descriptions from Young County (see Appendix) also suggest generally thin, laterally discontinuous coal occurrences at depths of up to 2,000 ft.

#### Well log response of sampled intervals

Electric logs used in the study did not allow unambiguous identification of the coaly intervals that were sampled—largely a consequence of the limited resolution of the vertical scale (1 inch = 100 ft) of the logs. Some of the sharp, thin, high-resistivity deflections observed in the Pennsylvanian section (Plate 1) may reflect limestone, coal, or closely-spaced coal and limestone beds.

The logs show relatively high resistivity, as expected from coal, at or very close to some of the intervals sampled—for example in the Morrison No. 1 (at depths of 240–250 ft, 310–320 ft, and 1,350–1,360 ft) and Baldwin No. 1 wells (at depths of 280–290 ft, 560–570 ft, and 980–990 ft). Lack of high-resistivity readings on the log for some of the sampled intervals may result from thin coalbeds that are unresolved by the logs used.

Wide spacing of the sampled wells does not allow estimates of coal thickness or lateral continuity; however, the lack of thick high resistivity deflections suggests that the sampled coals probably are thin and comparable to those in outcrop. Use of porosity logs (e.g., density, sonic) and more closely-spaced wells would improve the

identification and estimates of thickness and extent of coals in the subsurface of north-central Texas.

#### Vitrinite reflectance measurements in sample subset

An initial subset of 10 samples was selected to estimate the overall range of vitrinite reflectance values ( $R_o$ ) in samples from depths of up to about 2,000 ft. Humble Geochemical Services (HGS), Humble, Texas, performed the  $R_o$  analyses.

$R_o$  values were obtained for eight samples; vitrinite was not present in two samples and  $R_o$  values were not obtained for those samples (Table 2). Histograms of  $R_o$  measurements obtained for each sample which contained vitrinite are shown in figures 3–10. The highest and lowest  $R_o$  values were obtained in the Morrison No. 1 well, northeastern Young County ( $R_o=0.39$  at 310–320 ft and  $R_o=0.91$  at 2,030–2,040 ft).  $R_o$  values >0.60 were determined for three samples, one from the Strawn Group in the Baldwin No. 1 well, and two from the Cisco Group; one in the Baldwin No. 1 well and the other in the Morrison No. 1 well (figs. 3–10 and Table 2).

HGS reported recycled nonindigenous vitrinite only in the Morrison No. 1 well (sample 1,350–1,360 ft; fig. 7). The  $R_o=0.91$  value in the same well (2,030–2,040 ft), however, may be anomalously high and should be reassessed.

The remaining samples are being prepared at USGS for additional vitrinite reflectance analysis and archiving.

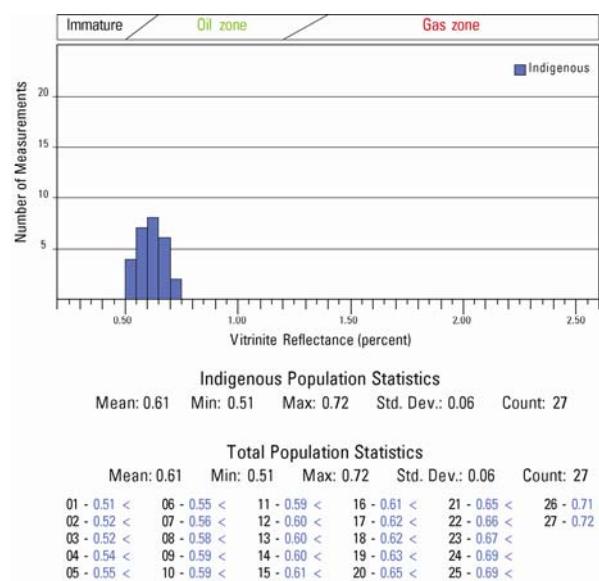


Figure 3. Histogram of  $R_o$  measurements on drill cuttings from 560–570 ft in the Deep Rock Corp., Baldwin No. 1 well, Young County, north-central Texas.  $R_o=0.61$  based on 27 measurements. Measurements and histogram were provided by Humble Geochemical Services.

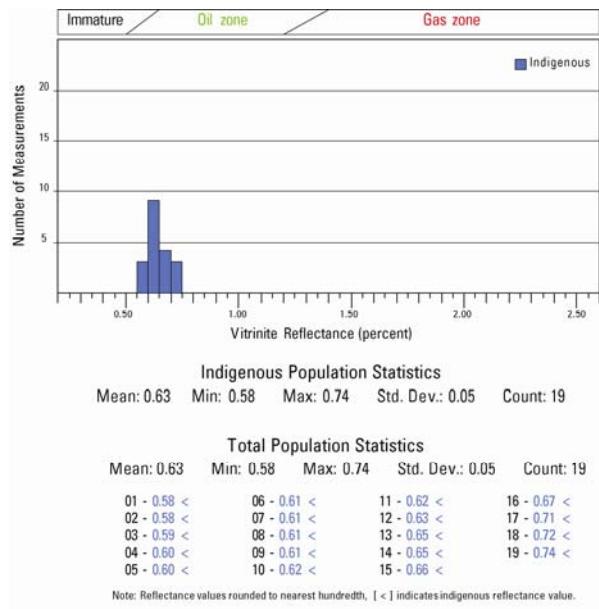


Figure 4. Histogram of  $R_o$  measurements on drill cuttings from 1,460–1,470 ft in the Deep Rock Corp., Baldwin No. 1 well, Young County, north-central Texas.  $R_o=0.63$  based on 19 measurements. Measurements and histogram were provided by Humble Geochemical Services.

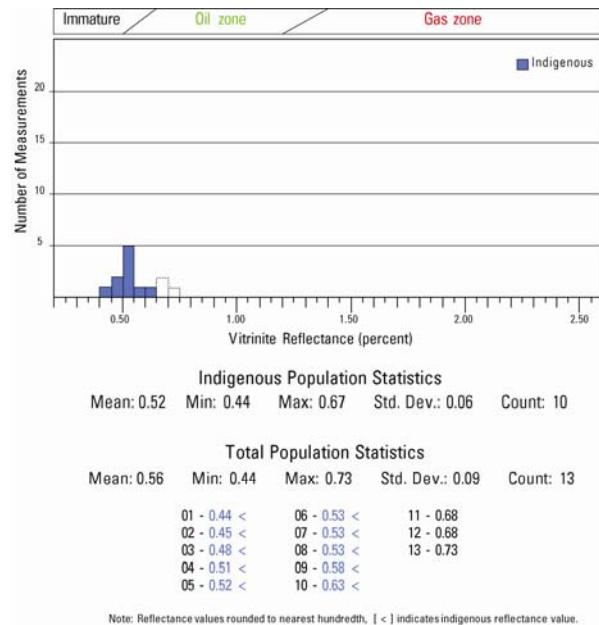


Figure 6. Histogram of  $R_o$  measurements on drill cuttings from 1,350–1,360 ft in the Kerlyn Oil Company, Morrison No. 1 well, Young County, north-central Texas.  $R_o=0.52$  based on 10 measurements. Measurements and histogram were provided by Humble Geochemical Services.

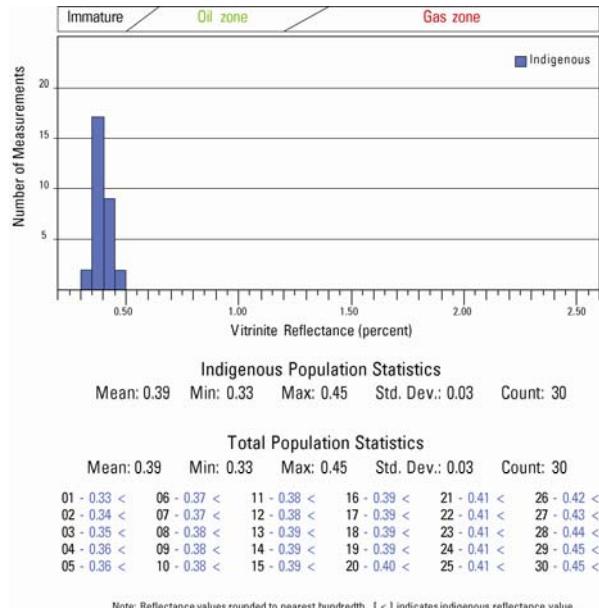


Figure 5. Histogram of  $R_o$  measurements on drill cuttings from 310–320 ft in the Kerlyn Oil Company, Morrison No. 1 well, Young County, north-central Texas.  $R_o=0.39$  based on 30 measurements. Measurements and histogram were provided by Humble Geochemical Services.

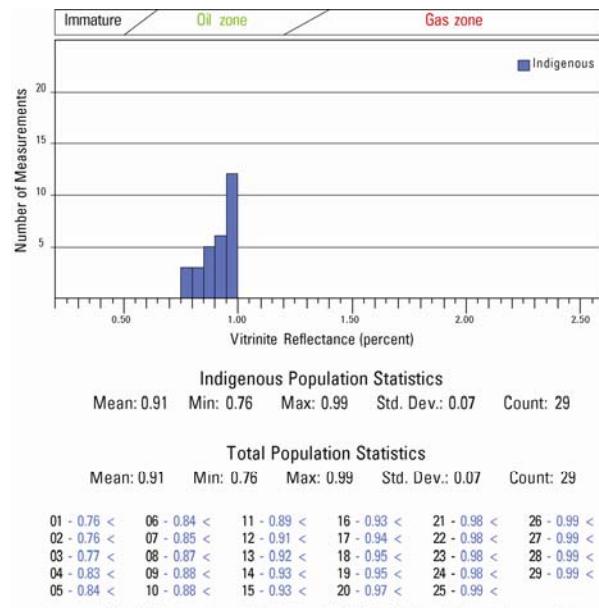
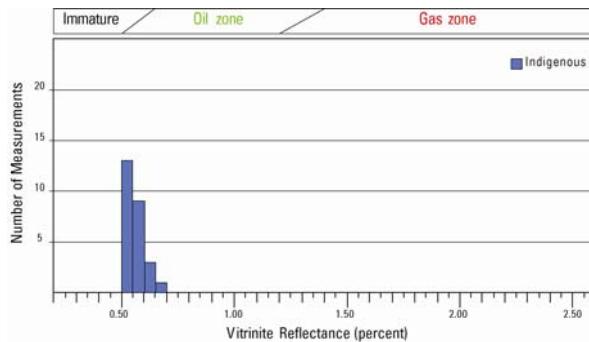


Figure 7. Histogram of  $R_o$  measurements on drill cuttings from 2,030–2,040 ft in the Kerlyn Oil Company, Morrison 1 well, Young County, north-central Texas.  $R_o=0.91$  based on 29 measurements. Measurements and histogram were provided by Humble Geochemical Services.



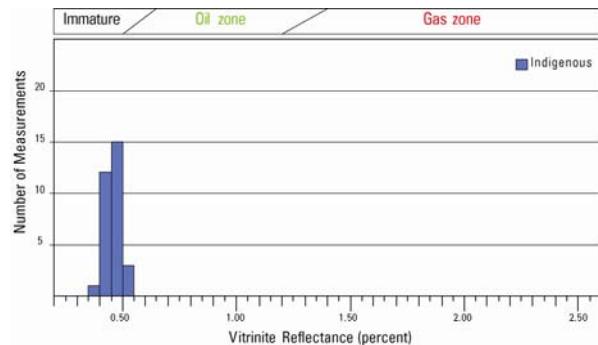
**Indigenous Population Statistics**  
Mean: 0.55 Min: 0.50 Max: 0.65 Std. Dev.: 0.04 Count: 26

**Total Population Statistics**  
Mean: 0.55 Min: 0.50 Max: 0.65 Std. Dev.: 0.04 Count: 26

|             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|
| 01 - 0.50 < | 06 - 0.52 < | 11 - 0.54 < | 16 - 0.55 < | 21 - 0.56 < | 26 - 0.65 < |
| 02 - 0.50 < | 07 - 0.52 < | 12 - 0.54 < | 17 - 0.55 < | 22 - 0.57 < |             |
| 03 - 0.51 < | 08 - 0.52 < | 13 - 0.54 < | 18 - 0.55 < | 23 - 0.61 < |             |
| 04 - 0.52 < | 09 - 0.53 < | 14 - 0.55 < | 19 - 0.56 < | 24 - 0.61 < |             |
| 05 - 0.52 < | 10 - 0.53 < | 15 - 0.55 < | 20 - 0.56 < | 25 - 0.64 < |             |

Note: Reflectance values rounded to nearest hundredth, [ < ] indicates indigenous reflectance value.

Figure 8. Histogram of  $R_o$  measurements on drill cuttings from 2,160–2,170 ft in the Lipscomb and De Lange, Furr No. 1 well, Young County, north-central Texas.  $R_o=0.55$  based on 26 measurements. Measurements and histogram were provided by Humble Geochemical Services.



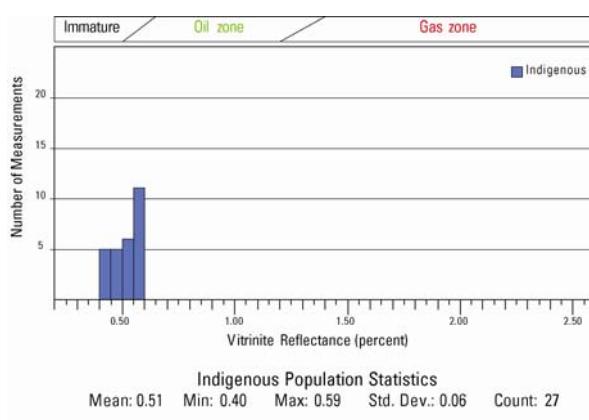
**Indigenous Population Statistics**  
Mean: 0.45 Min: 0.39 Max: 0.52 Std. Dev.: 0.03 Count: 31

**Total Population Statistics**  
Mean: 0.45 Min: 0.39 Max: 0.52 Std. Dev.: 0.03 Count: 31

|             |             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 01 - 0.39 < | 06 - 0.42 < | 11 - 0.43 < | 16 - 0.45 < | 21 - 0.46 < | 26 - 0.48 < | 31 - 0.52 < |
| 02 - 0.40 < | 07 - 0.42 < | 12 - 0.44 < | 17 - 0.45 < | 22 - 0.47 < | 27 - 0.48 < |             |
| 03 - 0.40 < | 08 - 0.42 < | 13 - 0.44 < | 18 - 0.45 < | 23 - 0.47 < | 28 - 0.48 < |             |
| 04 - 0.41 < | 09 - 0.43 < | 14 - 0.45 < | 19 - 0.46 < | 24 - 0.47 < | 29 - 0.50 < |             |
| 05 - 0.41 < | 10 - 0.43 < | 15 - 0.45 < | 20 - 0.46 < | 25 - 0.47 < | 30 - 0.51 < |             |

Note: Reflectance values rounded to nearest hundredth, [ < ] indicates indigenous reflectance value.

Figure 10. Histogram of  $R_o$  measurements on drill cuttings from 1,630–1,640 ft in the Standard of Texas and H. Buchanan, Donnell No. 1 well, Young County, north-central Texas.  $R_o=0.45$  based on 31 measurements. Measurements and histogram were provided by Humble Geochemical Services.



**Indigenous Population Statistics**  
Mean: 0.51 Min: 0.40 Max: 0.59 Std. Dev.: 0.06 Count: 27

**Total Population Statistics**  
Mean: 0.51 Min: 0.40 Max: 0.59 Std. Dev.: 0.06 Count: 27

|             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|
| 01 - 0.40 < | 06 - 0.46 < | 11 - 0.51 < | 16 - 0.54 < | 21 - 0.56 < | 26 - 0.58 < |
| 02 - 0.41 < | 07 - 0.47 < | 12 - 0.51 < | 17 - 0.55 < | 22 - 0.57 < | 27 - 0.59 < |
| 03 - 0.41 < | 08 - 0.48 < | 13 - 0.52 < | 18 - 0.56 < | 23 - 0.58 < |             |
| 04 - 0.43 < | 09 - 0.49 < | 14 - 0.54 < | 19 - 0.56 < | 24 - 0.58 < |             |
| 05 - 0.43 < | 10 - 0.49 < | 15 - 0.54 < | 20 - 0.56 < | 25 - 0.58 < |             |

Note: Reflectance values rounded to nearest hundredth, [ < ] indicates indigenous reflectance value.

Figure 9. Histogram of  $R_o$  measurements on drill cuttings from 780–790 ft in the Panhandle Refining Co., Thompson No. 1 well, Young County, north-central Texas.  $R_o=0.51$  based on 27 measurements. Measurements and histogram were provided by Humble Geochemical Services.

### Coal rank in sample subset

$R_o$  measurements indicate that coal rank in the sample subset ranges from lignite ( $R_o=0.39$  in middle Cisco Group, Morrison No. 1 well) to high volatile bituminous A coal ( $R_o=0.91$  in basal Canyon Group, Morrison No. 1 well (Plate 1)).

$R_o$  values also indicate subbituminous B coal in the middle part of the Canyon Group in the Donnell No. 1 well ( $R_o=0.45$ ), and subbituminous A coal in the upper part of the Strawn ( $R_o=0.63$ ) and Canyon ( $R_o=0.61$ ) groups in the Baldwin No. 1 well, the lower part of the Canyon Group in the Furr No. 1 well ( $R_o=0.55$ ), and in the middle part of the Canyon Group in the Morrison No. 1 ( $R_o=0.52$ ) and Thompson No. 1 ( $R_o=0.51$ ) wells.

Coal rank in the sample subset should be reassessed using the results of follow-up  $R_o$  analysis.

## Summary and Proposed Future Work

Collection and analysis of subsurface coal samples during the April 2005–February 2006 activities of the NCRDS State Cooperative program was extended to Young County, north-central Texas. This work builds upon a pilot study of coal rank assessment that began in adjacent Archer County. The study demonstrates the feasibility of using drill cuttings to recognize coal occurrences in the shallow subsurface of north-central

Texas (at depths of up to about 2,000 ft), and to assess coal rank by means of  $R_o$  measurements on drill cuttings.

A total of 57 samples were collected from five wells. The collected samples represent coal and coaly shale beds in the Strawn (Pennsylvanian), Canyon (Pennsylvanian), and Cisco (Pennsylvanian-Permian) Groups.  $R_o$  measurements on a sample subset indicate that coal rank ranges from lignite to high volatile subbituminous A coal.

Future work should include the further identification of subsurface coal and estimation of coal thickness using porosity logs (e.g., density and sonic). In addition, the study should be extended to eastern Stephens and northwestern Palo Pinto Counties (fig. 1). Further, field studies at representative coal outcrops in north-central Texas should be used to document vertical and lateral stratigraphic characteristics and trends which could then be used to assess coal occurrences and thickness estimates determined thorough the use of porosity logs.

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## **Appendix. Coal and coaly shale in drill cuttings descriptions, Young County, north-central Texas**

From data on open-file at the Bureau of Economic Geology. Coal cuttings are highlighted in yellow.

| Occurrence No. | Well name / location  | Elevation (ft) | Total depth (ft) | Spud date              | Compl/ PB dates           | Coal and black or dark-gray shale occurrences (depth in ft)                  |  |
|----------------|---|----------------|------------------|------------------------|---------------------------|--|--|
| 1              | Ajax Oil & Development Co., C.R. Martin #1 (dry WC)<br>G.C.Cottle Abst 65, 112 ac, 864 ft fNL & 330 ft FSEL<br>of Survey, 4 mi NE fr Ellesville         | 2451           |                  | 7/21/1957<br>8/20/1957 | 7/28/1957;<br>8/20/1957   | Sh, blk: 310<br>coal: 1260   |  |
| 2              | Akin & Dimick, Harris Wilson #1 (dry WC)<br>TE&L #67 Sur Abst 343, 200 ac, 900 ft E of WL, 1750 ft<br>N of SL (330 ft FSL, 990 ft FWL, 6 mi SW fr Olney | 5112           |                  | 10/1/1953              | 10/19/1953;<br>10/12/1953 | coal: 2456   |  |
| 3              | Akin & Rayzer et al., O. Deitrich #1 (oil prod)<br>Geo. W. Stell Suv, Blk A-256, 150 ft from N & E lines  | 1204 GL        | 1102             | 8/21/1930              | 9/1/1930                  | coal: 1102   |  |
| 4              | Akin & Rayzer, J. Winkler #1 (oil prod)<br>J. Poitevent Sur. Abst. 226, 150 ft fr N & W lines   |                | 1206             | 1089                   | 5/22/1930<br>6/13/1930    | Sh, blk: 1058  |  |
| 5              | Akin & Rayzer et al., J.A. Winkler #3 (oil prod)<br>J. Poitevent Sur. Blk A-226, Sec 1, 150 ft fr N &<br>450 ft W lines                                 |                | 1094             | 10/2/1930              | 11/4/1930                 | Sh, blk: 655<br>Sh, blk: 1070  |  |
| 6              | C.W. Alcorn et al., O.S. Perkins #1 (oil prod)<br>TE&L Suv, Blk 206, 60 ac Tr., 150 ft fr S & E lines   | 1207           | 740              | 12/26/1934             | 1/2/1935                  | Sh, blk: 200<br>Sh, blk: 220<br>Sh, blk: 370<br>Sh, blk: 440<br>Sh, blk: 729 |  |
| 7              | C.W. Alcorn, O.S. Perkins #2 (dry WC)<br>TE&L Co. Suv. Blk 206, 150 ft fr S & W lines,<br>N 1/2 of Suv.   | 1202           |                  | 1/14/1902              | 2/26/1935<br>3/6/1935     | Sh, blk: 200<br>Sh, blk: 440<br>Sh, blk: 734                                 |  |
| 8              | Geo. A. Alexander Jr., Jennie Jeffery #1 (dry hole)<br>TE&L Co. Suv., 150 ft each way fr NW Cor.,<br>N 1/2 of Blk 45                                    |                | 903              | 2/26/1931              | 3/14/1931                 | Sh, blk: 777   |  |
| 9              | Geo. A. Alexander Jr., Jennie K. Jeffery #2A (dry hole)<br>TE&L Co. Suv., Blk 41, 150 ft fr SL & WL   |                | 818              | 11/5/1930              | 11/12/1930                | coal: 298<br>Sh, blk: 124<br>Sh, blk: 340<br>Sh, blk: 375<br>Sh, blk: 708    |  |
| 10             | Geo. A. Alexander Jr., Jeffery Estate #1 (dry hole)<br>TE&L Co. Suv., Blk 56, Abst 332, 150 ft fr NL & EL,<br>SW 1/4 Suv 56.                            | 1199           | 1025             | 9/10/1930              | 9/20/1930                 | Sh, blk: 577<br>Sh, blk: 910   |  |
| 11             | Geo. A. Alexander Jr., Ward #1 (dry hole)<br>TE&L Co. Suv., Blk 150, 150 ft fr S & E lines  | 1179           | 701              | 1/10/1931              | 1/16/1931                 | Sh, blk: 140<br>Sh, blk: 688   |  |
| 12             | H. B. Alexander et al., H.B. Alexander #1 (dry hole)<br>BS&F Suv, Blk Z, Abst. 1670, 150 ft fr EL & 150 ft fr SL  |                | 660              | 8/15/1930              | 8/27/1930                 | coal: 123<br>Sh, blk: 615  |  |
| 13             | H. B. Alexander, Jim Foster #1 (dry hole)<br>150 ft NL & 150 ft EL  |                |                  |                        |                           | coal: 184<br>Sh, blk: 262  |  |
| 14             | H. B. Alexander, T.L. Oliver #1 (dry hole)<br>TE&L Suv., Blk 1940, approx. in center of 130 ac. tract   |                | 581              | 6/5/1932               | 7/5/1932                  | lignite: 12<br>Sh, blk: 520  |  |
| 15             | J.H. Alexander, H.F. Haynes #1 (dry hole)<br>TE&L Suv., 102 ac., 150 ft fr NL & 550 ft fr E line  |                | 750              | 3/18/1936              | 4/7/1936                  | coal: 390<br>Sh, blk: 721  |  |
| 16             | J.R. Alexander, Belknap Coal Co. Corp. #1 (oil prod)<br>TE&L Suv., #23, 150 ft fr N & W lines   |                | 660              | 3/14/1936              | 5/12/1936                 | Sh, blk: 259<br>Sh, blk: 295<br>Sh, blk: 348                                 |  |
| 17             | J.R. Alexander, M.M. Burrus #1 (dry hole)<br>TE&L Suv., Sec. 1365, approx. 150 ft fr S & E lines  |                | 802              | 8/23/1933              | 9/3/1933                  | Sh, blk: 450   |  |
| 18             | J.R. Alexander & W.E. Nummeleny, Pridgeaux Brothers #3<br>(dry hole), YCS Lds. Suv., Blk 15, 150 ft fr S & 450 ft<br>fr W lines                         |                | 551              | 5/27/1937              | 6/1/1937                  | coal: 71<br>Sh, blk: 502   |  |
| 19             | R. H. Alexander, Van Hamert #1 (dry hole)<br>TE&L Co. Ab. 599, 72 ac., 1050 ft fr W & 900 ft fr S lines,<br>4 1/2 mi NW of Newcastle                    |                | 750              | 3/17/1937              | 3/24/1937                 | Sh, blk: 361<br>Sh, blk: 671   |  |
| 20             | Samuel S. Alexander, R.O. Andrews #1 (dry hole)<br>TE&L Co. Suv., Blk 1806, 150 ft each way fr NE Cor.,<br>NW 1/4 of Blk                                | 1100           | 955              | 7/3/1936               | 7/10/1936                 | Sh, blk: 430<br>Sh, blk: 826   |  |
| 21             | Samuel S. Alexander, W.L. Boyd #1 (abd, dry hole)<br>TE&L Co. Suv. Sec. 1455, 150 ft fr E & 950 ft fr N lines   |                | 871              | 7/30/1937              | 8/6/1937                  | coal: 416<br>Sh, blk: 354  |  |
| 22             | Samuel S. Alexander, W.L. Boyd #2 (abd, dry hole)<br>TE&L Co. Suv, Blk 1455, 80 Ac., 1147 ft fr E & 150 ft fr<br>N lines, SE 1/4 of Blk 1455.           |                | 1110             | 8/11/1937              | 8/19/1937                 | coal: 410<br>Sh, blk: 328<br>Sh, blk: 346<br>Sh, blk: 812<br>Sh, blk: 940    |  |
| 23             | Samuel S. Alexander, Clark #1 (oil prod)<br>TE&L Co. Suv, Sec. 209, 160 Ac. Tract, 1050 ft fr NL &<br>1950 ft fr WL                                     |                | 1162             | 850                    | 3/25/1937<br>4/5/1937     | Sh, blk: 450<br>Sh, dark: 485<br>Sh, blk: 818                                |  |
| 24             | Samuel S. Alexander, Mrs. L.D. Clark #2 (oil prod)<br>TE&L Co. Suv, Sec. 209, 1050 ft fr NL & 1587 ft fr E line<br>300 ft E & 115 ft S of #1 well.      |                | 848              | 4/9/1937               | 4/22/1937                 | Sh, blk: 806<br>Sh, blk: 841   |  |
| 25             | Samuel S. Alexander, L.D. Clark #3 (oil prod)<br>TE&L Co. Suv, Sec. 209, 160 Ac., 150 ft fr NL &<br>1050 ft fr E line                                   |                | 841              | 6/10/1937              | 6/18/1937                 | Sh, blk: 215<br>Sh, blk: 415<br>Sh, blk: 475<br>Sh, blk: 804                 |  |
| 26             | S. S. Alexander, Clark #4 (dry hole)<br>TE&L Co. Suv, Sec. 209, 150 ft fr NL & 300 ft W of #3   |                | 1157             | 1112                   | 6/19/1937                 | 6/28/1937  | Sh, blk: 410<br>Sh, blk: 468<br>Sh, blk: 812<br>Sh, blk: 987 |
| 27             | Samuel S. Alexander, Mrs. L.D. Clark #5 (oil prod)<br>TE&L Co. Suv, Sec. 209, 160 Ac., 150 ft fr NL &<br>750 ft fr EL                                   |                | 1153             | 839                    | 6/23/1937                 | 6/30/1938  | Sh, blk: 412<br>Sh, blk: 477<br>Sh, blk: 796                 |
| 28             | Samuel S. Alexander, Mrs. L.D. Clark #6 (dry hole)<br>TE&L Co. Suv, Sec. 209, 160 Ac Tract, 300 ft fr NL &<br>1050 ft fr EL, Olney field                |                | 1155.4           | 875                    | 7/2/1937                  | 7/12/1937  | Sh, blk: 464<br>Sh, blk: 825                                 |
| 29             | Samuel S. Alexander, Mrs. L.D. Clark #7 (abd, dry hole)<br>TE&L Co. Suv, Sec. 209, 300 ft NW of #1  |                | 858              | 7/14/1937              | 7/19/1937                 | Sh, blk: 235<br>Sh, blk: 430<br>Sh, blk: 492<br>Sh, blk: 615<br>Sh, blk: 817 |  |
| 30             | S. S. Alexander, Irene Gathright #1 (dry hole)<br>TE&L Co. Suv, Blk 1801, 150 ft fr WL & 783 ft SL of<br>SE 1/2 of Blk 1801                             |                | 1114             | 925                    | 7/14/1936                 | 7/19/1936  | coal: 455  |
| 31             | S. S. Alexander, W.B. Howard #3 (oil prod)<br>TE&L Co. Suv, Blk 3401, 15 ac., 150 ft fr the N & W lines   |                | 904              | 2/10/1936              | 2/16/1936                 | Sh, blk: 250<br>Sh, blk: 445<br>Sh, blk: 515<br>Sh, blk: 858                 |  |
| 32             | S. S. Alexander et al., W.B. Howard #2 (oil prod)<br>TE&L Co. Suv, Fr. "C", Sec. 3401, 15 Ac. Lease, 210 ft<br>fr SL & 210 ft fr WL                     |                | 1196             | 928                    | 11/29/1935                | 12/14/1935   | Sh, blk: 475<br>Sh, blk: 530<br>Sh, blk: 540<br>Sh, blk: 889 |
| 33             | S. S. Alexander et al., W.B. Howard #5 (oil prod)<br>TE&L Co. Suv, Blk 3401, 15 Ac., 150 ft fr NL & 210 ft fr EL  |                | 912              | 3/30/1936              | 4/9/1936                  | Sh, blk: 267<br>Sh, blk: 442<br>Sh, blk: 868                                 |  |
| 34             | Samuel S. Alexander Oil Co., W.R. Goldston #1B (dry hole)<br>TE&L Co. Suv, Sec. 2057, Blk 9, 330 ft fr N & W lines                                      |                | 1229             | 4550                   | 9/4/1936                  | 1/25/1937  | Sh, blk: 1280<br>Sh, blk: 1450                               |

