

Union District, Putnam County, W. Va.
 The Ohio Fuel Oil Co.
 On 3/4 acres, near Philoah.
 Rig commenced, April 18, 1911, and completed, May 1, 1911.
 Drilling commenced, May 5, 1911, and completed, Sept. 27, 1911.
 Cost per foot, \$1.40.
 Contractor, W. B. Heeter, Ravenswood, W. Va.
 Drillers: W. S. McCormick and W. J. Heater.
 Conductor, 16'; 8 1/4" casing, 1130'.
 This well is located 3/4 mi. N. 20° E. from Philoah.
 Elevation, about 1000'.
 Structural map shows the elevation of the Pittsburgh Coal to be
 about 312' which correlates the second seam of coal as the
 Pittsburgh....CEK
 Hole properly plugged as per House Bill No. 441, regulating the
 manner of drilling and plugging.

| | Top. | Bottom. |
|--------------------|------|---------|
| Red rock and shell | 16 | 100 |
| Dark slate | 100 | 145 |
| Red rock | 145 | 205 |
| Dark slate | 205 | 228 |
| Red rock | 228 | 270 |
| Dark slate | 270 | 297 |
| Coal, Washington | 297 | 300 |
| Dark slate | 300 | 325 |
| Red rock | 325 | 343 |
| Sand | 343 | 355 |
| Red rock | 355 | 445 |
| Sand | 445 | 493 |
| Red rock | 493 | 693 |
| Coal, Pittsburgh | 693 | 700 |
| Dark slate | 700 | 735 |
| Lime | 735 | 750 |
| Slate | 750 | 780 |
| Sand | 780 | 790 |
| Slate | 790 | 800 |
| Sandy lime | 800 | 820 |
| Slate | 820 | 880 |
| Sand | 880 | 915 |
| Red cave | 915 | 960 |
| Sand | 960 | 993 |
| Slate | 993 | 1030 |
| Red cave | 1030 | 1070 |
| Sand | 1070 | 1090 |
| Red rock | 1090 | 1110 |
| Sand | 1110 | 1115 |
| Slate | 1115 | 1223 |
| Big Dunkard Sand | 1223 | 1260 |
| Slate | 1260 | 1300 |
| Sand | 1300 | 1320 |
| Slate | 1320 | 1332 |
| Sand | 1332 | 1340 |
| Slate | 1340 | 1378 |
| Sand | 1378 | 1390 |
| Slate | 1390 | 1400 |

G. H. BAILEY (OR A. PAINTER) NO. 1 (227) WELL (Continued).

| | Top. | Bottom. |
|--|------|---------|
| Sand | 1400 | - 1446 |
| Slate | 1446 | - 1467 |
| Salt Sand (hole full of water at 1493') | 1467 | - 1557 |
| Dark slate | 1557 | - 1670 |
| Sand | 1670 | - 1705 |
| Dark slate | 1705 | - 1837 |
| Sand | 1837 | - 1892 |
| Slate | 1892 | - 1895 |
| Little Lime | 1895 | - 1910 |
| Pencil Cave | 1910 | - 1923 |
| Big Lime | 1923 | - 2008 |
| Keener Sand | 2008 | - 2058 |
| Slate | 2058 | - 2062 |
| Lime | 2062 | - 2140 |
| Sandy lime | 2140 | - 2180 |
| Lime | 2180 | - 2215 |
| Slate | 2215 | - 2230 |
| Big Injun? Sand (gas at 2233': water at 2238') | 2230 | - 2340 |
| Slate and shells | 2340 | - 2540 |
| Sand and smell of oil | 2540 | - 2561 |
| Dark slate | 2561 | - 2677 |
| Brown slate | 2677 | - 2697 |
| Berea Sand (top, -1692' B.) | 2697 | - 2704 |
| Slate, to bottom | 2704 | - 2756 |

Reamed hole from 2085' to 2300'.
 1 - 6-5/8 x 8 packer left in hole.
 "Abandoned oil and gas wells."

LATITUDE

LONGITUDE

Putnam Co. ?

7.5 OGIS topo location

7.5' loc _____ 15' loc _____
(calc.) _____

Company Ohio Fuel Oil

Farm G. H. Bailey 1

Quad _____

County Kanawha

District Union

WELL LOCATION MAP

File No. _____

7 in 1914 WVGES
Kanawha County Report

| | Thickness Feet. | Total Feet. |
|----------------------------------|--------------------|----------------|
| Black sand | 10 | 1795 |
| Slate | 9 | 1804 |
| Sand, Squaw | 8 | 1812 |
| Slate | 5 | 1817 |
| Black sand | 25 | 1842 |
| Slate shells | 18 | 1860 |
| Black sand, hard | 125 | 1985 |
| Slate | 90 | 2075 |
| Black sand | 35 | 2110 |
| Slate and shells | 73 | 2183 |
| Brown shale | 19 | 2202 |
| Sand, Berea | 19 | 2221 |
| Slate and shells to bottom | 24 | 2245 |

Berea sand, fine, close-grained. Dry hole, and well abandoned.

