

4.23 S
0.78 W

New Location
 Drill Deeper
 Abandonment

Company Owens, Libbey-Owens Gas Dept.
 Address Box 4158 Charleston 4 W. Va.
 Farm James Smarr
 Tract _____ Acres 70 Lease No. 118
 Well (Farm) No. 1 Serial No. 368
 Elevation (Spirit Level) 974'
 Quadrangle Madison 8-54.23" W 0.74"
 County Boone District Washington
 Engineer T. S. Flournoy
 Engineer's Registration No. 269
 File No. _____ Drawing No. _____
 Date Jul. 13, 1949 Scale 1" = 1000'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. B00-160-A

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

606 ✓

WELL RECORD

Permit No. 60-A

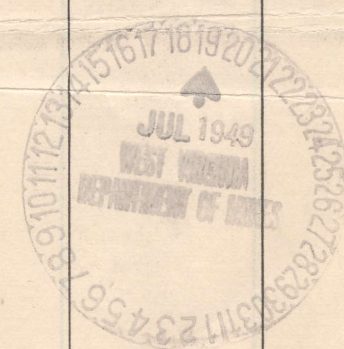
Oil or Gas Well Gas
(KIND)

Company OWENS, LIBBY-OWENS GAS DEPARTMENT
 Address P. O. Box 4150, Charleston 2, W. Va.
 Farm J. T. Snarr Acres 70
 Location (waters) _____
 Well No. 010 730, farm #1 Elev. 974.0 Cr.
 District Washington County Boone
 The surface of tract is owned in fee by _____
 Address _____
 Mineral rights are owned by S. C. Miller
Turtle Creek of Address Danville, W. Va.
 Drilling commenced 5-27-1929
 Drilling completed 9-21-1929
 Date Shot 10-1-29 From 1912 To 1941
 With 90 Qts.
 Open Flow /10ths Water in _____ Inch
 /10ths Merc. in _____ Inch
 Volume 117 MB; 19 1/2 gal. - Ann; 120 H Baroa Cu. Ft.
 Rock Pressure 130 lbs. 24 hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|--------------|-------------------|
| Size | | | Kind of Packer |
| 16 | | | Spring Gas Anchor |
| 13 | 16' | 16' | |
| 10 | 63' | 63' | Size of |
| 8 1/4 | | | 3 x 5-3/16 x 16" |
| 6 5/8 | 1100' | --- | Depth set |
| 5 3/16 | 1238' | 1238' | 1374-1377 |
| 3 | 1979' | 1979' | Perf. top 1939 |
| 2 | | | Perf. bottom 1914 |
| Liners Used | | | Perf. top 1964 |
| | | | Perf. bottom 1969 |

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|----------------|--------|--------------|------|--------|-------------------|-------------|---------------|
| Surface clay | --- | --- | 0 | 10 | | | |
| Slate & Shells | Blue | Soft | 10 | 120 | | | |
| Sand | White | Hard | 120 | 135 | | | |
| Slate & Shells | Black | Soft | 135 | 187 | Water | 110' | 4 bailers hr. |
| Sand | White | Hard | 187 | 202 | Water | 202' | Hole full |
| Slate | Black | Soft | 202 | 238 | | | |
| Sand | White | Hard | 238 | 356 | | | |
| Lime | --- | Hard | 356 | 375 | | | |
| Sand | White | Hard | 375 | 515 | | | |
| Slate | Black | Hard | 515 | 562 | | | |
| Sand | White | Hard | 562 | 827 | | | |
| Slate | --- | --- | 827 | 830 | | | |
| Red Rock | Red | --- | 830 | 853 | | | |
| Shale | Blue | --- | 853 | 868 | | | |
| Sand | White | Hard | 868 | 884 | | | |
| Lime | --- | --- | 884 | 888 | | | |
| Slate | --- | --- | 888 | 904 | | | |
| Lime | White | Hard | 904 | 960 | | | |
| Slate | --- | --- | 960 | 975 | | | |
| Slate & Shells | --- | --- | 975 | 993 | | | |
| Red Rock | --- | --- | 993 | 1000 | | | |
| Slate & Shells | --- | --- | 1000 | 1057 | | | |
| Lime | --- | --- | 1057 | 1063 | | | |
| Slate & Shells | --- | --- | 1063 | 1103 | | | |
| Marion Sand | White | Hard | 1103 | 1130 | | | |
| Slate | Gray | Soft | 1130 | 1135 | | | |
| Little Lime | Gray | Hard | 1135 | 1195 | | | |
| Slate | Black | Soft | 1195 | 1200 | | | |
| Big Lime | White | Hard | 1200 | 1211 | | | |
| Big Lime | Black | Hard | 1211 | 1212 | | | |
| Slate | Black | Soft | 1212 | 1217 | | | |
| Big Lime | Black | Hard | 1217 | 1224 | | | |
| Big Lime | Yellow | Hard | 1224 | 1426 | | | |
| Injun Sand | White | Hard | 1426 | 1469 | Gas | 1322' | 30 H |
| Slate & Shells | Red | Hard | 1469 | 1859 | | | |
| | Gray | Soft & Hard | | | | | |



| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|-------------|-------|--------------|------|--------|-------------------|-------------|---------|
| Slate | Dark | Soft | 1859 | 1875 | | | |
| Line Shells | Dark | Hard | 1875 | 1885 | | | |
| Slate | Dark | Soft | 1885 | 1895 | | | |
| Brown Shale | Brown | Soft | 1895 | 1911 | | | |
| Barra Sand | White | Hard | 1911 | 1941 | | | |
| Line Shells | --- | --- | 1941 | 1974 | | | |
| Total Depth | | | | 1974 | | | |

Date July 18, 1949

APPROVED OWENS, LIBBEY-OWENS GAS DEPARTMENT, Owner

By A. H. McClain
A. H. McClain (Title) Geologist