Company: Manufacturers Ltd.

Farm: Bruce Howard # 3153

15' Quad (sec.)

7.5' Quad

District: Liberty

Topo Location

7.5' Loc. _______ 15' Loc. _______

(calc.) ______

WELL LOCATION PLAT

County: 051
Permit: 70092
<table>
<thead>
<tr>
<th>Stratum</th>
<th>Top</th>
<th>Bottom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pittsburgh Coal</td>
<td>871</td>
<td>899</td>
</tr>
<tr>
<td>Harpy Sand</td>
<td>1096</td>
<td>1120</td>
</tr>
<tr>
<td>Little Dunkard Sand</td>
<td>1288</td>
<td>1298</td>
</tr>
<tr>
<td>Big Dunkard Sand</td>
<td>1368</td>
<td>1415</td>
</tr>
<tr>
<td>Gas Sand</td>
<td>1470</td>
<td>1582</td>
</tr>
<tr>
<td>1st Salt Sand</td>
<td>1690</td>
<td>1740</td>
</tr>
<tr>
<td>2nd Salt Sand</td>
<td>1853</td>
<td>1908</td>
</tr>
<tr>
<td>Marriott Sand (show gas, 1968')</td>
<td>1958</td>
<td>1982</td>
</tr>
<tr>
<td>Big Lime</td>
<td>1987</td>
<td>2032</td>
</tr>
<tr>
<td>Big Injun Sand (show gas, 2042')</td>
<td>2032</td>
<td>2258</td>
</tr>
<tr>
<td>30-Foot Sand</td>
<td>2673</td>
<td>2742</td>
</tr>
<tr>
<td>50-Foot Sand</td>
<td>2837</td>
<td>2854</td>
</tr>
<tr>
<td>Gordon Stray Sand (gas, 2874-2876')</td>
<td>2869</td>
<td>2879</td>
</tr>
<tr>
<td>Gordon Sand</td>
<td>2899</td>
<td>2915</td>
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<tr>
<td>9th Sand</td>
<td>2931</td>
<td>2996</td>
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<tr>
<td>Total depth</td>
<td>3025</td>
<td></td>
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</tbody>
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