| Occurrence No. | Well name / location  | Elevation (ft) | Total depth (ft) | Spud date | Compl/ PB dates         | Coal and black or dark-gray shale occurrences (depth in ft)  |  |
|----------------|---|----------------|------------------|-----------|-------------------------|--|--|
| 35             | Samuel S. Alexander Oil Corp., G.B. Hamilton Estate #5 (dry hole) TE&L Co. Suv, Blk 3401, 40 ac., 750 ft fr El & 250 ft fr NL   | 902            | 6/13/1936        | 6/18/1936 |                         | Sh, blk: 859   |  |
| 36             | Samuel S. Alexander Oil Corp., G.B. Hamilton Estate #6 (oil prod) TE&L Co. Suv, Blk 3401, 40 ac., 450 ft fr El & 470 ft fr SL   | 1182           | 914              | 1/13/1937 | 1/19/1937               | Sh, blk: 435<br>Sh, blk: 440<br>Sh, blk: 970   |  |
| 37             | Samuel S. Alexander Oil Corp., G.B. Hamilton Estate #7 (dry hole) TE&L Co. Suv, Blk 3401, 40 Ac. Lse., 440 ft N & 750 ft W of SE corner of 40 Ac. Lse.  |                | 950              | 1/30/1937 | 2/9/1937                | Sh, blk: 445<br>Sh, blk: 522<br>Sh, blk: 880   |  |
| 38             | Samuel S. Alexander Oil Corp., Hamilton Estate #8 TE&L Suv, 3401, Abst.1221, 40 ac., 450 ft fr El, 150 ft FSL   |                |                  |           |                         | Sh, blk: 871   |  |
| 39             | Samuel S. Alexander Oil Corp., G.B. Hamilton #9 TE&L Suv, Blk 3401, 40 Acre Tract, 450 ft south & 450 ft west fr NE corner Blk 3401   | 1172           | 7/1/1902         | 5/12/1937 | 5/21/1937               | Sh, blk: 440<br>Sh, blk: 505<br>Sh, blk: 857   |  |
| 40             | S. S. Alexander Oil Corp., G.B. Hamilton #10 (dry hole) TE&L Co. Suv, Blk 3401, 40 Acres, 750 ft fr E & 450 ft fr N lines   |                | 1005             | 5/29/1937 | 6/6/1937                | Sh, blk: 245<br>Sh, blk: 436<br>Sh, blk: 510<br>Sh, blk: 973   |  |
| 41             | Samuel S. Alexander Oil Corp., G.B. Hamilton Estate #6A (dry hole) TE&L Suv., Blk 3401, 185 ft fr El & 700 ft fr NL   |                | 950              | 1/3/1938  | 1/15/1938               | Sh, blk: 465<br>Sh, blk: 538<br>Sh, blk: 871   |  |
| 42             | Alexander & Beavers, G.B. Hamilton Estate #1 (oil prod) TE&L Suv., Blk 3401, well located in NE corner  |                | 905              | 1/27/1936 | 2/5/1936                | Sh, blk: 238<br>Sh, blk: 341<br>Sh, blk: 460<br>Sh, blk: 516<br>Sh, blk: 615   |  |
| 43             | Alexander & Beavers, G.B. Hamilton #2 (oil prod) TE&L Suv., Blk 3401, 40 ac. Tr., 150 ft FEL & 750 ft FNL   |                | 919              | 2/26/1936 |                         | Sh, blk: 245<br>Sh, blk: 448<br>Sh, blk: 527<br>Sh, blk: 877   |  |
| 44             | Alexander & Beavers, G.B. Hamilton Estate #3 (oil prod) TE&L Suv., Blk 3401, 40 ac. Tr., 450 ft FEL & 150 ft FNL  |                | 902              | 3/5/1936  | 3/17/1936               | Sh, blk: 305<br>Sh, blk: 460<br>Sh, blk: 857   |  |
| 45             | Alexander & Beavers, G.B. Hamilton Estate #4 (dry hole) TE&L Suv., Blk 3401, 150 ft FEL & 450 ft FNL  |                | 1000             | 3/15/1936 | 3/24/1936               | Sh, blk: 480<br>Sh, blk: 519<br>Sh, blk: 869   |  |
| 46             | Alexander & Beavers, G.B. Hamilton Estate #5 (oil prod) TE&L Suv., Blk 3401, 40 Ac. Tr., 750 ft FEL & 250 ft FNL<br>Alexander & Beavers et al., Hauser Estate #1 (dry hole)<br>J. Poitevent Sur., Sec. 2, 750 ft FEL & 300 ft FSL NW/2 Sec2 |                | 902              | 6/13/1936 | 6/18/1936               | Sh, blk: 859   |  |
| 47             | Alexander-Clarida et al., E. Johnson #2 (dry hole) TE&L Suv., Sec. A-921, Blk 1495, 100 ac., 450 ft FNL & 900 ft FEL, 5 mi NE of Jean   |                | 945              | 11/6/1955 | 11/7/1955               | coal: 385<br>coal: 405<br>coal: 428<br>coal: 680<br>Sh, dk gy: 853<br>Sh, blk: 879   |  |
| 48             | Alexander-Clarida et al., E. Johnson #4 (oil prod) TE&L Co. Suv., Sec. 1495, 100 ac., 450 ft FNL & 1000 ft FWL, 5 mi NE of Jean   |                | 871              | 9/6/1955  | 9/7/1955                | coal streak: 340<br>coal: 360<br>coal: 372<br>coal: 394<br>Sh, blk: 458<br>Sh, dk gy: 478<br>coal: 480<br>Sh, dk gy: 825<br>Sh, blk: 846 |  |
| 49             | Alexander-Clarida et al., E. Johnson #6 (abd, dry hole) TE&L Co. Suv., Blk 1495, Sec. A-921, 100 ac., 750 ft FN&E of S/2, 5 mi NE of Jean   |                | 930              | 9/13/1955 | 9/15/1955;<br>10/2/1955 | coal: 370<br>coal: 391<br>coal: 453<br>coal: 466<br>Sh, blk: 732<br>Sh, dk gy: 838<br>Sh, blk: 870                                       |  |
| 50             | W.E. Allbun, J.T. Sims #1 (dry hole) Suv. 810, 80 Acres, 150 ft FNL & 150 ft FWL of SE 1/4 of Suv.  |                | 835              | 7/30/2028 | 8/10/2028               | coal: 91<br>coal, hard: 100<br>Sh, blk: 150<br>Sh, blk: 237<br>Sh, blk: 648<br>Sh, blk: 760<br>Sh, sdy, blk: 830                         |  |
| 51             | F.J. Albrittain, F.M. Gilmore #3 (oil prod) Young Co. School Land, Blk 14, Abst. 1284, 47 Acres, 450 ft NL & 750 ft WL  |                | 584              |           | 12/7/1933               | Sh, blk: 546   |  |
| 52             | F.J. Albrittain, F.M. Gilmore #5 (oil prod) Young Co. School Lds, Blk 14, Abst. 1284, 46 Acres, 450 ft FN & 1350 ft FWL   |                | 585              | 10/1/1933 | 10/10/1933              | Sh, blk: 549   |  |
| 53             | F.J. Albrittain, F.M. Gilmore #8 (oil prod) Young Co. School Lds, Blk 14, Abst. 1284, 150 ft FNL & 300 ft W of #4, Abst. 1284   |                | 1116             | 586       | 10/3/1936               | 10/9/1936  | Sh, blk: 130<br>Sh, blk: 551<br>Sh, blk: 555 |
| 54             | F.J. Albrittain, F.M. Gilmore #9 (oil prod) YCSL Suv, Blk 14, Sec. 1284, well in NW corner Tr Abst 1284   |                |                  |           |                         | Sh, blk: 555   |  |
| 55             | F.J. Albrittain, F.M. Gilmore #10 (oil prod) YCSL Suv, Blk 14, Sec. 1284, 150 ft FN & W lines   |                | 593              | 5/24/1937 | 5/31/1927               | Sh, blk: 554   |  |
| 56             | F.J. Albrittain, F.M. Gilmore #11 (oil prod-Markey field) YCSL Suv, Blk 14, Sec. 1284, 47 acres, 390 ft FNL & 240 ft S of #9 & 300 ft W of #3   |                | 586              | 4/18/1939 | 4/26/1939               | coal: 118<br>Sh, blk: 558  |  |
| 57             | F.J. Albrittain, F.M. Gilmore #14 (oil prod-Markey field) YCSL Suv, Blk 14, Sec. 1284, 47 acres, 450 ft FNL & 150 ft FWL  |                | 1115             | 579       | 9/1/1945                | 10/15/1945   | coal: 114<br>Sh, blk: 119<br>Sh, blk: 543    |
| 58             | F.J. Albrittain, Gregg #4 (abd dry hole) Young County School Suv, Blk 17, 150 ft fr S & W lines of 100 acre Tr.   |                | 1101             | 755       | 11/14/1935              | 11/26/1935   | lignite: 135<br>Sh, blk: 695                 |
| 59             | F.J. Albrittain, Mrs. F.L.Gregg #11 (dry hole) YCSL Suv, Blk 17, Sec. 1284, 150 ft FWL & 450 ft FSL   |                | 1115             | 579       | 9/1/1945                | 10/15/1945   | coal: 132<br>Sh, blk: 554                    |
| 60             | F.J. Albrittain, W.W. Gregg #12 (dry hole) YCSL Suv, Blk 17, Sec. 1284, 100 acres, 450 ft FNL & 500 ft FWL  |                |                  | 638       | 8/9/1937                | 8/13/1937  | Sh, blk: 132<br>Sh, blk: 548                 |
| 61             | F.J. Albrittain, J.P. Logan #1 (dry hole) YCSL Suv, Blk 24, 80 acres, 450 ft FSL & 750 ft FWL   |                |                  | 611       | 8/2/1937                | 8/6/1937   | Sh, blk: 126<br>Sh, blk: 560                 |
| 62             | R.E. Allday, Jacob Cross et al. #1 (dry hole) TE&L Suv, Blk 1993, 750 ft FNL & 150 ft FEL   |                |                  | 574       | 9/23/1929               | 9/29/1929  | coal: 95<br>coal: 155<br>Sh, blk: 567        |
| 63             | R.E. Allday, Est. C.W. Johnson #1 (dry hole) E.W. Sargent Suv, Blk 6, Richardson Subd., 150 ft FNL & 150 ft FEL   |                |                  | 614       | 10/14/1929              | 10/20/1929   | coal: 160<br>Sh, blk: 226<br>Sh, blk: 557    |
| 64             | R.E. Allday, Petty & Miller #1 (dry hole) TE&L Suv, Blk 3404, 150 ft FNL & 150 ft FWL   |                |                  | 593       | 11/18/1929              | 12/12/1929   | coal: 34<br>Sh, blk: 238                     |

| Occurrence No. | Well name / location  | Elevation (ft) | Total depth (ft)   | Spud date  | Compl; PB dates          | Coal and black or dark-gray shale occurrences (depth in ft)                     |
|----------------|---|----------------|--------------------|------------|--------------------------|---|
| 65             | Allday Oil Corp., C.W. Johnson #1 (dry hole)<br>E.W. Sergeant Surv. Blk Lot #1, Richardson Bros. Subd.,<br>150 ft FEL & 150 ft FSL  | 1204           | 604                | 2/15/1929  | 2/23/1929                | coal: 161<br>coal: 228<br>Sh, blk: 543  |
| 66             | Allday Oil Corp., C.W. Johnson Est. #6A (oil prod)<br>E.W. Sergeant Surv. Blk 14, 40 ac., 1080 ft FWL & 150 ft FNL  |                | 598                | 10/11/1928 | 10/18/1928               | coal: 175<br>coal: 232  |
| 67             | Allday Oil Corp., C.W. Johnson Est. #7A (dry hole)<br>E.W. Sergeant Surv. 1390 ft FWL & 150 ft FNL  |                | 640                | 10/18/1928 | 10/24/1928               | Sh, blk: 180<br>Sh, blk: 245<br>Sh, blk: 598                                    |
| 68             | Allday Oil Corp., C.W. Johnson Est. #8A (oil prod)<br>E.W. Sergeant Surv. 1080 ft FWL & 450 ft FNL  |                | 594                | 10/19/1928 | 10/27/1928               | coal: 174<br>Sh, blk: 560   |
| 69             | Allday Oil Corp., C.W. Johnson Est. #5B (oil prod)<br>E.W. Sergeant Surv. Blk 15, 40 ac., 450 ft FWL & 194 ft FSL   |                | 509                | 10/24/1928 | 10/30/1928               | Sh, blk: 560<br>coal: 175   |
| 70             | Allday Oil Corp., C.W. Johnson Est. #6B (oil prod)<br>E.W. Sergeant Surv. Sec. 15, 450 ft E & 194 ft N fr SW corner   |                |                    |            |                          | Sh, blk: 150<br>coal: 220<br>Sh, blk: 515                                       |
| 71             | Allday Oil Corp., C.W. Johnson Est. #1C (oil prod)<br>E.W. Sergeant Surv. Blk 8, 150 ft E & 150 ft S of NW corner   |                | 509                | 10/1/1928  | 10/5/1928                | Sh, blk: 100<br>Sh, blk: 175  |
| 72             | Allday Oil Corp., C.W. Johnson Est. #2C (oil prod)<br>E.W. Sergeant Surv. Blk 8, 150 ft E & 150 ft S of NW corner   |                | 545                | 10/9/2028  | 10/14/2028               | Sh, blk: 108<br>Sh, blk: 181<br>Sh, blk: 473<br>Sh, blk: 492                    |
| 73             | Allday Oil Corp., J.P. McKinley, #9 (dry hole)<br>TE&L Surv. 25 Acres, Blk 1489, 450 ft FEL & 754 ft FSL of<br>S 25 Acres E of 65 Acres                                   |                | 535                | 9/26/1928  | 10/12/1928               | coal: 145<br>Sh, blk: 512   |
| 74             | Allday Oil Corp., E.W. Sergeant #3A (oil prod)<br>E.W. Sergeant Surv. 450 ft S W.W. fr NE Cor. S 40 Ac. of<br>W 62 1/2 Ac. N 125 ac E 450 Ac                              |                | 592                | 4/16/1930  | 4/24/1930                | coal: 167<br>Sh, blk: 547   |
| 75             | Amerada Petroleum Corp., J.W. Dawe #1 (dry hole)<br>TE&L Co. #750 Surv., 150 ft FEL & 150 ft FSL  |                | 965                | 10/10/1928 | 10/28/1928               | Sh, blk: 230<br>Sh, blk: 415<br>Sh, blk: 435                                    |
| 76             | Amerada Petroleum Corp., J.H. Cochran #1 (dry hole)<br>Pennington Surv., 660 ft N of SL & 2200 ft E of WL, 2 acre tract   |                | 536                | 3/26/1928  | 4/5/1928                 | Sh, blk: 150<br>Sh, blk: 442  |
| 77             | Amerada Petroleum Corp., L.M. Wilkinson #1 (dry hole)<br>TE&L Co. Survey Sec. 724 & 725, 150 ft FSL & 1867 ft FEL   |                | 806                | 9/1/1928   | 9/19/1928                | Sh, blk: 250<br>Sh, blk: 335<br>Sh, blk: 430<br>Sh, blk: 520<br>Sh, blk: 728    |
| 78             | O.T. Anderson, A.A. Bernhart #1 (dry hole)<br>W. McCarty Surv. Abst. 1488, 59 acres, 150 ft FN & W lines  |                | 1113               |            |                          | Sh, blk: 660  |
| 79             | O.T. Anderson Oil Co., Belknap Coal Co. #1 (oil prod)<br>TE&L Co. Surv. #23, 150 ft FWL & 900 ft FNL  |                | 654                | 2/17/1935  | 3/4/1935                 | Sh, blk: 163<br>Sh, blk: 268<br>Sh, blk: 317                                    |
| 80             | O.T. Anderson Oil Co., Belknap Coal Co. #3 (dry hole)<br>TE&L Co. Surv. #23, 45.3 Acre Tr., 450 ft FWL & 150 ft FSL   |                |                    |            |                          | Sh, blk: 267<br>Sh, blk: 350<br>Sh, blk: 441                                    |
| 81             | O.T. Anderson Oil Co., Belknap Coal Co. #4 (oil prod)<br>TE&L Co. Surv. #23, 478 ft FNL & 150 ft FWL, 332 ft N of #1  |                | 663                | 4/4/1935   | 4/11/1935                | Sh, blk: 122<br>Sh, blk: 270<br>Sh, blk: 280<br>Sh, blk: 643                    |
| 82             | O.T. Anderson Oil Co., Belknap Coal Co. #5 (dry hole)<br>TE&L Co. Surv. #23, 45.3 Ac., 238 ft FNL & 150 ft FWL,<br>328 ft N of #4   |                | 725                | 4/5/1935   | 4/9/1935                 | Sh, blk: 263<br>coal: 345<br>Sh, blk: 660                                       |
| 83             | O.T. Anderson & E. W. Hunt, E.W. Hunt #1 (dry hole)<br>TE&L Co. Surv. Sec. 240, 160 Acres, 510 ft FWL & 150 ft FNL<br>N 1/2 of Surv.                                      |                | 1083               | 11/6/1936  | 11/15/1936               | coal, hard: 601   |
| 84             | Rhea Anderson, Mrs. A.A. Bernhardt #1 (dry hole)<br>TE&L Surv., Surv. 238, 120 Ac. Tract, 150 ft E S & E lines.   |                | 1028               | 9/15/1939  | 9/30/1939                | Sh, blk: 994  |
| 85             | Rhea Anderson, V.W. Kunkel #1 (dry hole)<br>TE&L Co. Surv., Blk 1174, 150 ft each way fr SW corner of<br>Kunkler Land & was an offset to GT&W Right of Way.               |                | 1202               | 4/26/1933  | 5/14/1933                | Sh, blk: 570<br>Sh, blk: 788<br>Sh, dark: 900<br>Sh, blk: 1170<br>Sh, blk: 1175 |
| 86             | Rhea Anderson, J.P. Mullinax #1 (dry hole)<br>TE&L Co. Surv., Blk 168, Ab. 415, 150 ft 470 ft FNL,<br>150 ft FWL of S 400 Ac. of N 80 Ac. Of W 120 Ac.                    |                | 1001               | 1/22/1940  | 1/30/1940                | Sh, blk: 600<br>Sh, blk, sdy: 920   |
| 87             | Anderson Oil Account, B.W. King #3 (abd dry hole)<br>TE&L Survey Sec. 730 Abst. 735, 320 ac., 1380 ft FEL &<br>1280 ft FSL of Surv Sec 730, 7.5 mi SW fr New Castle       |                | 4700               | 7/26/1957  | 8/10/1957<br>abd 8/14/57 | coal: 1231  |
| 88             | Anderson Oil, Ltd. & Associates, Dorian-King "A" #2 (oil prod)<br>TE&L Abst. 292, Sec 16, 320 ac., 450 ft FSL & 1000 ft FWL   |                | 3955               | 3/22/1956  | 3/31/1956                | coal: 1050  |
| 89             | F.M. Andrews, Hearne #1 (dry hole)<br>TE&L Co. Surv., Sec. 355, 220 Ac. Tr., 1399 ft FN & E lines   |                | 725                | 3/18/1935  | 4/3/1935                 | coal: 44<br>coal: 141<br>coal: 169  |
| 90             | Anzac Oil Corp. et al., M.K. Graham #1 (oil prod, Martin field)<br>A.E. Gossett Surv. Abs. #1802, 1400 ft N & W lines   |                | 1160 GL            | 4/5/1912   | 3/13/1941<br>8/16/1941   | Sh, blk: 240<br>Sh, blk: 1480   |
| 91             | Anzac Oil Corp. et al., M.K. Graham Estate #10 (dry hole)<br>TE&L Co. Surv., Sec. 3410, 6200 ft FWL & 3407 ft FSL<br>of Frac. "C"   |                | 1169 DF            | 2712       | 4/11/1946                | 5/27/1946   |
| 92             | Anzac Oil Corp., M.K. Graham "D" #03 (dry hole)<br>TE&L Co. Surv. #3410, Tract C, 689 Ac., 2640 ft FSL & 5500 ft<br>FWL of 2200 ft FWL & 3407 ft FSL, 14 mi W fr Graham   |                | 1201               | 4710       | 8/30/1947                | 12/25/1947  |
| 93             | Anzac Oil Corp. et al., M.K. Graham Est. & E.W. Harrison #2<br>(oil prod), A.E. Gossett Surv., 220 Ac., 467 ft FWL & 330 ft<br>FSL of Lee                                 |                | 1141 DF            | 4045       | 10/10/1944               | 5/15/1945   |
| 94             | Anzac Oil Corp., Graham & Harrison #5 (dry hole)<br>Gossett Surv. Abst. 1802, 708.3 Ac, 330 ft FSL & 550 ft FEL<br>3 mi W fr South Bend                                   |                | 1084 GL<br>1085 DF | 2235       | 5/25/1951                | 6/29/1951<br>Sh, dark: 1155<br>Sh, dark: 1370                                   |
| 95             | Anzac Oil Corp., A.P. Martin #4 (dry hole)<br>Geo. Cothran Surv., Sec A-1401, 330 ft FSL & 467 ft FEL,<br>4 mi W fr South Bend  |                | 1173 DF            | 2365       | 12/10/1946               | 2/4/1947<br>Sh, blk: 255  |
| 96             | Anzac Oil Corp. et al., A.P. Martin #7 (oil prod)<br>Cothran Surv. Abs. 1401, 148.3 ac., 905 ft FWL & 1060 ft FNL   |                | 1170 GL<br>1172 DF | 2216       | 1/11/1952                | 2/19/1952<br>Sh, dark: 255<br>Sh, blk: 1280                                     |
| 97             | Anzac Oil Corp. et al., A.P. Martin #8 (oil prod)<br>Geo. Cothran Surv., Abst 1401, 148.3 ac., 400 ft FNL &<br>1220 ft FWL, 660 ft N & 315 ft E of #7, 4.5 mi W of S Bend |                | 1172 GL<br>1174 DF | 2372       | 4/26/1952                | 5/25/1952<br>Sh, dark: 257<br>Sh, dark: 2165<br>Sh, dark: 1505                  |
| 98             | Anzac Oil Corp. et al., A.P. Martin #1 (oil prod)<br>Townsend Surv., Abst. 1642, 660 ft fr S & W lines  |                | 1187 GL<br>1192 RT | 2403       | 12/15/1942               | 12/19/1942<br>Sh, blk: 1768   |

| Occurrence No. | Well name / location  | Elevation (ft) | Total depth (ft) | Spud date  | Compl; PB dates                    | Coal and black or dark-gray shale occurrences (depth in ft)  |
|----------------|---|----------------|------------------|------------|------------------------------------|--|
| 99             | Townsend Suv., Abst. 1642, 80 Ac. Tr., 800 ft N & 330 ft fr WL; 4 mi W fr South Bend  | 1208 DF        | 2206             | 4/10/1951  | 5/11/1951                          | Sh, dark: 327<br>Sh, dark: 393<br>Sh, dark: 565<br>Sh, blk: 1345<br>Sh, dark: 1570   |
| 100            | Arcadia Refining Co., Jeffery #1 (dry hole)<br>TE&L Co. Suv., Sec 47, 150 ft FEL & 150 FSL N 40 Ac. of E 80 Ac of S 160 Ac of Suv # 47                              | 898            | 11/1/1930        | 12/1/1930  |                                    | Sh, blk: 230<br>Sh, blk: 375<br>Sh, blk: 436<br>Sh, blk: 445<br>Sh, blk: 453<br>Sh, blk: 761<br>Sh, blk: 826   |
| 101            | Archer Drilling and Producing Company, Evans #1 (dry hole)<br>I. Holman Sur 55 Acres 150 ft FSL & 450 ft FWL of Lse, W 55 ac out of 160 ac of Sur; 5 mi NW fr Olney | 1339           | 1/27/1954        | 1/28/1954  |                                    | coal streaks: 903.5<br>coal: 912<br>Sh, blk: 1287<br>Sh, blk: 1312.5   |
| 102            | Archer Drilling and Prod. Comp., Mary Wilson #2 (oil prod)<br>I. Holman Sur., 60 ac., 300 ft FSL & 1050 ft FEL  | 1239           | 11/7/1955        | 11/8/1955  |                                    | Sh, blk: 1237  |
| 103            | Floyd Ard, Jr., Belknap Coal Co #1 (dry hole)<br>TE&L Suv. Blk 21, 150 ft FNL & 150 ft FWL, W 20 Ac. N 40 Ac. SW 1/4 Blk 21   | 800            | 12/28/1930       | 1/20/1931  |                                    | coal: 100<br>Sh, blk: 160<br>Sh, blk: 253  |
| 104            | Floyd Ard, Jr., Belknap Coal Co #1 (dry hole)<br>TE&L Co. Suv., Blk 21, 150 ft each way fr NE Cor. SE 20 Ac. of SW 1/4 Blk 21                                       | 745            | 12/20/1932       | 12/31/1932 |                                    | Sh, blk: 247<br>Sh, blk: 287<br>Sh, blk: 295<br>Sh, blk: 305   |
| 105            | Floyd Ard, Jr., Belknap Coal Co #2 (oil prod)<br>TE&L Suv. Blk 22   | 722            | 5/15/1931        | 6/1/1931   |                                    | Sh, dark: 704  |
| 106            | Floyd Ard, Jr., Jennie Jeffrey #D1 (dry hole)<br>TE&L Suv. Blk 48, 1063 ft S & 150 ft W fr NE corner  | 1216           | 900              | 1/10/1932  | 2/1/1932                           | coal: 300<br>Sh, blk: 432<br>Sh, blk: 816  |
| 107            | Floyd Ard, Jr., Jennie Jeffrey #F1 (dry hole)<br>TE&L Co Survey, Blk 48, 150 ft each way fr NW Cor. of E 30 Ac. of N 80 AC.   | 1209           | 885              | 1/10/1932  | 2/1/1932                           | coal: 302<br>coal: 426<br>coal: 460<br>Sh, blk: 830  |
| 108            | Floyd Ard, Jr., S.R. Jeffrey #1 (dry hole)<br>TE&L Co Survey, Blk 41, 450 ft S & 150 ft E NW Cor. Blk   | 1203           | 825              | 3/10/1931  | 3/23/1931                          | Sh, blk: 235<br>coal: 350<br>coal: 372   |
| 109            | Floyd Ard, Jr., D.L. Keith et al. #1 (dry hole)<br>TE&L Suv. Blk 28, 150 ft fr S & E lines  | 1190           | 756              | 9/23/1930  | 10/11/1930                         | coal, Sh, blk: 270<br>Sh, blk: 720   |
| 110            | Floyd Ard, Jr., J.J. Perkins #1 (dry hole)<br>TE&L Co. Suv. Blk 21, 150 ft S & E of NW Cor. E 1/2 of SW 1/4 Blk 21  | 1200           | 900              | 3/28/1931  | 3/31/1931                          | Sh, blk: 273   |
| 111            | Floyd Ard, Jr., Mrs. G.B. Terrell Est. #1 (oil well)<br>TE&L Suv. Blk 255, 150 FSL & 150 ft FWL   | 696            | 7/19/1930        | 9/18/1930  |                                    | Sh, blk: 260<br>Sh, blk: 689   |
| 112            | Floyd Ard & Pace, Belknap Coal Co. #1 (dry hole)<br>TE&L Co. Suv. Sec. 23, 150 ft FNL & 150 ft FEL SE 1/4   | 730            | 8/25/1935        | 8/30/1935  |                                    | Sh, blk: 255<br>coal: 285  |
| 113            | Ard Hansen et al., Belknap Coal Co. #1 (abd dry hole)<br>TE&L Co. Suv. Blk 21, 40 Ac., 4 mi NW fr New Castle  | 780            | 4/1/1941         | 4/5/1941   |                                    | Sh, blk: 729   |
| 114            | Ard-Hansen et al., Belknap Coal Co. #1B (dry hole)<br>TE&L Co. Suv. Blk 23, 40 Ac., 8 mi S fr Olney   | 725            | 3/13/1941        | 3/22/1941  |                                    | coal: 70<br>Sh, dark: 95<br>Sh, blk: 250<br>Sh, blk: 472   |
| 115            | Arkansas Fuel Oil Company, J.W. Bullock #1 (dry hole)<br>TE&L Co. Suv. Sec. 344, 957.5 ft S & 933.3 ft W of NE Cor. Sec. 344  | 893            | 9/26/1930        | 10/12/1930 |                                    | Sh, blk: 437<br>Sh, blk: 897   |
| 116            | Arkansas Fuel Oil Company, S.R. Jeffery "A" #1 (dry hole)<br>TE&L Co. Blk 49, in center of S 150 acres of Blk 49  | 905            | 8/6/1930         | 8/16/1930  |                                    | lignite: 420<br>coal: 460<br>Sh, blk: 790  |
| 117            | Arkansas Fuel Oil Company, S.R. Jeffery "C" #1 (dry hole)<br>TE&L Co. Suv. Sec. #55, 1092 ft E & 934 ft S of NW Cor.  | 956            | 9/14/1930        | 9/22/1930  |                                    | Sh, blk: 535<br>Sh, blk: 851   |
| 118            | Armour Properties, Carmack #1 (oil prod)<br>YCSL Suv. Blk 16, 317.5 ac, 596 ft FWL & 656 ft FSL of Ise.   | 3712           | 11/27/1948       | 12/9/1948  |                                    | coal: 200<br>coal: 310   |
| 119            | Mel Armstrong, Mel Armstrong-Pauline Ferguson #1 (dry hole)<br>L.W. Smith Suv., 130 Acres, Symptha Tyne Abst 274, 150 ft FNL & 150 ft FWL                           | 657            | 9/12/1932        | 10/17/1932 |                                    | Sh, blk: 32<br>Sh, blk: 366  |
| 120            | Mel Armstrong, E.M. Greathouse #1 (dry hole)<br>Robert Barr Suv., 120 Ac., 250 ft FSL & 600 ft FEL  |                |                  |            | 4/17/1933                          | Sh, blk: 835   |
| 121            | Mel Armstrong, D.M. Spearman & T.C. McCloud #1 (dry hole)<br>S. Sallie Survey #252, 150 ft FNL & 150 ft fr SW corner of R. Morrison lease, .53 Acres                | 670            | 9/27/1932        | 11/2/1932  |                                    | Sh, blk: 95<br>Sh, blk: 545  |
| 122            | Associated Developers, W.P. Terrell et al. #1 (dry hole)<br>TE&L Co. Abst. 532, 990 ft fr S & E lines 320 Ac Tr.<br>TE&L Suv. # 285, Abst 532                       | 3011           | 6/2/1936         | 6/25/1936  | coal, shale: 1040<br>Sh, blk: 1048 |  |
| 123            | Associated Developers, E.G. Williamson #1 (dry hole)<br>TE&L Co. Suv. Blk 601, 330 ft FNL & 990 ft FWL N 1/2 Suv.   | 3000           | 7/23/1936        | 8/10/1936  |                                    | Sh, blk: 973   |
| 124            | Associated Developers, E.G. Williamson #1 (dry hole)<br>TE&L Co. Suv. Blk 286, 160 Acres, 330 ft FWL & 990 ft FSL   | 3000           | 11/10/1936       | 11/28/1936 | coal: 167<br>Sh, blk: 998          |  |
| 125            | Associates Oil Co. Pat Marr, Lisle #1 (dry hole)<br>TE&L Suv., 60 Ac., Sec 260, 250 ft FEL & 450 ft FSL   | 1193           | 767              | 7/4/1930   | 7/9/1930                           | Sh, dark: 85<br>Sh, blk: 230<br>Sh, blk: 290   |
| 126            | Paul Atchley, J.P. Atchley #1 (dry hole)<br>TE&L Suv., Blk 226, 80 acre tract, 1070 ft FEL & 530 ft FSL   | 995            | 1/6/1937         | 1/20/1937  |                                    | Sh, blk: 320<br>Sh, blk: 552<br>Sh, dark: 649<br>Sh, blk: 972  |
| 127            | Paul Atchley, J.P. Atchley #2 (oil prod)<br>TE&L Co. Suv. Blk 226, 80 Acre Tract, 940 ft N & 750 ft W of SE Corner of Blk 226                                       | 1000           | 2/1/1937         | 2/13/1937  |                                    | Sh, blk: 500<br>Sh, blk: 515<br>Sh, blk: 565   |
| 128            | Paul Atchley, J.P. Atchley Farm #3 (dry hole)<br>TE&L Co. Suv. Blk 226, 80 acre Tr., 310 ft NW of # well  | 1005           | 3/26/1937        | 4/6/1937   |                                    | Sh, blk: 332<br>Sh, blk: 360<br>Sh, blk: 503<br>Sh, blk: 515<br>Sh, blk: 521<br>Sh, blk: 544<br>Sh, blk: 571<br>Sh, blk: 579<br>Sh, blk: 969<br>Sh, blk: 990 |
| 129            | Paul Atchley, S.M.J. Benson #10 (oil prod)<br>TE&L Co. Suv. Blk 1392, 50 Ac. Lse., 750 ft E & 450 ft S of NW Cor. 50 Ac. Lse. 300 ft E of # well                    | 947            | 2/8/1938         | 3/2/1938   |                                    | Sh, blk: 275<br>Sh, blk: 555<br>Sh, blk: 558<br>Sh, blk: 896   |

