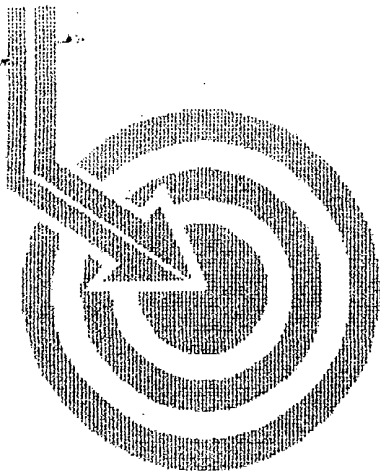




Scientific Drilling

OCCIDENTAL PERMIAN LTD.

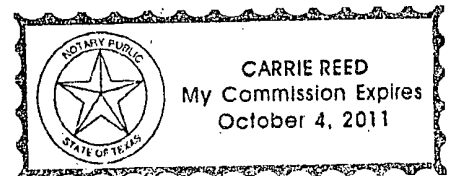
Field: San Dunes Delaware, West
Site: Eddy County, NM
Well: Mobil Federal #9
Wellpath: VH - Job #32K0510359
Survey: 05/13/10

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

Richard B. ...
Company Representative

Notarized this date 21st of June, 2010.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International, Inc.

Survey Report

Company: OCCIDENTAL PERMIAN LTD.
Field: San Dunes Delaware, West
Site: Eddy County, NM
Well: Mobil Federal #9
Wellpath: VH - Job #32K0510359

Date: 5/18/2010 Time: 19:32:45 Page: 1
Co-ordinate(N/E) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N, 0.00E, 250.72Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 05/13/10
KSRG 0'-7894' - depth ref. @ RKB 16.5'
Company: Scientific Drilling Internatio
Tool: Keeper, Keeper Surface Readout

Start Date: 5/13/2010
Engineer: Guebara/Renteria/Williams
Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.00
50.0	0.13	134.35	50.0	0.0	0.0	0.0	0.26	0.1	134.35
100.0	0.26	134.35	100.0	-0.1	-0.2	0.2	0.26	0.2	134.35
150.0	0.25	141.53	150.0	-0.2	-0.3	0.3	0.07	0.4	136.09
200.0	0.30	133.70	200.0	-0.3	-0.5	0.5	0.12	0.7	136.50
250.0	0.36	118.80	250.0	-0.4	-0.7	0.7	0.21	1.0	133.30
300.0	0.24	135.96	300.0	-0.6	-0.8	0.9	0.30	1.2	131.69
350.0	0.43	128.16	350.0	-0.7	-1.0	1.1	0.39	1.5	131.55
400.0	0.36	123.59	400.0	-0.9	-1.2	1.4	0.15	1.9	130.54
450.0	0.31	121.25	450.0	-1.1	-1.4	1.7	0.10	2.2	129.45
500.0	0.32	120.98	500.0	-1.3	-1.5	1.9	0.02	2.4	128.51
550.0	0.28	126.00	550.0	-1.5	-1.7	2.1	0.10	2.7	128.00
600.0	0.32	103.95	600.0	-1.6	-1.8	2.3	0.24	2.9	126.81
650.0	0.41	114.87	650.0	-1.9	-1.9	2.6	0.23	3.2	125.20
700.0	0.34	111.36	700.0	-2.1	-2.0	2.9	0.15	3.6	124.11
750.0	0.50	114.18	750.0	-2.4	-2.1	3.3	0.32	3.9	123.08