The above well starts about 475 feet under the Pittsburgh Coal horizon; and this will make the interval between the Pittsburgh coal and top of Big lime, 1995 feet. The "red rock" recorded at 240 to 245 feet is evidently an error of the recorder, since red beds have never anywhere been found at that geological horizon.

D. M. Sattes No. 1 Well Record (621).

Located at Sattes station, Union district. Completed April, 1912.
Authority, A. R. Rich.

| (Elevation, 594' A. T. B.) | Thickness Feet. | Total Feet. |
|---|--------------------|----------------|
| Unrecorded | 1370 | 1370 |
| Big Lime | 194 | 1564 |
| Big Injun sand | 62 | 1626 |
| Unrecorded | 403 | 2029 |
| Sand, Berea. Below tide, 1434' | 20 | 2049 |
| Slate | 9 | 2058 |
| Total depth | | 2058 |
| "Showing of oil in top of Berea; well abandoned." | | |

G. H. Bailey No. 1 Well Record. ?

Located in Union district, Putnam county, $\frac{1}{4}$ mile north of Philo and 5.5 miles northwest of the Kanawha-Putnam county line. Completed Sept. 27, 1911. Authority, Ohio Fuel Oil Company.

| (Elevation, 1005' A. T. B.) | Thickness Feet. | Total Feet. |
|-----------------------------|--------------------|----------------|
| Red rock and shells | 100 | 100 |
| Dark slate | 45 | 145 |
| Red rock | 60 | 205 |

| | Thickness Feet. | Total Feet. |
|-------------------------|--------------------|----------------|
| Dark slate | 23 | 228 |
| Red rock | 42 | 270 |
| Dark shale | 27 | 297 |
| Coal | 3 | 300 |
| Dark slate | 25 | 325 |
| Red rock | 18 | 343 |
| Sand | 12 | 355 |
| Red rock | 90 | 445 |
| Sand | 48 | 493 |
| Red rock | 200 | 693 |
| Coal, Pittsburgh | 7 | 700 |
| Dark slate | 35 | 735 |
| Lime | 15 | 750 |
| Slate | 30 | 780 |
| Sand | 10 | 790 |
| Slate | 10 | 800 |
| Sandy lime | 20 | 820 |
| Slate | 60 | 880 |
| Sand | 35 | 915 |
| Red cave..... | 45 | 960 |
| Sand | 33 | 993 |
| Slate | 37 | 1030 |
| Red cave | 40 | 1070 |
| Sand | 20 | 1090 |
| Red rock | 20 | 1110 |
| Sand | 5 | 1115 |
| Slate | 108 | 1223 |
| Sand, Big Dunkard | 37 | 1260 |
| Slate | 40 | 1300 |
| Sand | 20 | 1320 |
| Slate | 12 | 1332 |
| Sand | 8 | 1340 |
| Slate | 38 | 1378 |
| Sand | 12 | 1390 |
| Slate | 10 | 1400 |
| Sand | 46 | 1446 |
| Slate | 21 | 1467 |
| Slaty sand..... | 90 | 1557 |
| Dark slate | 113 | 1670 |
| Sand | 35 | 1705 |
| Dark slate | 132 | 1837 |
| Sand | 55 | 1892 |
| Slate | 3 | 1895 |
| Little Lime | 15 | 1910 |
| Pencil cave..... | 13 | 1923 |
| Big Lime | 85 | 2008 |
| Sand, Keener | 50 | 2058 |
| Slate | 4 | 2062 |
| Lime | 78 | 2140 |
| Sandy lime | 40 | 2180 |
| Lime | 35 | 2215 |
| Slate | 15 | 2230 |
| Sand, Big Injun | 110 | 2340 |
| Slate and shells | 200 | 2540 |

| | Thickness | Total |
|-----------------------------|-----------|-------|
| | Feet. | Feet. |
| Sand and smell of oil | 21 | 2561 |
| Dark slate | 116 | 2677 |
| Brown slate | 20 | 2697 |
| Sand, Berea | 7 | 2704 |
| Slate to bottom | 52 | 2756 |

"Well dry, and abandoned; hole full of water at 1498'; gas at 2233'; water at 2238'."

Prospective Oil and Gas Territory, Union District.

Union district has not been fully prospected, the several test wells having been drilled at random, and hence there remains a large acreage of territory that is favored by geologic structure, and has not yet been condemned by present development.

By consulting the structural map it will be seen:—(1) That a large acreage of territory remains uncondemned near the center of the district along the Guthrie syncline. (2) That along Tupper's creek the structures are favorable for oil near the head of Wolf Pen Branch, if the lower sands are not broken up, and slaty.

JEFFERSON DISTRICT.

Jefferson district lies southwest of Union and north of Lincoln county, and is the most western district of Kanawha county. The Byrnside anticline runs in a northwest direction, along the western part of the district, and the Saint Albans syncline runs in a northern direction through the center of the same.

Gas has been found in the Big Lime and Berea Sand on Browns creek, in the western part of the district, and oil has been found at Tornado near the southern portion.

J. W. Good No. 1 Well Record (625).

Located 4 miles southwest of Saint Albans, Jefferson district. Completed Dec. 24, 1907. Authority, Kanawha Valley Oil & Gas Company.

The well begins at the level of the Bakerstown coal, so