

Robinson Bros. Drilling Company
1000 Gihls Tower West
Midland, Texas 79701

New Mexico Oil & Gas Commission
P. O. Box 1980
Hobbs, New Mexico 88240

Gentlemen:

We submit the following deviation surveys for your information:

Field Name _____ County Lea State New Mexico
Operator Mesa Petroleum Company Address P. O. Box 2009 City Amarillo, Texas
Lease Name Knowles West Well No. 1 Section 34 Township 16S
Range 37E

Depth(feet)	Inclination(degrees)	Displacement(feet)	Accumulative Displacement(feet)
400	1/4	1.75	1.75
892	1/2	4.29	6.04
1392	1/2	4.36	10.40
1862	3/4	6.15	16.55
2110	1/4	1.08	17.63
2612	1/2	4.38	22.01
3202	1 1/2	15.45	37.46
3704	3/4	6.57	44.03
4165	3/4	6.03	50.06
4510	1	6.02	56.08
4890	1	6.63	62.71
5332	3/4	5.78	68.49
5830	3/4	6.52	75.01
6280	1 3/4	13.74	88.75
6770	1 1/2	12.83	101.58
7264	1	8.62	110.20
7785	1	9.09	119.29
8109	1 3/4	9.89	128.38
8370	2 1/2	11.38	139.76
8855	3 3/4	31.72	171.48
8965	4 3/4	9.11	180.59
9330	5 1/4	33.40	213.99
9445	5 3/4	11.51	225.50
9650	5	17.87	243.37
9960	4 3/4	25.67	269.04
10,518	4 1/4	41.35	310.39
10,900	5 1/4	34.95	345.34

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Total Displacement