STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION  

WELL RECORD

Company: Hope Natural Gas Company
Address: 445 East Main St., Clarksburg, W. Va.
Farm: L. L. Richmond  
Acres: 110
Location (waters):
Well No.: 491  
Elev.: 1197
District: Meade  
County: Marshall
The surface of the tract is owned in fee by:
Address:
Mineral rights are owned by:
Address:
Drilling commenced: December 1, 1903
Drilling completed: March 5, 1904
Date Shot: From  
To:

With

Open Flow  
10ths Water in.  
10ths Merc. in.
Volume:  
Cu. Ft.
Rock Pressure:  
Lbs.  
hrs.
Oil:  
bbls., 1st 24 hrs.

Fresh water: none recorded feet  
Salt water: none recorded feet

Casing and Tubing

<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>Kind of Packer</td>
<td>Size of</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>1366</td>
<td>725</td>
<td></td>
</tr>
<tr>
<td>8 1/4</td>
<td>1571</td>
<td>1571</td>
<td></td>
</tr>
<tr>
<td>6 1/2</td>
<td>2240</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 3/16</td>
<td>2240</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2300</td>
<td>2300</td>
<td>Perf. top</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td>Perf. bottom</td>
</tr>
<tr>
<td>Liners Used</td>
<td></td>
<td></td>
<td>Perf. top</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>Perf. bottom</td>
</tr>
</tbody>
</table>

NOT CASING CEMENTED

Casing Size

COAL WAS ENCOUNTERED AT 530 FEET 60 INCHES

785 FEET 60 INCHES

FEET  INCHES

Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
----------|-------|--------------|-----|--------|------------------|-------------|---------|
Native coal |      |              | 530 | 535    |                  |             |         |
Pittsburgh Coal |      |              | 735 | 790    |                  |             |         |
Dunkard sand |      |              | 880 | 885    |                  |             |         |
Salt sand |      |              | 1300 | 1340 |                |             |         |
Big Lime |      |              | 1560 | 2005 |                |             |         |
Big Injun |      |              | 2005 | 2285 |                |             |         |
Gordon strata |      |              | 2840 | 2845 | gas             | 2393        |         |
Gordon |      |              | 2385 | 2900 |                |             |         |
Total depth |      |              | 2385 | 2900 |                |             |         |

(Over)