



WEST VIRGINIA DEPARTMENT OF MINES  
OIL & GAS DIVISION  
W E L L R E C O R D

Permit No. Mars 199

Gas Well  
CASING & TUBING

Cameron Quad.

Company

The Manf. Light & Heat Co.

Address

Farm

Nora Harsh 300 acres

Cond. 16 16

Well No.

4016 Elev.

13 64 64

District

Sand Hill Marshall County

10 324 324

Commenced

Jan. 27, 1949

8 1/2 924 924

Completed

Feb. 15, 1949

4 1076

Volume

92/10ths W in 3"; 676,693 C.F. Gas Sand 2-16-49

Rock Pressure

310# in 48 hrs.

Anchor Packer

8 1/2 x 4

940'

|                              | 0    | 8    | PRESSURE IN MINUTES |     |     |     |     |        |      |
|------------------------------|------|------|---------------------|-----|-----|-----|-----|--------|------|
|                              | 8    | 77   | 1                   | 5   | 10  | 30  | 60  | 24 hr. | 48hr |
|                              | 77   | 114  | 55                  | 190 | 225 | 250 | 265 | 300    | 310  |
| Clay                         | 0    | 8    |                     |     |     |     |     |        |      |
| Slate & Shells               | 8    | 77   |                     |     |     |     |     |        |      |
| Lime & Slate                 | 77   | 114  |                     |     |     |     |     |        |      |
| Lime                         | 114  | 172  |                     |     |     |     |     |        |      |
| ✓ Coal                       | 172  | 175  |                     |     |     |     |     |        | Max. |
| Slate                        | 175  | 190  |                     |     |     |     |     |        |      |
| Lime                         | 190  | 229  |                     |     |     |     |     |        |      |
| Slate                        | 229  | 275  |                     |     |     |     |     |        |      |
| ✓ Pittsburgh Coal            | 275  | 281  |                     |     |     |     |     |        |      |
| Slate                        | 281  | 300  |                     |     |     |     |     |        |      |
| Lime                         | 300  | 328  |                     |     |     |     |     |        |      |
| Slate                        | 328  | 343  |                     |     |     |     |     |        |      |
| Red Rock                     | 343  | 353  |                     |     |     |     |     |        |      |
| Slate & Lime Shell           | 353  | 373  |                     |     |     |     |     |        |      |
| Lime                         | 373  | 400  |                     |     |     |     |     |        |      |
| Slate & Shell                | 400  | 418  |                     |     |     |     |     |        |      |
| Red Rock                     | 418  | 430  |                     |     |     |     |     |        |      |
| Slate & Shell                | 430  | 450  |                     |     |     |     |     |        |      |
| Red Rock                     | 450  | 457  |                     |     |     |     |     |        |      |
| Lime                         | 457  | 472  |                     |     |     |     |     |        |      |
| Slate & Shell                | 472  | 510  |                     |     |     |     |     |        |      |
| Lime                         | 510  | 520  |                     |     |     |     |     |        |      |
| Slate                        | 520  | 545  |                     |     |     |     |     |        |      |
| Red Rock                     | 545  | 552  |                     |     |     |     |     |        |      |
| Slate & Shell                | 552  | 575  |                     |     |     |     |     |        |      |
| Red Rock                     | 575  | 585  |                     |     |     |     |     |        |      |
| Slate & Shell                | 585  | 665  |                     |     |     |     |     |        |      |
| Lime                         | 665  | 718  |                     |     |     |     |     |        |      |
| Slate & Shell                | 718  | 740  |                     |     |     |     |     |        |      |
| Sand                         | 740  | 770  |                     |     |     |     |     |        |      |
| Slate                        | 770  | 785  |                     |     |     |     |     |        |      |
| ✓ Sand <i>Gas Sand?</i>      | 785  | 870  |                     |     |     |     |     |        |      |
| Slate & Shell                | 870  | 915  |                     |     |     |     |     |        |      |
| Sand                         | 915  | 987  |                     |     |     |     |     |        |      |
| Broken Sand                  | 987  | 1010 |                     |     |     |     |     |        |      |
| Slate & Shell                | 1010 | 1059 |                     |     |     |     |     |        |      |
| ✓ Gas Sand <i>1 1/2 Salt</i> | 1059 |      |                     |     |     |     |     |        |      |
| Total Depth                  |      | 1069 |                     |     |     |     |     |        |      |

Gas in coal 275-281

Gas 1061 to 1065 Test 22/10 W in 4"

TUBING RECORD

|                         |             |          |
|-------------------------|-------------|----------|
| Perf.                   | 22'         | 0        |
| Tubing 5 jts            | 106         | 10       |
| Anchor Packer 8 1/2 x 4 |             |          |
| Tubing 42 jrs.          | 937         | 6        |
|                         | <u>1066</u> | <u>4</u> |
| Add for thds            | 10          | 4        |
| Total                   | 1076        | 8        |