800.0	0.37	119.46	800.0	-2.7	-2.3	3.6	0.27	4.3	122.49
850.0	0.32	124.56	850.0	-2.8	-2.5	3.9	0.12	4.6	122.45
900.0	0.36	120.97	900.0	-3.0	-2.6	4.1	0.09	4.9	122.46
950.0	0.40	111.67	950.0	-3.3	-2.8	4.4	0.15	5.2	122.06
1000.0	0.28	114.94	1000.0	-3.5	-2.9	4.7	0.24	5.5	121.58
1050.0	0.42	108.70	1050.0	-3.7	-3.0	5.0	0.29	5.8	121.03
1100.0	0.40	114.39	1100.0	-4.0	-3.1	5.3	0.09	6.2	120.48
1150.0	0.56	111.36	1150.0	-4.3	-3.3	5.7	0.32	6.6	119.98
1200.0	0.63	119.03	1200.0	-4.7	-3.5	6.2	0.21	7.1	119.65
1250.0	0.47	129.27	1250.0	-5.0	-3.8	6.6	0.37	7.6	119.89
1300.0	0.43	128.35	1300.0	-5.2	-4.0	6.9	0.08	8.0	120.33
1350.0	0.39	133.36	1350.0	-5.3	-4.3	7.1	0.11	8.3	120.77
1400.0	0.37	142.48	1400.0	-5.5	-4.5	7.4	0.13	8.6	121.41
1450.0	0.28	149.71	1450.0	-5.5	-4.7	7.5	0.20	8.9	122.16
1500.0	0.40	147.56	1500.0	-5.6	-5.0	7.7	0.24	9.2	122.98
1550.0	0.35	165.44	1550.0	-5.6	-5.3	7.8	0.25	9.4	124.05
1600.0	0.28	219.17	1600.0	-5.5	-5.5	7.8	0.58	9.5	125.39
1650.0	0.31	163.80	1650.0	-5.4	-5.7	7.7	0.55	9.6	126.61
1700.0	0.24	205.54	1700.0	-5.3	-6.0	7.7	0.41	9.8	127.69
1750.0	0.26	177.01	1750.0	-5.2	-6.2	7.7	0.25	9.9	128.79
1800.0	0.29	184.91	1800.0	-5.1	-6.4	7.7	0.10	10.0	129.87
1850.0	0.35	167.70	1850.0	-5.1	-6.7	7.7	0.23	10.2	130.98
1900.0	0.33	204.78	1900.0	-4.9	-7.0	7.7	0.43	10.4	132.25
1950.0	0.36	225.18	1950.0	-4.7	-7.2	7.5	0.25	10.4	133.87
2000.0	0.32	249.21	2000.0	-4.4	-7.4	7.3	0.29	10.4	135.43
2050.0	0.44	276.68	2050.0	-4.1	-7.4	6.9	0.43	10.2	136.83
2100.0	0.73	287.12	2100.0	-3.7	-7.3	6.5	0.62	9.7	138.49
2150.0	0.69	282.83	2150.0	-3.2	-7.1	5.9	0.13	9.2	140.61
2200.0	1.05	268.43	2199.9	-2.5	-7.1	5.1	0.84	8.7	144.20
2250.0	1.18	266.64	2249.9	-1.5	-7.1	4.1	0.27	8.2	149.88
2300.0	1.36	265.88	2299.9	-0.5	-7.2	3.0	0.36	7.8	157.19
2350.0	1.35	268.16	2349.9	0.7	-7.3	1.8	0.11	7.5	165.74
2400.0	1.17	260.90	2399.9	1.7	-7.4	0.8	0.48	7.4	174.17



