

Marathon Oil Company
INDIAN HILLS UNIT #35, slot #1
INDIAN BASIN, Eddy County New Mexico

SURVEY LISTING Page 2
Your ref : MWD
Last revised : 22-Jul-2002

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
4943.00	14.10	348.00	4825.24	783.68 N	129.59 W	1.17	794.31
5006.00	13.90	347.30	4886.37	798.57 N	132.85 W	0.42	809.53
5069.00	14.50	348.70	4947.44	813.68 N	136.06 W	1.10	824.96
5132.00	15.20	349.70	5008.34	829.54 N	139.08 W	1.18	841.10
5195.00	16.70	350.40	5068.91	846.59 N	142.07 W	2.40	858.41
5258.00	17.50	351.50	5129.13	864.89 N	144.98 W	1.37	876.93
5318.00	17.90	351.50	5186.29	882.93 N	147.68 W	0.67	895.17
5382.00	18.20	350.50	5247.14	902.52 N	150.78 W	0.67	915.00
5444.00	18.50	349.70	5305.99	921.74 N	154.14 W	0.63	934.52
5507.00	19.10	350.80	5365.62	941.75 N	157.57 W	1.11	954.82
5571.00	19.20	350.80	5426.08	962.48 N	160.93 W	0.16	975.81
5634.00	19.60	351.20	5485.51	983.15 N	164.20 W	0.67	996.74
5697.00	19.40	352.20	5544.89	1003.95 N	167.24 W	0.62	1017.77
5760.00	18.40	351.90	5604.49	1024.16 N	170.06 W	1.59	1038.17
5823.00	18.50	351.90	5664.26	1043.90 N	172.87 W	0.16	1058.11
5884.00	17.80	351.20	5722.22	1062.70 N	175.66 W	1.20	1077.11
5946.00	17.80	352.20	5781.25	1081.45 N	178.40 W	0.49	1096.06
6009.00	18.30	352.60	5841.15	1100.80 N	180.98 W	0.82	1115.57
6072.00	19.10	353.30	5900.83	1120.85 N	183.45 W	1.32	1135.75
6136.00	18.90	353.30	5961.34	1141.54 N	185.88 W	0.31	1156.57
6200.00	17.90	353.60	6022.07	1161.61 N	188.19 W	1.57	1176.75
6262.00	18.50	354.00	6080.96	1180.86 N	190.28 W	0.99	1196.09
6325.00	18.60	354.30	6140.69	1200.80 N	192.32 W	0.22	1216.10
6389.00	19.10	353.60	6201.26	1221.36 N	194.50 W	0.86	1236.75
6452.00	19.70	352.90	6260.68	1242.14 N	196.96 W	1.02	1257.66
6516.00	20.00	352.90	6320.88	1263.71 N	199.65 W	0.47	1279.38
6579.00	20.20	352.60	6380.04	1285.18 N	202.38 W	0.36	1301.02
6642.00	19.50	351.90	6439.30	1306.38 N	205.27 W	1.17	1322.40
6706.00	18.80	352.20	6499.76	1327.17 N	208.17 W	1.10	1343.39
6769.00	19.20	352.20	6559.32	1347.50 N	210.95 W	0.63	1363.90
6832.00	19.30	352.60	6618.80	1368.08 N	213.70 W	0.26	1384.66
6896.00	19.40	352.90	6679.19	1389.12 N	216.38 W	0.22	1405.86
6959.00	19.90	354.30	6738.52	1410.17 N	218.73 W	1.09	1427.02
7021.00	20.60	355.00	6796.69	1431.54 N	220.73 W	1.19	1448.43
7084.00	20.10	355.70	6855.75	1453.37 N	222.51 W	0.88	1470.27
7147.00	19.20	355.00	6915.08	1474.49 N	224.23 W	1.48	1491.39
7211.00	20.00	355.00	6975.38	1495.87 N	226.10 W	1.25	1512.81
7274.00	21.00	353.30	7034.39	1517.82 N	228.35 W	1.85	1534.83
7338.00	20.60	351.20	7094.21	1540.34 N	231.41 W	1.32	1557.55
7400.00	20.20	351.20	7152.33	1561.69 N	234.72 W	0.65	1579.16
7464.00	19.20	350.80	7212.58	1583.00 N	238.09 W	1.58	1600.73
7528.00	17.20	351.50	7273.37	1602.75 N	241.17 W	3.14	1620.72
7591.00	15.70	352.20	7333.79	1620.41 N	243.71 W	2.40	1638.56
7655.00	15.40	353.30	7395.45	1637.43 N	245.87 W	0.66	1655.71
7718.00	14.70	351.90	7456.29	1653.65 N	247.98 W	1.25	1672.06
7782.00	14.90	349.70	7518.17	1669.78 N	250.59 W	0.93	1688.40
7845.00	15.70	351.20	7578.93	1686.18 N	253.34 W	1.42	1705.02
7909.00	17.20	352.20	7640.31	1704.11 N	255.95 W	2.39	1723.14
7970.00	16.50	352.20	7698.69	1721.63 N	258.35 W	1.15	1740.82
8033.00	16.30	351.90	7759.13	1739.25 N	260.81 W	0.34	1758.61

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 2032.43 on azimuth 351.20 degrees from wellhead.
Vertical section is from wellhead on azimuth 350.90 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