

REPORT of SUB-SURFACE SURVEY

REICHHOLD ENERGY CORP.

HAMMERBERG NO.1 R.D.

JOB NO. B 2598

DATE 9-24-79

DIRECTIONAL DRILLING, INC.

BAKERSFIELD

Phone: 324-3574

DIRECTIONAL DRILLING, INC.

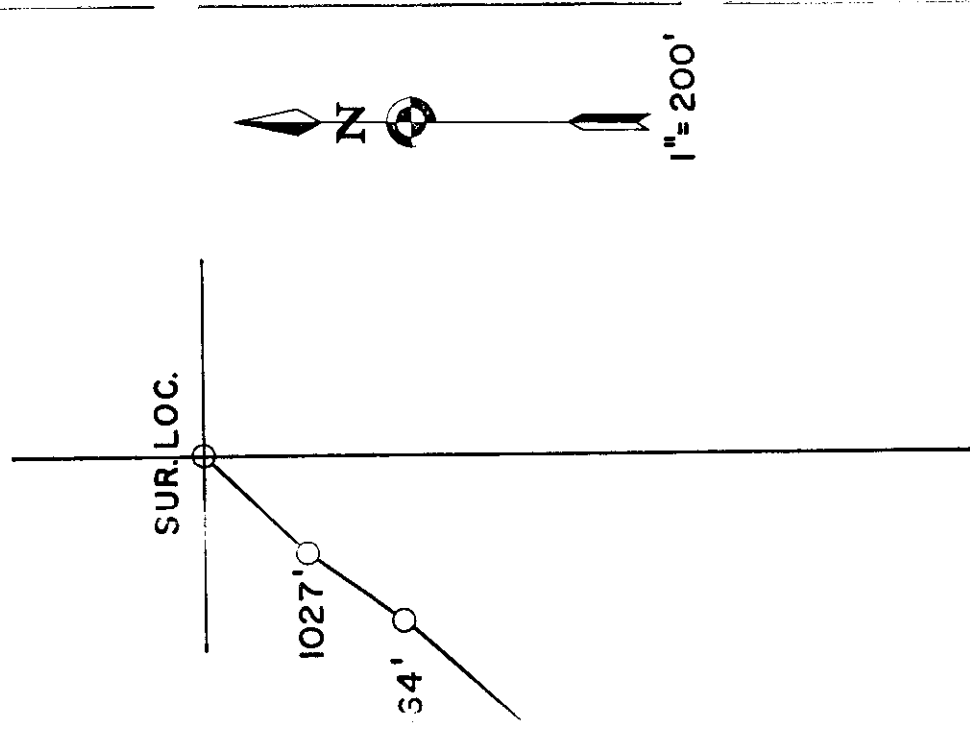
SHEET NO. 1

JOB NO 82593

COMPANY REICHHOLD ENERGY CORPORATION ADDRESS _____

WELL HAMMERBERG #1 R.D. FIELD COLOMBIA COUNTY COLOMBIA STATE OREGON

MEASURED DEPTH	TERMINAL DRIFT ANGLE	TERMINAL DIRECTION OF DEVIATION	VERTICAL DEPTH	TOTAL COORDINATES				CLOSURE
				NORTH	SOUTH	EAST	WEST	
460			460.00	ASSUMED VERTICAL TO THIS DEPTH				
532	5° 30'	S 51 W	531.92		2.17		2.68	
592	9° 15'	S 56 W	591.42		6.76		8.88	
652	12°	S 54 W	650.39		13.10		17.94	
683	13° 15'	S 49 W	680.64		17.32		23.24	
713	15°	S 49 W	709.74		22.12		28.77	
773	18°	S 51 W	767.26		33.08		41.82	
833	20° 30'	S 47 W	823.91		46.05		56.75	
863	21°	S 42 W	851.96		53.63		64.20	
893	21° 30'	S 41 W	879.92		61.78		71.40	
953	21° 30'	S 37 W	935.75		78.87		85.24	
1027	20° 30'	S 33 W	1004.83		100.59		100.45	
1181	21° 45'	S 34 W	1148.48		146.87		131.09	
1364	23° 30'	S 37 W	1317.40		204.19		171.97	
1600	25° 30'	S 41 W	1532.15		280.24		233.56	
1857	26° 30'	S 46 W	1763.14		361.97		311.11	
2106	26°	S 50 W	1986.46		435.66		392.95	
2332	27°	S 54 W	2188.72		497.74		472.42	
3318	26° 30'	S 64 W	3069.20		726.31		352.82	
CLOSURE:		1120.20'	S 49° 34' W					
ALL METHODS OF CALCULATIONS ARE				AVERAGE ANGLE				



M.D. 3318'
V.D. 3069.20'
SOUTH 726.31'
WEST 852.82'

