### WELL RECORD

**Oil or Gas Well:** GAS  
**Permit No.:** MARS-106-R  
**Company:** The Manufacturers L.t. and Ht. Co.  
**Address:** 800 Union Trust Bldgs., Pitts. 19, Pa.

<table>
<thead>
<tr>
<th>Casing and Tubing</th>
<th>Used in Drilling</th>
<th>Left in Well</th>
<th>Packers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td></td>
<td></td>
<td>Kind of Packer</td>
</tr>
<tr>
<td>16</td>
<td></td>
<td>231</td>
<td>231</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td>926</td>
<td>1348</td>
</tr>
<tr>
<td>10 3/4&quot;</td>
<td></td>
<td>231</td>
<td>1348</td>
</tr>
<tr>
<td>9 5/8&quot;</td>
<td></td>
<td>1348</td>
<td>Depth set</td>
</tr>
<tr>
<td>8 7/8&quot;</td>
<td></td>
<td>1995</td>
<td>2015</td>
</tr>
<tr>
<td>5 1/2&quot;</td>
<td></td>
<td>1348</td>
<td>Perf. top</td>
</tr>
<tr>
<td>4</td>
<td>Perf. bottom</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Perf. top</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Perf. bottom</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Casing Cemented:** None  
**Size:** Cu. Ft.  
**Date:** March 13, 161  
**Drilling completed:** June 16, 1961  
**Date Shot:** 6/20/61  
**From:** 2015  
**To:** 2240  
**With:** Orifice Well Tester  
**Open Flow:** 1/10th water in 1/10th Merc. in  
**Volume:** None  

<table>
<thead>
<tr>
<th>Formation</th>
<th>Color</th>
<th>Top</th>
<th>Bottom</th>
<th>Oil, Gas or Water</th>
<th>Depth Found</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pittsburgh Coal</td>
<td>8</td>
<td>845</td>
<td>853</td>
<td>1970</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower Marcon Sand</td>
<td>6</td>
<td>1960</td>
<td>1966</td>
<td>1219</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Big Lime</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7.51</td>
<td></td>
</tr>
<tr>
<td>Big Injun Sand</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Old 5&quot; Casing</td>
<td>20</td>
<td>1995</td>
<td>2015</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Set new 5 1/2&quot; casing, plugged back to TOTAL DEPTH</td>
<td></td>
<td>2240</td>
<td>1995</td>
<td>2240</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Run new 8 5/8&quot; casing on a steel die nipple to a depth of 926' and connected it to 262' of original 8&quot; casing, left in the hole</td>
<td></td>
<td></td>
<td>926'</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Run new 5 1/2&quot; casing on a steel shoe to a depth of 1995' and set it on top of 20' of original 5&quot; casing, left in the hole</td>
<td>2015</td>
<td></td>
<td>1995'</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COAL WAS ENCOUNTERED AT 845 FEET INCHES**  
**FEET INCHES**  

**STATE OF WEST VIRGINA**  
**DEPARTMENT OF MINES**  
**OIL AND GAS DIVISION**  
**Permit No.:** MARS-106-R  
**Company:** The Manufacturers L.t. and Ht. Co.  
**Address:** 800 Union Trust Bldgs., Pitts. 19, Pa.

<table>
<thead>
<tr>
<th>Casing and Tubing</th>
<th>Used in Drilling</th>
<th>Left in Well</th>
<th>Packers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td></td>
<td></td>
<td>Kind of Packer</td>
</tr>
<tr>
<td>16</td>
<td></td>
<td>231</td>
<td>231</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td>926</td>
<td>1348</td>
</tr>
<tr>
<td>10 3/4&quot;</td>
<td></td>
<td>231</td>
<td>1348</td>
</tr>
<tr>
<td>9 5/8&quot;</td>
<td></td>
<td>1348</td>
<td>Depth set</td>
</tr>
<tr>
<td>8 7/8&quot;</td>
<td></td>
<td>1995</td>
<td>2015</td>
</tr>
<tr>
<td>5 1/2&quot;</td>
<td></td>
<td>1348</td>
<td>Perf. top</td>
</tr>
<tr>
<td>4</td>
<td>Perf. bottom</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Perf. top</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Perf. bottom</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Casing Cemented:** None  
**Size:** Cu. Ft.  
**Date:** March 13, 161  
**Drilling completed:** June 16, 1961  
**Date Shot:** 6/20/61  
**From:** 2015  
**To:** 2240  
**With:** Orifice Well Tester  
**Open Flow:** 1/10th water in 1/10th Merc. in  
**Volume:** None  