Scientific
Drilling

Scientific Drilling International, Inc.

Survey Report

Company: OCCIDENTAL PERMIAN LTD.
Field: San Dunes Delaware, West
Site: Eddy County, NM
Well: Mobil Federal #9
Wellpath: VH - Job #32K0510359

Date: 5/18/2010 Time: 19:32:45 Page: 2
Co-ordinate(N/E) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,250.72Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
2450.0	0.91	267.91	2449.9	2.6	-7.4	-0.2	0.58	7.4	181.16
2500.0	0.58	268.68	2499.9	3.2	-7.5	-0.8	0.66	7.5	186.12
2550.0	0.57	277.08	2549.9	3.7	-7.4	-1.3	0.17	7.6	189.91
2600.0	0.47	286.32	2599.9	4.1	-7.4	-1.7	0.26	7.6	193.34
2650.0	0.41	285.11	2649.9	4.4	-7.2	-2.1	0.12	7.6	196.25
2700.0	0.37	275.82	2699.9	4.7	-7.2	-2.4	0.15	7.6	198.80
2750.0	0.50	278.91	2749.9	5.0	-7.1	-2.8	0.26	7.7	201.58
2800.0	0.50	285.55	2799.9	5.4	-7.0	-3.2	0.12	7.8	204.76
2850.0	0.58	279.19	2849.9	5.8	-6.9	-3.7	0.20	7.9	208.10
2900.0	0.43	264.88	2899.9	6.2	-6.9	-4.1	0.39	8.1	210.92
2950.0	0.51	263.62	2949.9	6.6	-7.0	-4.6	0.16	8.3	213.18
3000.0	0.52	275.09	2999.9	7.0	-7.0	-5.0	0.21	8.6	215.67
3050.0	0.40	267.64	3049.9	7.4	-7.0	-5.4	0.27	8.8	217.83
3100.0	0.39	260.43	3099.9	7.7	-7.0	-5.7	0.10	9.0	219.41
3150.0	0.43	264.75	3149.9	8.1	-7.0	-6.1	0.10	9.3	220.92
3200.0	0.33	281.80	3199.9	8.4	-7.0	-6.4	0.30	9.5	222.46
3250.0	0.18	269.34	3249.9	8.6	-7.0	-6.6	0.32	9.6	223.53
3300.0	0.10	269.06	3299.9	8.7	-7.0	-6.8	0.16	9.7	224.05
3350.0	0.15	65.37	3349.9	8.7	-7.0	-6.8	0.49	9.7	224.09
3400.0	0.52	101.07	3399.9	8.4	-7.0	-6.5	0.82	9.5	222.80
3450.0	0.71	114.32	3449.9	8.0	-7.2	-6.0	0.47	9.3	219.81
3500.0	0.68	117.20	3499.9	7.6	-7.4	-5.4	0.09	9.2	216.14
3550.0	0.70	101.94	3549.9	7.1	-7.6	-4.9	0.37	9.0	212.51
3600.0	0.78	120.58	3599.8	6.6	-7.9	-4.3	0.50	8.9	208.49
3650.0	0.82	125.53	3649.8	6.2	-8.2	-3.7	0.16	9.0	204.07
3700.0	0.84	117.39	3699.8	5.7	-8.6	-3.1	0.24	9.1	199.57
3750.0	0.66	125.84	3749.8	5.3	-8.9	-2.5	0.42	9.3	195.63
3800.0	0.51	139.66	3799.8	5.1	-9.3	-2.1	0.41	9.5	192.89
3850.0	0.38	156.21	3849.8	5.0	-9.6	-1.9	0.36	9.8	191.27
3900.0	0.51	128.31	3899.8	4.8	-9.9	-1.7	0.50	10.0	189.60
3950.0	0.61	136.11	3949.8	4.6	-10.2	-1.3	0.25	10.3	187.32
4000.0	0.51	146.15	3999.8	4.5	-10.6	-1.0	0.28	10.7	185.42
4050.0	0.40	143.07	4049.8	4.3	-10.9	-0.8	0.23	11.0	184.07
4100.0	0.27	148.18	4099.8	4.3	-11.2	-0.6	0.27	11.2	183.13
4150.0	0.26	247.78	4149.8	4.4	-11.3	-0.7	0.81	11.3	183.31
4200.0	0.23	265.01	4199.8	4.6	-11.4	-0.9	0.16	11.4	184.32
4250.0	0.12	231.24	4249.8	4.7	-11.4	-1.0	0.29	11.4	185.01
4300.0	0.19	260.57	4299.8	4.8	-11.5	-1.1	0.21	11.5	185.59
4350.0	0.20	334.59	4349.8	4.9	-11.4	-1.2	0.47	11.5	186.22
4400.0	0.22	31.04	4399.8	4.9	-11.2	-1.2	0.40	11.3	186.25
4450.0	0.20	267.07	4449.8	4.9	-11.1	-1.3	0.74	11.2	186.48
4500.0	0.21	297.25	4499.8	5.0	-11.1	-1.4	0.21	11.2	187.36
4550.0	0.23	328.21	4549.8	5.1	-11.0	-1.6	0.24	11.1	188.13
4600.0	0.29	284.57	4599.8	5.2	-10.9	-1.7	0.40	11.0	189.12
4650.0	0.53	290.68	4649.8	5.5	-10.8	-2.1	0.49	11.0	190.97
4700.0	0.57	316.93	4699.8	5.8	-10.5	-2.5	0.51	10.8	193.25
4750.0	0.67	309.72	4749.8	6.0	-10.1	-2.9	0.25	10.5	195.80
4800.0	0.63	315.27	4799.8	6.3	-9.7	-3.3	0.15	10.3	198.63
4850.0	0.80	326.25	4849.8	6.5	-9.3	-3.7	0.44	10.0	201.64
4900.0	0.76	322.99	4899.8	6.7	-8.7	-4.1	0.12	9.6	205.04
4950.0	0.84	316.03	4949.8	7.0	-8.2	-4.5	0.25	9.3	208.94
5000.0	1.00	317.16	4999.8	7.3	-7.6	-5.1	0.32	9.1	213.75



Scientific
Drilling

Scientific Drilling International, Inc.

