

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
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,293.3Azi)
Survey Calculation Method: Minimum Curvature

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Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg
4800.0	3.19	254.22	4798.3	2.0	77.9	31.3	84.0	21.92
4900.0	3.24	255.52	4898.1	6.4	76.5	25.9	80.7	18.74
5000.0	3.20	257.97	4998.0	10.9	75.2	20.5	77.9	15.23
5100.0	3.18	265.33	5097.8	15.6	74.4	15.0	75.8	11.39
5200.0	3.23	270.84	5197.6	20.7	74.2	9.4	74.8	7.22
5300.0	3.26	273.67	5297.5	25.9	74.4	3.7	74.5	2.88
5400.0	3.32	273.94	5397.3	31.4	74.8	-2.0	74.8	358.48
5500.0	3.50	275.60	5497.1	37.0	75.3	-7.9	75.7	354.00
5600.0	3.63	275.35	5597.0	42.9	75.9	-14.1	77.2	349.47
5700.0	3.71	275.34	5696.7	49.0	76.5	-20.5	79.2	345.01
5800.0	3.65	274.79	5796.5	55.1	77.0	-26.9	81.6	340.77
5900.0	3.34	273.82	5896.4	60.9	77.5	-33.0	84.2	336.96
6000.0	2.88	272.22	5996.2	66.0	77.8	-38.4	86.7	333.74
6100.0	2.65	272.78	6096.1	70.5	78.0	-43.2	89.1	331.02
6200.0	2.53	273.94	6196.0	74.7	78.3	-47.7	91.6	328.64
6300.0	2.18	271.26	6295.9	78.6	78.4	-51.8	94.0	326.56
6400.0	2.08	272.21	6395.8	82.0	78.6	-55.5	96.2	324.75
6500.0	2.02	270.16	6495.8	85.3	78.6	-59.1	98.4	323.08
6600.0	2.03	274.20	6595.7	88.6	78.8	-62.6	100.6	321.51
6700.0	2.07	272.32	6695.6	92.0	79.0	-66.2	103.0	320.03
6800.0	2.26	267.76	6795.6	95.5	79.0	-70.0	105.5	318.46
6900.0	2.25	263.81	6895.5	98.9	78.7	-73.9	107.9	316.80
7000.0	2.15	260.74	6995.4	102.2	78.2	-77.7	110.2	315.17
7100.0	2.15	260.15	7095.4	105.4	77.5	-81.4	112.4	313.61
7200.0	2.68	266.55	7195.3	109.1	77.1	-85.6	115.2	312.01
7300.0	4.91	276.16	7295.0	115.2	77.4	-92.2	120.3	310.02
7400.0	6.39	277.72	7394.6	124.7	78.6	-101.9	128.7	307.64
7500.0	5.85	276.36	7494.0	134.9	79.9	-112.5	138.0	305.39
7600.0	5.50	277.68	7593.5	144.4	81.1	-122.3	146.8	303.55
7700.0	5.04	274.90	7693.1	153.2	82.1	-131.5	155.0	302.00
7800.0	4.35	274.97	7792.7	161.0	82.8	-139.6	162.3	300.68
7900.0	3.01	272.40	7892.5	167.0	83.3	-146.0	168.1	299.70
8000.0	2.34	273.56	7992.4	171.4	83.5	-150.7	172.3	299.00
8100.0	1.73	280.16	8092.3	174.8	83.9	-154.2	175.5	298.55
8200.0	1.96	269.06	8192.3	177.8	84.1	-157.4	178.5	298.13
8300.0	1.97	259.03	8292.2	180.8	83.8	-160.8	181.3	297.53
8400.0	1.66	248.74	8392.2	183.3	82.9	-163.8	183.6	296.85
8500.0	1.32	239.78	8492.2	185.0	81.8	-166.2	185.2	296.22
8600.0	1.11	238.06	8592.1	186.2	80.7	-168.0	186.4	295.67
8700.0	1.13	238.92	8692.1	187.3	79.7	-169.7	187.4	295.17
8800.0	1.12	243.93	8792.1	188.6	78.8	-171.4	188.6	294.69
8900.0	0.74	254.72	8892.1	189.7	78.2	-172.9	189.7	294.34
9000.0	0.88	267.02	8992.1	190.9	78.0	-174.3	190.9	294.11
9100.0	1.00	265.18	9092.1	192.3	77.9	-175.9	192.4	293.88
9200.0	1.21	271.89	9192.0	194.1	77.8	-177.8	194.1	293.64
9300.0	1.21	273.10	9292.0	196.1	77.9	-179.9	196.1	293.41
9400.0	1.30	284.65	9392.0	198.2	78.3	-182.1	198.2	293.26