**STATE OF WEST VIRGINIA**

**DEPARTMENT OF MINES**

**OIL AND GAS DIVISION**

**WELL RECORD**

**Oil or Gas Well**

**GAS**

**Permit No.** MARS-414

** Quadrangle ** Cameron

** Company ** The Manufacturers Lt. and Ht. Co.

** Address ** 800 Union Trust Bldg., Pittsburgh 19, Pa.

** Farm ** John and Emma Crow

** Acres ** 330

** Location (weters)**

** Well No. ** L-6622

** Elev. ** 1212.850

** County ** Marshall

** District ** Webster

**The surface of tract is owned in fee by **

** Address **

** Mineral rights are owned by **

** Address **

** Drilling commenced ** July 28, 1961

** Drilling completed ** August 14, 1961

** Date Shot ** 8/11/61 From 1822 To 1857

** With ** Side Static and Pitot Tube

** Open Flow ** 77.00 gpm

** S.G. ** 0.9125

** Volume ** 67,480,000 and 16,975,000 Cu. Ft.

** Rock Pressure ** 625 lbs.

** hrs. ** 72 hrs.

** Oil ** bbls., 1st 24 hrs.

** Fresh water ** feet

** Salt water ** feet

<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>
<tbody>
<tr>
<td>Pittsburgh Coal</td>
<td>7</td>
<td></td>
<td>670</td>
<td>677</td>
<td>677</td>
<td>1302</td>
<td>Water - 57'</td>
</tr>
<tr>
<td>Sand</td>
<td>10</td>
<td></td>
<td>1292</td>
<td>1302</td>
<td></td>
<td>1302</td>
<td>No Gas</td>
</tr>
<tr>
<td>Sand (First Salt)</td>
<td>33</td>
<td></td>
<td>1422</td>
<td>1455</td>
<td></td>
<td>1502</td>
<td>Little Show of Gas</td>
</tr>
<tr>
<td>Sand</td>
<td>25</td>
<td></td>
<td>1477</td>
<td>1502</td>
<td></td>
<td>1502</td>
<td>Gas-1602-1519' - 2,000 Cf/day (Est.)</td>
</tr>
<tr>
<td>3rd. Salt Sand</td>
<td>141</td>
<td></td>
<td>1578</td>
<td>1719</td>
<td></td>
<td>1863</td>
<td>Little Water - 1632'</td>
</tr>
<tr>
<td>Big Injun</td>
<td>1757</td>
<td></td>
<td>1757</td>
<td>1863</td>
<td></td>
<td>1863</td>
<td>Started to Drill with Gas at 1607'. Drilled to 1793' and Cemented 52' Cas. Drilled to 1863' T. D. with Gas from bottom of 52' Casing.</td>
</tr>
<tr>
<td>Total Depth</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Over)