

MARATHON OIL COMPANY
Indian Hills Unit No.22,slot #1
Indian Basin,EDDY COUNTY, NM.

SURVEY LISTING Page 1
Your ref : Gyro/MWD/SLB Log
Last revised : 11-Jul-2000

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
0.00	0.00	0.00	0.00	0.00 E	0.00	0.00
200.00	1.02	93.51	199.99	1.77 E	0.51	1.13
400.00	1.28	73.37	399.95	5.67 E	0.24	4.18
600.00	1.39	81.01	599.90	10.21 E	0.11	8.01
800.00	1.49	94.02	799.83	15.20 E	0.17	11.56
1000.00	1.58	100.48	999.76	20.50 E	0.10	14.67
1200.00	1.24	109.24	1199.70	25.26 E	0.20	17.03
1400.00	1.40	115.40	1399.65	29.52 E	0.11	18.64
1600.00	1.64	124.09	1599.58	34.09 E	0.16	19.82
1800.00	1.57	123.25	1799.50	38.74 E	0.04	20.73
2000.00	1.62	121.30	1999.42	43.45 E	0.04	21.76
2200.00	1.32	135.22	2199.36	47.49 E	0.23	22.25
2400.00	1.10	140.93	2399.31	50.33 E	0.13	21.89
2600.00	0.96	133.17	2599.28	52.76 E	0.10	21.62
2800.00	0.91	137.05	2799.25	55.07 E	0.04	21.50
3000.00	0.71	145.66	2999.23	56.85 E	0.12	21.12
3200.00	0.91	150.62	3199.21	58.33 E	0.11	20.37
3400.00	1.00	149.57	3399.18	59.99 E	0.05	19.38
3600.00	0.84	162.29	3599.16	61.32 E	0.13	18.17
3690.00	0.64	171.72	3689.15	61.59 E	0.26	17.54 Tie on to gyro w/ MWD
3759.00	0.50	153.10	3758.15	61.78 E	0.33	17.19
3800.00	0.40	145.00	3799.15	61.95 E	0.29	17.10
3832.00	1.00	62.00	3831.15	62.26 E	3.22	17.34
3862.00	1.90	40.00	3861.14	62.81 E	3.47	18.09
3894.00	3.00	35.00	3893.11	63.63 E	3.50	19.45

All data is in feet unless otherwise stated.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1180.74 on azimuth 44.22 degrees from wellhead.

Vertical section is from N 0.00 E 0.00 on azimuth 42.99 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