

**REPORT  
of  
SUB-SURFACE  
SURVEY**

**REICHHOLD ENERGY CO.  
COLOMBIA COUNTY  
13-1 RD NO.1**

**JOB NO.** B 3355

**DATE** 05/13/82

**DIRECTIONAL DRILLING, INC.**

**BAKERSFIELD**

Phone: 324-3574

# DIRECTIONAL DRILLING, INC.

SHEET NO. 1

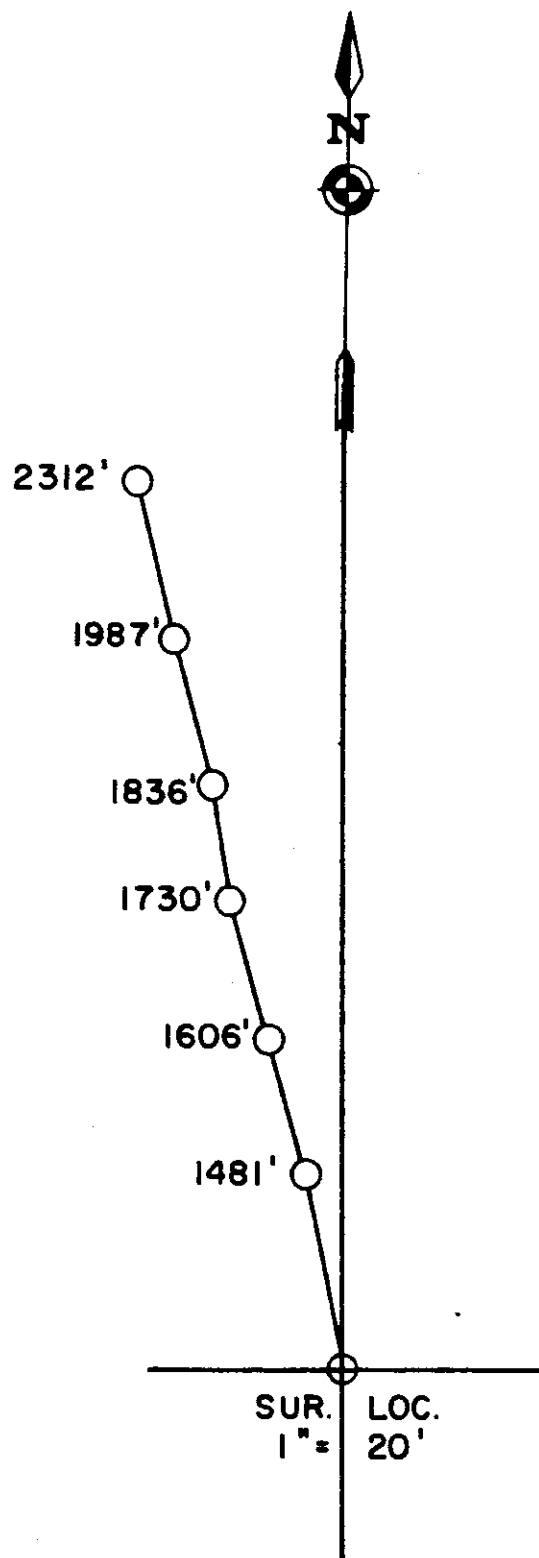
JOB NO B3355

COMPANY REICHOLD ENERGY CORPORATION ADDRESS \_\_\_\_\_

WELL COLOMBIA COUNTY 13-1 BMD#1 FIELD MIST COUNTY COLOMBIA STATE OREGON

MEASURED DEPTH	TERMMAL DRIFT ANGLE	TERMMAL DIRECTION OF DEVIATION	VERTICAL DEPTH	TOTAL COORDINATES				CLOSURE
				NORTH	SOUTH	EAST	WEST	
1005	0°45'	N 08 W	1004.98	6.52			.92	
1380	1°30'	N 23 W	1379.91	13.61			2.89	
1443	4°30'	N 13 W	1442.82	16.75			3.91	
1481	6°30'	N 18 W	1480.65	20.26			4.88	
1606	6°45'	N 13 W	1604.81	34.16			8.73	
1730	6°45'	N 13 W	1727.95	48.36			12.01	
1836	6°30'	N 13 W	1833.24	60.27			14.76	
1940	6°15'	N 13 W =	1936.60	71.53			17.36	
1987	4°30'	N 28 W	1983.39	75.65			18.90	
2125	2°15'	N 18 W	2121.16	83.13			22.08	
2250	2°30'	NORTH	2246.05	88.24			22.89	
2312	3°15'	N 12 E	2307.97	91.34			22.56	
<i>2384</i>		<i>Approx. North</i>	<i>2300'</i>	<i>94.00'</i>			<i>23.00'</i>	
		CLOSURE:	94.08'	N 13°	52' W			
ALL METHODS OF CALCULATIONS ARE AVERAGE ANGLE								

*TOP 100'*



CLOSURE: 94.1' N 13° 52' W

M.D.	2312'
V.D.	2307.97'
NORTH	91.34'
WEST	22.56'