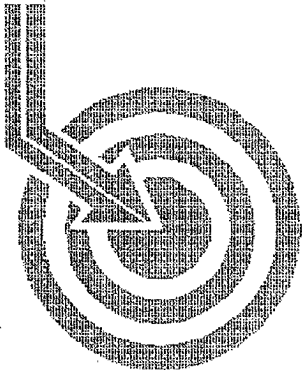


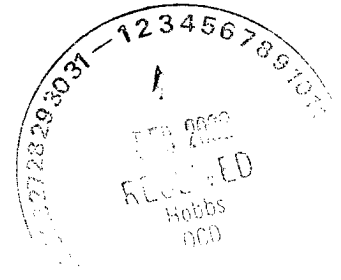
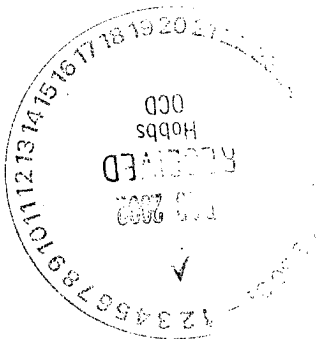


Scientific Drilling

SUR: E-4-20s-37e, 2310/N & 600/W
BHL: E-4-20s-37e, 2330/N & 472/W
API #30-025-35934

MATADOR PETROLEUM

Field: Monument
Site: Lea County, NM
Well: Cooper 4 #3
Wellpath: VH - Job #32K0702220
Survey: 7/11/02



This survey is correct to the best of my knowledge
and is supported by actual field data.

[Signature].....Company Representative

Scientific Drilling International

Survey Report

Company: MATADOR PETROLEUM	Date: 8/30/2002	Time: 09:53:10	Page: 1
Field: Monument	Co-ordinate(NE) Reference:	Site: Lea County, NM, True North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0 above Mean Sea Level	
Well: Cooper 4 #3	Section (VS) Reference:	Well (0.0E, 0.0N, 261.3Az)	
Wellpath: VH - Job #32K0702220	Survey Calculation Method:	Minimum Curvature	

Survey: 7/11/02 KSRG 0'-6774'	Start Date: 8/30/2002
Company: Scientific Drilling Internatio	Engineer: Angel Guebara
Tool: Keeper	

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg	DLS deg/100ft
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0.00
100.0	0.16	173.32	100.0	-0.1	-0.1	0.0	0.1	173.32	0.16
200.0	0.10	181.51	200.0	-0.4	-0.4	0.0	0.4	175.28	0.06
300.0	0.16	225.38	300.0	-0.5	-0.5	-0.1	0.6	187.48	0.11
400.0	0.04	211.52	400.0	-0.7	-0.7	-0.2	0.7	195.70	0.12
500.0	0.26	114.76	500.0	-0.8	-0.8	0.0	0.8	180.24	0.27
600.0	0.24	104.76	600.0	-1.0	-1.0	0.4	1.0	156.91	0.05
700.0	0.26	122.51	700.0	-1.1	-1.1	0.8	1.4	144.63	0.08
800.0	0.36	104.61	800.0	-1.3	-1.3	1.3	1.9	135.72	0.14
900.0	0.32	109.40	900.0	-1.5	-1.5	1.9	2.4	128.85	0.05
1000.0	0.55	152.22	1000.0	-2.0	-2.0	2.3	3.1	130.65	0.38
1100.0	0.73	201.04	1100.0	-3.0	-3.0	2.3	3.8	142.32	0.55
1200.0	0.95	227.62	1200.0	-4.2	-4.2	1.5	4.4	160.22	0.44
1300.0	1.13	234.45	1300.0	-5.3	-5.3	0.1	5.3	178.99	0.22
1400.0	1.13	234.60	1399.9	-6.5	-6.5	-1.5	6.6	193.18	0.00
1500.0	0.90	242.10	1499.9	-7.4	-7.4	-3.0	8.0	202.15	0.26
1600.0	0.42	237.67	1599.9	-8.0	-8.0	-4.0	8.9	206.77	0.48
1700.0	0.72	350.36	1699.9	-7.5	-7.5	-4.4	8.7	210.46	0.96
1800.0	1.17	348.53	1799.9	-5.9	-5.9	-4.7	7.6	218.70	0.45
1900.0	1.43	355.20	1899.9	-3.7	-3.7	-5.0	6.2	233.94	0.30
2000.0	2.02	11.63	1999.8	-0.7	-0.7	-4.8	4.8	261.65	0.77
2100.0	2.39	16.37	2099.8	3.0	3.0	-3.9	4.9	308.15	0.41
2200.0	2.53	17.21	2199.7	7.1	7.1	-2.6	7.6	339.90	0.14
2300.0	2.58	16.86	2299.6	11.4	11.4	-1.3	11.5	353.46	0.05
2400.0	2.61	17.53	2399.5	15.7	15.7	0.0	15.7	357.90	0.04
2500.0	2.25	14.38	2499.4	19.8	19.8	1.2	19.8	349.49	0.38
2600.0	1.80	356.91	2599.3	23.3	23.3	1.6	23.3	339.96	0.76
2700.0	1.49	322.54	2699.3	25.9	25.9	0.7	25.9	316.90	1.02
2800.0	1.43	310.62	2799.2	27.7	27.7	-1.0	27.7	357.93	0.31
2900.0	1.25	306.31	2899.2	29.2	29.2	-2.8	29.3	354.46	0.21
3000.0	1.51	279.28	2999.2	30.0	30.0	-5.0	30.4	350.53	0.69
3100.0	1.39	272.17	3099.1	30.3	30.3	-7.5	31.2	346.06	0.21
3200.0	1.63	260.86	3199.1	30.1	30.1	-10.1	31.8	341.40	0.38
3300.0	1.77	261.72	3299.1	29.7	29.7	-13.1	32.4	336.23	0.14
3400.0	1.79	258.06	3399.0	29.1	29.1	-16.1	33.3	331.04	0.12
3500.0	1.91	253.29	3499.0	28.3	28.3	-19.2	34.2	325.81	0.19
3600.0	1.90	242.71	3598.9	27.1	27.1	-22.3	35.1	320.52	0.35
3700.0	1.74	241.40	3698.9	25.6	25.6	-25.1	35.9	315.54	0.16
3800.0	1.68	239.77	3798.8	24.1	24.1	-27.7	36.7	311.04	0.08
3900.0	1.81	251.93	3898.8	22.9	22.9	-30.5	38.1	306.91	0.39
4000.0	1.89	261.61	3998.7	22.2	22.2	-33.6	40.3	303.40	0.32
4100.0	2.04	261.04	4098.7	21.6	21.6	-37.0	42.9	300.33	0.15
4200.0	2.22	255.79	4198.6	20.9	20.9	-40.6	45.7	297.21	0.27
4300.0	2.70	250.66	4298.5	19.6	19.6	-44.7	48.9	293.71	0.53
4400.0	3.00	251.95	4398.4	18.1	18.1	-49.4	52.6	290.06	0.31
4500.0	3.14	251.92	4498.2	16.4	16.4	-54.5	56.9	286.73	0.14
4600.0	3.22	259.65	4598.1	15.0	15.0	-59.9	61.7	284.10	0.44
4700.0	2.64	256.78	4698.0	14.0	14.0	-64.9	66.4	282.18	0.59

