

STATE OF OREGON
 DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
 1069 State Office Building Portland 1, Oregon

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

Permit 4780

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

Operator NUMBLE OIL & REFINING COMPANY Field Altamont Area Linn Co.
 Well No. Howard J. Miller et ux No. 1, Proj. Sec. 10, T. 10-S, R. 5-E, W. B. & M.

FORMATIONS PENETRATED BY WELL

| Depth to | | Thickness | Drilled or Cored | Recovery | Description |
|------------------|---------------------|-----------|------------------|----------|-------------------------|
| Top of Formation | Bottom of Formation | | | | |
| 0' | 117' | 117 | D | - | Sand and gravel |
| 117 | 393 | 276 | D | | Volcanics and sand |
| 393 | 1299 | 906 | D | | Sandstone and sand |
| 1299 | 1321 | 22 | C | 12' | Siltstone and mudstone |
| 1321 | 2356 | 1077 | D | | Sand and siltstone |
| 2356 | 2425 | 27 | C | 27 | Sandstone |
| 2425 | 3043 | 613 | D | | Sand and shale |
| 3043 | 3426 | 385 | D | | sand |
| 3426 | 3945 | 517 | D | | Sandstone and siltstone |
| 3945 | 4112 | 167 | D | | Sandstone |
| 4112 | 4398 | 286 | D | | Siltstone and sandstone |
| 4398 | 4570 | 172 | D | | Sandstone |
| 4570 | 4948 | 378 | D | | Volcanics |
| 4948 | 4951 | 3 | C | 1 | Basalt |