

MARCUM DRILLING COMPANY

P. O. BOX 5094
MIDLAND, TEXAS

INCLINATION REPORT

THE FOLLOWING IS A LISTING OF THE VARIOUS DEVIATIONS THAT WERE MADE BY MARCUM DRILLING COMPANY OF MIDLAND, TEXAS, WHILE DRILLING THE FOLLOWING DESCRIBED WELL.

WELL NAME AND NUMBER Maliamar North East #4 COUNTY Lee STATE New Mexico
FIELD NAME West Kenneth WELL LOCATION SW/4 NE/4 of Section 31, T-16-S, R-33-E.
OPERATOR Apache Corporation ADDRESS 2000 Wilco Building CITY Midland, Texas

Depth	Inclination	Displacement (feet)	Accumulative Displacement
132	1/4	.5808	.5808
390	3/4	3.4056	3.9864
900	1/2	4.4880	8.4744
1400	1/4	2.2000	10.6744
1900	3/4	6.600	17.2744
2582	1	11.935	29.2094
2825	1-1/4	5.2974	34.5068
3140	1	5.5125	40.0193
3340	1-1/4	4.3600	44.3793
3579	3/4	3.1548	47.5341
3909	1/4	1.4520	48.9861
4271	3/4	3.4584	52.4445
4670	1/4	1.7556	54.2001
4890	3/4	2.9040	57.1041
5390	3/4	6.6000	63.7041
5840	1/4	2.4200	66.1241
6270	3/4	5.6760	71.8001
6691	3/4	3.2208	75.0209
6975	3/4	3.7488	78.7697
7085	3/4	1.4520	80.2217
7245	1/2	1.4080	81.6297
7788	1	9.5025	91.1322
8010	1	3.8850	95.0172
8220	1-1/4	4.5780	99.5952
8540	1	5.6000	105.1952
8804	1-1/4	5.7552	110.9504
9140	1-1/2	8.8032	119.7536
9320	2-1/4	7.0740	126.8276
9675	1-3/4	10.8630	137.6906
10,000	1-1/2	8.5150	146.2056
10,500	1	8.7500	154.9556
10,924	1-1/2	11.1088	Total Inclination ... 166.0644 feet.

The above surveys were taken inside the 4-1/2" drill pipe and drill collars.

I certify the above records to be true.

Delton Marcum
Delton Marcum Sec. & Treas.

MARCUM DRILLING COMPANY

Patricia Ladd

Notary Public - Midland County, Texas

