

MARATHON OIL COMPANY
Hansen State #9, slot #1
Monument North, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 6
Your ref : Gyro/MWD
Last revised : 15-Jul-1999

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
8385.00	95.20	357.30	7134.98	1033.39 N	2.26	1033.39
8416.00	95.40	357.00	7132.12	1064.22 N	1.16	1064.22
8447.00	94.00	356.90	7129.58	1095.07 N	4.53	1095.07
8479.00	94.00	356.50	7127.35	1126.94 N	1.25	1126.94
8499.00	92.40	355.20	7126.23	1146.86 N	10.30	1146.86
8510.00	91.60	355.10	7125.85	1157.81 N	7.33	1157.81
8542.00	89.80	355.10	7125.46	1189.69 N	5.62	1189.69
8573.00	90.10	355.00	7125.48	1220.58 N	1.02	1220.58
8605.00	90.90	355.80	7125.21	1252.47 N	3.54	1252.47
8636.00	91.90	355.90	7124.45	1283.38 N	3.24	1283.38
8667.00	92.20	356.70	7123.34	1314.30 N	2.75	1314.30
8699.00	91.70	356.80	7122.25	1346.23 N	1.59	1346.23
8729.00	90.80	356.10	7121.60	1376.16 N	3.80	1376.16
8762.00	90.20	356.10	7121.31	1409.08 N	1.82	1409.08
8793.00	90.80	356.00	7121.04	1440.01 N	1.96	1440.01
8825.00	90.80	356.10	7120.59	1471.93 N	0.31	1471.93
8856.00	90.40	355.60	7120.27	1502.84 N	2.07	1502.84
8889.00	90.50	355.40	7120.01	1535.74 N	0.68	1535.74
8918.00	90.00	355.40	7119.88	1564.65 N	1.72	1564.65
8950.00	88.20	355.60	7120.38	1596.54 N	5.66	1596.54
8981.00	87.50	355.50	7121.55	1627.43 N	2.28	1627.43
9013.00	87.40	355.60	7122.97	1659.30 N	0.44	1659.30
9044.00	86.70	354.90	7124.56	1690.15 N	3.19	1690.15
9076.00	86.60	354.70	7126.43	1721.97 N	0.70	1721.97
9166.00	88.20	355.50	7130.52	1811.54 N	1.99	1811.54

All data is in feet unless otherwise stated.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1814.50 on azimuth 356.73 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 0.00 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