| Occurrence No. | Well name / location  | Elevation (ft) | Total depth (ft) | Spud date  | Compl; PB dates       | Coal and black or dark-gray shale occurrences (depth in ft)   |
|----------------|---|----------------|------------------|------------|-----------------------|---|
| 130            | Paul Atchley, S.M.J. Benson Estate #1B (dry hole)<br>TE&L Co. Suv. Blk 1451, 20 Ac., 150 ft fr N & E lines;<br>5 mi E fr Olney                                      |                |                  |            |                       | Sh, blk: 401<br>Sh, blk: 418<br>Sh, blk: 639<br>Sh, blk: 842  |
| 131            | Paul Atchley, S.M.J. Benson Estate #9 (dry hole)<br>TE&L Co. Suv. Blk 1392, 450 ft FNL, 300 ft E of #2  |                | 915              | 1/11/1938  | 1/23/1938             | Sh, blk: 282<br>Sh, blk: 460<br>Sh, blk: 471<br>Sh, blk: 552<br>Sh, blk: 880                                      |
| 132            | Paul Atchley, S.M.J. Benson Estate #12 (oil prod)<br>TE&L Co. Suv. Blk 1392, 350 ft FNL, 200 ft fr well #1, 200 ft<br>N of #6, 300 ft E of #8,                      | 1177           | 925              | 11/29/1938 | 12/15/1938            | Sh, blk: 302<br>Sh, blk: 454<br>Sh, blk: 464<br>Sh, blk: 547  |
| 133            | Paul Atchley, City National Bank #1 (oil prod)<br>TE&L Co. Suv. Blk 225, 80 Ac., 150 ft FNL, 450 ft FEL,<br>3.5 mi E fr Olney                                       |                | 1003             | 1/4/1939   | 1/19/1939             | Sh, blk: 315<br>Sh, blk: 505<br>Sh, blk: 637<br>Sh, blk: 967  |
| 134            | Paul Atchley, R. Campbell Estate #1 (dry hole)<br>TE&L Co. Suv. #231, A-478, 40 acres, 750 ft FWL &<br>450 ft fr SE Cor. of Suv. #231, 1/2 mi Se fr Olney           |                | 1042             | 10/26/1949 | 10/27/1949            | coal 522<br>coal 593<br>Sh, blk: 1010   |
| 135            | Paul Atchley, Mrs. George Clark #1 (dry hole)<br>TE&L Co. Suv. Blk 208, 1700 ft FNL & 450 ft FWL,<br>2 mi S fr Olney  |                | 860              | 2/17/1943  | 2/26/1943<br>3/1/1943 | Sh, blk: 235<br>Sh, blk: 365<br>Sh, blk: 387<br>Sh, blk: 431<br>Sh, blk: 793                                      |
| 136            | Paul Atchley, C. Deitrich #1 (dry hole)<br>TE&L Co. Suv. Blk 196, 1380 ft FSL & 1380 ft FEL,<br>6 mi W fr Olney   |                | 986              | 6/21/1941  | 6/24/1941             | Sh, blk: 856<br>Sh, dark: 970   |
| 137            | Paul Atchley, C. Deitrich #2 (dry hole)<br>TE&L Co. Suv. Blk 196, 160 Ac., 1386 ft W & 150 ft N of SE<br>Cor., 3 mi SW fr Olney                                     |                | 1020             | 9/22/1941  | 10/13/1941            | Sh, blk: 392<br>Sh, blk: 516<br>Sh, blk: 578<br>Sh, blk: 605  |
| 138            | Paul Atchley, D. D. Dickerson #1 (dry hole)<br>TE&L Co. Suv. Blk 25, Abst. 301, 450 ft W & 150 ft S of NE<br>Corner of SE 1/4 of Suv. #25, 6 mi S of Olney          |                | 798              | 10/2/1937  | 10/8/1937             | Sh, blk: 159<br>Sh, blk: 320<br>Sh, blk: 347<br>Sh, blk: coal 522<br>Sh, blk: 476<br>Sh, blk: 543<br>Sh, blk: 755 |
| 139            | Paul Atchley, City of Olney #3 (dry hole)<br>TE&L Co. Sur., Blk 230, 100 acres, 150 ft FSL & 450 ft FEL of<br>Lse., 1 mi S fr Olney                                 | 1185           | 999.5            | 9/18/1949  | 9/21/1949             | coal shale: 500<br>coal: 534<br>coal: 561<br>Sh, blk: 953   |
| 140            | Paul Atchley, E.A. Edwards #1 (dry hole)<br>TE&L Co. Sur., Blk 3401, Abst. 1221, 100 acres, 750 ft S &<br>450 ft E of NW Corner                                     |                | 9/18/1902        | 5/3/1939   | 5/12/1939             | Sh, dark: 438<br>Sh, blk: 506<br>Sh, blk: 668   |
| 141            | Paul Atchley, Mrs. Smith Groves #1 (dry hole)<br>TE&L Suv., Blk 161, Abst. 408, 150 ft FNL & 150 ft FWL   |                | 1080             | 11/2/1936  | 11/12/1936            | Sh, blk: 397<br>Sh, blk: 441<br>Sh, blk: 593<br>Sh, blk: 825<br>Sh, blk: 1042                                     |
| 142            | Paul Atchley, T.S. Guimarin #1 (dry hole)<br>TE&L Co. Suv., Blk 156, Ab. 402, 56 Acres, 2000 ft N & 500<br>ft E of SW Cor. S 1/2 Suv.                               |                | 1049             | 4/24/1941  | 5/7/1941              | Sh, blk: 570<br>Sh, blk: 1027   |
| 143            | Paul Atchley, Haygood #1 (dry hole)<br>TE&L Co. Suv., Blk 1369, 80 Ac. Tr., 550 ft N & 150 ft E<br>of SW Corner   |                | 1003             | 2/25/1937  | 3/16/1937             | Sh, dark: 308<br>Sh, blk: 486<br>Sh, blk: 497<br>Sh, blk: 551<br>Sh, blk: 563<br>Sh, blk: 979                     |
| 144            | Paul Atchley, G.M. Hunter #1 (dry hole)<br>TE&L Co. Suv., Blk 290, 35 acres, 150 ft FWL & 450 ft FNL  |                | 650              | 9/22/1937  | 9/26/1937             | Sh, blk: 116<br>Sh, blk: 260<br>Sh, blk: 326<br>Sh, blk: 607  |
| 145            | Paul Atchley, Dan Johnson #1 (dry hole)<br>TE&L Co. Suv., Blk 25, Ab. 301, 1030 ft W & 164 ft S<br>NE Cor.  |                | 830              | 7/12/1939  | 7/20/1939             | Sh, blk: 180<br>Sh, blk: 335<br>Sh, blk: 375<br>Sh, blk: 400<br>Sh, blk: 560<br>Sh, blk: 730<br>Sh, blk: 825      |
| 146            | Paul Atchley, H. Koester #1 (dry hole)<br>H.B. Akels Suv., Abst. 5, 80 Ac., 750 ft FEL & 1116 ft FNL,<br>3 mi NE of Olney   |                | 1080             | 11/20/1941 | 12/9/1941             | Sh, blk: 345<br>Sh, blk: 640<br>Sh, blk: 704<br>Sh, blk: 720<br>Sh, blk: 1040                                     |
| 147            | Paul Atchley, City of Olney #1 (dry hole)<br>TE&L Co. Suv., Blk 230, 1460 ft FWL & 750 ft FSL   |                | 1023             | 4/3/1941   | 4/13/1941             | Sh, blk: 508<br>Sh, blk: 521  |
| 148            | Paul Atchley, City of Olney #2 (dry hole)<br>TE&L Sur., Blk 230, 124.77 ac, 800 ft FSL & 600 ft FWL of<br>Lse. TE&L Sur. #154                                       |                | 1010             | 9/3/1948   | 9/4/1948              | Sh, blk: 998  |
| 149            | Paul Atchley, F.G. Swaim #1 (dry hole)<br>TE&L Company Survey, Surv. 161, Abst 408, 1600 ft S &<br>850 ft W of NE corner  |                | 1056             | 9/25/1935  | 10/5/1935             | Sh, blk: 568<br>Sh, blk: 643<br>Sh, blk: 798<br>Sh, blk: 1018   |
| 150            | Paul Atchley, J.K. Thomas Estate #1 (dry hole)<br>TE&L Suv. 155, Abst. 402, 150 ft fr N & W lines   |                | 1071             | 12/5/1936  | 12/19/1936            | Sh, dark: 636<br>Sh, blk: 649<br>Sh, blk: 1035  |
| 151            | Paul Atchley, J.K. Thomas Estate #1 (dry hole)<br>TE&L Co. Survey, Blk 155, 100 Acres, 2030 ft FNL & 1080 ft<br>E of SW Cor., 1/4 mi S fr Olney                     |                | 1050             | 5/12/1941  | 5/23/1941             | Sh, blk: 350<br>Sh, blk: 418<br>Sh, blk: 1017   |
| 152            | Paul Atchley et al, S.M.J. Benson #8 (oil prod)<br>TE&L Co. Survey, Blk 1392, Abst. 867, 50 Ac. Tr., 450 ft<br>FWL & 450 ft FNL, 300 ft S of #4                     |                | 912              | 10/22/1937 | 11/2/1937             | Sh, blk: 263<br>Sh, blk: 456<br>Sh, blk: 540<br>Sh, blk: 882  |
| 153            | Paul Atchley et al, S.M.J. Benson Estate #11 (dry hole)<br>TE&L Co. Suv. Blk 1392, 450 ft E & 150 ft S of NW Corner of<br>N 50 Ac. Of E 100 Ac of N 200 Ac. Of Suv. |                | 961              | 11/1/1938  | 11/12/1938            | Sh, blk: 287<br>Sh, blk: 470<br>Sh, blk: 555<br>Sh, blk: 895  |
| 154            | Paul Atchley et al, S.M.J. Benson Estate #13 (dry hole)<br>TE&L Co. Suv. Blk 1392, 50 Ac., 450 ft FSL & 300 ft E of #8<br>on S 20 Ac lease of 50 Acres              |                | 992              | 4/8/1939   | 4/21/1939             | Sh, blk: 470<br>Sh, blk: 540<br>Sh, blk: 896  |

| Occurrence No. | Well name / location   | Elevation (ft)                  | Total depth (ft)  | Spud date  | Compl; PB dates | Coal and black or dark-gray shale occurrences (depth in ft)  |
|----------------|--|---------------------------------|-------------------|------------|-----------------|--|
| 155            | Atchley, Shira et al., S.M.J. Benson #1 (oil prod)<br>TE&L Suv. Blk 1392, 750 ft S & 1350 ft W of NE Cor. of Suv.  | 899                             | 3/10/1936         | 3/19/1936  |                 | Sh, blk: 267<br>Sh, blk: 460<br>Sh, blk: 540   |
| 156            | Atchley, Shira et al., S.M.J. Benson #2 (oil prod)<br>TE&L Suv. Blk 1392, 150 ft FWL & 279 ft N of well #1   | 1180                            | 907               | 4/3/1936   | 4/13/1936       | Sh, blk: 246<br>Sh, blk: 267<br>Sh, blk: 451<br>Sh, blk: 458<br>Sh, blk: 523<br>Sh, blk: 535<br>Sh, blk: 880 |
| 157            | Paul Atchley & J.B. Shira, S.M.J. Benson #4 (oil prod)<br>TE&L Survey, Blk 1392, 150 ft fr N & W lines   | 1174                            | 896               | 4/25/1936  | 5/10/1936       | Sh, dark: 260<br>Sh, blk: 456<br>Sh, blk: 537<br>Sh, blk: 865  |
| 158            | Paul Atchley & J.B. Shira, S.M.J. Benson #6 (oil prod)<br>TE&L Survey, Blk 1392, 150 ft FSL, 400 ft E of #1  | 948                             | 5/8/1936          | 6/6/1936   |                 | Sh, blk: 271<br>Sh, dark: 456<br>Sh, blk: 464<br>Sh, blk: 545<br>Sh, blk: 887                                |
| 159            | Atchley & Shira et al., S.M.J. Benson #7 (dry hole)<br>TE&L Co. Suv., 30 Acr., 721 ft S & 150 ft N of E Cor.<br>of Suv. 1392   | 980                             | 6/4/1936          | 7/2/1936   |                 | Sh, blk: 268<br>Sh, blk: 299<br>Sh, blk: 445<br>Sh, blk: 473<br>Sh, blk: 533<br>Sh, blk: 899                 |
| 160            | Atlantic Oil Producing Co., R.H. Rachig #A4 (oil prod)<br>BBB&C RR Suv., 785 ft FEI & 150 ft FNL   | 1263                            | 1183              | 4/2/1926   | 4/16/1926       | Sh, coal: 426<br>Sh, coal: 727   |
| 161            | Atlantic Oil Producing Co. et al., J.E. Keen #1B (oil prod)<br>TE&L Suv., Sec. 3401, 150 ft FNL & 750 ft FWL   | 1196                            | 903.5             | 3/29/1930  | 4/19/1930       | coal: 418<br>coal: 517   |
| 162            | Atlantic Oil Producing Co. et al., J.E. Keen #2B (dry hole)<br>TE&L Suv. #3401, 150 ft FNL & 1560 ft FEL   | 1186.5                          | 908               | 4/25/1930  | 5/13/1930       | coal: 499  |
| 163            | A.U.2 Oil Company, Gramell, Duffy, & Cook, S.M.J. Benson Est. #1 (dry hole); TE&L Co. Suv. Blk 1392, 40 acres, 150 ft fr N & E lines   | 1004                            | 5/7/1936          | 5/15/1936  |                 | Sh, blk: 437<br>Sh, blk: 505<br>Sh, blk: 864   |
| 164            | Joe K. Bailey c/o Man Drig. Co., Susan-Sallie (B.W. King) #1 (dry hole); Susan-Sallie, Suv. A-252, 214.8 ac., 3817 ft FNL, 3460 ft FEL of Sec A-252 (S-252), 3 mi NE fr Loving                   | 3700                            | 8/2/1952          | 8/18/1952  |                 | coal strks: 1040   |
| 165            | Joe K. Bailey & W.A. Lofton et al., Brown, T.J. Routen #1 (dry hole); TE&L Sur. See 736, A-471, 80 Ac., 330 ft FNL & 1650 ft FEL, 10 mi SW of Newcastle  | 4003                            | 10/14/1955        | 10/24/1955 |                 | coal strks: 180  |
| 166            | Joe K. Bailey & W.A. Lofton et al., B.W. King #2 (oil prod)<br>TE&L Sur. Blk 735, Abst 740, 80 ac., 330 ft FN&EL   | 3600                            | 9/29/1955         | 10/9/1955  |                 | coal strks: 326<br>coal strks: 369   |
| 167            | Joe K. Bailey & W.A. Lofton et al., B.W. King #3 (oil prod)<br>TE&L Sur. Blk A-740, Sec. 735, 80 ac., 330 ft FSL & 625 ft FWL  | 3603                            | 5/7/1956          | 5/15/1956  |                 | coal strks: 230  |
| 168            | Joe K. Bailey & W.A. Lofton et al., E.C. Stovall #1 (dry hole)<br>TE&L Sur., Blk 715, 60 Ac., 330 ft FN&WL of Ise.   | 3755                            | 6/1/1956          | 6/10/1956  |                 | coal: 220<br>coal: 296<br>shale, coal: 390   |
| 169            | Joe K. Bailey & J.C. Man, Jr., T. Bagley #1 (oil prod)<br>L.W. Ross Suv. Abst #1352, 44 Ac., 330 ft FS & WL of Ise   | 3627                            | 3/27/1951         | 4/7/1951   |                 | coal, shale: 338   |
| 170            | James Blair Baker, M.M.Burns #9 (dry hole)<br>TE&L Co. Suvv., Sec # 1365, 40 Ac., 150 ft W & 275 ft N of SE Cor. of N 40 Ac., S 80 Ac., W 160 Ac of Sect 1365                                    | 698                             | 6/7/1940          | 7/1/1940   |                 | coal: 235<br>Sh, blk: 430<br>Sh, blk: 887  |
| 171            | James Blair Baker, Eusthompson #1 (oil prod)<br>TE&L Suv., Blk 2692, 146 ac., 1200 ft FSEL & 990 ft FNEL   | 2212                            | 12/6/1958         | 12/16/1958 |                 | coal: 362  |
| 172            | James Blair Baker, D.L. Wolf #3 (oil prod)<br>TE&L Suv. 296 & 297 Blk 297, Abst. #944, 270 ac., 450 ft FNL, 1,280 ft FEL of Lse, 300 ft S of #2, 5 mi SE fr Olney                                | 1170 GL                         | 692               | 3/21/1947  | 3/28/1947       | Sh, blk: 668<br>Sh, blk: coal: 674   |
| 173            | James Blair Baker, D.L. Wolf #4 (oil prod)<br>TE&L Suv. #298 & 297, Blk 297, Abst. #944, 270 ac., 450 ft FNL & 2174 ft FWL of Suv. #297, 300 ft W of #3  | 1173 GL                         | 700               | 3/30/1947  | 4/17/1947       | shale, coal: 317   |
| 174            | James Blair Baker et al., D.L. Wolf #6 (dry hole)<br>TE&L Suv. #298 & 297, Blk 297, Abst. #944, 270 ac., 715 ft FNL & 2024 ft FWL of Suv. #297, 5 mi SE fr Olney                                 | 1175 GL                         | 696               | 4/3/1947   | 4/12/1947       | coal, hd sand: 304<br>coal, Sh, blk, lm: 677.5   |
| 175            | James Blair Baker et al., D.L. Wolf #8 (dry hole)<br>TE&L Suv. #298 & 297, Abst. 944, 9708 ft FNL & 1865 ft FWL of Blk 297   | KB depths<br>3.5 ft above<br>GL | 831               | 4/7/1947   | 4/10/1947       | Sh, blk, coal: 681<br>Sh, blk: 728<br>Sh, blk, coal: 775   |
| 176            | James Blair Baker et al., D.L. Wolf #B1 (dry hole)<br>TE&L Co Suv. #298, 270 ac., 1150 ft FNL & 650 ft FWL of Blk 296, 5 mi SE fr Olney  |                                 | 752               | 6/30/1949  | 7/1/1949        | coal: 348<br>coal, sh: 695   |
| 177            | James Blair Baker et al., H.M. Donnell #1B (oil prod)<br>W.L. Donnel Pre-Emp. Abst 1588, 120 Ac. Tr., 250 ft FWL & 250 ft FSL  | 1121                            | 3304.5<br>3302 PB | 6/18/1934  | 8/15/19334      | Sh ("slate"), blk: 330<br>Sh, blk: 592<br>Sh ("slate"), dark: 1558   |
| 178            | James Blair Baker et al., H.M. Donnell #2 (oil prod)<br>W.L. Donnel Suv. S.P. Ry Co. SW 1/4 Sec. 4, Abst. 1830, 2000 ft FWL & 200 ft FSL   | 1146                            | 3332              | 11/30/1929 | 1/12/1930       | Sh, blk: 0-12  |
| 179            | James Blair Baker, Jr., O.S. Perkins #1 (oil prod)<br>TE&L Co Suv. Sec. 208, 120 ac., 150 ft FS & E lines<br>("1086 ft W & 151 ft N of SE Cor. of 160 Ac. in Blk 206" in separate, typed record) | 1207                            | 848               | 12/5/1933  | 8/31/1934       | Sh, blk: 190<br>Sh, blk: 363<br>Sh, blk: 395<br>Sh, blk: 439<br>Sh, blk: 722                                 |
| 180            | Baker & Camp, Trustee, G.R. Smith #2 (dry hole)<br>TE&L Co Suv. Blk 1365, 40 Ac., 150 ft FS & E lines of lease   | 1181                            | 772               | 11/6/1933  | 11/16/1933      | Sh, blk: 198<br>Sh, blk: 310<br>Sh, blk: 334<br>Sh, blk: 356<br>Sh, blk: 400<br>Sh, blk: 702                 |
| 181            | Baker & Camp Trustees, G.R. Smith et al., #3 (oil prod)<br>TE&L Co Suv. Sec. 1365, 150 ft FWL & 450 ft FSL   | 1182                            | 706<br>695 PB     | 8/2/1934   | 8/15/1934       | Sh, blk: 160<br>Sh, blk: 334<br>Sh, blk: 398<br>Sh, blk: 535   |
| 182            | Baker & Camp Trustees, G.R. Smith et al., #4 (dry hole)<br>TE&L Co Suv. Blk 1365, 40 Ac., 150 ft FWL & 750 ft FSL, 300 ft N of #3  |                                 | 895               | 4/25/1938  | 5/5/1938        | Sh, blk: 163<br>Sh, blk: 257<br>Sh, blk: 320<br>Sh, blk: 333<br>Sh, blk: 366<br>Sh, blk: 395<br>Sh, blk: 702 |
| 183            | Baker Oils, Inc., O.S. Perkins #2 (oil prod)<br>TE&L Co Suv. Blk 206, Abst. 453, 150 ft FNL & 150 ft FEL   | 1209.5                          | 739               | 1/7/1935   | 1/13/1935       | Sh, blk: 205<br>Sh, blk: 365<br>Sh, blk: 380<br>Sh, blk: 730   |

