



Company The Manufacturers Light & Heat
 Address 800 Union Trust Bldg. Pitts. Pa.
 Farm Josephus & M.A. Blake
 Tract Acres 70 Lease No. 2152
 Well (Farm) No. 1 Serial No. 2269
 Elevation (Spirit Level) 888
 Quadrangle Littleton **(NO)**
 County Marshall District Liberty
 Engineer H.D. O'Connon
 Engineer's Registration No. _____
 File No. _____ Drawing No. Y-7-699
 Date June 23, 1937 Scale 1"-800'

STATE OF WEST VIRGINIA
 Department of Mines
 OIL AND GAS DIVISION
 CHARLESTON

 WELL LOCATION MAP
 File No. MARS-82
 + Denotes locati on 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.

WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

WELL RECORD

Permit No. Mars-02

Gas Well

Littleton Quad.

DRILLED DEEPER

CASING & TUBING

| | | | | |
|----------|--|-----------------|---------------|------|
| Company | Manufacturers Light & Heat Co. | 10 | 237 | 237 |
| Address | 800 Union Trust Bldg., Pittsburgh, Pa. | 8 1/4 | 1037 | 1037 |
| Farm | Josephus & M.A. Blake Acres 70 | 6 5/8 | 1679'7" | |
| Location | Not given | 4 | 1589 | |
| Well No. | 1-2269 | Elev. 888 | | |
| District | Liberty | County Marshall | | |
| Surface | John C. Hopkins, Cameron, W.Va. | PACKER | | |
| Mineral | Manufacturers Light & Heat Co. | Kind of | Spang Anchor | |
| Address | Pittsburgh, Pa. | Size of | 6 5/8 x 8 1/4 | |
| Drilling | Commenced May 8, 1918 | Depth Set | 1555 | |
| | Completed June 20, 1918 | | | |

Volume

DRILLED DEEPER

| | |
|-------------|----------------------------|
| Drilling | Commenced July 6, 1937 |
| | Completed July 20, 1937 |
| Open flow | 38/10ths W 2" |
| Rock Press. | 302# -5 min. <i>ZGONCF</i> |

Formation Color ^{Hor} Top Base Result Formation Color ^{Hor} Top Base Result

| | | | | | | | |
|-----------------------|--|------|-------------|--|--|--|--|
| Gravel | | 0 | 15 | | | | |
| Lime | | 15 | 80 | | | | |
| Coal | | 80 | 82 | | | | |
| Slate & Lime | | 82 | 200 | | | | |
| Sand | | 200 | 240 | | | | |
| Coal | | 240 | 245 | | | | |
| Slate & Lime | | 245 | 440 | | | | |
| Coal | | 440 | 445 | | | | |
| Slate & Lime | | 445 | 550 | | | | |
| Coal | | 550 | 555 | | | | |
| Slate & Lime | | 555 | 600 | | | | |
| Red Rock | | 600 | 605 | | | | |
| Slate & Lime | | 605 | 685 | | | | |
| Red Rock | | 685 | 700 | | | | |
| Slate | | 700 | 710 | | | | |
| Red Rock | | 710 | 750 | | | | |
| Slate & Lime | | 750 | 830 | | | | |
| Red Rock | | 830 | 850 | | | | |
| Slate, Lime & Sand | | 850 | 1563 | | | | |
| Maxon Sand | | 1563 | 1581 | | | | |
| TOTAL DEPTH | | | 1581 | | | | |
| <u>DRILLED DEEPER</u> | | | | | | | |
| Maxon Sand | | 1581 | 1614 | | | | |
| Big Lime | | 1614 | 1704 | | | | |
| Big Injun | | 1704 | 1915 | | | | |
| Slate, Sand & Shells | | 1915 | 2080 | | | | |
| Lime | | 2080 | 2130 | | | | |
| Slate & Shells | | 2130 | 2290 | | | | |
| 30-Foot Sand | | 2290 | 2340 | | | | |
| Slate & Shells | | 2340 | 2483 | | | | |
| 50-Foot Sand | | 2483 | 2490 | | | | |
| Slate & Lime | | 2490 | 2540 | | | | |
| Gordon Sand | | 2540 | 2555 | | | | |
| Slate | | 2555 | 2595 | | | | |
| 4th Sand | | 2595 | 2605 | | | | |
| Slate | | 2605 | 2636 | | | | |
| 5th Sand | | 2636 | 2639 | | | | |
| Slate | | 2639 | 2738 | | | | |
| TOTAL DEPTH | | | 2738 | | | | |
| | | | <i>1581</i> | | | | |
| | | | <i>157</i> | | | | |

1614
95
1709
888
826

1709
535
1154