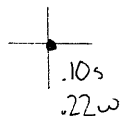


Latitude

39°05'00"



80°27'30"

Longitude

Topo Location

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

Lewis Co Rept 93

Company Federal

Farm AW Woodford #1

15' Quad _____
(sec.) Weston

7.5' Quad Weston

District Hackers Creek

WELL LOCATION PLAT

County 041 Permit 70133

Hackers Creek District, Lewis County, W. Va.
Federal Oil Co.
Elevation, 1038' E.
1 mi. S. of Jackson Mill.
Starts 335'± below Pittsburgh Coal.

MAP # 23 CITY MAP.
93

| | Top. | Bottom. |
|--------------------------------|------|----------------------|
| Conductor | 0 | 16 |
| Coal, Brush Creek | 135 | 141 |
| Coal, Upper Kittanning | 380 | 388 |
| Sand (gas and water), Gas Sand | 400 | 480 |
| Lime and hard slate | 560 | |
| Sand, hard, Salt Sand | 780 | 960 |
| Slate and lime | 960 | 1000 |
| Red rock | 1000 | 1010 |
| Slate | 1010 | 1100 |
| Shells, hard | 1100 | 1130 |
| Red and black shale | 1130 | 1200? |
| Hard lime | 1200 | 1290 |
| Big Lime | 1320 | 1370 |
| Keener Sand | 1370 | 1380 |
| Big Injun Sand | 1380 | 1460 |
| Slate and shells | 1460 | 1600 1680 |
| Berea Sand (little gas) | 1680 | 1700 |
| Slate and shells | 1700 | 1790 |
| 50-Ft. Sand | 1790 | 1805 |
| Gordon Stray Sand | 1880 | 1900 |
| Red rock | 1990 | 1935 |
| Sand, Gordon (a little gas) | 2000 | |
| Sand, Fourth | 2036 | 2056 |
| Slate | 2056 | 2127 |
| Fifth Sand (gas) | 2127 | 2142 |

"Good gas well from Fifth Sand".

.....District, Lewis County, W. Va.

Authority: Federal Oil Co.

Drilled by Boggs Drilling Co. for T. N. Barnsdale. (Barnsdall).

Near Weston.

Conductor, 16'; 10" casing, 280'; 8 $\frac{1}{2}$ ", 780'; 6-5/8", 1460'.

| | Top. | Bottom. |
|--|------|---------|
| Conductor | 0 | 16 |
| Water, enough to drill, at | 80 | |
| Coal | 135 | 141 |
| 10" casing | | 280 |
| Coal | 380 | 388 |
| Sand, gas, and water | 400 | 480 |
| Lime and hard slate | 560 | |
| 8 $\frac{1}{2}$ " casing | | 780 |
| Sand, hard | 780 | 960 |
| Slate and lime | 960 | 1000 |
| Two screws of red rock | 1000 | 1010 |
| Slate | 1010 | 1100 |
| Shells, hard | 1100 | 1130 |
| Red and black slate | 1130 | |
| Hard lime | 1290 | |
| Top of Big Lime | 1320 | 1370 |
| Two screws of Keener Sand | 1370 | 1380 |
| Big Injun Sand (6-5/8" casing, 1460') | 1380 | 1460 |
| Slate and shells | 1460 | 1680 |
| Gantz? (Berea) Sand (little gas) | 1680 | 1700 |
| Slate and shells | 1700 | 1790 |
| 50-Ft. Sand | 1790 | 1805 |
| Gordon Sand | 1880 | 1900 |
| One screw of red rock | 1930 | 1935 |
| Sand and little gas | 2000 | |
| 4 screws sand | 2036 | 2056 |
| Slate | 2056 | 2127 |
| 5th Sand (good gas well from 5th Sand) | 2127 | 2142 |