| Occurrence No. | Well name / location  | Elevation (ft) | Total depth (ft) | Spud date  | Compl; PB dates | Coal and black or dark-gray shale occurrences (depth in ft)   |
|----------------|---|----------------|------------------|------------|-----------------|---|
| 184            | Baker Oils, Inc., O.S. Perkins #3 (oil prod)<br>TE&L Co. Suv. Blk 206, Abst. 453, 60 Acres, 150 ft FEL & 450 ft FNL, 350 ft S of #2   | 1209.5         | 742              | 1/14/1935  | 1/19/1935       | Sh, blk: 200<br>Sh, blk: 208<br>Sh, blk: 225<br>Sh, blk: 365<br>Sh, blk: 225<br>coal: 440<br>Sh, blk: 525<br>Sh, blk: 726 |
| 185            | Baker Oils, Inc., O.S. Perkins #6 (oil prod)<br>TE&L Co. Suv. Blk 206, 450 ft fr N & E lines  | 1208.2         | 746              | 2/18/1935  | 2/24/1935       | Sh, blk: 200<br>Sh, blk: 370<br>Sh, blk: 440  |
| 186            | Barker & Pardue, H.M. Donnell #1 (dry hole)<br>Wm. Stinnett Suv., Abst. 1754, 150 ft fr SL & EL   | 1134           | 3354             | 6/19/1930  | 8/1/1930        | Sh, blk: 332<br>Sh, blk: 591  |
| 187            | Baker Oils, Inc., O.S. Perkins #4 (oil prod)<br>TE&L Co. Suv. Blk 206, 450 ft FEL & 150 ft FNL  | 1207.1         | 741.5            | 1/28/1935  | 2/3/1935        | Sh, blk: 198<br>Sh, blk: 205<br>Sh, blk: 375<br>Sh, blk: 440<br>Sh, blk: 725  |
| 188            | Baker & Winfrey, Grigsby #1 (dry hole)<br>TE&L Co. 415, 320 Ac., 150 ft FWL & 1050 ft FNL   | 1588           | 7/14/1945        | 8/2/1945   |                 | Sh, coal: 188<br>Sh, blk: 652   |
| 189            | J.W. Baldwin, J.C. Mann, Jr., UOE Bailey, J.J. Engles #1 (dry hole), TE&L Sur. A-785, 33 acre, 330 ft fr S&W Ins of Sec 627, 0.5 mi SE fr Jean  | 3140           | 4/7/1950         | 4/15/1950  |                 | Sh, blk, hd: 2595   |
| 190            | Ball Oil & Gas Co et al., B.R. Jeske #1 (dry hole)<br>TE&L Co. Surv. Blk 239, 142 ac. tr., 450 ft FEL & 750 ft FNL  | 1101           | 10/1/1935        | 10/15/1935 |                 | Sh, blk: 590<br>Sh, blk: 1015   |
| 191            | Ben Banner, Fitch Estate #1 (dry hole)<br>TE&L Co. Suv. Sec. #40, 150 ft each way fr NE Cor. SW 1/4 Sec 40  | 663            |                  | 7/3/1931   |                 | Sh, blk: 268<br>Sh, blk: 284<br>Sh, blk: 436<br>Sh, blk: 640  |
| 192            | Ben Banner, Jeffery Estate #1 (dry hole)<br>TE&L Co. Suv. Sec. #47, 450 ft FNL & 150 ft FWL SE1/4 Sec.  | 903            | 1/14/1931        | 1/26/1931  |                 | Sh, blk: 375<br>Sh, blk: 465<br>Sh, blk: 800  |
| 193            | Ben Banner, Jeffery Estate #1 (dry hole)<br>TE&L Co. Suv. Sec. 51, 150 ft each way out of SW Cor. SE1/4 Sec 51  | 911            |                  | 2/28/1931  |                 | Sh, blk: 445<br>Sh, blk: 520<br>Sh, blk: 830  |
| 194            | Ben Banner, J.K. Jeffery #1 (dry hole)<br>TE&L Co. Suv. Sec. 48, 1000 ft FSL & 1900 ft W of E line of Sec. 48   | 875            | 10/3/1935        | 12/2/1935  |                 | Sh, blk: 447<br>Sh, blk: 855  |
| 195            | Ben Banner, J.K. Jeffery #1 (dry hole)<br>TE&L Co. Suv. Sec. 55, 933 ft N of S line & 1867 ft E of W line   | 915            | 12/20/1935       | 1/17/1936  |                 | Sh, blk: 275<br>Sh, blk: 508<br>Sh, blk: 841  |
| 196            | Ben Banner, J.K. Jeffery #1 (dry hole)<br>TE&L Co. Suv. Sec. 57, 933 ft W of E line & 466 ft N of S line  | 886            | 12/7/1935        | 12/24/1935 |                 | Sh, blk: 285<br>Sh, blk: 527<br>Sh, blk: 708<br>Sh, blk: 850  |
| 197            | Ben Banner, J.K. Perkins #1 (dry hole)<br>TE&L Co. Suv. Sec. 23, 150 ft FSL & 450 ft FWL  | 698            | 12/2/1930        | 1/9/1931   |                 | Sh, blk: 268<br>Sh, blk: 296<br>Sh, blk: 338<br>Sh, blk: 629<br>Sh, blk: 650  |
| 198            | Ben Banner, J.J. Perkins #1B (dry hole)<br>TE&L Co. Suv. Sec. 23, 150 ft FEL & 150 ft FSL N1/2 of NW1/4   | 740            | 1/7/1931         | 1/24/1931  |                 | Sh, blk: 265<br>Sh, blk: 292<br>Sh, blk: 345  |
| 199            | Ben Banner, J.J. Perkins #C-1 (dry hole)<br>TE&L Co. Suv. Sec. 23, 150 ft FEL & 1143 ft FNL   | 722            |                  | 2/17/1931  |                 | Sh, blk: 135<br>Sh, blk: 276<br>Sh, blk: 340<br>Sh, blk: 655<br>Sh, blk: 694  |
| 200            | Roy C. Barton, C.E. Speer #1 (dry hole)<br>W. Stoneman Suv. Blk 3, 40 acre tract, 150 ft fr S & E lines   | 600.5          | 7/3/1936         | 7/25/1936  |                 | coal: 92  |
| 201            | T.J. Bass & C.C. Rasmussen, E.L. Arnold #1<br>TE&L Co. Suv. Abst 1123, Sec 2445, 150 ft FNL & 1655 ft FEL of Sur., 10 mi W fr Onea<br>L. Baum & K. D. Lehmer, W.S. Husted #1 (dry hole)   | 1300           | 9/4/1954         | 9/5/1954   |                 | Sh, blk: 1250   |
| 202            | S. Harrison A-142, 450 ft FEL & 750 ft FNL  | 697            | 10/14/1930       | 10/22/1930 |                 | coal: 77  |
| 203            | The Bay Pet. Corp., J.H. Nantz #1<br>BBB & C RR Co A-29 Suv., Sec 6, 301 Acres, 2380 ft FEL of Lse & 660 ft FSL of Sur #6   | 1104           | 3100             | 10/15/1951 | 11/19/1951      | Sh, dark: 1095  |
| 204            | The Bay Pet. Corp. & B.H. Rankin, A.L. Reese #1 (dry hole); TE&L Co. Suv. A-688, Sec 461, 100 acres, 330 ft FSL & 1000 ft FEL of Isse   | 4823           | 5/15/1949        | 6/5/1949   |                 | Sh, blk: 98<br>Sh, blk: 284   |
| 205            | Bolin & Lindsay, D.L. Wolf #1 (oil prod)<br>TE&L Co. Suv. Blk 165, 30 Ac., 150 ft FNL & 150 ft FWL<br>Bolin-Lindsay-Tidwell & Hinson, G.M. James #5 (oil prod)<br>TE&L Co. Suv. Blk 457, Sec. A 664, 80 Ac., 330 ft FEL & 1050 ft FSL | 892            | 11/11/1929       | 1/25/1930  |                 | Sh, blk: 700<br>Sh, blk: 796<br>Sh, blk: 792  |
| 206            | D.H. Bolin &/or J.J. Lynn, H.C. Gilmore #1 (dry hole)<br>BBB & Cry Co. Sur. A-25, Sec. 1, 2 Acr., 1650 ft FNL & 1250 ft FWNL of Lse, 1 mi SE fr Graham  | 1160           | 2717             | 10/3/1949  | 10/20/1949      | Sh, blk: 825  |
| 207            | Bolin Oil Co. et al., R.E. Burdick et al., #1 (dry hole)<br>TE&L Co. Sur. Sec. 2714, 200 Ac., 300 ft fr NL & WL of Lse, 3 mi SE fr Loving   | 1231.4 GL      | 4008             | 5/8/1955   | 5/20/1955       | coal: 2866  |
| 208            | Bolin Oil Co., E. Taylor B #1B (dry hole)<br>J.A. Holt A-2265, 330 ft FN & El of B lse., 1 mi N fr Loving   | 1240 GL        | 2744             | 5/3/1961   | 5/11/1961       | coal: 140   |
| 209            | C.W. Boller, L.F. Gregg #10 (oil prod)<br>A. Rohus Sur., 300 ft fr #9, 300 ft fr #4   |                | 759              | 9/29/1928  | 10/11/1928      | Sh, blk: 225<br>Sh, blk: 310<br>Sh, blk: 350<br>Sh, blk: 715  |
| 210            | C.W. Boller, L.F. Gregg #11 (dry hole)<br>A. Rohus Sur., Abst. #240, 450 ft FWL & 1050 ft FNL   |                | 798              | 11/6/1928  | 11/27/1928      | Sh, blk: 236<br>Sh, blk: 370<br>Sh, blk: 720  |
| 211            | C.W. Boller, L.F. Gregg #12 (oil prod)<br>A. Rohus Sur., 300 ft fr #11 & 300 ft fr #10  |                | 757              | 12/3/1928  | 12/17/1928      | Sh, blk: 160<br>Sh, blk: 305<br>Sh, blk: 355<br>Sh, blk: 715  |
| 212            | C.W. Boller, J.G. Thomas #3 (dry hole)<br>TE&L Co. Blk 155 150 ft FSL & 150 ft FWL  | 1196.9         | 11/2/1902        | 5/28/1929  | 6/8/1929        | Sh, blk: 1008.5   |
| 213            | C.W. Boller et al., G.T. Williams #1 (dry hole)<br>TE & L Co. Survey Blk 155, 150 ft fr S & E lines   |                | 1020             | 4/26/1929  | 5/16/1929       | Sh, blk: 365<br>Sh, blk: 535  |

| Occurrence No. | Well name / location  | Elevation (ft) | Total depth (ft) | Spud date  | Compl/ PB dates  | Coal and black or dark-gray shale occurrences (depth in ft)  |
|----------------|---|----------------|------------------|------------|--|--|
| 214            | F.W. Beardman et al, J.J. Perkins #1 (dry hole)<br>TE&L #6 Suv., Abst 847, 450 ft & 150 ft W of NE Cor. 40 Ac.  | 738            | 12/20/1930       | 12/29/1930 |  | Sh, blk: 632   |
| 215            | F.W. Beardman et al, Baldwin Estate #1 (dry hole)<br>TE&L RR Suv. Sec. 20, 150 ft FNL & 450 ft FEL  | 1194           | 752              | 8/11/1930  | 8/17/1930  | coal: 256<br>Sh, blk: 706  |
| 216            | Mrs. C.E. Beavers, Barnett & Gibbs #1 (oil prod)<br>TE&L Suv. Blk 2245, 450 ft each way frm SE Corner of SW 1/4 of SW1/4 Blk 2245   | 10/16/1901     | 9/17/1935        | 9/20/1935  |  | Sh, blk: 258<br>Sh, blk: 320   |
| 217            | C.E. Beavers & Son, Barnett & Gibbs #2 (dry hole)<br>TE&L Co. Suv. Blk 2245 each way fr SE Corner of SW1/4 of Blk 2245  | 702            | 9/29/1935        | 10/3/1935  |  | coal: 119  |
| 218            | Mrs. C.E. Beavers, Barnett & Gibbs #3 (oil prod)<br>TE&L Suv. Blk 2245 450 ft FSL & 750 ft FEL of SW1/4 of Blk 2245   | 650            | 10/17/1935       | 10/21/1935 |  | coal: 409  |
| 219            | C.E. Beavers & Son, Barnett & Gibbs #4 (dry hole)<br>TE&L Co. Suv. Blk 2245 750 ft FEL & 450 ft FSL S 60 Ac. of SW1/4 of Blk 2245   | 700            | 5/14/1936        | 5/18/1936  |  | Sh, blk: 249   |
| 220            | C.E. Beavers et al., Belknap Coal Co. #9 (dry hole)<br>TE&L Co. Suv. Blk 22 40 Acres, 490 ft FWL & 590 ft FNL, 8 mi S fr Olney  | 715            | 8/16/1934        | 8/27/1934  |  | Sh, blk: 260<br>Sh, sdy, blk: 708  |
| 221            | C.E. Beavers et al., Belknap Coal Co. #10 (dry hole)<br>TE&L Co. Suv. Blk 22 80 Acres, 150 ft each way fr S & E lines of 40 Ac. of S 80 Ac. Blk 22FWL & 590 ft FNL, 8 mi S fr Olney | 742            | 8/3/1931         | 8/27/1931  |  | coal: 150<br>Sh, blk: 268<br>Sh, blk: 702  |
| 222            | C.E. Beavers et al., Couper & Siebold #2 (dry hole)<br>TE&L Co. Suv. Blk 81, 750 ft FEL & 1417 ft FSL S 100 Ac. Of 120 Ac. Blk 81   | 1212           | 11/30/1937       | 12/28/1937 |  | sand, coal: 1169   |
| 223            | C.E. Beavers et al., Couper & Siebold #3 (dry hole)<br>TE&L Co. Suv. Blk 81, 450 ft FEL & 1717 ft FNL   | 1196           | 2/8/1938         | 3/6/1938   |  | Sh, blk: 755<br>Sh, blk: 1148  |
| 224            | C.E. Beavers et al., N. Finch #1 (dry hole)<br>TE&L Co. Suv. Blk 33, 150 ft FEL & 450 ft FNL  | 752            | 2/24/1931        | 3/4/1931   |  | coal: 370<br>Sh, blk: 717  |
| 225            | C.E. Beavers et al., I. Gathright #1 (dry hole)<br>TE&L Co. Suv. Blk 1801, 450 ft FNL & 750 ft FEL, 40 Ac.  | 878            | 11/25/1936       | 12/1/1936  |  | Sh, blk: 400<br>Sh, blk: 480<br>Sh, blk: 579   |
| 226            | C.E. Beavers et al., Logan #2 (oil prod)<br>TE&L Co. Suv. Blk 2251, 150 ft FNL & 450 ft FWL of Blk 2251   | 573            | 5/30/1934        | 6/9/1934   |  | Sh, blk: 65<br>Sh, blk: 262  |
| 227            | C.E. Beavers, M.T. Montgomery #1 (dry hole)<br>TE&L Suv. Blk 3401, 150 ft FEL & 870 ft FSL, 72 Ac.  | 763            | 4/26/1932        | 5/1/1932   |  | Sh, blk: 315<br>Sh, blk: 375<br>Sh, blk: 700   |
| 228            | C.E. Beavers et al., S. J. Rux #1 (dry hole)<br>TE&L Co. Suv. Blk #278, 783 ft FNL & 150 ft FEL N 45 Ac. Of E 60 Ac. SE 80  | 515            | 11/4/1931        | 11/7/1931  |  | coal: 150<br>Sh, blk: 170  |
| 229            | C.E. Beavers, G.P. Stewart #1 (dry hole)<br>TE&L Suv. Blk 1492, 450 ft FNL & 150 ft FWL. 65 Ac.   | 923            | 12/18/1935       | 12/29/1935 |  | Sh, blk: 406<br>Sh, blk: 485   |
| 230            | C.E. Beavers & E.C. Reed, M.T.D. Montgomery #1A (oil prod)<br>TE&L Co. Suv. Blk 3401, 150 ft each way fr SW Corner, Blk 3401  | 709            | 6/2/1933         | 6/7/1933   |  | Sh, blk: 148<br>Sh, blk: 297<br>Sh, blk: 325<br>Sh, blk: 353<br>Sh, blk: 385<br>Sh, blk: 476<br>Ist, Sh, blk: 700<br>Ist, Sh, blk: 703.5 |
| 231            | Beavers, White & Duncan, Remington-Belknap #1 (oil prod)<br>TE&L Suv. Blk 2248, 150 ft FNL & 750 ft FEL   | 572            | 1/18/1934        | 1/29/1934  |  | Sh, blk: 65<br>Sh, blk: 230<br>Sh, blk: 270  |
| 232            | Beavers, White & Duncan, Remington-Belknap #2 (oil prod)<br>TE&L Suv. Blk 2248, 150 ft FNL & 1050 ft FEL  | 582            | 2/14/1934        | 2/24/1934  |  | Sh, blk: 238<br>Sh, blk: 274<br>Sh, blk: 305   |
| 233            | Beavers, White & Duncan, Remington-Belknap #3 (oil prod)<br>TE&L Suv. Blk 2248, 1050 ft FEL & 150 ft FSL  | 594            | 3/5/1934         | 3/13/1934  |  | Sh, blk: 80<br>Sh, blk: 245<br>Sh, blk: 270<br>Sh, blk: 310  |
| 234            | Beavers, White & Duncan, Remington-Belknap #5 (dry hole)<br>TE&L Suv. Blk 2248, 150 ft FEL & 150 ft FSL s 1/2   | 600            | 3/19/1934        | 4/6/1934   |  | Sh, blk: 255<br>Sh, blk: 283   |
| 235            | Beavers, White & Duncan, Remington-Belknap #7 (oil prod)<br>TE&L Suv. Blk 2248 150 ft FSL & 450 ft FWL  | 579            | 7/5/1934         | 7/11/1934  |  | Sh, blk: 229<br>Sh, blk: 235<br>Sh, blk: 260<br>Sh, blk: 303   |
| 236            | Beavers, White & Duncan, Remington-Belknap #6 (oil prod)<br>TE&L Suv. Blk 2248 150 ft FSL & 150 ft FWL  | 585            | 6/20/1934        | 7/4/1934   |  | Sh, blk: 225<br>Sh, blk: 240<br>Sh, blk: 265<br>Sh, blk: 311<br>Sh, blk: 322<br>Sh, blk: 345   |
| 237            | Beavers, White & Duncan, Remington-Belknap #8 (oil prod)<br>TE&L Suv. Blk 2248 150 ft FNL & 150 ft FEL N1/2 of Sec.   | 608            | 7/2/1934         | 7/17/1934  |  | Sh, blk: 125<br>Sh, blk: 251   |
| 238            | A.D Beck, Garvey #6 (oil prod)<br>TE&L Suv. Blk 1859, 150 ft FWL & 848 ft FNL   | 1125.5         | 745              | 11/20/1961 | 11/25/1961   | Sh, blk: 736   |
| 239            | Belford Oil Co., V. Holcomb #B-1 (oil prod)<br>T&NOR Co. Suv. Abst. 1244, 330 ft FWL & 450 ft FSL   | 1199           | 3847             | 7/3/1943   | 7/23/1943  | sh, coal: 2500   |
| 240            | Belknap Coal Co., Belknap Coal Co #1 (oil prod)<br>TE&L Suv. Sec. #2, 172 ft N & 1316 ft E of SW Cor.   | 1177           | 705              | 11/1/1930  | 11/8/1930  | Sh, blk: 265   |
| 241            | Belknap Oil Co., Belknap Coal Co. #10 (oil prod)<br>TE&L Suv. Sec. 22, 1916 ft E & 150 ft N fr SW Cor. Lse.   | 1189           | 716              | 10/14/1931 | 10/25/1931   | coal: 118<br>Sh, blk: 280  |
| 242            | Calude Bell, C.P. Stewart #1 (dry hole)   | 1113           | 540              | 6/6/1933   | 7/12/1933  | coal: 93<br>Sh, blk: 40<br>Sh, blk: 96<br>Sh, blk: 490   |
| 243            | Bennett & Bennett, R.B. Allison #1 (dry hole)<br>TE&L Co. Suv. Blk 266, Abs. 513, 750 ft E & 1200 ft N of SW Cor. of Suv. #266  | 813            | 8/1/1945         | 8/3/1945   | Sh strks, coal: 450<br>Sh, blk: 413<br>Sh, blk: 422                    |  |
|                |   |                |                  |            | Sh, sdy, coal strk: 608<br>Sh, coal strk: 660<br>Sh, blk: 793          |  |
| 244            | Bennett & Bennett, W.W. Bailey #1 (dry hole)<br>TE&L Co. Suv. Blk 60, 80 Ac, 450 ft N & 450 ft W of SE Cor. Of w1/2 of TE&L Co. Suv. 60, 1/2 mi W fr Orth                           | 870            | 9/18/1945        | 9/23/1945  | Sh, blk, coal: 373<br>coal: 473<br>Sh, coal strks: 672<br>Sh, blk: 856 |  |
| 245            | Bennett & Bennett, H. Nennig #1 (dry hole)<br>TE&L Co. Suv. Blk 65, 80 Ac, 1050 ft FEL & 1716 ft FNL of Suv. 65, S 80 of N 120 ac. E1/Suv. #65, 7 mi SW fr Orth                     | 1105           | 7/23/1945        | 7/25/1945  | Sh, coal strks: 456<br>Sh, coal strks: 596                             |  |
| 246            | Bennett & Bennett, J.K. Jeffery #1 (dry hole)<br>TE&L Co. Suv., Blk 52, A-328, 40 Ac., 575 ft S & 1250 ft E of NW Cor. Suv. #52, 1.25 mi SW fr Orth                                 | 879            | 8/4/1945         | 8/8/1945   | Sh, coal strks: 293<br>S, hd, coal: 475<br>Sh, coal: 530               |  |
| 247            | Bennett & Bennett, H.L. Whitehead #2 (dry hole)<br>TE&L Co. Suv. Blk. 166, 80 Ac., 450 ft N & 2040 ft W of SE Cor. Of Suv. 166, 1.75 mi NW fr Orth                                  | 890            | 10/16/1945       | 10/19/1945 | coal: 469<br>Sh, coal strks: 816                                       |  |
| 248            | Benson Estate, S.M.J. Benson Estate #1 (dry hole)<br>TE&L Co. Suv. Blk 1391, 40.31 Ac., 150 ft fr N & W lines   | 965            | 11/5/1936        | 11/10/1936 | Sh, blk: 425<br>Sh, blk: 510<br>Sh, blk: 862                           |  |

| Occurrence No. | Well name / location  | Elevation (ft) | Total depth (ft) | Spud date  | Compl/ PB dates | Coal and black or dark-gray shale occurrences (depth in ft)   |
|----------------|---|----------------|------------------|------------|-----------------|---|
| 249            | Benson Bros., J.K. Jeffery #1 (dry hole)<br>TE&L Co. Suv., Blk 52, 150 ft FSL & W lines, 40 Ac.   | 918            | 3/14/1930        | 4/7/1930   |                 | Sh, blk: 412<br>Sh, blk: 489  |
| 250            | Benson Bros., B.W. King #1 (dry hole)<br>TE&L Co. Suv. Sec. 631, 160 Ac., 150 ft FVL & 1320 ft FSL, 2 mi SE fr Jean   | 554            | 7/26/1947        | 7/30/1947  |                 | coal: 123   |
| 251            | Benson Bros., G. McCluer #1 (dry hole)<br>TE&L Co. Suv. Sec. 1947, 265 Ac., 1368 ft fr S & W lines, 2 mi SW fr Loving   | 551            | 7/16/1947        | 7/23/1947  |                 | Sh, blk: 510  |
| 252            | Benson Bros., G.D. Lebermann & Wife #1 (dry hole)<br>TE&L Suv. 271, 450 ft E & 150 ft S of NW Corner 74.2 Ac. Tr.   | 703            | 5/20/1930        | 5/29/1930  |                 | Sh, blk: 203<br>Sh, blk: 337  |
| 253            | Calvin Benson et al., E.R. Prideaux #1 (oil prod)<br>CTR Co. #1 Sur., 300 ft FNL & 155 ft FEL of Lse., 120 Ac.  | 617            | 5/15/1955        | 7/8/1955   |                 | coal: 117<br>Sh, blk: 555<br>Sh, blk: 590   |
| 254            | B.A. Benton, N. Prideaux #1 (dry hole)<br>I&GN Ry Suv., Abst. 1324, 150 ft FSL & 150 ft FVL, 16.5 Ac.   | -1059          | 1/9/1902         | 3/10/1930  | 4/13/1930       | Sh, blk: 130<br>Sh, blk: 304<br>Sh, blk: 670  |
| 255            | W.E. Bernhard, L.L. Anderson Est. #1 (dry hole)<br>TE&L Co. Suv. 269, 35.35 Ac., 150 ft FVL & 200 ft FSL  | 507            | 10/4/1936        | 10/18/1936 |                 | coal: 100<br>Sh, blkSh, blk: 193<br>Lst, Sh, blkSh, blk: 406  |
| 256            | Belknap Coal Co., Belknap Coal Co. #2 (oil prod)<br>TE&L Suv., Sec. 22, 174 ft N & 1016 ft E fr SW Cor. Lse.  | 1175.7         | 701.8            | 11/11/1930 | 11/22/1930      | Sh, blk: 650<br>Sh, blkSh, blk: 690   |
| 257            | Belknap Coal Co., Belknap Coal Co. #3 (oil prod)<br>TE&L Suv., Sec. 22, 159 ft S & 1420 ft E fr SW Cor.   | 1174           | 671.5            | 11/16/1930 | 11/26/1930      | Sh, blk: 93<br>coal: 327  |
| 258            | Belknap Coal Co., Belknap Coal Co. #4 (oil prod)<br>TE&L Suv., Sec. 22, 150 ft S & 1720 ft E fr NW Cor. of Lse.   | 1184           | 669              | 12/2/1930  | 12/10/1930      | coal: 75<br>coal: 287   |
| 259            | Belknap Coal Co., Belknap Coal Co. #5 (oil prod)<br>TE&L Co. Suv., 388 ft N & 47 ft E out of SW Cor. of Lse.  | 1174           | 665              | 12/18/1930 | 12/27/1930      | Sh, blk: 268<br>Sh, blk: 310<br>Sh, blk: 504  |
| 260            | Belknap Coal Co., Belknap Coal Co. #6 (dry hole)<br>TE&L Co. Suv., Sec. 22, 150 ft N fr N & W lines   | 1165           | 706              | 12/14/1930 | 12/20/1930      | coal: 125<br>Sh, blk: 273<br>coal: 315  |
| 261            | Belknap Coal Co., Belknap Coal Co. #7 (oil prod)<br>TE&L Suv., Sec. 22, 1316 ft E & 472 ft N out of SW Corner, 53.8 Ac.   | 707.5          | 9/9/1931         | 9/18/1931  |                 | Sh, blk: 100<br>Sh, blk: 253<br>Sh, blk: 288<br>coal: 330   |
| 262            | Belknap Coal Co., Belknap Coal Co. #8 (oil prod)<br>TE&L Suv., Sec. 22, 1616 ft E & 150 ft N fr SW Corner of Lse.   | 1182           | 701              | 9/24/1931  | 10/4/1931       | Sh, blk: 275<br>coal: 334<br>Sh, blk: 427   |
| 263            | Belknap Coal Co., Belknap Coal Co. #9 (oil prod)<br>TE&L Suv., Sec. 22, 150 ft S & 2027 ft E out of NW Corner of Lse.<br>W.E. Bernhard, Belknap Coal Co. #18 (dry hole) | 1183           | 709.5            | 10/6/1931  | 10/18/1931      | Sh, blk: 322  |
|                | TE&L Co. #8, N 40 Ac of NE 1/4, 445 ft FNL & 907.7 ft FEL, 445 ft FSL   | 1138           | 516              | 4/12/1931  | 4/18/1931       | coal: 115   |
| 264            | W.E. Bernhard, Belknap Coal Co. #C-1 (dry hole)<br>TE&L Co. #10, 466.6 ft FSL & 933.3 ft FEL  | 1165.5         | 527.5            | 4/22/1931  | 4/27/1931       | Sh, blk: 82<br>coal: 120<br>Sh, blk: 434  |
| 265            | W.E. Bernhard, Belknap Coal Co. #1-D (dry hole)<br>TE&L Co. Suv 11, 40 Acres, 150 ft FNL & 660 ft FVL   | 525            | 11/28/1934       | 12/8/1934  |                 | Sh, blk: 92<br>coal: 104<br>Sh, blk: 132<br>Sh, blk: 442  |
| 266            | W.E. Bernhard, W.E. Bernhard #1 (dry hole)<br>TE&L Co. Suv #8, 1059 ft FNL & 466.3 ft fr E & W lines  | 1125           | 700              | 2/25/1931  | 3/11/1931       | coal: 95<br>coal: 115<br>Sh, blk: 642   |
| 267            | W.E. Bernhard, Morrison Estate #1 (dry hole)<br>TE&L Co. Suv Sec. 646, 320 Acres, 1460 ft FEL & 1930 ft FSL   | 1160           | 508              | 1/26/1932  | 2/1/1932        |   |
| 268            | Bernsen & O'Rourke, M. Harlan #6 (oil prod)<br>TE&L Co. Suv. Blk 1972, Abs. 1046, 1850 ft FSL & 330 ft FEL of Suv. # 1972   | 1205           | 3066             | 9/10/1946  | 10/29/1946      | Sh, dark gy: 1545<br>Sh, dark gy: 1690<br>Sh, dark gy: 1735<br>Sh, dark gy: 1870<br>Sh, dark gy: 2000 |
| 269            | Biggerstaff & Gordon, L.D. Box #2 (dry hole)<br>TE&L Suv., 119.62 Ac, 300 ft FEL, 300 ft NW of #1, 120 ac., Blk 1911, 2 mi NE fr Jean                                   | 595            | 8/18/1951        | 9/13/1951  |                 | coal: 189<br>coal: 250<br>Sh, blk: 541  |
| 270            | P. Bilewry & W. Albritton, D. Johnson #1 (dry hole)<br>TE&L Co. Abst #301 Sur Blk 25, 160 ac., 800 ft FWL & 1400 ft FSL of Lse., 2 mi SW fr Orth                        | 719            | 7/10/1953        | 7/25/1953  |                 | coal: 318<br>coal: 354<br>coal: 385   |
| 271            | P. Bilewry & W. Albritton, Shanafelt #1 (dry hole)<br>A. Clingsburg Abst 1721, 160 Ac., 150 ft fr S & E lines of W/2 of Lse., 3.5 mi NE fr Loving                       | 803            | 11/30/1951       | 12/3/1951  |                 | coal: 75<br>coal: 592   |
| 272            | A.B. Bissey et al., Barnett & Gibbs #1 (dry hole)<br>TE&L Co. Suv., Blk 2245, 150 ft FNL & 1866 ft FVL  | 770            | 3/11/1931        | 3/24/1931  |                 | Sh, blk: 275<br>Sh, blk: 720  |
| 273            | A.B. Bissey, J.A. Cunningham #1 (dry hole)<br>TE&L Suv., Blk 1912, Abst.#986, 1100 ft FNL & 750 ft FEL, 100 acres.  | 600            | 9/27/1937        | 10/2/1937  |                 | coal: 125   |
| 274            | A.B. Bissey et al., Terrel Est. #1 (dry hole)<br>TE&L Co. Suv., Blk 248, Abs. 495, 150 ft FNL & 1050 ft FWL of 50 ac tr.  | 1155           | 900              | 8/12/1931  | 8/22/1931       | Sh, blk: 320<br>Sh, blk: 523<br>Sh, blk: 696<br>Sh, blk: 674  |
| 275            | Black Gold Petroleum Co., J.M. Kirkland #1 (dry hole)<br>TE&L Co. Blk 2250, 150 ft FNL & 450 ft FEL   | 750            | 10/25/1934       | 11/3/1934  |                 | Sh, blk: 40<br>Sh, blk: 215<br>Sh, blk: 255<br>Sh, blk: 325<br>Sh, blk: 658                           |
| 276            | M.W. Blair, M.G. Chaney Est. #1 (dry hole)<br>W.M. Goode Abs 1317, 160 Ac, 3 1/4 mi E of Graham   | 2209           | 4/8/1960         | 4/15/1960  |                 | Sh, blk: 1786   |
| 277            | M.W. Blair, D. Garrett #3 (dry hole)<br>TE&L Co. Suv. Blk 1487, 132.5 Ac., 330 ft fr N&E lines of Lse, 4 mi NW fr Loving  | 3550           | 6/6/1953         | 6/17/1953  |                 | coal: 140   |
| 278            | M.W. Blair, C. Head #1 (dry hole)<br>TE&L #305, 40 Ac., Sec. 552, 150 ft FNL & 783 ft FWL of Lse, 1.5 mi E fr Spring Creek  | 1257           | 12/9/1947        | 12/11/1947 |                 | Sh, blk: 826<br>Sh, blk: 1194   |
| 279            | M.W. Blair, G.H. Roach #1 (dry hole)<br>TE&L Suv., Abst. #551, Blk 304, 20 Ac., 150 ft FEL & 466 ft FSL of Lse, 1.5 mi E fr Spring Creek                                | 1241           | 11/30/1947       | 12/3/1947  |                 | Sh, blk: 1223   |
| 280            | M.W. Blair, H. Shanafelt #1 (dry hole)<br>BBB&C, W.H. Price Surv., Blk 2, Sec 2173, 320 Acres, 150 ft FWL & 2490 ft FNL of Lse, 3 mi SW fr Loving                       | 575            | 12/3/1951        | 12/9/1951  |                 | coal: 167   |
| 281            | M.W. Blair, W.B. Todd #7 (oil prod)<br>L.E. Hardin Survey Sec. 1682, 97 ac., 1030 ft FSL & 1060 ft FEL  | 3565           | 11/28/1956       | 12/7/1956  |                 | S, lignite strks: 469<br>lignite; Sh, 598   |
| 282            | Bledsoe & Watson, A.C. Watson #1 (dry hole)<br>TE&L Survey, Suv. 250, 40 Ac., 150 ft FSL & 1150 ft FEL  | 1140           | 674              | 6/1/1934   | 6/10/1934       | Sh, blk: 60<br>coal: 190<br>Sh, blk: 267  |
| 283            | Bluebonnet Oil Corp., W.W. Reid #1 (dry hole)<br>TE&L Suv. Sec. 743, 120 acres, 475 ft FNL & 1263 ft FWL, 3 mi S of Proffitt  | 3827           | 7/9/1956         | 8/31/1956  |                 | S, coal: 290  |
| 284            | W.F. Bookhoff, Trustee, C.C. Burton #1 (dry hole)<br>TE&L Co. Sur. A-460, Sec 213, 80 Ac., 750 ft FEL & 1200 ft FNL of Blk 213, 4 mi SE fr Olney                        | 940            | 10/22/1952       | 10/23/1952 |                 | coal: 864   |
| 285            | W.H. Bookhoff et al., E. Jaster #1 (oil prod)<br>J. Holman Suv. Blk 130, 80 Ac., 150 ft FSL & 450 ft FWL of Lse   | 1231           | 9/16/1947        | 10/14/1947 |                 | Sh, blk: 1201<br>Sh, blk: 1219  |
| 286            | W.F. Bookhoff, Trustee, I.G. Roach #2 (dry hole)<br>TE&L Co. Sur. Sec 196, 80 ac., 450 ft FNL & 150 ft FEL of Lse, 5 mi SW Olney  | 1079           | 1/28/1953        | 1/29/1953  |                 | Sh, blk: 1011   |
| 287            | W.F. Bookhoff, Trustee, T.J. Routh #1 (dry hole)<br>TE&L Suv. Blk 181, Sec A-428, 80 Ac., 750 ft FNL & 750 ft FWL of Blk 181, 4 mi SW fr Olney                          | 950            | -9/1/1952        |            |                 | Sh, blk: 889  |
| 288            | Bohner Oil Co., Gilmore #1 (dry hole)<br>YCSL sec 14 Blk A 1484, 40 ac, 150 ft FWL & 1050 ft FSL of sec 14, 0.5mi W Markley   | 590            | 3/7/1961         | 3/10/1961  |                 | coal: 93<br>coal: 175   |
| 289            | C.J. Bohner, Logan #1 (dry hole)<br>Young Co. Sch. Land Suv., 150 ft FWL & 1000 ft FSL, W 80 Acres  | 590            | 10/27/1938       | 11/2/1938  |                 | Sh, blk: 105<br>Sh, blk: 510  |

