

LOG AND CORE RECORD OF OIL OR GAS WELL
(Submit in duplicate)

In compliance with rules and regulations pursuant to ORS 520.095 (Chapter 667 OL 1953).

Operator Two-State Oil & Gas Company, Inc. Field Vale area
Well No. Vale City No. 1, Sec. 21, T. 18 S, R. 45 E, W. B. & M.

FORMATIONS PENETRATED BY WELL

| Depth to | | Thickness | Drilled or Cored | Recovery | Description |
|----------------------|---------------------|-----------|------------------|----------|--------------------------------------------------------------|
| Top of Formation | Bottom of Formation | | | | |
| <u>DRILLER'S LOG</u> | | | | | |
| 0 | 202 | | Drilled | | Not recorded (Holloway Drilling Co.) |
| 202 | 270 | | " | | Soft blue silt. |
| 270 | 420 | | " | | Shale, blue, medium hard. |
| 420 | 430 | | " | | Sandy shale, blue, medium hard. |
| 430 | 450 | | " | | Sticky, soft, blue silt. |
| 450 | 558 | | " | | Shale, blue, medium hard. |
| 558 | 560 | | " | | Sand, grey, hard. |
| 560 | 575 | | " | | Sand, grey, medium hard, containing good flow of warm water. |
| 575 | 635 | | " | | Shale, with sandy streaks, blue, soft. |
| 635 | 655 | | " | | Shale, soft blue |
| 655 | 765 | | " | | Shale, sticky grey. |
| 765 | 775 | | " | | Shale, red, medium hard. |
| 775 | 785 | | " | | Rhyolite(?), red, hard. |
| 785 | 815 | | " | | Basaltic rock and shale, reddish color, hard. |
| 815 | 825 | | " | | Shale, blue, medium hard to hard. |
| 825 | 850 | | " | | Shale, dark grey, medium hard. |
| 850 | 870 | | " | | Basalt, hard, black. |

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|------------------------------|---------------------|-------------|------------------|----------|-------------------------------------------------|
| Top of Formation | Bottom of Formation | | | | |
| <u>DRILLER'S LOG (Cont.)</u> | | | | | |
| 870 | 875 | | Drilled | | Rhyolite (?), red, hard. |
| 875 | 918 | | " | | Basalt, black, hard, with veins of quartz. |
| 918 | 925 | | " | | Red volcanic rock, hard. |
| 925 | 944 | | " | | Basalt, hard, dark grey. |
| 944 | 955 | | " | | Shale, red sticky, medium hard. |
| 955 | 980 | | " | | Basalt, black, some weathered, some hard. |
| 980 | 1010 | | " | | Basalt, black, hard. |
| 1010 | 1025 | | " | | Basalt, grey, hard. |
| 1025 | 1085 | | " | | Shale (serpentine), green, medium hard, sticky. |
| 1085 | 1095 | | " | | Shale, red, sticky, soft. |
| 1095 | 1148 | | " | | Shale, greenish, soft, very sticky. |
| 1148 | 1160 | | " | | Sand, white, soft. |
| 1160 | <u>1185</u> | <u>T.D.</u> | " | | Shale, green, very sticky, soft. |