

Quarles
Drilling
Corporation

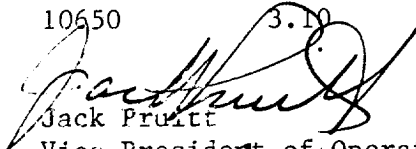
RECEIVED
DEC 12 1983
Odessa, Texas

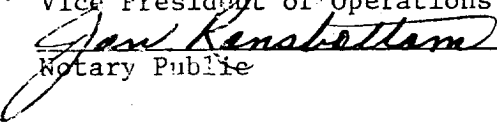
Reading & Bates Petroleum Company
810 N. Dixie, Room 202
Odessa, TX 79761

CASWELL 32-1
LEA CO. NEW MEXICO

Attn: Janet

<u>Measured Depth</u>	<u>Course Length</u>	<u>Angle of Inclination</u>	<u>Displacement per Hundred Ft. (sine of angleX100)</u>	<u>Course Displacement</u>	<u>Accumulative Displacement</u>
120	1.20	.25	.44	.23	.23
465	3.45	.75	1.31	4.52	5.05
684	2.19	1.0	1.75	3.83	8.88
1375	6.91	1.0	1.75	12.09	20.97
1700	3.25	1.0	1.75	5.69	26.66
2013	3.13	1.0	1.75	5.48	32.14
2356	3.43	.75	1.31	4.49	36.63
2646	2.90	1.0	1.75	5.08	41.71
3000	3.54	1.0	1.75	6.20	47.91
3313	3.13	.50	.87	2.72	50.63
3649	3.36	1.0	1.75	5.88	56.51
3910	2.61	.75	1.31	3.42	59.93
4270	3.60	.75	1.31	4.72	64.65
4614	3.44	1.0	1.75	6.02	70.67
4915	3.01	1.0	1.75	5.27	75.94
4950	.35	.75	1.31	.46	76.40
5259	3.09	1.0	1.75	5.41	81.81
5569	3.10	1.0	1.75	5.43	87.24
5900	3.31	.75	1.31	4.34	91.58
6226	3.26	.50	.87	2.84	94.42
6483	2.57	.75	1.31	3.37	97.79
6924	4.41	.25	.44	1.94	99.73
7005	.81	.25	.44	.37	100.10
7537	5.32	.75	1.31	6.97	107.07
7835	2.98	.25	.44	1.31	108.38
8348	5.13	1.50	2.62	13.44	121.82
8424	.76	1.0	1.75	1.33	123.15
8710	2.86	1.0	1.75	5.01	128.16
8993	2.83	1.25	2.18	6.17	134.33
9315	3.22	1.25	2.18	7.02	141.35
9690	3.75	1.0	1.75	6.56	147.91
10197	5.07	1.0	1.75	8.87	156.78
10340	1.43	1.50	2.62	3.75	160.53
10650	3.10	.75	1.31	4.06	164.59


Jack Pruitt
Vice President of Operations


Jan Renabottom
Notary Public

Oct. 18, 1987
My Commission Expires