

REPORT of SUB-SURFACE SURVEY

REICHHOLD ENERGY CORP. COLOMBIA COUNTY NO. 4 R.D. NO. 1

JOB NO. B 3357

DATE 08/18/82

DIRECTIONAL DRILLING, INC.

BAKERSFIELD
Phone: 324-3574

DIRECTIONAL DRILLING, INC.

SHEET NO. 1

JOB NO. B3357

COMPANY REICHHOLD ENERGY CORPORATION ADDRESS _____

WELL COLOMBIA COUNTY #4 RD #1 FIELD COUNTY COLOMBIA COUNTY MIST STATE OREGON

MEASURED DEPTH	TERMINAL DRIFT ANGLE	TERMINAL DIRECTION OF DEVIATION	VERTICAL DEPTH	TOTAL COORDINATES				CLOSURE
				NORTH	SOUTH	EAST	WEST	
475	1°	N 27 E	474.98	3.70		1.88		
530	4°30'	S 76 W	529.92	5.77		.24		
591	9°45'	S 74 W	590.45	3.81			7.07	
651	10°15'	S 72 W	649.53	.76			17.03	
712	14°	S 72 W	709.17		3.20		29.22	
831	19°	S 77 W	823.27		12.23		61.79	
983	20°	S 78 W	966.55		23.21		111.32	
1108	19°30'	S 79 W	1084.20		31.63		152.72	
1242	19°45'	S 79 W	1210.42		40.22		196.90	
1416	19°	S 80 W	1374.56		50.74		253.65	
1572	18°45'	S 85 W	1522.17		57.33		303.69	
1724	18°	S 89 W	1666.42		59.84		351.54	
1972	13°30'	N 86 W	1905.11		58.07		418.83	
2128	11°	N 83 W	2057.56		54.90		451.78	
2221	9°	N 74 W	2149.15		51.68		467.60	
2321			224 ^{VP}		~50.00		~47.83	
2377	6°45'	N 83 W	2303.68		47.42		488.55	
CLOSURE:			490.85'	S 84° 27' W				
ALL METHODS OF CALCULATIONS ARE AVERAGE ANGLE								

60. 2894'

2221' 2149' 99.3

MD2321' = 186 2248' TVD 155'

2377' = 2304'