| Occurrence No. | Well name / location  | Elevation (ft) | Total depth (ft) | Spud date  | Compl/PB dates | Coal and black or dark-gray shale occurrences (depth in ft)                 |  |
|----------------|---|----------------|------------------|------------|----------------|---|--|
| 290            | J.C. Bohner, E.R. Pridaux #1 (dry hole)<br>Sylvia Tyres Suv. Abs. 274, 750 ft FSL & 450 ft FWL, 4 mi NE Loving, TX  | 648            | 2/5/1938         | 2/14/1938  |                | Sh, blk: 30<br>Sh, blk: 76<br>coal: 137<br>S, blk: 478                      |  |
| 291            | C.J. Bohner, Pridaux #1 (dry hole)<br>S. Tyres Suv., 40 Acres, 150 ft fr S & W lines  | 511            | 3/4/1941         | 3/10/1941  |                | coal: 76<br>Sh, blk: 473  |  |
| 292            | C.J. Bohner-B.C. Gilmore, Pridaux Bros. #1 (dry hole)<br>W. Stoneman Suv. 80 Acres, 1170 N of SL & 1170 ft E of WL, A-250   | 579            | 9/15/1936        | 9/21/1936  |                | Sh, blk: 78   |  |
| 293            | Bohner & Watson, Pridaux #1 (oil prod)<br>Abst. #68, 40 Acre Tr., 150 ft FNL & 150 ft FEL   | 511            | 4/15/1939        | 4/21/1939  |                | Sh, blk: 98<br>Sh, blk: 480   |  |
| 294            | Bohner & Watson, Pridaux Bros. #5 (oil prod) (Markley fld)<br>YCSC Suv. Abst 1284, Blk 16, 43 Ac., 300 ft fr #3 & #4  | 517            | 8/28/1936        | 9/1/1936   |                | Sh, blk: 32<br>Sh, blk: 73<br>Sh, blk: 138<br>Sh, blk: 475                  |  |
| 295            | Bohner & Watson, Pridaux #10 (oil prod)<br>YSC Lds Suv., 123.5 Ac. Tr., 300 ft NE of well #7  | 525            | 5/23/1940        | 5/26/1940  |                | Sh, blk: 487  |  |
| 296            | Bohner & Watson, Pridaux #11 (oil prod)<br>YSC Lds Suv., Blk 16, 150 ft FEL, 300 ft E of well #6  | 535            | 6/15/1940        | 6/21/1940  |                | Sh, blk: 497  |  |
| 297            | Bohner & Watson, Pridaux #12 (oil prod)(Markley fld)<br>YSC Lds Suv., Blk 16, 123.5 Ac., 264 ft FEL & approx. 250 ft FNL  | 575            | 9/23/1940        | 10/2/1940  |                | coal: 123<br>Sh, blk: 517   |  |
| 298            | Bohner & Watson, Pridaux #13 (used as "key well") (Markley Young Co fld)<br>YSC Lds Suv., Blk 16, 300 ft FEL, 300 ft N of #12   | 597            | 10/8/1940        | 10/14/1940 |                | coal: 131   |  |
| 299            | Bohner & Watson, Pridaux #14 (Young County -Markley- fld)<br>YSC Lds Suv., Blk 16, 300 ft FEL, 300 ft SW of well #12  | 579            | 10/20/1940       | 11/2/1940  |                | coal: 119   |  |
| 300            | C.J. Bohner Oil Corp., Pridaux #4-A (dry hole) (Young County fld)<br>S. Tyres Suv., 150 ft FSL, 300 ft E of #3-A  | 497            | 11/10/1940       | 11/20/1940 |                | coal: 58  |  |
| 301            | Bohner & Watson, Pridaux #15 (dry hole) (Young County -Markley- fld)<br>Young County School Ld. Survey, Blk 16, Abt. 1284, 150 ft fr S & E lines  | 594            | 5/18/1941        | 5/26/1941  |                | coal: 119   |  |
| 302            | Bonell Oil co., J.W. Jones #1 (oil prod)<br>Susan Sallie Suv. Abst. 252, 40 Acre Tr., 150 ft FSL & 450 ft FWL,<br>4.5 mi SW fr Markley  | 518            | 11/12/1934       | 12/3/1934  |                | coal: 110<br>Sh, blk: 509<br>Sh, blk: 512                                   |  |
| 303            | Bonell Oil co., R.E. Jones #1 (dry hole)<br>S.Sallie Suv. A-252, 150 ft FSL & 450 ft FWL NW 1/4 40 Acres  | 1172.3         | 565              | 12/16/1934 | 12/23/1934     |   | coal: 117<br>Sh, blk: 509  |
| 304            | The Bonner Company, J.W. Davis #4 (dry hole)<br>TE&L Co. Suv. #1395   | 900            | 10/3/1929        | 10/22/1929 |                | Sh, blk: 395<br>Sh, blk: 449<br>Sh, blk: 463                                |  |
| 305            | The Bonner Company, J.W. Davis #5 (dry hole)<br>TE&L Co. Suv., 637 ft FSL, 300 ft E #1  | 930            | 10/26/1929       | 12/7/1929  |                | Sh, blk: 421<br>Sh, blk: 426<br>Sh, blk: 510<br>Sh, blk: 837<br>coal: 910   |  |
| 306            | The Bonner Company, J.W. Davis #6 (oil prod)<br>TE&L Company Suv., 800 ft fr #7 & 150 ft FSL  | 1193           | 908              | 12/28/1929 | 3/3/1930       |   | Sh, blk: 424<br>Sh, blk: 501<br>Sh, blk: 830   |
| 307            | The Bonner Company, J.W. Davis #9 (oil prod)<br>TE&L Co. Suv., 300 ft NE of #3  | 896            | 5/2/1930         | 5/26/1930  |                | Sh, blk: 425<br>Sh, blk: 822  |  |
| 308            | Boyd & Kimberlin, A.C. McDonald Est. #3 (dry hole) (Pridaux fld)<br>CTRR Suv., Abst. 68, 80 Ac., 300 ft FEL & 750 ft FSL, 2.5 mi W fr Markley   | 620            | 8/8/1940         | 8/26/1940  |                | coal: 111<br>Sh, blk: 547<br>Sh, blk: 573                                   |  |
| 309            | Boyton-Butler-Calhoun, S. J. Benson Estate #1 (dry hole)<br>TE&L Suv., Blk 1398, 40 ft W of L line & 150 ft N of S line   | 1002           | 11/29/1936       | 12/10/1936 |                | Sh, blk: 542<br>Sh, blk: 560<br>Sh, blk: 901                                |  |
| 310            | E.P. Bowen, F. Clarke #1 (dry hole)<br>TE&L Suv., Sec. 212, 150 ft FNL & 450 ft FWL, W 100 of N 147 Ac.   | 1180           | 950              | 3/19/1932  | 4/2/1932       |   | Sh, blk: 260<br>Sh, blk: 428<br>Sh, blk: 869   |
| 311            | M.M. Bradley, L.F. Gragg #1 (dry hole) (Pridaux District)<br>A.Rohys Suv. Blk 240, 150 Ac., 975 ft FNL & 1251 ft FWL, 1.5 mi NE fr Farmer   | 808            | 2/14/1940        | 2/25/1940  |                | Sh, blk: 95<br>Sh, blk: 250<br>Sh, blk: 266<br>Sh, blk: 334<br>Sh, blk: 705 |  |
| 312            | E. Bradshaw, A.C. Sper #1 (dry hole)<br>Wm. Stoneham Suv. Abst. #250, 40 Acres, 150 ft FSL & 150 ft FWL   | 558            |                  |            |                | Sh, blk: 67<br>Sh, blk: 526   |  |
| 313            | The L.G. Bradstreet Co., Matthews #1-B (dry hole)<br>A. Rimy Survey, 450 ft WL & 150 ft SL  | 724            | 6/19/1929        | 6/25/1929  |                | Sh, blk: 280<br>Sh, blk: 699  |  |
| 314            | The L.G. Bradstreet Co., LT. Richardson #1-A (oil prod)<br>J.G. Maupin Survey   | 1175           | 694?             | 5/2/1929   | 5/10/1929      |   | Sh, blk: 220<br>Sh, blk: 250<br>coal: 258<br>Sh, blk: 478<br>Sh, blk: 681                |
| 315            | The L.G. Bradstreet Co., LT. Richardson #2-A (dry hole)<br>J.G. Maupin Survey   | 1154           | 790              | 7/30/1929  | 8/14/1929      |   | Sh, blk: 275<br>Sh, blk: 360<br>Sh, blk: 687<br>Sh, blk: 767                             |
| 316            | The L.G. Bradstreet Co., LT. Richardson #2-B (dry hole)<br>J.G. Maupin Survey   | 730            | 6/9/1929         | 6/16/1929  |                | Sh, blk: 330  |  |
| 317            | The L.G. Bradstreet Co., LT. Richardson #3-B (dry hole)<br>J.G. Maupin Survey, 150 ft NL & 150 ft WL  | 805            | 7/7/1929         | 7/16/1929  |                | Sh, blk: 258<br>Sh, blk: 270<br>Sh, blk: 344<br>Sh, blk: 697                |  |
| 318            | The L.G. Bradstreet Co., L.A. Snider #1 (oil prod)<br>R. Wilson Survey, 510 ft FWL & 450 ft FNL<br>The L.G. Bradstreet Co., L.A. Snider Estate #2 (oil prod)<br>R. Wilson Survey, 510 ft FWL & 750 ft FNL | 1014           | 564.50           | 1/12/1929  | 1/20/1929      |   | Sh, blk: 116<br>Sh, blk: 526<br>Sh, blk: 536<br>coal: 572                                |
| 319            | The L.G. Bradstreet Co., L.A. Snider "A" Lease #4 (oil prod)<br>R. Wilson Survey, 510 ft FNL & 150 ft FWL   | 1015           | 574              | 2/26/1929  | 3/4/1929       |   | Sh, blk: 126<br>coal: 191<br>Sh, blk: 515  |
| 320            | The L.G. Bradstreet Co., L.A. Snider Estate #6 (oil prod)<br>R. Wilson Survey, 150 ft FEL & 150 ft FNL  | 1013           | 566              | 3/2/1929   | 3/9/1929       |   | Sh, blk: 518   |
| 321            | C.H. Bradenburg, F.M. Cullen #8 (dry hole)<br>G.N. Stinnett Suv., 300 ft S of #4 & 250 ft West. 40 Acre Tract, Abst 2177  | 580            | 4/23/1935        | 4/27/1935  |                | Sh, blk: 528<br>Sh, blk: 560  |  |
| 322            | E.S. Braxhear, S.F. Jeffrey #1 (oil prod) (WC)<br>TE&L Co. Sur. Blk 51, 450 ft FNL & 150 ft FWL of Lse., 79.5 acres   | 1255           | 863              | 1/25/1950  | 2/22/1950      |   | Sh, blk: coal strks: 472<br>Sh, blk: 489<br>Sh, blk: 519<br>Sh, blk: 641<br>Sh, blk: 699 |

| Occurrence No. | Well name / location  | Elevation (ft) | Total depth (ft) | Spud date  | Compl/ PB dates | Coal and black or dark-gray shale occurrences (depth in ft)  |  |
|----------------|---|----------------|------------------|------------|-----------------|--|--|
| 323            | E.S. Brashear, S.R. Jeffery #C-2 (dry hole) (WC)<br>TE&L Co., Blk 51, 160 Acres, 600 ft FSL & 450 ft FEL of Lse, 0.75 mi S fr Orth  | 860            | 1/30/1954        | 2/1/1954   |                 | coal: 390<br>Sh, coal: 415<br>coal, Sh, sdy: 525   |  |
| 324            | E.S. Brashear, D. Johnson #1 (dry hole) (WC)<br>TE&L Suv. Blk 25, 23 Ac., 150 ft fr N & E lines, 2 mi S fr Orth   | 785            | 12/8/1940        | 1/16/1941  |                 | Sh, blk: 175<br>Sh, blk: 200<br>Sh, blk: 247<br>Sh, blk: 407<br>Sh, blk: 708<br>Sh, blk: 724<br>Sh, blk: 785 |  |
| 325            | E.S. Brashear et al., D. Johnson #1 (dry hole) (WC)<br>TE&L Co. Abst 301 Surv, Blk 25, 160 ac., 150 ft FEL & 1850 ft FSL  | 757            | 8/1/1953         | 8/4/1953   |                 | coal: 380<br>coal: 423   |  |
| 326            | P.C. Brashear, A.C. Casey #1 (dry hole) (NW Loving fld)<br>TE&L Co. Suv., Sec 1905, 40 acres, 150 ft FEL & 300 ft FSL   | 640            | 12/12/1935       | 12/17/1935 |                 | Sh, blk: 300<br>Sh, blk: 352<br>Sh, blk: 602   |  |
| 327            | P.C. Brashear, S.R. Jeffery #1 (dry hole) (WC)<br>TE&L Co. Suv., Blk 50, 150 ft FEL & 2800 ft FNL of 50 Ac Tract, 2mi SW fr Orth  | 1200           | 800              | 5/15/1940  | 5/28/1940       | Sh, blk: 235<br>Sh, blk: 367<br>Sh, blk: 435   |  |
| 328            | E.S. Brashear et al., S.R. Jeffery #2 (dry hole) (WC)<br>TE&L Co. Suv., Blk 51, 80 acres, 300 ft FNL & 450 ft FWL of NE/4, 0.5 mi W fr Orth   | 1255           | 920              | 2/26/1950  | 3/7/1940        | coal, Sh, blk: 525<br>Sh, blk: 655   |  |
| 329            | P.C. Brashear, Jeffery #1 (dry hole) (WC)<br>TE&L Co. Suv., Blk 50, 30 Acres, 150 ft fr N & E lines, 2mi S fr Orth  | 1180           | 826              | 3/4/1940   | 3/13/1940       | Sh, blk: 375<br>Sh, blk: 414   |  |
| 330            | P.C. Brashear et al., Finch #1 (dry hole) (Young fld)<br>TE&L Co. Suv. #38, Blk A-314, 80 acres, 300 ft FSL & 850 ft FWL of NE/4, 4mi SW fr Orth  | 1200           | 745              | 10/21/1949 | 10/26/1949      | lignite: 403<br>lignite: 426   |  |
| 331            | P.C. Brashear, Finch #2 (dry hole) (Young fld)<br>TE&L Co. Suv. #38, Blk A-314, 80 acres, 150 ft FSL & 850 ft FWL of NE/4 of Blk 38, 4 mi SW fr Orth  | 1195           | 738.5            | 11/10/1949 | 12/7/1949       | Sh, blk: 185<br>Sh, blk: 339<br>Sh, blk: 435   |  |
| 332            | P.C. Brashear et al., T.J. Rouston #1 (dry hole) (WC)<br>TE&L Co. Sur, Blk 24, 311 Ac., 1325 ft FSL & 1510 ft FEL of Lse, A-300, 3 mi S fr Orth   | 725            | 8/11/1953        | 8/12/1953  |                 | coal, Sh, blk: 265<br>Sh, coal strks: 358<br>Sh, blk: 649<br>coal: 681                                       |  |
| 333            | P.C. Brashear et al., T.J. Rouston #2 (dry hole) (WC)<br>TE&L Co. Sur, Blk 24, 311 Ac., 1510 ft FEL & 1625 ft FSL of Lse, A-300, 3 mi S fr Orth   | 750            | 8/20/1953        | 8/21/1953  |                 | coal: 158<br>coal: 325<br>Sh, blk: 668   |  |
| 334            | Brasher & Wheeler, J.K. Jeffery #1-A (oil prod)<br>TE&L Sur. Sec. #42, 15 acres, 150 ft fr N & E lines in SW/4  | 1167.5         | 731              | 4/4/1931   | 4/13/1931       | Sh, blk: 345<br>Sh, blk: 415   |  |
| 335            | O. Bratcher et al., N.P. Finch #1 (dry hole)<br>TE&L Co. Suv., Sec 32, 40 Acres, 450 ft FNL & 150 ft FEL  | 1140.5         | 718              | 6/11/1931  | 6/24/1931       | coal: 112<br>Sh, blk: 142<br>Sh, blk: 267<br>Sh, blk: 273<br>Sh, blk: 305                                    |  |
| 336            | O. Bratcher, N.R. Finch #1 (dry hole)<br>TE&L Co. Suv., Sec 38, 150 ft FWL & 750 ft FNL, W/2 of NW/4 of Sec 38, A 314 (Gunsmith lime @ 639 ft)  | 850            | 8/7/1931         | 8/16/1931  |                 | Sh, blk: 250<br>Sh, dark: 400<br>Sh, blk: 435<br>Sh, blk: 765  |  |
| 337            | Brather & Walton, E.R. Pridgeaux #1 (oil prod)<br>Sylphia Tynes Survey, 150 ft FWL & 150 ft FWL   | 1143           | 462              | 2/14/1929  | 2/18/1929       |  | coal: 60<br>coal: 125<br>Sh, blk: 436              |
| 338            | Brather & Walton, E.R. Pridgeaux #2 (oil prod)<br>Sylphia Tynes Survey, 300 ft E of #1  | 1148           | 485              | 2/22/1929  | 2/26/1929       |  | coal: 65<br>coal: 130<br>coal: 237<br>Sh, blk: 445 |
| 339            | Brazelton Brothers, J.R. Barnett #1 (dry hole) (Olney field)<br>TE&L Suv., Blk 187, 60 Ac., 150 ft FEL & 450 ft FSL   | 1114           | 9/26/1938        | 10/5/1938  |                 | Sh, blk: 463<br>Sh, blk: 495<br>Sh, blk: 638<br>Sh, blk: 707<br>Sh, blk: 1080                                |  |
| 340            | Brazelton Bros, B.B. Colley #1 (dry hole) (Olney field)<br>TE&L Co. Suv., Abst. 483, Blk 242, 783 ft fr N & W lines of SE/4   | 884            | 1/19/1937        | 1/24/1937  |                 | Sh, blk: 330<br>Sh, blk: 345<br>Sh, blk: 798   |  |
| 341            | Brazelton Brothers & C.P. Shelton, Barnett & Gibbs #B-1 (dry hole)<br>TE&L Co. Suv., Blk 2245, 80 Ac., 1050 ft FNL & 1800 ft FWL  | 730            | 3/13/1934        | 3/20/1934  |                 | Sh, blk: 105<br>Sh, blk: 140<br>Sh, blk: 250<br>Sh, blk: 268   |  |
| 342            | Brazelton Brothers, Belknap Coal & Oil Co. #4 (dry hole)<br>TE&L Suv., Blk 21, 40 Acres, 320 ft SW of Well #3   | 751            | 11/11/1932       | 11/14/1932 |                 | Sh, blk: 105<br>Sh, blk: 150<br>blk: 275<br>blk: 295<br>Sh, blk: 307   |  |
| 343            | Brazelton Brothers, W.B. Howard #1 (dry hole) (Olney field)<br>TE&L Suv., #3401, Abst. 1221, 80 acre tract, 150 ft FEL & 1214 ft FNL  | 1008           | 3/10/1936        | 3/17/1936  |                 | Sh, blk: 468<br>Sh, blk: 541<br>Sh, blk: 899   |  |
| 344            | Brazelton Brothers, McBryer Estate #1 (oil prod)<br>TE&L Suv., #1904, 33 Ac. Tr., 150 ft fr S & W lines   | 696            | 6/19/1938        | 7/3/1938   |                 | Sh, blk: 280<br>Sh, blk: 355<br>Sh, blk: 659   |  |
| 345            | Brazelton Brothers, McBryer Estate #2 (dry hole) (Tatum pool, Loving field)<br>TE&L Suv., #1904, 33 Ac. Tr., Abst. 978, 150 ft FSL, 300 ft E of #1 3 mi NE of Jean  | 693            | 7/25/1938        | 7/30/1938  |                 | Sh, blk: 286<br>Sh, blk: 350<br>Sh, blk: 665   |  |
| 346            | Brazelton Brothers, McBryer Estate #3 (oil prod)<br>TE&L Suv., 1907, 150 ft fr N & W L<br>Brazelton Bros, McBryer Estate #4 (dry hole) (N.Tx Olney area, Tatum pool)<br>TE&L Suv., #1907, 58 Acre Tr., 450 ft FWL & 310 ft FNL, 300 ft E of #3. | 11/8/1901      | 8/24/1938        | 8/29/1938  |                 | Sh, blk: 286<br>Sh, blk: 350<br>Sh, blk: 275<br>Sh, blk: 335<br>Sh, blk: 665                                 |  |
| 347            | Brazelton Brothers et al., C.J. Taack #8 (dry hole)<br>TE&L Co. Suv. Sec. 263, 60 Acres, 940 ft FEL & 450 ft FSL  | 756            | 8/18/1933        | 8/24/1933  |                 | Sh, blk: 118<br>coal: 147<br>Sh, blk: 275<br>Sh, blk: 340  |  |
| 348            | Brazelton Brothers et al., C.J. Taack #9 (dry hole)<br>TE&L Suv. Sec. 263, Abst. 510, 60 Acres, 640 ft FEL & 450 ft FSL (lime G.S. at 645 ft)   | 740            | 8/25/1933        | 9/1/1933   |                 | Sh, blk: 136<br>Sh, blk: 280<br>Sh, blk: 345   |  |
| 349            | Brazelton Brothers et al., C.J. Taack #10 (dry hole)<br>TE&L Suv. Sec. 263, Abst. 510, 60 Acres, 790 ft FEL & 750 ft FSL  | 674            | 9/18/1933        | 9/24/1933  |                 | (Sh?) blk: 263<br>Sh, blk: 285<br>Sh, blk: 342   |  |
| 350            | Brazelton Brothers et al., C.J. Taack #11 (dry hole)<br>TE&L Suv. Sec. 263, Abst. 510, 60 Acres, 750 ft FSL & 1083 ft FEL (lime G.S. (SLM) at 658 ft)   | 760            | 10/12/1933       | 10/17/1933 |                 | (Sh?) blk: 112<br>(Sh?) blk: 130<br>(Sh?) blk: 145<br>(Sh?) blk: 299<br>coal: 343                            |  |
| 351            | Brazelton Brothers et al., C.J. Taack #13 (dry hole)<br>TE&L Co. Suv. Abst. 510, Blk 263, 60 Acres, 940 ft FEL & 250 ft FSL   | 685            | 4/7/1934         | 4/8/1934   |                 | Sh, blk: 287<br>(Sh?) blk: 344   |  |