<table>
<thead>
<tr>
<th>Formation</th>
<th>Color</th>
<th>Top</th>
<th>Bottom</th>
<th>Oil, Gas or Water</th>
<th>Depth Found</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pittsburgh Coal</td>
<td>8</td>
<td>845</td>
<td>853</td>
<td>1970</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower Marcon Sand</td>
<td>6</td>
<td>1960</td>
<td>1966</td>
<td>1219</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Big Lime</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7.51</td>
<td></td>
</tr>
<tr>
<td>Big Injun Sand</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Old 5&quot; Casing</td>
<td>20</td>
<td>1995</td>
<td>2015</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Set new 5 1/2&quot; casing, plugged back to TOTAL DEPTH</td>
<td></td>
<td>2240</td>
<td>1995</td>
<td>2240</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Run new 8 5/8&quot; casing on a steel die nipple to a depth of 926' and connected it to 262' of original 8&quot; casing, left in the hole</td>
<td></td>
<td></td>
<td>926'</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Run new 5 1/2&quot; casing on a steel shoe to a depth of 1995' and set it on top of 20' of original 5&quot; casing, left in the hole</td>
<td>2015</td>
<td></td>
<td>1995'</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Company: THE MANUFACTURERS LIGHT & HEAT COMPANY
Address: 500 Union Trust Bldg., Pgh., Pa.

Farmer: John E. Wilson
Acres: 132.55

Location (township): Liberty
County: Marshall

The surface of tract is owned in fee by O. A. & Elsie Bonar
20 NEL, Cameron, Address W. Va.

Mineral rights are owned by The Mfrs. Lt. & Hts. Co.
500 Union Trust Bldg., Address Pitts., Pa.

Drilling commenced: Nov. 28, 1924
Drilling completed: Feb. 19, 1925

Date Shot: From To

With:

Open Flow

Casing and Tubing

Used in Drilling

Left in Well

Packers

Size

Kind of Packer

Size of

Depth Set

Perf. top

Perf. bottom

Liners Used

Perf. bottom

Performance

Casing cemented

Size

No. Ft.

Date

COAL WAS ENCOUNTERED AT 570 FEET 36 INCHES
748 FEET 60 INCHES 850 FEET 84 INCHES

Formation

Clay, Slate & Lime
Waynesburg Coal
Lime
Mapletown Coal
Lime
Pittsburgh Coal
Lime & Red Rock
Murphy Sand
Lime & Red Rock
Little Dunkard
Slate
Big Dunkard
Slate, Shells & Lime
Sand
Slate
First Salt Sand
Shale
Second Salt Sand
Slate & Shells
Waxton Sand
Slate & Shells
Little Lime
Percil Cave
Big Lime
Big Injun
Slate & Shells
Thirty Foot
Slate & Shells
Fifty Foot
Slate & Shells
Gordon Sand
South Sand
Slate & Shells
Slate & Shells
Fifth Sand
Slate

Color

Hard or Soft

Top

Bottom

Oil, Gas or Water

Depth Poured

Remarks

Little Gas at 573'

24/10 water in 3'

Show gas 280'

Gas at 2907
<table>
<thead>
<tr>
<th>Formation</th>
<th>Color</th>
<th>Hard or Soft</th>
<th>Top</th>
<th>Bottom</th>
<th>Oil, Gas or Water</th>
<th>Depth Found</th>
<th>Remarks</th>
</tr>
</thead>
</table>

Date: September 4th, 1946

APPROVED THE MANUFACTURERS LIGHT & HEAT CO., Owner

By [Signature] (Title) LAND AGENT.