

Scientific Drilling International

Survey Report

Company: MARATHON OIL COMPANY
Field: Indian Basin
Site: Eddy County, NM
Well: Indian Basin "A" #4
Wellpath: VH - Job #32K0801457

Date: 8/30/2001 **Time:** 14:31:26 **Page:** 1
Co-ordinate(NE) Reference: Site: Eddy County, NM, True North
Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level
Section (VS) Reference: Well (0.0E,0.0N,293.3Az)
Survey Calculation Method: Minimum Curvature

Survey: 8/7/01
 KSRG 0'-9400'

Start Date: 8/8/2001

Company: Scientific Drilling International
Tool: Keeper

Engineer: Gary DeSpain

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClD ft	ClA deg
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.00
100.0	0.08	10.45	100.0	0.0	0.1	0.0	0.1	10.45
200.0	0.22	38.95	200.0	0.0	0.3	0.1	0.3	27.00
300.0	0.28	356.11	300.0	0.0	0.7	0.3	0.7	20.20
400.0	0.45	349.36	400.0	0.4	1.3	0.2	1.3	7.01
500.0	0.82	352.41	500.0	1.0	2.4	0.0	2.4	359.86
600.0	1.08	353.87	600.0	1.8	4.1	-0.2	4.1	357.16
700.0	1.49	6.19	700.0	2.6	6.3	-0.2	6.3	358.53
800.0	1.89	17.36	799.9	3.2	9.1	0.5	9.2	2.95
900.0	1.94	28.25	899.9	3.2	12.2	1.8	12.3	8.22
1000.0	1.90	31.10	999.8	2.8	15.1	3.4	15.5	12.75
1100.0	1.70	33.67	1099.7	2.3	17.8	5.1	18.5	16.01
1200.0	1.57	33.22	1199.7	1.8	20.2	6.7	21.2	18.32
1300.0	1.47	31.69	1299.7	1.4	22.4	8.1	23.8	19.88
1400.0	1.49	31.01	1399.6	1.0	24.6	9.4	26.3	21.00
1500.0	1.53	33.27	1499.6	0.6	26.8	10.8	28.9	22.00
1600.0	1.48	38.16	1599.6	0.1	29.0	12.4	31.5	23.13
1700.0	1.48	43.75	1699.5	-0.7	30.9	14.1	34.0	24.47
1800.0	1.43	45.56	1799.5	-1.6	32.7	15.8	36.4	25.85
1900.0	1.45	47.16	1899.5	-2.6	34.5	17.7	38.7	27.15
2000.0	1.45	46.23	1999.4	-3.6	36.2	19.5	41.1	28.33
2100.0	1.47	44.63	2099.4	-4.6	38.0	21.3	43.6	29.31
2200.0	1.54	43.26	2199.4	-5.5	39.9	23.1	46.1	30.14
2300.0	1.58	46.36	2299.3	-6.5	41.8	25.1	48.7	30.95
2400.0	1.58	42.95	2399.3	-7.5	43.8	27.0	51.4	31.68
2500.0	1.55	45.27	2499.3	-8.5	45.7	28.9	54.1	32.30
2600.0	1.60	47.79	2599.2	-9.6	47.6	30.9	56.8	32.98
2700.0	1.64	49.06	2699.2	-10.8	49.5	33.0	59.5	33.71
2800.0	1.63	45.50	2799.1	-12.0	51.4	35.1	62.3	34.32
2900.0	1.66	44.57	2899.1	-13.0	53.4	37.1	65.1	34.79
3000.0	1.70	39.81	2999.1	-14.0	55.6	39.1	68.0	35.11
3100.0	1.71	36.06	3099.0	-14.7	58.0	40.9	71.0	35.23
3200.0	1.73	36.57	3199.0	-15.4	60.4	42.7	74.0	35.27
3300.0	1.74	34.82	3298.9	-16.0	62.8	44.5	77.0	35.29
3400.0	1.71	36.29	3398.9	-16.7	65.3	46.2	80.0	35.30
3500.0	1.46	36.28	3498.8	-17.3	67.5	47.9	82.8	35.33
3600.0	1.35	30.80	3598.8	-17.8	69.6	49.2	85.2	35.28
3700.0	1.28	23.78	3698.8	-17.9	71.6	50.3	87.5	35.08
3800.0	1.30	25.06	3798.8	-18.0	73.6	51.2	89.7	34.81
3900.0	1.22	20.81	3898.7	-18.0	75.7	52.1	91.8	34.53
4000.0	1.08	15.27	3998.7	-17.8	77.6	52.7	93.8	34.19
4100.0	0.84	341.43	4098.7	-17.2	79.2	52.7	95.1	33.65
4200.0	0.97	301.09	4198.7	-15.8	80.3	51.7	95.5	32.80
4300.0	1.25	280.64	4298.7	-13.9	80.9	49.9	95.1	31.68
4400.0	1.54	276.48	4398.6	-11.6	81.3	47.5	94.2	30.32
4500.0	1.88	265.76	4498.6	-8.8	81.3	44.6	92.7	28.72
4600.0	2.40	255.22	4598.5	-5.7	80.7	40.9	90.5	26.89
4700.0	2.91	253.21	4698.4	-2.1	79.4	36.5	87.4	24.66