**WELL RECORD**

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

**LOCATION (WATERS)**  
Farm: The Mfrs. Lt. and Rt. Co.  
Acres: 55

**LOCATION (WATERS)**  
Well No.: L-498  
Elev: 1252'  
County: Marshall

The surface of the tract is owned in fee by:

<table>
<thead>
<tr>
<th>Mineral rights owned by</th>
<th>Address</th>
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</table>

Drilling commenced: October 19, 1961  
Drilling completed: November 9, 1961  
Date Shot: 11/9/61 From 1942 To 1955  
With: P'tot Tube

Open Flow: 29.42 gpm  
Water in: l  
1/10ths Merc. in: --

Volume: 15,670,000 Cu. Ft.

Rock Pressure: 785 lbs.  
24 hrs.

Oil: bbls, 1st 24 hrs.  
Fresh water: feet  
Salt water: feet

**FORMATION**  
**Color**  
**THICKNESS**

- Pittsburgh Coal  
- First Sand  
- Marcion Sand  
- Big Lime  
- Big Injun


**Casing and Tubing**  
**Used in Drilling**  
**Left in Well**  
**Packers**

<table>
<thead>
<tr>
<th>Size</th>
<th>10</th>
<th>19</th>
<th>8</th>
<th>5/16</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>85</td>
<td>85</td>
<td>98</td>
<td>2013</td>
</tr>
<tr>
<td>3/8''</td>
<td>98</td>
<td>98</td>
<td>98</td>
<td>2013</td>
</tr>
<tr>
<td>5/16</td>
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**Kind of Packer**

**Depth Set**

**Plotted Top**

**Perf. Bottom**

**Lines Used**

**Casing Cemented**

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<tr>
<th>Size</th>
<th>No. Ft.</th>
<th>Date</th>
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**Coal Was Encountered At:** 916 Feet  
**Feet**  
**Inches**

**Oil or Gas Well**

**Oil or Gas Well**

**Depth Found**

**Remarks**

- Gas in Maxton @ 1942'  
- Gas in Big Injun 2170', not drilled through

**Note:** Drilled 17-1/2' Hole to 107', Run 87' of 13-3/8' Casing Sm. Gr. H-40#, bottom beveled, & cemented W/125 Bg. Cement, 1 Bg. Slf Flakes & 17 Bg. C. Chloride, 1.5# per gallon, good return of cement at surface.  
Drilled 4-3/4' Hole drilled to total depth of 2182'. (Ground Level)