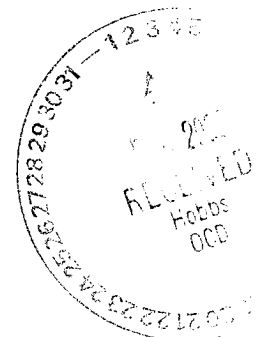
Scientific Drilling International

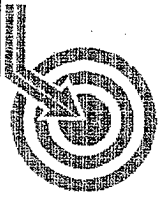
Survey Report

Company: MATADOR PETROLEUM	Date: 8/30/2002	Time: 09:53:10	Page: 2
Field: Monument	Co-ordinate(NE) Reference:	Site: Lea County, NM, True North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0 above Mean Sea Level	
Well: Cooper 4 #3	Section (VS) Reference:	Well (0.0E,0.0N,261.3Azi)	
Wellpath: VH - Job #32K0702220	Survey Calculation Method:	Minimum Curvature	

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg	DLS deg/100ft
4800.0	2.67	240.03	4797.8	12.3	12.3	-69.2	70.2	280.10	0.77
4900.0	2.65	237.03	4897.7	9.9	9.9	-73.1	73.8	277.71	0.14
5000.0	2.72	238.32	4997.6	7.4	7.4	-77.1	77.4	275.48	0.09
5100.0	2.62	237.35	5097.5	4.9	4.9	-81.0	81.2	273.47	0.11
5200.0	2.64	242.38	5197.4	2.6	2.6	-85.0	85.0	271.76	0.23
5300.0	2.28	242.07	5297.3	0.6	0.6	-88.8	88.8	270.39	0.36
5400.0	1.98	245.91	5397.3	-1.0	-1.0	-92.1	92.1	269.36	0.33
5500.0	1.75	247.43	5497.2	-2.3	-2.3	-95.1	95.1	268.60	0.23
5600.0	1.91	243.49	5597.1	-3.6	-3.6	-98.0	98.1	267.87	0.20
5700.0	1.80	240.51	5697.1	-5.2	-5.2	-100.9	101.0	267.07	0.15
5800.0	1.89	237.52	5797.0	-6.8	-6.8	-103.6	103.9	266.23	0.13
5900.0	1.84	231.95	5897.0	-8.7	-8.7	-106.3	106.6	265.32	0.19
6000.0	2.07	228.11	5996.9	-10.9	-10.9	-108.9	109.4	264.29	0.26
6100.0	2.00	233.09	6096.9	-13.1	-13.1	-111.6	112.4	263.28	0.19
6200.0	1.88	228.74	6196.8	-15.3	-15.3	-114.3	115.3	262.38	0.19
6300.0	0.90	249.48	6296.8	-16.6	-16.6	-116.2	117.4	261.85	1.09
6400.0	0.92	267.50	6396.8	-16.9	-16.9	-117.8	119.0	261.81	0.29
6500.0	1.01	249.96	6496.8	-17.3	-17.3	-119.4	120.6	261.76	0.31
6600.0	1.21	257.49	6596.7	-17.8	-17.8	-121.3	122.6	261.64	0.25
6700.0	1.16	249.17	6696.7	-18.4	-18.4	-123.2	124.6	261.51	0.18
6774.0	1.13	244.11	6770.7	-19.0	-19.0	-124.6	126.0	261.33	0.14