| Occurrence No. | Well name / location   | Elevation (ft) | Total depth (ft) | Spud date  | Compl/PB dates | Coal and black or dark-gray shale occurrences (depth in ft)  |
|----------------|--|----------------|------------------|------------|----------------|--|
| 352            | Brazelton Brothers et al., B. Ward #1 (dry hole)<br>TE&L Suv. 260, Abst 507, 60 acres, 450 ft fr S & W lines (lime Gunsite at 588 ft)  | 688            | 12/2/1935        | 12/7/1935  |                | Sh, blk: 100<br>Sh, blk: 247   |
| 353            | Brazelton Brothers, R.S. Ward #1 (oil prod)<br>TE&L Suv. Blk 2248, 200 ft FSL & 150 ft FWL of SW Cor. NE 1/4 Blk 2248  | 610            | 6/4/1934         | 6/6/1934   |                | Sh, blk: 143<br>Sh, blk: 238<br>Sh, blk: 260<br>Sh, blk: 327   |
| 354            | Brazelton Bros. et al., R.B. Ward #3 (oil prod)<br>TE&L Co. #2248, Abst. 1081, 60 Ac., 550 ft FNL & 533 ft FEL   | 608            | 12/11/1934       | 12/14/1934 |                | Sh, blk: 140<br>Sh, blk: 270<br>Sh, blk: 367<br>Sh, blk: 411   |
| 355            | Brazelton Brothers, R.B. Ward #4 (oil prod)<br>TE&L Co. #2248, 167 ft fr W line & 775 ft S of N line, W 60 Ac out NE/4 Sec.<br>Brazelton Brothers, R.B. Ward #5 (dry hole)<br>TE&L Co. #2248, 450 ft FNL & 150 ft FEL, W 60 Ac NE 1/4 of Sec. #2248  | 609            | 12/31/1934       | 1/7/1935   |                | Sh, blk: 325   |
| 356            | Brazelton Brothers, R.B. Ward #6 (oil prod)<br>TE&L Co. #2248, 60 Acre Tr., 850 ft FEL & 150 ft FSL  | 608            | 3/18/1935        | 3/24/1935  |                | Sh, blk: 98<br>Sh, blk: 136<br>Sh, blk & coal: 264   |
| 357            | Brazelton Brothers, et al. A.C. Watson #1 (dry hole)<br>TE&L Co. Suv. Sec. 250, 7 mi fr Olney, Tex. (lime Gunsite @ 607 ft)  | 664            | 10/2/1934        | 10/6/1934  |                | Sh, blk: 245<br>Sh, blk: 310   |
| 358            | Brazelton Brothers, Barnett & Gibbs #2 (dry hole)<br>TE&L Suv. Block 2245, 40 Acres, A-1078, 450 ft FSL & 266 ft FWL<br>(lime G.S. @ 636 ft)   | 717            | 11/5/1932        | 11/10/1932 |                | Sh, blk: 125<br>Sh, sdy, blk: 253<br>(Sh?) blk: 317<br>(Sh?) blk: 692                                    |
| 359            | Brazelton Brothers & Williams, Benson#1 (dry hole)<br>TE&L Suv. Block 1450, 43 Acres, 700 ft FSL & 150 ft FWL  | 961            | 9/22/1931        | 9/29/1931  |                | coal: 267<br>Sh, blk: 460<br>(Sh?) blk: 483<br>Sh, blk: 925  |
| 360            | Brazelton Brothers & Williams, C.J. Taack #7 (dry hole)<br>TE&L Co. Suv. Sec. #263, 300 ft S of #6   | 753            | 10/2/1931        | 10/6/1931  |                | Sh, blk: 275<br>(Sh?), sdy, blk: 335   |
| 361            | W.F. Brazelton et al., Belknap Coal Co. #1 (dry hole)<br>TE&L Suv. Blk 21, Abst. 297, 150 ft fr S & E lines of NW 1/4 of NW 1/4  | 735            | 1/20/1931        | 1/28/1935  |                | coal: 252  |
| 362            | W.F. Brazelton et al., Belknap Coal Co. #3 (oil prod)<br>TE&L Suv. Blk 21, 40 Acres, 150 ft FNL & 600 ft FEL (lime Gun sight @ 635 ft)   | 714            | 5/24/1931        | 6/5/1931   |                | Sh, blk: 145<br>Sh, blk: 317<br>Sh, blk: 695   |
| 363            | W.F. Brazelton et al., Belknap Coal Co. #5 (dry hole)<br>TE&L Suv. Blk 21, Abst 297, 40 Acres, 150 ft FEL, 300 ft N of Well #3<br>(G.S. lime @ 646 ft)   | 730            | 12/7/1932        | 12/15/1932 |                | Sh, blk & coal: 120<br>Sh, blk: 145<br>Sh, blk: 268<br>Sh, blk & coal: 300                               |
| 364            | W.F. Brazelton et al., G.W. Grubbs #1 (dry hole)<br>TE&L Co. Suv. Sec. 300, Abst. 547, 483 ft FNL & 783 ft FEL Sec.<br>(lime G.S. @ 429 ft)  | 453            | 12/17/1930       | 12/21/1930 |                | Sh, blk: 74<br>coal: 128<br>Sh, blk: 428<br>Sh, blk: 939   |
| 365            | TE&L Suv. Blk 225, Sec. A-472, 40 Ac., 750 ft fr S & WL of Lse, 5 mi<br>SE of Olney (G.S. lime @ 941 ft)   | 980            | 1/16/1955        | 7/17/1955  |                | Sh, blk: 270   |
| 366            | W.F. Brazelton et al., J.F. Larimere #1 (dry hole)<br>TE&L Co. Suv.  | 708            | 6/3/1930         | 6/9/1930   |                | (Sh?) blk: 325<br>(Sh?) blk: 510   |
| 367            | W.F. Brazelton et al., J.F. Larimere #2 (oil prod)<br>TE&L Co. Suv.  | 708            | 6/3/1930         | 6/9/1930   |                | Sh, blk: 345<br>Sh, blk: 360   |
| 368            | W.F. Brazelton et al., J.F. Larimere #4 (dry hole)<br>TE&L Co. Suv. Blk 2246   | 722            | 6/21/1930        | 6/27/1930  |                | coal, blk: 122<br>coal: 150<br>coal: 274<br>Sh, blk: 315<br>Sh, blk: 345<br>Sh, blk: 425<br>Sh, blk: 702 |
| 369            | W.F. Brazelton et al., J.F. Larimere #5 (oil prod)<br>TE&L Co. Suv. Blk 2246   | 712            | 6/23/1930        | 6/28/1930  |                | coal: 147<br>Sh, blk: 335<br>Sh, blk: 425  |
| 370            | W.F. Brazelton et al., J.F. Larimere #6 (oil prod)<br>TE&L Co. Suv. Blk 2246, Abst. 1079, 316 ft W of #1   | 713            | 6/30/1930        | 7/9/1930   |                | Sh, blk: 145<br>coal: 273<br>coal: 340<br>Sh, blk: 424   |
| 371            | W.F. Brazelton et al., J.F. Larimere #7 (oil prod)<br>TE&L Co. Suv. Blk 2246, Abst. 1079   | 716            | 7/17/1930        | 7/23/1930  |                | coal: 115<br>coal: 275<br>coal: 350  |
| 372            | W.F. Brazelton, J.F. Larimere #8 (oil prod)<br>TE&L Suv. Blk 2246, Sec 1079  | 708            | 7/14/1930        | 7/31/1930  |                | coal: 270<br>Sh, blk: 342<br>Sh, blk: 419  |
| 373            | W.F. Brazelton et al., J. Parsley #C1 (oil prod) (Young County Regular)<br>TE&L Co. Suv. Blk 224, Sec A 471, 50 ac., 150 ft FEL & 450 ft FSL of Lse,<br>6 mi SE Olney.   | 965            | 12/29/1954       | 12/30/1954 |                | Sh, blk: 948   |
| 374            | W.F. Brazelton et al., C.E. Pool & Wife #1 (dry hole)<br>TE&L Co. Suv. Blk 622, Sec I, 150 ft fr S & W lines   | 482            | 10/17/1930       | 10/25/1930 |                | coal: 52   |
| 375            | W.F. Brazelton, T.W. Brazelton, C.C. Williams & E.R. Riggs, J.C. Taack #2<br>(oil prod). TE&L Suv. Blk 263, 450 ft FNL & 150 ft FEL  | 658            | 2/13/1930        | 2/18/1930  |                | (Sh?) blk: 240<br>coal: 268<br>(Sh?) blk: 415  |
| 376            | W.F. Brazelton et al., C.J. Taack #3 (oil prod)<br>TE&L Co. Suv., 450 ft FNL & 150 ft FWL  | 730            | 3/31/1930        | 4/4/1930   |                | (Sh?) blk: 133<br>(Sh?) blk: 271<br>coal: 298<br>coal & shale: 334                                       |
| 377            | W.F. Brazelton, C.J. Taack #5 (oil prod)<br>TE&L Suv. Blk 263  | 679            | 4/16/1930        | 4/20/1930  |                | coal: 110<br>coal: 324   |
| 378            | W.F. Brazelton et al., C.J. Taack #6 (oil prod)<br>TE&L Suv. Blk 263, 400 ft SE of #1  | 670            | 5/6/1931         | 5/12/1931  |                | (Sh?) blk: 120<br>(Sh?) blk: 270<br>(Sh?) blk: 331   |
| 379            | W.F. Brazelton et al., B.B. Teague #1 (dry hole)<br>TE&L Suv. Blk 1464, 1511 ft FEL & 1134 ft FNL  | 915            | 1/25/1931        | 2/3/1931   |                | Sh, blk: 290<br>Sh, blk: 362<br>Sh, blk: 725<br>Sh, blk: 890   |
| 380            | Brazelton & Price, W.S. White #1 (dry hole)<br>TE&L Co. Suv. Blk 245, Abst 492, 10 Acres, 150 ft FSL & 150 ft FEL  | 1146           | 802              | 2/10/1932  | 3/20/1932      | coal & shale: 249<br>coal & Sh, blk: 312   |
| 381            | Brazo Young Corp., E. Johnson #1 (oil prod)<br>Alex McLennan Suv., 660 ft FNL & 1000 ft FEL (Palo Pinto lime, hd @ 1645 ft)  | 1135.6         | 4616             | 3/6/1938   | 5/12/1938      | Sh, blk: 425<br>Sh, dark: 785<br>Sh, blk: 810  |
| 382            | Brazos Young Corp., M. Sloan et al. #1 (dry hole)<br>Alex McLennan Suv., Abst. 180, 47 Ac., Tract, 660 ft FNL & 660 ft FEL,<br>8 mi NW fr Graham (Palo Pinto lime @ 1605 ft)   | 4802           | 10/20/1938       | 2/8/1939   |                | Sh, blk: 480<br>Sh, blk: 853<br>Sh, dark: 2375   |
| 383            | Brazos Young Corp., H.J. Wray Est. #1 (oil prod)<br>Alexander McLennan Suv., H.J. Wray Est., J.P. Hume Suv., 72 Ac., 660 ft FNL<br>& 660 ft FWL Hume Suv. Abst. 180, 47 Ac., Tract, 660 ft FNL & 660 ft<br>FWL Home Suv. (lime Palo Pinto @ 1620 ft) | 4257           | 8/18/1939        | 10/1/1938  |                | Sh, blk: 460<br>Sh, blk: 845<br>Sh, blk: 3500  |

| Occurrence No. | Well name / location  | Elevation (ft) | Total depth (ft) | Spud date  | Compl/ PB dates | Coal and black or dark-gray shale occurrences (depth in ft)  |
|----------------|---|----------------|------------------|------------|-----------------|--|
| 384            | Bredshall Oil Co., W.F. Bailey #1 (dry hole)<br>TE&L Co. Suv. Blk 26, Abst 306, 87 Acres, 450 ft FEL & 1050 ft FSL<br>of Suv. A-302 (lime, <b>Gunshight @ 773.5 ft</b> )  |                | 902              | 9/10/1951  | 9/14/1951       | Sh & coal: 240<br>Sh & coal: 375<br>Sh, blk: 773   |
| 385            | Bredshall Oil Co., A. Lemerman #1 (dry hole) (Killian field)<br>TE&L Co. Suv. Sec. 220, 73 1/3 Ac., 150 ft FSL & 750 ft FEL, 3 mi S fr Onley<br>Brek Oil Co., C.F. Newman #2 (oil prod)<br>Susan Sallie Suv. 40 Ac., 300 ft E of #1, thence N 150 ft t location of well | 1200           | 980              | 9/20/1951  | 9/24/1951       | Sh, blk: 927   |
| 386            | Brek Oil Co., C.F. Newman #3 (oil prod)<br>Susan Sallie Suv., 40 Ac., appr. 450 ft FWL & appr. 400 ft FSL   |                | 543              | 2/20/1934  | 3/1/1934        | coal: 31<br>Sh, blk: 115<br>coal: 140<br>coal: 215<br>coal: 26<br>Sh, blk: 110<br>coal: 135<br>coal: 210               |
| 387            | Bridwell Oil Co., J.M. Bloodworth #1 (dry hole)<br>TE&L Co. Suv., Blk 326, 150 ft fr W, 450 ft fr N line Sec.   |                | 1055             | 10/29/1930 | 11/8/1930       | Sh, blk: 410<br>Sh, blk: 511<br>Sh, blk: 598<br>Sh, blk: 955   |
| 388            | Bridwell Oil Co., Bridwell & Mayfield #2 (oil prod) (WCI)<br>A. Bryant Abst. 1950, 330 ft FSL & 467 ft FWL of lse, 237 ft S of #1,<br>8 mi ESE fr Graham  |                | 2709.5           | 9/16/1944  | 11/1/1944       | Sh, blk: 1435<br>Sh, blk: 1954   |
| 389            | Bridwell Oil Co., R.J. Calvin #1 (dry hole) (Markley North -Strawn-field)<br>A. Rohus Sur A-240, 25 ac., 330 ft fr N & EL, 3 mi N Markley   |                | 3642             | 10/7/1952  | 10/21/1952      | coal: 2267   |
| 390            | Bridwell Oil Co., G.W. Christian #1 (dry hole)<br>TE&L Co. Suv., Blk 255, 72 Acres, 850 ft N & 800 ft W of SW Corner  |                | 817              | 1/22/1935  | 1/29/1935       | coal: 230<br>Sh, sdy & coal: 316<br>Sh, blk: 562<br>Sh, dark: 648<br>Sh, dark op: 772<br>Sh, blk: 779<br>Sh, dark: 797 |
| 391            | Bridwell Oil Co., F.M. Cutters #1 (oil prod)<br>YCSL Sur Blk 25, 150 ft fr N & W lines of Blk 25  |                | 618.5            | 5/16/1929  | 5/23/1929       | Sh, blk: 150   |
| 392            | Bridwell Oil Co., F.M. Cutters #1 (oil prod)<br>J.L. Hyatt Suv., 450 ft W & 150 ft S of NE Cor. Of Suv. 40 Ac., Abst. 2166  |                | 613              | 8/8/1933   | 8/13/1933       | Sh, blk: 114<br>Sh, blk: 128<br>coal: 150<br>Sh, blk: 197<br>Sh, blk: 528  |
| 393            | Bridwell Oil Co., F.M. Cutters #1 (oil prod) (WCI)<br>J.L. Hyatt A-2166 Suv., 160 Acres, 330 ft FEL & 1263 ft FSL of Sec 2,<br>3 mi NW fr Markley   |                | 3680             | 11/28/1951 | 12/11/1951      | coal: 140<br>Sh & coal: 2359   |
| 394            | Bridwell Oil Co., F.M. Cutters #2 (oil prod)<br>YCSL Survey Blk 25, 310 ft NL & 500 ft WL   |                | 604              | 6/21/1929  | 6/28/1929       | Sh, blk: 145   |
| 395            | Bridwell Oil Co., F.M. Cutters #3 (dry hole)<br>Suv., 890 ft WL & 575 ft NL of Lse  |                | 620              | 7/3/1929   | 7/8/1929        | Sh, blk: 135<br>Sh, blk: 472<br>Sh, blk: 602   |
| 396            | Bridwell Oil Co., J.B. Daniels #4 (dry hole)<br>TE&L Co. Suv. Blk 164, 40 Acre Tract, 600 ft W of E line & 466 ft fr N & S lines  |                | 937              | 1/13/1935  | 2/7/1935        | Sh, blk: 873.7   |
| 397            | Bridwell Oil Co., S.A. Haley #1 (dry hole)<br>TE&L Co. Suv. Blk 293, 1716 ft fr N & EL  | 11157 DF       | 925              | 5/22/1930  | 5/31/1930       | Sh, blk: 196<br>Sh, blk: 257<br>Sh, blk: 571<br>Sh, blk: 770   |
| 398            | Bridwell Oil Co., J.G. Hawkins #1 (dry hole)<br>TE&L Co. Suv. Blk 1917, 40 Acres, 150 ft FS & W line of 40 Acre Tract   |                | 1188             | 600        | 1/30/1932       | 2/3/1932   |
| 399            | Bridwell Oil Co., J.A. Leberman #1 (dry hole)<br>TE&L Co. Suv. Blk 151, 627 ft SL & 1737 ft El Suv.   |                | 1201.9           | 970        | 2/18/1930       | 3/3/1930   |
| 400            | Bridwell Oil Co., E.R. & H.O. Pridgeaux #1 (dry hole)<br>CTRR Co. Survey Blk 1, 150 ft fr N & E Lines   |                |                  | 736        | 5/30/1929       | 6/7/1929   |
| 401            | Bridwell Oil Co., H.O. Pridgeaux "B" Est #1 (dry hole) (Markley N-Strawn field)<br>Assoso Rohus A-240 Sur, 330 ft fr S & EL, 4 mi N fr Markley  |                |                  | 3706       | 5/21/1953       | 6/2/1953   |
| 402            | Bridwell Oil Co., H.O. Pridgeaux "C" #2 (dry hole) (Young County Regular field)<br>M. Rhoads Suv. A-1523, 113.7 acres, 467 ft FWL & 1650 ft FNL of Lse.,<br>2.5 mi NE fr Markley  |                |                  |            |                 | Sh, blk, soft & lime: 2505   |
| 403            | Bridwell Oil Co., Pridgeaux-Sams #1 (dry hole) (WCI)<br>Young Co Sch Ind A-1284 Sur., Sec 27, 80 Ac., 330 ft FNL & 330 ft FWL of Lse.,<br>1.5 mi N fr Markley   |                | 3680             | 4/25/1953  | 5/5/1953        | Sh & coal: 232   |
| 404            | Bridwell Oil Co., Pridgeaux-Sikes #1 (oil prod) (Pridgeaux 3000 ft field)<br>Assoso Rohus A-240 Sur, Blk 5, 80 ac., 330 ft FWL & 1263 ft FNL  |                | 3040             | 5/12/1953  | 5/20/1953       | Sh & coal: 268   |
| 405            | Bridwell Oil Co., Pridgeaux-Sikes #2 (oil prod) (Pridgeaux Strawn 3000 ft field)<br>Assoso Rohus A-240 Sur, Blk 5, 80 ac., 330 ft FEL & 819 ft FSL  |                | 3049             | 6/5/1953   | 6/12/1953       | Sh & coal: 198   |
| 406            | Bridwell Oil Co., Pridgeaux-Sikes #3 (dry hole) (Pridgeaux Strawn 3000 ft field)<br>Assoso Rohus A-240 Sur, Blk 5, 80 Ac., 330 ft FSL & 773 ft FEL of Lse.,<br>3 mi NW fr Markley   |                | 3700             | 7/14/1953  | 7/28/1953       | Sh & coal: 190   |
| 407            | Bridwell Oil Co., T.J. Routon #1 (dry hole)<br>TE&L Suv. Blk 24, 45 Acre Tr., 200 ft FNL & 700 ft FEL   |                | 803              | 1/31/1932  | 2/9/1932        | coal: 120<br>Sh, blk: 330<br>Sh, blk: 340<br>Sh, blk: 663  |
| 408            | Bridwell Oil Co., S.E. Snider #2 (dry hole)<br>R Wilson Sur. A-1276, 153 ac., 330 ft FNL & 1263 ft FEL of Lse, 4 mi N Markley   |                | 3650             | 12/14/1951 | 12/30/1951      | Sh, s, & coal strk: 83<br>Sh, s, & coal strk: 303<br>Sh, blk, soft: 2289   |
| 409            | Bridwell Oil Co., S.E. Snider #4 (oil prod) (Markley N Strawn field)<br>R Wilson Sur. A-1276, 414.14 ac., 1677 ft FNL & 1711 ft FWL   |                | 3626             | 4/8/1952   | 4/18/1952       | coal: 335  |
| 410            | Bridwell Oil Co., S.E. Snider #6 (oil prod) (Markley N Strawn field)<br>R Wilson Sur. A-1276, 415 ac., 990 ft FNL & 330 ft FWL  |                | 3620             | 8/29/1952  | 9/10/1952       | Sh, blk: 133   |
| 411            | Bridwell Oil Co., S.E. Snider #9 (oil prod) (Markley N Strawn field)<br>R Wilson Sur. A-1276, 415.14 ac., 467 ft FEL & 1252 ft FNL of Lse.<br>Sh, blk: 133  |                | 3618             | 6/5/1956   | 6/22/1956       | coal: 225  |
| 412            | Bridwell Oil Co., S.E. Stowers #1 (dry hole)<br>TE&L Co. Suv., Blk 228, 1050 ft FNL & 150 ft FWL Sec.   | 1188 DF        | 1085             | 6/4/1930   | 6/13/1930       | Sh, blk: 344<br>Sh, blk: 532<br>Sh, blk: 992   |
| 413            | Bridwell Oil Co., A. Williams #1 (oil prod) (Cutters field)<br>Young Co. School Ld Blk 26, 110 Ac., 150 ft fr S & W lines   |                | 633              |            | 8/24/1938       | Sh, blk: 205<br>Sh, blk: 559<br>Sh, blk: 592   |
| 414            | Bridwell Oil Co., A. Williams #2 (oil prod) (Cutters field)<br>Young Co. School Ld Suv., Blk 26, 110 Ac., 150 ft FWL & 450 ft FSL   |                | 631              |            | 8/24/1938       | Sh, blk: 150<br>Sh, blk: 564   |
| 415            | Bridwell Oil Co., A. Williams #3 (oil prod)<br>Young Co. Sch Ld Suv., Blk 26, 110 Ac., 150 ft FWL & 750 ft FSL, 300 ft N of #2  |                | 655              | 7/29/1938  | 8/3/1938        | Sh, blk: 165<br>Sh, blk: 585   |
| 416            | Bridwell Oil Co., F.M. Cutters #1 (oil prod)<br>J.L. Hyatt Suv., Abst #2166, 150 ft S & 150 ft W of NE Cor. SW 40 Ac.   |                | 1040.4           | 627        | 9/5/1929        | 9/12/1929  |
| 417            | Bridwell & Mayfield, F.M. Cutters #2 (oil prod)<br>J.L. Hyatt Abst 2156, 150 ft S & 150 ft E of NW Cor. of SW 40 Ac.  |                | 1036             | 628        | 9/15/1929       | 9/22/1929  |
| 418            | Bridwell & Mayfield, F.M. Cutters #3 (oil prod)<br>J.L. Hyatt Suv. Abst #2166, 150 ft S & 486 ft E of NW Cor. of SW 40 Ac.  |                | 1039             | 606        | 9/27/1929       | 10/2/1929  |
| 419            | Bridwell & Mayfield, F.M. Cutters #6 (dry hole)<br>J.L. Hyatt Suv. Abst 2166, 498 ft S & 486 ft E of NW Cor. of SW 40 Acres   |                | 722              | 12/4/1929  | 12/9/1929       | Sh, blk: 121<br>Sh, blk: 556   |

| Occurrence No. | Well name / location   | Elevation (ft) | Total depth (ft) | Spud date  | Compl/ PB dates | Coal and black or dark-gray shale occurrences (depth in ft)   |  |
|----------------|--|----------------|------------------|------------|-----------------|---|--|
| 420            | Bridwell Oil Co. & Petroleum Prod. Co., J.B. Daniel #1 (oil prod) TE&L Co. Suv., Blk 164, 1083 ft fr S & 1221 ft fr E L  |                | 901              | 3/23/1930  | 4/1/1930        | Sh, blk: 434<br>Sh, blk: 448<br>Sh, blk: 489  |  |
| 421            | Bridwell Oil Co. & Petroleum Prod. Co., J.B. Daniel #2 (dry hole) TE&L Co. Suv., Blk 164, 150 ft fr N & W lines  |                | 922              | 4/4/1930   | 4/15/1930       | Sh, blk: 315<br>Sh, blk: 453  |  |
| 422            | Bridwell Oil Co. & Petroleum Prod. Co., J.B. Daniel #3 (oil prod) TE&L Co. Suv., Blk 164   |                | 915              | 4/21/1930  | 4/29/1930       | Sh, blk: 449<br>Sh, blk: 898  |  |
| 423            | Bridwell Oil Co., J.W. Daws #1 (oil prod) (WC) TE&L Co. Suv., Sec 765, 320 Ac., 4 mi W fr Proffitt   |                | 1909             | 3/17/1943  | 3/26/1943       | coal: 363<br>coal: 475<br>Sh, blk: 516<br>Sh, blk: 536<br>coal: 542<br>Sh, blk: 1046<br>Sh, blk: 1356<br>coal: 1440 |  |
| 424            | Bridwell Oil Co., J.W. Daws "A" #1 (dry hole) TE&L Co. Suv., Sec 764, 180 Acres, 330 ft FNL & 934 ft FWL, 4 mi W fr Proffitt   |                | 991              | 3/27/1943  | 4/1/1943        | coal: 374<br>coal: 486<br>coal: 525<br>coal: 547<br>coal: 551<br>Sh, blk: 861                                       |  |
| 425            | Bridwell Oil Co., B.J. Hulse et al #A-1 (dry hole) TE&L Co. Suv., Sec 767, 100 Ac., 300 ft FNL & 1166 ft FEL, 1167 ft fr WL A 100 Ac. Tr., 4 mi W fr Proffitt  |                | 2005             | 4/5/1943   | 4/11/1943       | coal: 411<br>coal: 528<br>coal: 575<br>coal: 603<br>coal: 982   |  |
| 426            | Bridwell Oil Co., D.L. Wolf #1 (dry hole) TE&L Co. Suv., Blk 165, 572 ft NL & 150 ft EL of Sec.  | 1186 DF        | 1003             | 12/27/1929 | 1/6/1930        | Sh, blk: 1459<br>Sh, blk: 440<br>coal: 517<br>Sh, blk: 856  |  |
| 427            | Bridwell Oil Co. & Petroleum Prod. Co., D.L. Wolf #2 (oil prod) TE&L Co. Suv., Blk 165, 783 ft W & 850 ft S of NE Corner of Blk 165 Bridwell Oil Co. & E.J. Stump, T.J. Routen #1 (dry hole) TE&L Co. Suv., Blk 181, 1250 ft fr S & 150 ft fr WL See |                | 962              | 4/4/1932   | 4/26/1932       | Sh, blk & coal: 309   |  |
|                |  |                | 947              | 5/3/1930   | 5/14/1930       | Sh, blk: 867<br>Sh, blk: 319<br>Sh, blk: 473<br>Sh, blk: 550<br>Sh, blk: 840  |  |
| 428            | Brihill Oil Corp., Peter Heirs #1 (oil prod) H.E. Peters Suv., 150 ft fr S & W lines   |                | 1108             | 740        | 4/1/1930        | 4/15/1930   | coal: 225  |
| 429            | Brihill Oil Corp., R.D. Webb #1 (dry hole) Associe Rehus Suv., 150 ft fr N & E lines   |                | 1121             | 827        | 2/25/1930       | 3/14/1930   | Sh, blk: 280<br>Sh, blk: 691                                     |
| 430            | Brihill Oil Corp. & L.G. Bradstreet Co., C.W. Matthews #1 (dry hole) A. Rohus Suv., 1000 ft EL & 2035 ft SL  |                | 1154             | 789        | 8/8/1929        | 8/17/1929   | Sh, blk: 280<br>Sh, blk: 370<br>Sh, blk: 720                     |
| 431            | Brihill Oil Corp. & L.G. Bradstreet Co., L.E. Self #1 (dry hole) Associe Rohus Sur., 150 ft fr S & W Lines   |                | 1143             | 775        | 7/4/1929        | 7/17/1929   | (Sh) blk: 300<br>coal: 371<br>Sh, blk: 712                       |
| 432            | The British American Oil Producing Co., M. Barrett #1 (oil prod) E.W. Sangert Suv., 86 25 Ac. Lse., 330 ft N of SL & 330 ft W of EL  |                | 1225             | 5530       | 7/16/1943       | 8/28/1943   | coal: 172  |
| 433            | H.R. Britton, Morrison-Kindley #2 (WC) TE&L Co. Sur. #431 & 432, A 638 & A 639, 80 ac, 27 ft FNL & 1546 FWL of TE&L Sur 432 5.5 mi E Newcastle   |                |                  | 4750       | 7/6/1961        | 7/19/1961   | Sh, blk: 790<br>Sh, blk: 3652<br>coal: 4241<br>coal: 4369        |
| 434            | E.C. Brown Trustee, L. Stewart #1 (dry hole) (WC) Tex Emigration Lds Sur., Sec 229, 212 ac., 330 ft FNL & 330 ft FWL of Lsse, 2 mi E Olney   |                |                  | 3709       | 3/8/1953        | 3/25/1953   | coal: 598  |
| 435            | R.J. Brown, W.H. Daily #1 (dry hole) Sylphia Tynes Survey 5, 150 ft E and 3105 ft S of NW Corner of Survey; or 150 ft of W & 150 ft N of S Lines   |                |                  | 600        | 6/28/1928       | 7/6/1928  | Sh, blk: 70<br>Sh, blk: 143                                      |
| 436            | R.J. Brown & Co., J.W. Hawkins et al #1 (dry hole) GB&N Company Survey, See 2, 150 ft W of E & 840 ft N of S Lines of 70 Acre Tract  |                |                  | 720        | 5/4/1928        | 5/25/1928   | shale coal: 150<br>Sh, blk: 215<br>Sh, blk: 273<br>Sh, dark: 646 |
| 437            | G.G. Browning, C.E. Howard #1 (dry hole) TE&L Co. Suv., #243, Abst. #490, 150 ft W of E Line & 450 ft N fr S Line of East 50 Acres of N. 160 Ac.   |                |                  | 735        | 10/12/1932      | 10/22/1932  | Sh, blk: 104<br>Sh, blk: coal: 280<br>Sh, blk: 335               |
| 438            | A.H. Bruner & Co., B.W. King #1 (oil prod) (Garvey Strawne field) Susan Silee Sur. A-252, 330 ft FWL & 660 ft FSL of 75 ac.  |                | 1190             | 3488       | 4/4/1955        | 4/13/1955   | coal: 125  |
| 439            | R. Bruton, S.H. Jones #1 (dry hole) Abst. 40, Block 1, 80 acres, 750 ft FNL & 150 ft FEL   |                |                  | 673        | 10/6/1932       | 10/22/1932  | Sh, blk: 137<br>Sh, blk: 223<br>Sh, blk: 477<br>Sh, blk: 595     |
| 440            | Bryson Oil & Gas Co., J.M. Nall #1 (oil prod) TE&L Co. Suv., Blk 1997  |                | 1271             | 4465       | 11/26/1938      | 6/4/1939  | coal: 192<br>Sh, blk: 925  |
| 441            | D. Buckalew et al., L.J. Kilcrease #2 (oil prod) (Young County Regular field) TE&L Co. Block #1809, Sec. 971, 40 ac., 750 ft FSL & 450 ft FWL  |                | 1215             | 1009       | 3/1/1951        | 3/5/1951  | coal: 563  |
| 442            | Bullingron, Lee, Pendleton & Bullington, J.L. Boone #7 (oil prod) BBB&C Ry Co. Sur., Sec 1, 80 acre tract, 150 ft E of W & 750 ft S of N lines   |                |                  | 545        | 1/16/1929       | 1/26/1929   | coal: 158<br>Sh, blk: 394<br>Sh, blk: 518                        |
| 443            | Bullingron, Lee, Pendleton & Bullington, J.L. Boone #3 (oil prod) BBB&C Ry Co. Suv, Sec #1, 80 acre tract, 570 ft SL & 30 ft WL  |                |                  | 500        | 4/27/1928       | 5/7/1928  | Sh, blk: 98<br>Sh, blk: 167<br>Sh, blk: 459                      |
| 444            | Bullingron, Lee, Pendleton & Bullington, J.L. Boone #4 (oil prod) 80 acre tract, 450 ft E of W line, apx. 150 ft fr S line   |                |                  | 493.5      | 5/10/1928       | 5/16/1928   | Sh, blk: 98<br>Sh, blk: 167                                      |
| 445            | Bullingron, Lee, Pendleton & Bullington, J.L. Boone #5 (oil prod) BBB&C RR Surv., Sec 1, 80 Acres, 500 ft E of W, 750 ft S of N lines  |                |                  | 497        | 5/28/1928       | 6/4/1928  | coal: 95   |
| 446            | Bullingron, Lee, Pendleton & Bullington, J.L. Boone #6 (oil prod) BBB&C RR Surv., Sec 1, 80 A. Tract, 740 ft E of W, 150 ft N of S lines, apx. footage fr S line 80 A. Tract   |                |                  | 496        | 6/11/1928       | 6/17/1928   | coal: 95<br>Sh, blk: 463<br>Sh, blk: 492                         |
| 447            | R. Bullock, R. Bullock #1 (dry hole) Mary Hamilton Suv. Abs. 138, 230 Acres, 270 ft FSL & 221 ft FWL   |                |                  | 462        | 1/12/1936       | 2/3/1936  | Sh, dark: 448<br>Sh, blk: 460                                    |
| 448            | R. Bullock, S.L. Scott #1 (oil prod) (WC) TE&L Co. Sur. Blk 345, 80 ac., 200 ft FNL & 170 ft FEL, 8 mi NW Newcastle  |                |                  | 747        | 4/7/1955        | 4/26/1955   | Sh, blk: 370<br>coal: 401<br>Sh, blk: 446<br>Sh, blk: 741        |
| 449            | R. Bullock, S.L. Scott #2 (oil prod) (Yung County Regular field) TE&L Surv., Blk 345, 80 ac., 475 ft FEL & 335 ft FNL, 300 ft fr #1  |                |                  | 746        | 7/8/1955        | 7/16/1955   | coal: 290<br>Sh, blk: 401<br>Sh, blk: 445<br>Sh, blk: 741        |
| 450            | J. Bundy et al., J.W. Bryan #1 (dry hole) TE&L Co. Survey, Sec. 1902   |                |                  | 753        | 11/19/1928      | 11/22/1928  | coal Sh: 291<br>Sh, blk: 365<br>Sh, blk: 743                     |
| 451            | J. Bundy, J.B. Foster #1 (dry hole) (Jean field) TE&L Suv., Blk 620, 40 acres, 150 ft FNL & 933 ft FEL   |                |                  | 600        | 4/26/1936       | 5/6/1936  | Sh, blk: 123   |

