**LOG AND CORE RECORD OF OIL OR GAS WELL**

In compliance with rules and regulations pursuant to CRS 520-095 (Chapter 677 OL 1963).

<table>
<thead>
<tr>
<th>Operator</th>
<th>Two-State Oil &amp; Gas Company, Inc.</th>
<th>Field</th>
<th>Vale area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well No.</td>
<td>Vale City No. 1</td>
<td>Sec. 23</td>
<td>T. 18 S, R. 45 E</td>
</tr>
</tbody>
</table>

**FORMATIONS PENETRATED BY WELL**

<table>
<thead>
<tr>
<th>Depth to Top of Formations</th>
<th>Thickness</th>
<th>Drilled or Cored</th>
<th>Recovery</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>202</td>
<td>Drilled</td>
<td></td>
<td>Not recorded (Holloway Drilling Co.)</td>
</tr>
<tr>
<td>202</td>
<td>270</td>
<td>&quot;</td>
<td></td>
<td>Soft blue silt.</td>
</tr>
<tr>
<td>270</td>
<td>420</td>
<td>&quot;</td>
<td></td>
<td>Shale, blue, medium hard.</td>
</tr>
<tr>
<td>420</td>
<td>430</td>
<td>&quot;</td>
<td></td>
<td>Sandy shale, blue, medium hard.</td>
</tr>
<tr>
<td>430</td>
<td>450</td>
<td>&quot;</td>
<td></td>
<td>Sticky, soft, blue silt.</td>
</tr>
<tr>
<td>450</td>
<td>558</td>
<td>&quot;</td>
<td></td>
<td>Shale, blue, medium hard.</td>
</tr>
<tr>
<td>558</td>
<td>560</td>
<td>&quot;</td>
<td></td>
<td>Sand, gray.</td>
</tr>
<tr>
<td>560</td>
<td>575</td>
<td>&quot;</td>
<td></td>
<td>Sand, grey, medium hard, containing good flow of warm water.</td>
</tr>
<tr>
<td>575</td>
<td>635</td>
<td>&quot;</td>
<td></td>
<td>Shale, with sandy streaks, blue, soft.</td>
</tr>
<tr>
<td>635</td>
<td>655</td>
<td>&quot;</td>
<td></td>
<td>Shale, soft blue.</td>
</tr>
<tr>
<td>655</td>
<td>765</td>
<td>&quot;</td>
<td></td>
<td>Shale, sticky grey.</td>
</tr>
<tr>
<td>765</td>
<td>775</td>
<td>&quot;</td>
<td></td>
<td>Shale, red, medium hard.</td>
</tr>
<tr>
<td>775</td>
<td>785</td>
<td>&quot;</td>
<td></td>
<td>Rhyolite(?), red, hard.</td>
</tr>
<tr>
<td>785</td>
<td>815</td>
<td>&quot;</td>
<td></td>
<td>Basaltic rock and shale, reddish color, hard.</td>
</tr>
<tr>
<td>815</td>
<td>825</td>
<td>&quot;</td>
<td></td>
<td>Shale, blue, medium hard to hard.</td>
</tr>
<tr>
<td>825</td>
<td>850</td>
<td>&quot;</td>
<td></td>
<td>Shale, dark grey, medium hard.</td>
</tr>
<tr>
<td>850</td>
<td>870</td>
<td>&quot;</td>
<td></td>
<td>Basalt, hard, black.</td>
</tr>
</tbody>
</table>

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**STATE OF OREGON**

DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

800 Jefferson Street

Portland, Oregon

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<table>
<thead>
<tr>
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<th>Two-State Oil &amp; Gas Company, Inc.</th>
<th>Field</th>
<th>Vale area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well No.</td>
<td>Vale City No. 2</td>
<td>Sec. 23</td>
<td>T. 18 S, R. 45 E</td>
</tr>
</tbody>
</table>

**FORMATIONS PENETRATED BY WELL**

<table>
<thead>
<tr>
<th>Depth to Top of Formations</th>
<th>Thickness</th>
<th>Drilled or Cored</th>
<th>Recovery</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>870</td>
<td>875</td>
<td>Drilled</td>
<td></td>
<td>Rhyolite (?), red, hard.</td>
</tr>
<tr>
<td>875</td>
<td>918</td>
<td>&quot;</td>
<td></td>
<td>Basalt, black, hard, with veins of quartz.</td>
</tr>
<tr>
<td>918</td>
<td>925</td>
<td>&quot;</td>
<td></td>
<td>Red volcaniite rock, hard.</td>
</tr>
<tr>
<td>925</td>
<td>944</td>
<td>&quot;</td>
<td></td>
<td>Basalt, hard, dark grey.</td>
</tr>
<tr>
<td>944</td>
<td>955</td>
<td>&quot;</td>
<td></td>
<td>Shale, red sticky, medium hard.</td>
</tr>
<tr>
<td>955</td>
<td>980</td>
<td>&quot;</td>
<td></td>
<td>Basalt, black, some weathered, some hard.</td>
</tr>
<tr>
<td>980</td>
<td>1010</td>
<td>&quot;</td>
<td></td>
<td>Basalt, black, hard.</td>
</tr>
<tr>
<td>1010</td>
<td>1025</td>
<td>&quot;</td>
<td></td>
<td>Basalt, grey, hard.</td>
</tr>
<tr>
<td>1025</td>
<td>1085</td>
<td>&quot;</td>
<td></td>
<td>Shale (serpentine), green, medium hard, sticky.</td>
</tr>
<tr>
<td>1085</td>
<td>1095</td>
<td>&quot;</td>
<td></td>
<td>Shale, red, sticky, soft.</td>
</tr>
<tr>
<td>1095</td>
<td>1148</td>
<td>&quot;</td>
<td></td>
<td>Shale, greenish, soft, very sticky.</td>
</tr>
<tr>
<td>1148</td>
<td>1160</td>
<td>&quot;</td>
<td></td>
<td>Sand, white, soft.</td>
</tr>
<tr>
<td>1160</td>
<td>1185</td>
<td>&quot;</td>
<td></td>
<td>Shale, green, very sticky, soft.</td>
</tr>
</tbody>
</table>

| T.D. | T.D. |

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Form 3 1/54