

REPORT of SUB-SURFACE SURVEY

REICHHOLD ENERGY CORP. COLOMBIA COUNTY NO.1

JOB NO. B 2591

DATE 4-30-79

DIRECTIONAL DRILLING, INC.

BAKERSFIELD
Phone: 324-3574

| DIRECTIONAL DRILLING, INC. | | | | | | | | |
|---|--------------------------------|---------------------------------|---------------------|-------------------|--------|------|--------|----------------------|
| SHEET NO. <u>1</u> | | | | | | | | JOB NO. <u>B2591</u> |
| COMPANY <u>REICHHOLD ENERGY CORPORATION</u> | ADDRESS _____ | | | | | | | |
| WELL <u>COLOMBIA COUNTY #1</u> | FIELD _____ | COUNTY <u>COLOMBIA</u> | STATE <u>OREGON</u> | | | | | |
| MEASURED DEPTH | TERMINAL DRIFT ANGLE | TERMINAL DIRECTION OF DEVIATION | VERTICAL DEPTH | TOTAL COORDINATES | | | | CLOSURE |
| | | | | NORTH | SOUTH | EAST | WEST | |
| 366 | ASSUMED VERTICAL TO THIS DEPTH | | | | | | | |
| 463 | 4° | N 13 W | 462.94 | 3.30 | | | .76 | |
| 523 | 5° | N 62 W | 522.76 | 7.03 | | | 3.63 | |
| 583 | 7° 45' | N 84 W | 582.38 | 8.98 | | | 10.00 | |
| 613 | 8° | W | 612.10 | 9.20 | | | 14.10 | |
| 643 | 8° 15' | S 75 W | 641.80 | 8.64 | | | 18.31 | |
| 769 | 10° | S 52 W | 766.21 | | .27 | | 36.19 | |
| 828 | 10° 45' | S 53 W | 824.24 | | 6.74 | | 44.62 | |
| 954 | 13° | S 51 W | 947.46 | | 23.00 | | 65.30 | |
| 1143 | 12° 45' | S 53 W | 1131.71 | | 48.93 | | 98.49 | |
| 1319 | 13° | S 49 W | 1303.28 | | 73.61 | | 128.97 | |
| 1570 | 12° 45' | S 49 W | 1547.97 | | 110.30 | | 171.18 | |
| 1725 | 12° 30' | S 51 W | 1699.23 | | 132.08 | | 197.13 | |
| 2001 | 11° 15' | S 51 W | 1969.32 | | 167.82 | | 241.27 | |
| 2216 | 10° 45' | S 57 W | 2180.37 | | 191.93 | | 274.46 | |
| 2448 | 10° | S 56 W | 2406 | | 217.58 | | 313.20 | |
| 2468 | 10° 30' | S 56 W | 2428.05 | | 217.58 | | 313.20 | |
| 3104 | 15° 30' | S 61 W | 3047.75 | | 292.33 | | 435.19 | |
| CLOSURE: 524.26' | | | S 56° 06' W | | | | | |
| ALL METHODS OF CALCULATIONS ARE | | | | AVERAGE ANGLE | | | | |
| MD 2448 | PERF | INTERVAL | TVD 2409 | | | | | |
| MD 2460 | | | TVD 2420 | | | | | |