| Occurrence No. | Well name / location   | Elevation (ft) | Total depth (ft) | Spud date  | Compl/ PB dates | Coal and black or dark-gray shale occurrences (depth in ft)                   |
|----------------|--|----------------|------------------|------------|-----------------|---|
| 452            | Burk Royalty Company, The Allar Company #2 (dry hole) (Allar Hunt field)<br>TE&L Co. Suv. Blk 3409, 224 Acres, 467 ft FEL, 1008 ft N of #1, 10 mi NE fr Southbend  | 1135 Est.      | 3607             | 4/3/1943   | 5/5/1943        | coal: 150<br>coal: 246<br>Sh, blk, hd: 2669                                   |
| 453            | Burk Royalty Company, W.D. Daws #1 (dry hole) (WC)<br>TE&L Co. Suv. Sec. 753, 320 Acres, 330 ft FEL & 330 ft FSL of Lse., 6 mi SW fr Profitt   |                | 2912             | 5/8/1954   | 5/16/1954       | lignite: 244  |
| 454            | Burk Royalty Company, Hulse #1 (dry hole) (WC)<br>TE&L Co. Suv. #762, 40 Ac., 330 ft FNL & 330 ft FEL of SW 40 Ac. of Suv., 5 mi NW fr Profitt   |                | 4889             | 5/22/1948  | 6/22/1948       | coal: 351<br>coal & Sh: 459<br>coal & Sh: 539                                 |
| 455            | Burk Royalty Company, McCLOUD #3 (oil prod) (Sewell field)<br>BS&F Suv., 732 ft N & W line   |                | 2271             | 4/13/1947  | 4/25/1947       | Sh, blk: 1065   |
| 456            | Burlingame & Mahan, C.C. Robinson #1 (dry hole)<br>TE&L Co. Suv. Abst. 489, Sec. 1650, 1690 ft FNL & 1740 ft FEL of Suv.   | 1309           | 450              | 6/13/1938  | 6/17/1938       | coal: 274<br>Sh, blk: 310<br>Sh, blk: 448                                     |
| 457            | Burma Petroleum Co., J.P. Dunagan #2 (oil prod) (N Young County field)<br>TE&L Co. Suv. Blk 163, 1700 ft FEL & 750 ft FSL  |                | 919              | 3/10/1941  | 3/19/1941       | Sh, blk: 919  |
| 458            | B.M. Burns, J.J. Perkins #1 (dry hole) (Young County field)<br>TE&L Co. Suv. Blk 252, A-499, 40 acres, 330 ft S & 330 ft E of NW cor., 2.5 mi E fr True  |                | 3202             | 1/16/1949  | 2/9/1949        | coal: 239   |
| 459            | B. Burns, M.G. Wells #1 (dry hole) (Young County field)<br>TE&L Co. Suv. Blk 206, Abst. 453, 330 ft E & 330 ft S of NW Cor. of S 1/2 TE&L Co. Suv. #206, 4.5 mi SE fr Oliney   |                | 5006             | 9/4/1946   | 9/30/1946       | coal: 241<br>coal: 370<br>coal: 391<br>coal: 1317                             |
| 460            | B. Burns, D. Wilson #3 (dry hole) (Young County field)<br>TE&L Co. Suv. Abst. 930, Sec. 1588, 320 Ac., 150 ft PVAL & 750 ft FNL, 2 mi NE of Spring Creek   |                | 1371             | 6/29/1955  | 6/30/1955       | coal: 1009  |
| 461            | B. Burns L.T. Burns Operator, W. T. Rogers #1 (oil prod) (N Young County field)<br>TE&L A-466, Blk 219, 150 ft S & E of NW Cor. Of E 40 ac of W 80 S 1/2 Suv. A-466, Blk 219 (Gunsite lime at 855 ft)                              |                | 877              | 10/2/1940  | 10/7/1940       | coal: 482   |
| 462            | B. Burns L.T. Burns Operator, W. T. Rogers #2 (oil prod) (N Young County field)<br>TE&L Suv. A-466, Blk 219, 150 ft S & 450 ft E of NW Cor. E 40 ac of W 80 S 1/2 Suv. A-466, Blk 219 (Gunsite lime at 855 ft)                     |                | 880              | 10/8/1940  | 10/8/1940       | coal: 477   |
| 463            | B. Burns L.T. Burns Operator, W. T. Rogers #3 (oil prod) (N Young County field)<br>TE&L A-466, Blk 219, 150 ft S & E of NW Cor. Of E 40 ac of W 80 S 1/2 Suv. (Gunsite lime at 855 ft)   |                | 880              | 10/11/1940 | 10/14/1940      | coal: 478   |
| 464            | L.T. Burns Operator for B. Burns, W. T. Rogers #4 (dry hole) (N Young County field)<br>TE&L Co. Suv., Blk 219, Abst. 466, 450 ft S & 150 ft E of NW Cor. Of E 40 of W 80 Ac. of S 1/2 Suv. #219 (lime G.S. at 857 ft)              |                | 919              | 12/28/1941 | 12/30/1941      | Sh, blk: 866  |
| 465            | B. Burns L.T. Burns Operator, W. T. Rogers #5 (oil prod) (N Young County field)<br>TE&L A-466, Blk 219, 750 ft E & 150 ft S of NW Cor. Of E 40 of W 80 ac S 1/2 Suv. A-466, 300m ft E of Well #2 (Gunsite lime at 843 ft)          |                | 882              | 10/14/1940 | 19/17/1940      | Sh & coal: 455<br>coal: 479   |
| 466            | B. Burns L.T. Burns Operator, W. T. Rogers #6 (oil prod) (N Young County field)<br>TE&L A-466, Blk 219, 750 ft E & 450 ft S of NW Cor. Of E 40 of W 80 of S 1/2 Suv. A-466, Blk 219, 300 ft S of #5 (Gunsite lime at 842 ft)       |                | 890              | 10/17/1940 | 10/20/1940      | coal: 476   |
| 467            | L.T. Burns, S.J. Allison #2 (dry hole) (Young County field)<br>TE&L Co. Suv., Blk 150, Abst. 397, 40 Ac., 1134.2 ft W & 938.2 ft S of NW Cor. Suv. #150, 330 ft N & W of SE Cor. 40 Ac Lse., 1.5 mi N of Orth                      |                | 3347             | 1/5/1945   | 1/28/1945       | coal: 460<br>S, Sh, coal stks: 909  |
| 468            | L.T. Burns, Trustee, R.O. Andrews #3 (oil prod)<br>TE&L Co. A-477, 300 ft E of Well #2 (lime G.S. at 844 ft)   | 1166 GL        | 920              | 1/25/1936  | 2/6/1936        | coal: 508<br>Sh, gr. dark: 540<br>Sh, blk: 840                                |
| 469            | L.T. Burns, Trustee, R.O. Andrews #4 (oil prod)<br>TE&L Co. Suv. Blk 1399, Abst. 477, 300 ft E of Well #3, or 586.6 ft W & 150 ft N of SE Cor. of lease (lime G.S. at 842 ft)  |                | 918              | 2/8/1936   | 2/21/1936       | Sh, blk: 515<br>Sh, blk: 839  |
| 470            | L.T. Burns, Trustee, R.O. Andrews #5 (oil prod)<br>TE&L Co. Suv. Blk 1399, Abst. 477, 150 ft E & 450 ft N of SW Cor. of lse or 300 ft N of Well #2 (lime GS at 852 ft)   |                |                  |            |                 | Sh, blk: 518<br>Sh, blk: 848  |
| 471            | L.T. Burns, Trustee, R.O. Andrews #7 (dry hole)<br>TE&L Co. Suv. Blk 1399, Abst. 477, 315 ft N & 115 ft E of Well #4, or 471.6 ft W & 465 ft N of SE Cor.  |                | 951              | 11/2/1936  | 11/20/1936      | Sh, blk: 250<br>Sh, blk: 435<br>Sh, blk: 517<br>Sh, dark: 705<br>Sh, blk: 841 |
| 472            | L.T. Burns, W.S. Bailey #1 (dry hole) (Young County field)<br>TE&L Co. Suv. Blk 60, Sec. A-336, 150 ft N & W of SE Cor. of W 1/2 of TE&L Co. Suv. #60, A-336, 0.5 mi W fr Orth   |                | 875              | 2/10/1941  | 2/12/1941       | Sh & coal: 445<br>coal: 520<br>Sh, blk: 610                                   |
| 473            | L.T. Burns, S.M.J. Benson Estate #1 (dry hole)<br>TE&L Co. Suv. Blk 1478, Abst. 904, 1500 ft N & 470 ft W of SE Cor. of 132 Ac. Lse., being E-132 Ac. of Suv.  |                | 956              | 3/13/1936  | 3/26/1936       | Sh, blk: 525<br>Sh, blk: 924  |
| 474            | L.T. Burns, S.M.J. Benson Estate #C-1 (dry hole)<br>TE&L Co. Suv. #1482, 800 ft N & 800 ft S of NE Corner  |                | 952              | 5/10/1936  | 5/24/1936       | coal: 510<br>Sh, blk: 864   |
| 475            | L.T. Burns, J.E. Bishop #1 (dry hole)<br>TE&L Co. Suv. Blk 162, Abst. 409, 80 Ac., 330 ft each way out of SW Cor. Of N 1/2 of TE&L Suv. #162   |                | 4957             | 12/20/1945 | 2/8/1946        | coal: 540<br>coal: 565  |
| 476            | L.T. Burns B.M. Burns, J.E. Bishop #2 (oil prod) (Crain-Kunkel field)<br>TE&L Co. Suv. Blk 162, Sec. A-409, 80 Ac., 330 ft FWL & 660 ft FSL of N/2 of Suv. #162  |                | 4912             | 8/17/1953  | 9/10/1953       | coal: 528<br>coal: 1533   |
| 477            | L.T. Burns, J.M. Bloodworth #1 (dry hole) (Young County field)<br>TE&L Co. Suv. Blk 210, Abst. 457, 1977 ft N & 150 ft N of SE Cor. Of Bloodworth Ld out Suv. #210   |                | 883              | 11/1/1940  | 11/4/1940       | coal: 464   |
| 478            | L.T. Burns, H.E. Bloodworth #1 (dry hole) (Young County field)<br>TE&L Co. A-461, Blk 214, 783 ft E & 150 ft S of NW Cor. Blk 24, Suv. A-461   |                | 903              | 2/16/1941  | 2/18/1941       | Sh & coal: 445<br>Sh & coal: 485<br>Sh & coal: 504                            |
| 479            | L.T. Burns, H.E. Bloodworth #2 (dry hole) (Young County field)<br>TE&L Co. A-464, Blk 217, 450 ft W & 150 ft N of SE Cor. of N 20 of E 40 of SW 80 Ac. Suv. 217 or 1416 ft E & 1083 ft N of SW Cor. Suv. (Gunsite lime @ 890.5 ft) |                | 952              | 5/4/1941   | 5/6/1941        | Sh & coal: 467<br>Sh, blk: 890  |
| 480            | L.T. Burns, J.M. Bloodworth (Shell) #2 (oil prod) (Young County field)<br>TE&L Co. Suv. Blk 210, 1330 ft W & 750 ft S of NE Cor. Bloodworth Land out Suv. #210 or 1330 ft W & 1332 ft S of NE Cor. of Suv. (G.S. lime @ 834 ft)    |                | 884              | 6/11/1941  | 6/14/1941       | Sh & coal: 475  |
| 481            | L.T. Burns, J.M. Bloodworth #3 (oil prod) (Young County field)<br>TE&L Co. Suv. Blk 210, A-457, 1330 ft W & 450 ft S of NE Cor.  |                | 885              | 1/16/1941  | 1/21/1941       | coal & Sh: 407  |
| 482            | L.T. Burns, J.M. Bloodworth (Shell) #4 (dry hole) (Young County field)<br>TE&L Co. Suv. Blk 210, A-457, 1330 ft W & 1050 ft S of NE Cor. TE&L Suv. A-457, Blk 210  |                | 929              | 1/13/1941  | 1/15/1941       | coal: 405<br>coal: 471<br>Sh & coal: 580                                      |
| 483            | L.T. Burns, J.M. Bloodworth-Shell #5 (oil prod) (Young County field)<br>TE&L Co. Suv. Blk 210, A-457, 1650 ft W & 450 ft S of NE Cor. of Bloodworth land out Suv. Blk 210  |                | 885              | 1/21/1941  | 1/25/1941       | coal: 417   |
| 484            | L.T. Burns, J.M. Bloodworth-Shell #7 (oil prod) (Young County field)<br>TE&L Suv. Blk 210, A-457, 1630 ft W & 150 ft S of NE Cor. Suv. A-467, Blk 210  |                | 887              | 1/28/1941  | 2/5/1941        | coal & Sh: 401<br>coal: 445   |
| 485            | L.T. Burns, J.M. Bloodworth #9 (oil prod) (Young County field)<br>TE&L Co. Suv. Blk 210, Ab. 457, 1930 ft W & 450 ft S of NE Cor. Bloodworth Ld. out of Suv. #210. 300 ft S of #8 (G.S. lime @ 834 ft)                             |                | 884              | 6/20/1941  | 6/23/1941       | coal: 465<br>Sh, blk: 832   |
| 486            | L.T. Burns, J.M. Bloodworth #10 (oil prod) (Young County field)<br>TE&L Co. Suv. Blk 210, 1630 ft W & 1332 ft S of NE Cor. Bloodworth Ld. (G.S. lime @ 832 ft)   |                | 883              | 6/17/1941  | 6/20/1941       | Sh & coal: 414<br>coal: 466<br>Sh, blk: 831                                   |
| 487            | L.T. Burns, J.M. Bloodworth #11 (oil prod) (Young County field)<br>TE&L Co. Suv. Blk 210, 1330 ft W & 750 ft S of NE Cor. of Bloodworth Ld. Out of TE&L Suv. #210 (G.S. lime @ 831 ft)   |                | 886              | 6/3/1941   | 6/5/1941        | coal: 460<br>Sh, blk: 830   |
| 488            | L.T. Burns, H. Braune #1 (dry hole)<br>TE&L Co. Suv. Blk 188, 150 ft N & 450 ft W of SE Cor. of NW 1/4 of Suv. 188   |                | 1259             | 5/2/1936   | 5/6/1936        | coal: 485<br>Sh, blk: 830<br>Sh, blk: 1167                                    |
| 489            | L.T. Burns, N. Brooks #1 (oil prod) (Williamson field)<br>TE&L Co. Suv. #299, Abst. 546, 467 ft each way out of SW Cor. of TE&L Co. Suv. #299  |                | 4952             | 6/22/1944  | 7/21/1944       | coal: 117   |
| 490            | L.T. Burns, N. Brooks #3 (dry hole) (Young County field)<br>TE&L Co. Suv. Blk 299, Abst. 546, 492 ft N & 492 ft E of SW Cor. Suv., 1.75 mi SW fr Jean  |                | 1420             | 10/2/1946  | 10/11/1946      | Sh & coal: 704<br>Sh, dark: 1403  |
| 491            | L.T. Burns, N. Brooks (Coalg) #1 (oil prod) (WC)<br>TE&L Co. Suv. Blk 169, Abst. 416, 330 ft N & W of SE Cor. of N1/2 of Suv. 169, 416, being 1537 ft S & 330 ft W of NE Corner f Suv.   |                | 4957             | 9/4/1945   | 10/13/1945      | coal: 526<br>coal: 646<br>coal: 989<br>coal: 1006<br>coal: 1555               |

| Occurrence No. | Well name / location   | Elevation (ft) | Total depth (ft) | Spud date  | Compl/ PB dates | Coal and black or dark-gray shale occurrences (depth in ft)  |
|----------------|--|----------------|------------------|------------|-----------------|--|
| 492            | L.T. Burns, Trustee, E. Burris #1 (dry hole) (WC)<br>TE&L Co. Suv. Blk 205, Abst. 452, 240 Ac., 660 ft N & 330 ft W of SE Cor. Suv. 205, 2.75 mi NE fr True  | 5035           | 5/7/1944         | 6/15/1944  |                 | coal: 249<br>coal: 344<br>Sh. blk: 1236                      |
| 493            | L.T. Burns, R. Campbell Est. #1-B (dry hole) (Young County field)<br>TE&L Co. Suv. Blk 1383, 80 Ac., 450 ft N & 750 ft W of NW Cor. S1/2 Suv. #1383  | 1074           | 10/21/1945       | 10/23/1945 |                 | Sh, sdy, coal str: 608<br>Sh & coal: 653<br>coal: 982        |
| 494            | L.T. Burns, R. Campbell #2 (oil prod)<br>TE&L Co. Suv. Blk 1484, 450 ft S & 500 ft W of NE Cor. of lease or 350 ft W of #1   | 920            | 3/8/1936         | 3/24/1936  |                 | Sh, blk: 911   |
| 495            | L.T. Burns, R. Campbell Est. "C" #1 (oil prod) (Young County field)<br>TE&L Co. Suv. Blk 1376, Abst. 264, 1300 ft E & 467 ft S of NW Cor. of Suv. 1376   | 4605           | 5/15/1947        | 6/15/1947  |                 | coal: 276  |
| 496            | L.T. Burns, R. Campbell Est. "E" #1 (oil prod) (Young County Regular field)<br>TE&L Co. Suv. Blk 1452, 430 Ac., 150 ft E & 450 ft S of NW Cor. of Blk 1452   | 899            | 6/8/1948         | 6/9/1948   |                 | coal: 488  |
| 497            | L.T. Burns, R. Campbell Est. "E" #2 (oil prod) (Young County Regular field)<br>TE&L Co. Suv. Blk 1452, Abst. 478, 430 Ac., 450 ft S & 450 ft E of NW Cor. of Suv. 1452, 300 ft E of #1                     | 953            | 6/11/1948        | 6/12/1948  |                 | coal: 488<br>Sh & coal: 553                                  |
| 498            | L.T. Burns, R. Campbell Est. "E" #3 (oil prod) (Young County Regular field)<br>TE&L Co. Suv. Blk 1452, 430 Ac., 750 ft S & 150 ft E of NW Cor. of Suv. #1452, 300 ft S of #1                               | 898            | 6/15/1948        | 6/16/1948  |                 | coal: 479  |
| 499            | L.T. Burns, R. Campbell Est. "E" #4 (oil prod) (Young County Regular field)<br>TE&L Co. Suv. Blk 1452 430 Ac., 1050 ft S & 150 ft E of NW Cor. of TE&L Suv. #1452, 300 ft S of #3                          | 898            | 6/18/1948        | 6/20/1948  |                 | coal: 477  |
| 500            | L.T. Burns, R. Campbell Est. "E" #5 (oil prod) (Young County Regular field)<br>TE&L Co. Suv. Blk 1452, Ab. 878, 430 Ac., 1350 ft S & 150 ft E of NW Cor. of TE&L Suv. #1452, 300 ft S of #4                | 8894           | 6/21/1948        | 6/22/1948  |                 | coal: 472<br>Sh, blk: 888                                    |
| 501            | L.T. Burns, R. Campbell Est. "E" #6 (oil prod) (Young field); TE&L Co. Suv. Blk 1452, Ab. 878, 430 Ac., 900 ft S & 750 ft E of NW Cor. of Suv. 1452, 5.5 mi E fr Olney (lime G.S. @ 902 ft)                | 1108           | 6/26/1948        | 6/29/1948  |                 | Sh, blk: 901   |
| 502            | L.T. Burns, R. Campbell Est. "E" #8 (oil prod) (Young County field)<br>TE&L Co. Suv. Blk 1452, 430 Ac., 1350 ft S & 450 ft E of NW Cor. Suv. of TE&L Co. Suv. #1452, 300 ft S of #7 (lime G.S. @ 891 ft)   | 900            | 7/8/1948         | 7/9/1948   |                 | Sh & coal stck: 875<br>Sh, blk: 887                          |
| 503            | L.T. Burns, R. Campbell Est. "E" #10 (dry hole) (Young County field)<br>TE&L Co. Suv. Blk 1452, Ab. 878, 430 Ac., 900 ft S & 750 ft E of NW Cor. of Suv. #1452, 5.5 mi E fr Olney (lime G.S. @ 902 ft)     | 950            | 7/13/1948        | 7/16/1948  |                 | Sh, blk: 891   |
| 504            | L.T. Burns, R. Campbell Est. "E" #11 (oil prod) (Young County field)<br>TE&L Co. Suv. Blk 1452, 430 Ac., 1200 ft S & 750 ft E of NW Cor. of TE&L Co. Suv. 1452   | 910            | 7/22/1948        | 7/23/1948  |                 | coal: 471<br>Sh, blk: 896                                    |
| 505            | L.T. Burns, R. Campbell Est. "E" #13 (oil prod) (Young County field)<br>TE&L Co. Suv. Blk 1452, Abst. 878, 1500 ft S & 750 ft E of NW Cor. Suv. #1452, 300 ft S of #11                                     | 908            | 7/26/1948        | 7/27/1948  |                 | Sh, blk: 900   |
| 506            | L.T. Burns, R. Campbell Est. "E" #14 (dry hole) (Young County field)<br>TE&L Co. Suv. Blk 1452, Ab. 878, 430 Ac., 1650 ft S & 450 ft E of NW Cor. Suv. #1452, 5.5 mi E fr Olney (lime GS at 892 ft)        | 950            | 7/30/1948        | 7/31/1948  |                 | coal: 470<br>Sh, blk: 890                                    |
| 507            | L.T. Burns, R. Campbell Est. "E" #17 (dry hole) (Young County field)<br>TE&L Co. Suv. Blk 1452, Sec A-878, 530 Ac., 330 ft FEL & 1950 ft FNL, 6 mi E fr Olney  | 984            | 3/8/1950         | 3/10/1950  |                 | Sh, blk: 912   |
| 508            | L.T. Burns, R. Campbell Est. "E" #18 (dry hole) (Young County field)<br>TE&L Co. Suv. Blk 1452, Sec A-878, 530 Ac., 1350 ft FNL & 330 ft FEL of Sec A-878, 6 mi E fr Olney                                 | 950            | 3/10/1950        | 3/11/1950  |                 | Sh, blk: 906   |
| 509            | L.T. Burns, J.D. Carpenter #9 (dry hole)<br>TE&L Co. Suv. Blk 1452, Abst. 411, Sec. 164, 50 ft N & 50 ft E of SW Cor. E 40 Ac. of N 80 Ac.<br>W1/2 of Suv. 164   | 935            | 7/18/1936        | 7/27/1936  |                 | Sh, blk: 450<br>Sh, blk: 465<br>Sh, blk: 540<br>Sh, blk: 875 |
| 510            | L.T. Burns, M.L. Christian #1 (oil prod)<br>TE&L Co. #255-256, Abst. 502-503, 1500 ft S of NE Cor. of Suv. 255, Abst. 502 & being in the EL of Suv. 255 & WL of 256  | 1122           | 4984             | 2/26/1944  | 4/6/1944        | Sh, blk: 1154  |
| 511            | L.T. Burns, M.L. Christian #2 (dry hole) (WC)<br>TE&L Co. #255, Abst. 502, 394 Ac., 920 ft S & 314 ft W of NE Cor. of Suv. #255, 660 ft NW of #1   | 2910           | 9/26/1944        | 10/9/1944  |                 | Sh, blk: 1167  |
| 512            | L.T. Burns, M.L. Christian #3 (oil prod) (WC)<br>TE&L Co. #255-56, 2160 ft S of NE Cor. of TE&L Co. Suv. 255, Abst. 502 & being in EL of Suv. 255 & the WL of Suv. 256                                     | 2603           | 10/13/1944       | 10/23/1944 |                 | Sh, blk: 1147  |
| 513            | L.T. Burns, M.L. Christian #4 (oil prod) (Burns-Ragland: Strawfield)<br>TE&L Co. Suv. Blk 256, Ab. 503, 1807 ft S & 572 ft E of NW Cor. of Suv. #256, 660 ft SE of #1, 660 ft NE of #3                     | 2603           | 10/31/1944       | 11/15/1944 |                 | coal: 292<br>coal: 444<br>Sh, blk, hd: 780<br>Sh, blk: 1145  |
| 514            | L.T. Burns, M.L. Christian #5 (oil prod) (WC)<br>TE&L Co. Suv. Blk 255, Ab. 502, 1650 ft S & 660 ft W of NE Cor. of Suv. #255, Abst. 502 & 150 ft S & 660 ft W of #1 well                                  | 2623           | 11/10/1944       | 11/30/1944 |                 | coal: 773<br>Sh, blk: 1155                                   |
| 515            | L.T. Burns, R. Clarke #1 (dry hole) (Young County field)<br>TE&L Co. Suv. Blk 212, Abst. 459, 450 ft N & 8 E of SW Cor. N 1/2 of TE&L Co. Suv. 212, Abst. 459  | 952            | 7/9/1941         | 7/10/1941  |                 | coal: 480<br>Sh, blk: 867                                    |
| 516            | L.T. Burns, J.P. Dunagan #1 (oil prod) (Young County field)<br>TE&L Co. Suv. Blk 170, Abst. 417, 330 ft W & 330 ft S of NE Cor. of TE&L Co. Suv. 170, Abst. 417  | 5240           | 12/13/1945       | 1/18/1946  |                 | Sh, blk: 1591  |
| 517            | L.T. Burns, J.P. Dunagan #1 #1 (dry hole) (WC)<br>TE&L Co. Suv. Blk 412, Ab. 619, 160 Ac., 330 ft FNL & 1263 ft FEL of Lse, 6 mi E fr Olney  | 5119           | 3/7/1951         | 3/21/1951  |                 | coal: 582  |
| 518            | L.T. Burns, C. Ellis #1 (oil prod) (Davis field)<br>TE&L Co. Suv. Blk 207, Abst. 207, 454 Ac., 1400 ft E & 330 ft S of NW Cor. S 1/2 Suv. #207   | 4865           | 10/4/1946        | 11/2/1946  |                 | coal: 420  |
| 519            | L.T. Burns, C. Ellis #4 (dry hole) (Young field)<br>TE&L Co. Suv. Blk 207, Ab. 207, 454 Ac., 160 Ac., 2000 ft E & 450 ft S of NW Cor. S 1/2 Suv. #207  | 775            | 10/23/1946       | 10/24/1946 |                 | Sh, blk: 750   |
| 520            | L.T. Burns, E.J. Ernest #1 (dry hole) (Young County field)<br>TE&L Co. Suv. Blk 64, Ab. #340, 300 Ac., 450 ft FWL & 1650 ft FSL of TE&L Suv. #65 (G.S. lime at 905 ft)                                     | 1120           | 8/13/1946        | 8/16/1946  |                 | Sh & coal stck: 632<br>Sh, blk: 994                          |
| 521            | L.T. Burns, S.J. Furr #1 (dry hole)<br>TE&L Co. Suv. Blk 37, Abst. 313, 1080 ft S & 1466 ft W of NE Cor. of S 200 Ac.<br>(lime Gunsite at 702 ft)  | 1137           | 788              | 3/18/1935  | 3/27/1935       | coal: 193<br>coal: 375<br>Sh, blk: 698                       |
| 522            | L.T. Burns, Gass Estate #1 (dry hole) (Young County field)<br>TE&L Co. Suv. Blk 1592, Abst. 934, 133.2 Ac., 660 ft S & 660 ft E of NW Cor. Suv. 1592, 5 mi SE fr Megargel (Palo Pinto lime at 2797 ft)     |                | 1/7/1914         | 8/7/1943   | 10/19/1943      | coal: 840<br>Sh, blk, hd: 1170                               |
| 523            | L.T. Burns, I.B. Griffin #1 (dry hole)<br>TE&L Co. Suv. Blk 75, Abst. 351, 1325.6 ft N & W of SE Cor. of Suv. 75, Abst 351, or 150 ft S & E of NW Cor. Lime G.S. at 1032 ft                                | 1232 DF        | 1150             | 10/31/1935 | 11/6/1935       | Sh, blk: 751   |
| 524            | L.T. Burns, G.B. Hamilton Estate #1-A (dry hole)<br>TE&L Co. Suv. Blk 1, 1670 ft W & 942 ft N of SE Cor. of Suv. 1393, (lime GS at 852 ft)   | 974            | 5/27/1936        | 6/9/1936   |                 | Sh, blk: 510<br>Sh, blk: 850                                 |
| 525            | L.T. Burns, G.B. Hamilton Est. #B-1 (dry hole)<br>TE&L Co. Suv. Blk 3401, 557.5 ft W & 1182.7 ft N of SE Cor. of 163 Ac. of Block 3401   | 997            | 2/7/1937         | 2/15/1937  |                 | Sh, blk: 430<br>Sh, blk: 864                                 |
| 526            | L.T. Burns, C.E. Howard #1 (dry hole) (Burns-Ragland field)<br>TE&L Co. Suv. Blk 246, Abst. 493, 80 Ac., 467 ft N & 467 ft W of NE Cor. of Suv. #246, Abst. 493, 4 mi W fr Jean                            | 4969           | 4/10/1946        | 5/20/1946  |                 | coal: 1218   |
| 527            | L.T. Burns, W.B. Howard #1 (dry hole)<br>TE&L Co. Suv. Blk 1480, Abst. 906, 225 Ac., 1000 ft E & 750 ft S of NW Cor. of Suv. #1480, Abst. 906  | 984            | 12/13/1938       | 12/21/1938 |                 | Sh, blk: 478<br>Sh, blk: 545<br>Sh, blk: 552<br>Sh, blk: 891 |
| 528            | L.T. Burns, W.B. Howard #2 (oil prod) (Young County field)<br>TE&L Co. Suv. Blk 1480, Abst. 906, 225 Ac., 600 ft N & 150 ft W of SE Cor. TE&L Co. Suv. #1480   | 907            | 6/11/1946        | 6/13/1946  |                 | Sh & coal: 555   |
| 529            | L.T. Burns, C.F. Kunkel #1 (oil prod) (Young County field)<br>TE&L Co. Suv. Blk 1469, Abst. 416, 160 Ac., 330 ft S & 330 ft W of NE Cor. S 1/2 of Suv. #169, 2.75 mi SW fr Olney                           | 4904           | 10/17/1945       | 11/10/1945 |                 | coal: 545<br>coal: 575                                       |
| 530            | L.T. Burns, C.F. Kunkel #1-A (oil prod) (Young County field)<br>TE&L Co. Suv. Blk 1469, Abst. 416, 480 ft S & 330 ft W of NE Cor. S 1/2 of TE&L Co. Suv. 169, 150 ft S of Well #1                          | 4898           | 11/24/1945       | 12/27/1945 |                 | coal: 545  |
| 531            | L.T. Burns, E.J. Larimore #1 (oil prod) (Young County field); TE&L Co. Suv. A-457, Blk 210, 207 ft W & 150 ft S of NE Cor. A-457, Blk 210 (Gunsite lime at 830.5 ft)                                       | 876            | 10/28/1940       | 10/31/1940 |                 | coal: 476  |
| 532            | L.T. Burns, E.J. Larimore #2 (oil prod)<br>TE&L Co. A-457, Blk 210, 207 ft W & 450 ft S of NE Cor. A-457, Blk 210 or 1656 ft E & 384 ft N of SW Cor. Blk 210, 300 ft S of #1 Well (Gunsite lime at 829 ft) | 878            | 11/5/1940        | 11/7/1940  |                 | coal: 475  |
| 533            | L.T. Burns, E.J. Larimore #3 (dry hole) (Young County field)<br>TE&L Co. A-457, Blk 210, 177 ft W & 300 ft S of Larimore Ld out of Suv. A-457, Blk 210 (Gunsite lime at 827.5 ft)                          | 900            | 1/1/1941         | 1/3/1941   |                 | coal: 401<br>coal: 467                                       |
| 534            | L.T. Burns, E.J. Larimore #4 (oil prod) (Young County field)<br>TE&L Co. A-457, Blk 210, 2377 ft W & 450 ft S of Larimore Ld out of TE&L Suv. A-457, 300 ft W of #2  | 878            | 1/6/1941         | 1/9/1941   |                 | coal: 474  |

