

Marathon Oil Company
Indian Hills Unit No. 30.#30 ST1
Indian Basin, EDDY COUNTY, NM.

SURVEY LISTING Page 3
Your ref : ST1 BHI MWD 6142'-7981'
Last revised : 23-Aug-2001

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
7047.00	17.70	22.30	6823.73	1392.77 N	587.05 E	1.30	1510.39
7109.00	17.50	22.30	6882.83	1410.11 N	594.16 E	0.32	1529.13
7169.00	17.30	23.30	6940.08	1426.65 N	601.11 E	0.60	1547.06
7230.00	17.10	23.70	6998.35	1443.19 N	608.31 E	0.38	1565.08
7292.00	17.40	23.70	7057.57	1460.03 N	615.70 E	0.48	1583.44
7354.00	17.70	23.30	7116.68	1477.17 N	623.15 E	0.52	1602.11
7416.00	18.00	23.70	7175.70	1494.60 N	630.73 E	0.52	1621.09
7479.00	18.40	24.40	7235.54	1512.57 N	638.75 E	0.72	1640.74
7544.00	18.30	24.00	7297.24	1531.23 N	647.14 E	0.25	1661.16
7606.00	17.70	23.30	7356.20	1548.78 N	654.82 E	1.03	1680.30
7668.00	16.40	25.80	7415.48	1565.32 N	662.36 E	2.41	1698.43
7731.00	15.20	27.20	7476.10	1580.67 N	670.01 E	2.00	1715.50
7793.00	15.60	27.20	7535.87	1595.32 N	677.53 E	0.65	1731.86
7855.00	16.60	26.50	7595.44	1610.66 N	685.30 E	1.64	1748.95
7919.00	17.20	25.80	7656.67	1627.36 N	693.50 E	0.99	1767.48
7981.00	17.90	25.40	7715.79	1644.22 N	701.57 E	1.15	1786.10

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1787.64 on azimuth 23.11 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 20.73 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