**Scientific
Drilling**

Field: Monument
Site: Lea County, NM
Well: Cooper 4 #3
Wellpath: VH - Job #32K0702220
Survey: 7/11/02

T/M

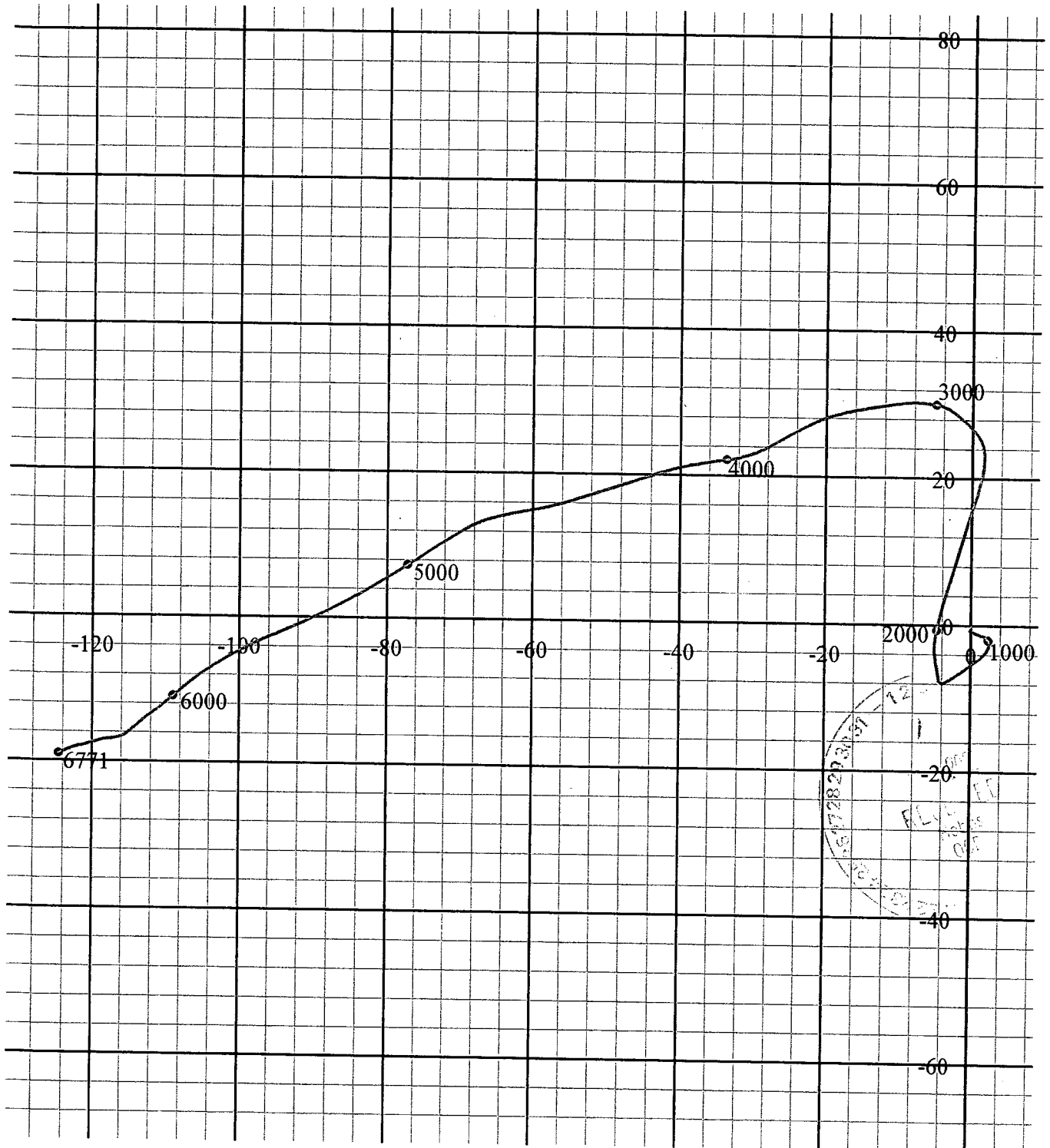


All Angles Relative
To True North



True North: 0.00
Magnetic North: 0.00

South(-)/North(+) [20ft/in]



West(-)/East(+) [20ft/in]