| Occurrence No. | Well name / location   | Elevation (ft) | Total depth (ft) | Spud date  | Compl/ PB dates | Coal and black or dark-gray shale occurrences (depth in ft)  |
|----------------|--|----------------|------------------|------------|-----------------|--|
| 535            | L.T. Burns, E.J. Larimore #5 (oil prod) (Young County field)<br>TE&L Suv. Blk 210, 2377 ft of El & 150 ft S of NL, A-457, Blk 2210, 300 ft W of #1   |                | 879              | 1/9/1941   | 1/12/1941       | coal: 474  |
| 536            | L.T. Burns, E.J. Larimore #6 (oil prod) (Young County field)<br>TE&L Suv. Blk 2677 ft W & 450 ft S of Larimore Ld out TE&L Co. Suv. 210, 300 ft W of Well #4 (Gunsight lime at 342.5 ft)                                 |                | 875              | 5/14/1941  | 5/26/1941       | Sh & coal: 475   |
| 537            | L.T. Burns, E.J. Larimore #7 (dry hole) (Young County field)<br>TE&L Co. Abst. 457, Blk 210, 2977 ft W & 450 ft S of Larimore Ld out TE&L Co. Suv. #210, 300 ft W of Well #5 (G.S. lime at 832 ft)                       |                | 887              | 7/15/1941  | 7/17/1941       | coal: 477<br>coal: 571   |
| 538            | L.T. Burns, E.J. Larimore #1-A (oil prod) (Young County field)<br>TE&L Co. Suv. Blk 150, Ab. 397, 500 ft S & E of NW Cor. of E 200 Ac. Suv. 150, being 1833 ft W & 500 ft S of NE Cor. of said Survey (limeGS at 885 ft) |                | 4927             | 3/14/1941  | 4/12/1941       | coal: 1412   |
| 539            | L.T. Burns Estate, E.J. Larimore #A-5 (dry hole) (Orth-Caddo field)<br>TE&L Co. Sur. Abst. 397, Blk 150, 200 ac., 330 ft FSL & 330 ft FEL of Sur., 0.75 mi N fr Orth   |                | 4969             | 1/8/1955   | 1/25/1955       | coal: 248  |
| 540            | L.T. Burns, Larimore Estate #2 (oil prod) (Young County field)<br>TE&L Co. Sur. Blk 253, Sec. A-500, 320 acres, 660 ft N & 902 ft E of SW cor 320 acres  |                | 2872             | 2/11/1949  | 2/19/1949       | coal: 239  |
| 541            | L.T. Burns, Larimore Est. #3 (dry hole) (Young County field)<br>TE&L Co. Sur. Blk 253, Sec. A-500, 320 acres, 400 ft E & 1252 ft N of SW cor of sur., 1.5 mi SE fr True  |                | 2906             | 2/21/1949  | 2/28/1949       | coal: 237<br>coal: 1140  |
| 542            | L.T. Burns, Larimore Est. #4 (dry hole) (Young County field)<br>TE&L Co. Sur. Blk 253, A-500, 1474 ft E & 990 ft N of SW cor., being 660 ft NE of #2, 1.5 mi SE fr True  |                | 2880             | 3/27/1949  | 4/6/1949        | coal: 95<br>coal: 252<br>Sh & coal: 470<br>coal: 811<br>coal slate: 1401   |
| 543            | L.T. Burns, C.D. Leberman #1 (dry hole) (WC)<br>TE&L Co. Sur. Blk 271, Abst 518, 320 Ac., 1650 ft FEL & 1866 ft FNL of Lse., 2 mi SE fr True   |                | 3164             | 9/15/1953  | 9/21/1953       | coal & Sh, sdy: 2867   |
| 544            | L.T. Burns, H.L. Leberman Jr. #2 (oil prod) (Young County field)<br>TE&L Co. Sur. Blk 253, Sec. A-500, 320 acres, 660 ft N & 902 ft E of Well #1   |                | 889              | 5/17/1941  | 5/27/1941       | coal: 475  |
| 545            | L.T. Burns, H.L. Leberman Jr. #3 (dry hole)<br>TE&L Co. Sur. Blk 210, 432 ft S & 1862 ft W of NE Corner Suv. #210, 750 ft E of Well #1 (Gunsight lime at 825.5 ft)   |                | 952              | 5/28/1941  | 5/31/1941       | Sh, blk: 825   |
| 546            | L.T. Burns, H.L. Leberman Jr. #4 (oil prod) (Young County field)<br>TE&L Co. Sur. A-457, Blk 210, 432 ft S & 1262 ft W of NE Corner Suv. #210 (Gunsight lime at 831 ft)  |                | 889              | 5/31/1941  | 6/3/1941        | coal: 479<br>Sh, blk: 830  |
| 547            | L.T. Burns, D. Logan #1 (oil prod) (Burns-Ickert field)<br>I. Holman Crawford Past. Subd. Blk 18 (W 1/2) 467 ft FVL & 410 ft FNL W 1/2 Blk 18  | 1259           | 4650             | 6/3/1944   | 7/11/1944       | coal & Sh stks: 890  |
| 548            | L.T. Burns, R.J. McCloud #1 (dry hole)<br>TE&L Co. Sur. Abst. 857, Sec. 1395, 700 ft E & 300 ft N of SW Cor. N 30 Ac. of W 60 Ac. S 160 Ac. TE&L Suv.  |                | 927              |            |                 | Sh, dark: 314<br>Sh, blk: 430<br>Sh, blk: 508<br>Sh, dark: 580<br>Sh, dark: 820<br>Sh, blk: 825<br>Sh, dark: 856   |
| 549            | L.T. Burns, S.A. Morris #3 (dry hole) (Burns Ragland 3200 Strawfield)<br>TE&L Co. Sur. Blk 256, Abst 505, 160 Acres, 330 ft FEL & 330 ft FNL   |                | 3163             | 11/26/1953 | 12/1/1953       | Sh, blk: 1160  |
| 550            | L.T. Burns, G.M. Morrison #1 (oil prod) (Burns Ragland field)<br>TE&L Co. Sur. Blk 246, Sec. A-493, 1400 ft E & 467 ft N of SW Cor. Suv. #246, Abst. 493   |                | 4031             | 9/18/1941  | 10/9/1941       | coal: 225  |
| 551            | L.T. Burns, G.M. Morrison #3 (dry hole) (Burns Ragland Strawfield)<br>TE&L Co. Sur. Blk 256, 160 Ac., 330 ft W & 330 ft N of SE Cor. of Suv. #246, Abst. #493, 2.5 mi NE fr True   |                |                  |            |                 | coal & Sh: 129<br>coal: 274<br>Sh, blk: 1184<br>Sh, blk: 1237  |
| 552            | L.T. Burns, H.M. Orr #1 (dry hole)<br>TE&L Suv. Blk 631, 160 acres, 150 ft fr N & W lines of E 1/2, 160 acres.   |                | 653              | 4/22/1932  | 4/29/1932       | coal: 162  |
| 553            | Burns Oil Company, J.L. Rhodes #1 (dry hole)<br>B.F. Kutch Suv. Abst. 133, 505 ft FSL & 851 ft fr E & W of S 40 acres.   |                | 4123             | 11/7/1939  | 1/6/1040        | Sh, blk: 200<br>Sh, blk: 484   |
| 554            | L.T. Burns, C.H. Rogers #1 (oil prod) (Burns Ragland Miss., Lime field)<br>TE&L Co. Sur. #290, Abst. 537, 495 ft N & 495 ft E of SW Cor. of N 50 Ac. Suv. #290, being 89 ft S & 495 ft E of NW Cor. Suv.                 |                | 4881             | 2/13/1943  | 3/22/1943       | coal: 1232   |
| 555            | L.T. Burns, C.H. Rogers #3 (dry hole) (Burns Ragland Strawfield)<br>TE&L Co. Sur. #290, Sec. A-537, 190 acres, 330 ft FSL, 660 ft SE of #1, 2.5 mi NE fr True  |                | 3006             | 4/14/1949  | 4/25/1949       | coal: 117<br>coal: 1232  |
| 556            | L.T. Burns, W.T. Rogers #12 (dry hole) (Rogers Pool field)<br>TE&L Co. Sur. A-466, Sec. 219, 750 ft E & 1350 ft S of NW Corner of Ise., 1.5 mi SE fr Dolley (Gunsight lime at 880.5 ft)                                  |                | 917              | 4/21/1941  | 4/26/1941       | coal: 482  |
| 557            | L.T. Burns, W.A. Rushing #1 (oil prod)<br>TE&L Co. Sur. Blk 3401, 1100 ft N & 1000 ft E of the SW Cor of lease (lime GS at 901 ft)   |                | 903.5            | 2/23/1936  | 3/8/1936        | Sh, blk: 458<br>Sh, blk: 469<br>coal: 546<br>Sh, blk: 896  |
| 558            | L.T. Burns, W.A. Rushing #2 (oil prod)<br>TE&L Co. Sur. Blk 3401, 300 ft E & 162 ft S of Well #1 (lime GS at 891 ft)   |                |                  |            |                 | Sh, dark: 550<br>Sh, blk: 886  |
| 559            | L.T. Burns, W.A. Rushing #3 (oil prod)<br>TE&L Co. Suv. Sec. Fraction B, Blk 3401, 914 ft E & 813 ft N of most southerly SW Cor. TE&L Co. Suv. 3401 (lime GS at 897 ft)  |                | 907              | 8/2/1936   | 8/13/1936       | Sh, dark: 300<br>Sh, blk & coal: 474<br>Sh, blk: 480<br>coal: 494<br>Sh, blk: 544<br>coal & Sh, blk: 550<br>Sh, blk: 880<br>Sh, blk: 892.5               |
| 560            | L.T. Burns, W.A. Rushing #4 (oil prod)<br>TE&L Co. Suv. Blk 3401, 614 ft E & 951 ft N of most southerly SW Cor. of Suv. 3401, Fraction B (lime GS at 896 ft)   |                | 906              | 8/16/1936  | 8/26/1936       | Sh, blk: 463<br>Sh, blk: 473<br>coal: 474<br>coal: 560<br>Sh, blk: 890   |
| 561            | L.T. Burns, W.A. Rushing #5 (oil prod)<br>TE&L Co. Suv. Blk 3401, 651 ft N & 614 ft E of most southerly SW Cor. of Suv. 3401, Frac. B (lime GS at 895.5 ft)  |                | 908.5            | 9/3/1936   | 9/15/1936       | Sh, blk: 473<br>Sh, blk: 480<br>coal: 494<br>Sh, blk: 550<br>coal: 558<br>Sh, blk: 898   |
| 562            | L.T. Burns, W.A. Rushing #6 (oil prod)<br>TE&L Co. Sur. Blk 3401, 1214 ft E & 651 ft N of most southerly SW Cor. Suv. 3401, Fraction B, or 301 ft (?) of Well #2 (lime GS at 902 ft)                                     |                | 917              | 9/14/1936  | 10/2/1936       | Sh, blk: 466<br>Sh, blk: 500<br>Sh, blk & coal: 564<br>Sh, dark: 894<br>Sh, blk: 896   |
| 563            | L.T. Burns, W.A. Rushing #7 (oil prod)<br>TE&L Co. Suv. Blk 3401, Fract. B, 614 ft E & 1251 ft N of most southerly SW Cor. of Suv. 3401, 300 ft N #4 (lime GS at 897 ft)   |                | 906              | 10/6/1936  | 10/17/1936      | Sh, blk: 290<br>Sh, blk: 468<br>Sh, blk & coal: 481<br>Sh, blk: 512<br>coal: 550<br>Sh, blk & coal: 560<br>Sh, dark: 635<br>Sh, blk: 775<br>Sh, blk: 890 |
| 564            | L.T. Burns, W.A. Rushing #8 (oil prod)<br>TE&L Co. Suv. Blk 3401, 914 ft E & 1413 ft N of most southerly SW Cor. Suv. 3401, Frac. B, or 300 ft N Well #1 (lime GS at 896 ft)   |                | 906.5            | 10/19/1936 | 10/31/1936      | Sh, blk & coal: 468<br>Sh, blk: 477<br>coal: 478<br>coal: 550<br>Sh, blk: 660<br>Sh, blk: 898  |
| 565            | L.T. Burns, W.A. Rushing #10 (oil prod)<br>TE&L Co. Suv. Blk 3401, Frac. B, 314 ft E & 1101 ft N of most southerly SW Cor. of Suv. 3401 (lime GS at 896 ft)  |                | 905.5            | 5/29/1937  | 6/8/1937        | Sh, dark: 290<br>Sh, blk: 294<br>Sh, blk: 460<br>Sh, blk: 470<br>Sh, dark: 628<br>Sh, blk: 720<br>Sh, blk: 892<br>Sh, blue & dark: 725<br>Sh, blk: 890   |

| Occurrence No. | Well name / location   | Elevation (ft) | Total depth (ft) | Spud date  | Compl/ PB dates | Coal and black or dark-gray shale occurrences (depth in ft)  |
|----------------|--|----------------|------------------|------------|-----------------|--|
| 566            | L.T. Burns, W.A. Rushing #11 (oil prod)<br>TE&L Co. Suv. Blk 3401, Sec. Fr-B, 1214 ft E & 1251 ft N of most southerly SW Cor. Suv. 3401, 300 ft N of #2 (lime G.S. at 895 ft)                          |                | 902              | 6/14/1937  | 6/25/1937       | coal: 461<br>Sh. blk: 538<br>Sh. dark: 547<br>Sh. blk: 890   |
| 567            | L.T. Burns, L. Williams #1 (oil prod) (Young County Burns Ragland field)<br>TE&L Co. #257, 467 ft S & 1436 ft W of NE Cor. of TE&L Suv. #257, 2.5 mi N & E fr True                                     |                | 5014             | 10/21/1941 | 7/27/1942       | coal: 317<br>coal & Sh. blk: 1183<br>coal: 1211  |
| 568            | L.T. Burns, L. Williams #2 (oil prod) (Burns Ragland-Mississippi Lime field)<br>TE&L Co. Blk 257, Ab. 504, 1400 ft S & 467 ft W of NE Cor. of TE&L Suv. 257, Ab. 504                                   | 1187           | 4895             | 4/19/1944  | 5/17/1944       | coal: 251<br>coal: 1208  |
| 569            | L.T. Burns, D.L. Wolf #1 (dry hole) (Young County field)<br>TE&L Co. Blk 297, Abst #544, 160 Ac., 450 ft W & 150 ft S of NE Cor. of S 1/2 of Suv. #297, 3 mi NW fr Jean (lime G.S. at 683 ft)          |                | 750              | 2/4/1948   | 2/11/1948       | Sh. blk: 456<br>Sh. blk: 682   |
| 570            | L.T. Burns & E.M. Stilley, J.D. Spencer #1 (dry hole)<br>TE&L Co. Suv., Blk 1396, Abst. 854, 1869 ft W & 150 ft N of SE Cor. of N 160 Ac. (lime G.S. at 795 ft)  |                | 864              | 6/20/1936  | 6/29/1936       | Sh. blk: 214<br>Sh. blk: 371<br>Sh. blk: 788   |
| 571            | P.C. Burns, A.B. Bernhardt #1 (dry hole) (WC Young County field)<br>TE&L Co. Suv., Blk 238, 150 ft N & W lines S 40 Ac. of E 60 Ac. of S. 160 Ac. of Blk 238 (G.S. lime at 987 ft)                     | 1218           | 1068             | 6/24/1941  | 6/27/1941       | Sh. dark: 986  |
| 572            | P.C. Burns, J.M. Blackwelder #1 (dry hole)<br>TE&L Co. Suv., Blk 210, 50 Ac., 150 ft S & E lines S 50 Ac. Tr., 150 ft fr S & E lines, 4 mi S fr Olney (G.S. lime at 820 ft)                            | 1166           | 871              | 7/12/1941  | 7/16/1941       | coal: 467<br>Sh. blk: 819  |
| 573            | P.C. Burns, R. Campbell #4 (oil prod) (North Young Dist. 9)<br>TE&L Co. Suv., Blk 231, Abst. #478, 450 ft S & 150 ft W of NE Corner Blk #231, Abst. 478  |                | 1000             | 9/28/1940  | 10/1/1940       | coal: 620  |
| 574            | P.C. Burns, F. Clark #1 (dry hole) (Young County field)<br>TE&L Co. Suv., Blk 218, 40 Ac., 1050 ft S & 150 ft WL, 3 mi SE fr Olney (G.S. lime at 887 ft)   |                | 929              | 5/7/1941   | 5/10/1941       | Sh & coal: 439<br>Sh. blk: 886.5   |
| 575            | P.C. Burns, E.J. Larimore #1 (oil prod) (Young County Regular field)<br>TE&L Co. Suv., Blk 210, 196 Ac., 850 ft FNL & 2400 ft FEL of 196 Ac. (G.S. lime at 833 ft)                                     |                | 885              | 4/30/1960  | 5/1/1960        | Sh & coal: 405   |
| 576            | Burris & Jackson Drilling Co., D.L. Bishop #1 (dry hole) (Young County field)<br>TE&L Co. Suv., Blk 1593, 92.53 ac., 150 ft FEL & 150 ft FNL of Lse., 7 mi W fr Olney (G. S. lime at 833 ft)           |                | 1225             | 8/4/1953   | 8/6/1953        | Sh. sdy. coal: 810<br>Sh. coal: 840<br>Sh. sdy. coal: 922<br>Sh. blk: 1217                           |
| 577            | Burris & Jackson Drilling Co., Gadberry #1 (dry hole) (Young County Regular field)<br>TE&L Co. Suv., Blk 227, 79 ac., 450 ft FEL & 450 ft FSL of Lse., 79 ac., 3 mi SE fr Olney (G S lime at 962 ft)   |                | 981              | 8/18/1954  | 8/20/1954       | Sh. coal: 512<br>Sh. coal: 690<br>Sh. blk: 954<br>Sh. dk gray: 960                                   |
| 578            | Burris & Jackson, E. McClatchy #1 (dry hole) (Young County field)<br>BBB&C, Abst. 419, Blk 172, 40 Ac., 450 ft FNL & FWL of 40 Ac., 2 mi SW of S of Olney  |                | 1111             | 3/28/1956  | 3/30/1956       | Sh & coal: 471<br>Sh & coal stks: 800<br>Sh. dk gray: 920<br>Sh. blk: 1100                           |
| 579            | Burris & Jackson, R.C. Self #1 (dry hole) (Young County field)<br>TE&L Co. Suv., Blk 75, 160 Ac., 462 ft fr S & EL of SE/4 of SW/4 of Blk 75, 6 mi SW of Olney   |                | 1095             | 7/27/1955  | 7/28/1955       | Sh & S & coal: 736<br>Sh. qy & coal stks: 795<br>coal & Sh. 891<br>Sh. blk: 1067                     |
| 580            | R.H. Busby et al., Cusenberry (Cusenberry) #1 (oil prod) (WC); Young County Sch.<br>Land Sur., Blk 18, Sec. A-1285, 160 Ac., 1030 ft N of SL & 330 ft W of El, in Murray                               |                | 3664             | 6/9/1955   | 6/20/1955       | coal: 191  |
| 581            | R.H. Busby et al., J. Latimer #1 (dry hole) (Murray field)<br>Young County Sch. Land Sur., Blk 17, Sec. A-1285, 136.5 Ac., 467 ft FWL & 1263 ft FNL of lease   |                | 3678             | 8/9/1954   | 8/24/1954       | coal: Sh: 236  |
| 582            | G.T. Buskirk, F.U. Powell #1 "dry hole" (WC)<br>TE&L Blk 1588, 80 Ac., 250 ft FNL & 150 ft FEL, 4.5 mi S & 0.5 mi E of Megargel (G S lime at 1348 ft)  |                | 1350             | 4/7/1956   | 4/9/1956        | coal: 932<br>Sh. blk: 1344   |
| 583            | F.E. Butler, J.L. Boone #1 (dry hole) (N Young field)<br>BBB&C Suv., 80 Ac., 1/4 of Tr., distance from lines not given, 3 mi N fr Loving   |                | 532              | 12/9/1941  | 12/22/1941      | coal: 152  |
| 584            | F.E. Butler et al., W.H. Clarendon #1 (dry hole)<br>L.E. Hardin Suv., Abst #1682, well located in NW Corner of 40 Ac   |                | 645              | 11/19/1933 | 12/10/1933      | coal: 170<br>coal: 225<br>Sh. blk: 580   |
| 585            | F.E. Butler, L.R. Davis #1 (dry hole)<br>G&BN Co. #4 Suv., 80 Acres, 750 ft FNL, 150 ft FEL  |                | 804              | 3/30/1937  | 5/22/1937       | Sh. blk: 300<br>Sh. blk: 378<br>Sh. blk: 470<br>Sh. blk: 780   |
| 586            | F.E. Butler et al., W.H. Dyer #1 (dry hole)<br>L.E. Hardin Suv., 150 ft each way fr NE Cor. Of L.E. Hardin Survey  |                | 632              | 8/2/1934   | 8/19/1934       | Sh. blk & brn: 130<br>Sh. blk: 215<br>Sh. blk: 560   |
| 587            | F.E. Butler, R. C. Howard #1 (dry hole)<br>TE&L Co. Suv., Blk 243, 150 ft each way fr SE Cor. N 160 Ac. Blk 243  |                | 800              | 8/27/1931  | 9/6/1931        | Sh. blk: 110<br>coal: 260<br>Sh. blk: 290<br>Sh. blk: 342  |
| 588            | F.E. Butler et al., C.W. Johnson Estate #1 (dry hole)<br>E.W. Sergeant Suv. Abst. 253, 150 ft FEL & 450 ft FNL of Middle 60 Ac of E 120 Ac. S 200 Ac.  |                | 555              | 4/14/1936  | 4/24/1936       | coal: 100<br>Sh. blk: 467  |
| 589            | F.E. Butler, R. E. Jones #1 (dry hole)<br>Susan Salle Suv., Blk 252, 40 Ac., 450 ft FSL & 450 ft FWL 40 Ac.  |                | 631              | 8/23/1933  | 9/1/1933        | coal: 30<br>Sh. blk: 205   |
| 590            | F.E. Butler, W.R. Ledbetter #1 (dry hole)<br>Sylvia Tynes Suv., Abst. 274, 40 Ac., 150 ft FWL & 200 ft FSL   |                | 600              | 2/20/1935  | 3/8/1935        | coal: 85<br>Sh. blk: 425   |
| 591            | F.E. Butler et al., E. Bernhardt #1 (dry hole)<br>TE&L Co., Blk 235, 150 ft fr N & W lines, 40 Ac. Tr., NE 1/4 Sec.  |                | 1042             | 7/13/1936  | 8/27/1936       | Sh. blk: 590<br>Sh. blk: 680   |
| 592            | Butler et al., W.R. Farmer et al. #1 (dry hole)<br>John Anderson Suv., 150 ft E of center of WL  |                | 1102             | 12/11/1929 | 1/5/1930        | Sh. blk: 1000  |
| 593            | F.E. Butler, R.O. Pridéaux #1 (dry hole)<br>A. McMullen Suv., Blk 198, 196 ft FNL & 150 ft FEL, 20 Ac.   |                | 800              | 8/18/1938  | 9/7/1938        | Sh. blk: 335<br>Sh. blk: 426<br>(Sh.), blk: 515<br>(Sh.), blk: 748                                   |
| 594            | Butler Calhoun & Suyton, S.M.J. Benson Estate #2 (oil prod)<br>TE&L Co. Suv., Blk 1388, 150 ft fr S & E lines, S 40 Ac., W 100 Ac., E 200 Ac. S 250 Ac. of 320 Ac. Tr.                                 |                | 937              | 5/15/1938  | 5/30/1938       | Sh. blk: 472<br>Sh. blk: 552<br>Sh. blk: 892   |
| 595            | Butler & McAlister, J.K. Thomas #1 (oil prod)<br>TE&L Co. Survey, 150 ft fr S & W lines  | 1201           | 1002             | 3/26/1929  | 4/13/1929       | Sh. dark: 540<br>Sh. blk: 575<br>Sh. blk: 660<br>Sh. blk: 999  |
| 596            | Buttram & Newby, Ferguson #1 (dry hole)<br>L.W. Smith Suv., 160 Ac., 788 ft FNL & 150 ft FEL, 3 mi S fr Markley  |                | 590              | 7/1/1941   | 7/20/1941       | Sh. blk: 380   |
| 597            | Buttram & Newby, Ferguson #1 (dry hole) (WC)<br>S. Thynes Suv., 209 Acres, 622 ft S. 1.125 ft West line, 3 mi S fr Markley   |                | 563              | 6/13/1941  | 6/25/1941       | Sh. blk: 40<br>Sh. blk: 385  |
| 598            | C.C. Butts, R.E. Daily #1 (Young County Regular field)<br>TE&L Co. Survey, Blk 167, 150 ft FEL & 450 ft FSL  |                | 902              | 11/3/1949  | 11/4/1949       | coal & slate: 328<br>coal: 552   |
| 599            | C.C. Butts, G. Evans #1 (dry hole) (WC)<br>TE&L Co. Suv., Blk 70, 80 acres, 750 ft FWL & 1050 ft FSL of Blk 70, 7 mi W fr Olney<br>(Crystal Falls sd at 873 ft; Breckinridge lime at 965 ft)           |                | 1308             | 5/18/1950  | 5/20/1950       | Sh. blk & slate: 850<br>coal & slate: 886<br>Sh. blk & lime shell: 1260<br>State. blk. hd: 1266      |
| 600            | C.G. Butts, G. Rice #2 (dry hole) (Young County Area field)<br>I. Holman Sur., Sec. A-130, 20 acres, 750 ft FWL & 150 ft FNL of Ise., 7 mi W fr Olney  | 1267           | 1296             | 3/8/1949   | 3/10/1949       | Sh. blk: 1251  |
| 601            | C.G. Butts, L. Smith #1 (dry hole) (WC)<br>TE&L Co. Suv. Blk 1365, 40 acres, 150 ft fr N & E lines of Ise., 7 mi SE fr Olney (G S lime at 832 ft)  |                | 917              | 6/20/1950  | 6/22/1950       | coal: 434<br>Sh. blk & coal: 476<br>coal: 480<br>Sh. blk: 831  |
| 602            | C.G. Butts & C.V. Morgan, M.U. Howard #1 (dry hole) (Young County North field); TE&L Co. Suv., Blk 1459, Sec. 1459, 54.8 acres, 450 ft fr S & E Ins., 6 mi SE fr Olney (G S lime at 784 ft)            |                | 834              | 1/18/1950  | 1/19/1950       | Sh. blk: 782   |
| 603            | C.G. Butts & C.V. Morgan, W.G. Leaman #2 (dry hole) (North Young County field); TE&L Co. Survey, Blk 154, Sec. 154, 254 Acres, 150 ft FWL & 450 ft FNL of Ise., 1 mi SW fr Olney (G.S. lime at 999 ft) | 1246           | 1032             | 1/7/1951   | 1/8/1951        | coal, Sh & slate: 356<br>coal: 365<br>coal: 386<br>coal: 605<br>Sh. blk: 998<br>Sh. blk & coal: 1016 |

| Occurrence No. | Well name / location  | Elevation (ft) | Total depth (ft) | Spud date | Compl; PB dates | Coal and black or dark-gray shale occurrences (depth in ft)  |
|----------------|---|----------------|------------------|-----------|-----------------|--|
| 595            | C.G. Butts & C.V. Morgan, S.P. Ligon et al., #1 (oil prod) (Young County Regular field)<br>TE&L Surv., Block 1998, Sec. 1998          |                | 3599             | 3/1/1958  | 3/10/1958       | Sh & Sd with coal stks: 440<br>Sh with coal & lime stks: 548 |
| 596            | J.D. Byron, E.A. Edwards #1 (dry hole)<br>TE&L Survey, Blk 1499, 74 Acres, 900 ft E of W & 150 ft N of S lines, TE&L Survey, Blk 1499 |                | 1001             | 5/11/1928 | 6/20/1928       | State, blk: 365<br>State, blk: 798<br>Sh, blk: 895           |
| 597            | J.D. Byron, J.W. Edwards #1 (dry hole)<br>TE&L Survey, Blk 1499, 450 ft E of W & 450 ft S of N lines                                  | 1188           | 867              | 4/3/1928  | 4/30/1928       | coal: 409<br>Sh, blk: 805                                    |

## **Plate 1**