Survey Report

Company: OCCIDENTAL PERMIAN LTD.	Date: 5/18/2010	Time: 19:32:45	Page: 3
Field: San Dunes Delaware, West	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Mobil Federal #9	Section (VS) Reference:	Well (0.00N, 0.00E, 250.72Azi)	
Wellpath: VH - Job #32K0510359	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
5050.0	0.99	318.94	5049.8	7.6	-6.9	-5.6	0.06	8.9	219.15
5100.0	0.92	323.30	5099.8	7.9	-6.3	-6.2	0.20	8.8	224.45
5150.0	0.90	320.73	5149.8	8.2	-5.7	-6.7	0.09	8.7	229.61
5200.0	0.96	314.42	5199.8	8.5	-5.1	-7.2	0.24	8.8	234.89
5250.0	1.07	316.15	5249.8	8.9	-4.4	-7.8	0.23	9.0	240.45
5300.0	1.03	329.57	5299.7	9.1	-3.7	-8.4	0.50	9.2	246.10
5350.0	0.96	326.85	5349.7	9.3	-3.0	-8.8	0.17	9.3	251.39
5400.0	0.94	327.82	5399.7	9.5	-2.3	-9.3	0.05	9.6	256.21
5450.0	0.92	324.82	5449.7	9.7	-1.6	-9.7	0.11	9.9	260.64
5500.0	0.90	325.51	5499.7	9.9	-1.0	-10.2	0.05	10.2	264.66
5550.0	0.93	326.79	5549.7	10.1	-0.3	-10.6	0.07	10.6	268.44
5600.0	0.93	324.18	5599.7	10.3	0.4	-11.1	0.08	11.1	271.96
5650.0	0.88	316.66	5649.7	10.6	1.0	-11.6	0.26	11.6	274.87
5700.0	0.87	315.62	5699.7	10.9	1.5	-12.1	0.04	12.2	277.23
5750.0	0.82	307.01	5749.7	11.3	2.0	-12.7	0.27	12.8	279.08
5800.0	0.84	307.69	5799.7	11.7	2.5	-13.3	0.04	13.5	280.53
5850.0	0.79	297.82	5849.7	12.1	2.8	-13.8	0.30	14.1	281.63
5900.0	0.79	294.36	5899.7	12.6	3.2	-14.5	0.10	14.8	282.29
5950.0	0.82	278.20	5949.7	13.2	3.3	-15.1	0.46	15.5	282.47
6000.0	0.88	273.71	5999.7	13.9	3.4	-15.9	0.18	16.2	282.16
6050.0	0.81	275.88	6049.7	14.5	3.5	-16.6	0.15	17.0	281.84
6100.0	0.72	262.51	6099.7	15.2	3.5	-17.3	0.40	17.6	281.39
6150.0	0.88	281.95	6149.6	15.8	3.5	-18.0	0.63	18.3	281.08
6200.0	0.99	270.86	6199.6	16.5	3.6	-18.8	0.42	19.1	280.87
6250.0	1.07	272.23	6249.6	17.4	3.6	-19.7	0.17	20.0	280.45
6300.0	1.06	261.29	6299.6	18.3	3.6	-20.6	0.41	20.9	279.85
6350.0	0.89	261.47	6349.6	19.1	3.4	-21.4	0.34	21.7	279.14
6400.0	0.90	265.58	6399.6	19.8	3.4	-22.2	0.13	22.5	278.60
6450.0	0.95	263.60	6449.6	20.6	3.3	-23.0	0.12	23.2	278.12
6500.0	0.92	260.17	6499.6	21.4	3.2	-23.8	0.13	24.0	277.58
6550.0	0.72	262.01	6549.6	22.1	3.1	-24.5	0.40	24.7	277.10
6600.0	0.91	266.60	6599.6	22.8	3.0	-25.2	0.40	25.4	276.76
6650.0	0.73	250.89	6649.6	23.5	2.9	-25.9	0.57	26.1	276.30
6700.0	0.69	257.52	6699.6	24.1	2.7	-26.5	0.18	26.7	275.80
6750.0	0.59	232.89	6749.6	24.7	2.5	-27.0	0.58	27.1	275.23
6800.0	0.53	221.53	6799.6	25.1	2.1	-27.4	0.25	27.5	274.48
6850.0	0.52	210.67	6849.6	25.5	1.8	-27.6	0.20	27.7	273.67
6900.0	0.48	204.69	6899.6	25.8	1.4	-27.8	0.13	27.9	272.86
6950.0	0.60	204.01	6949.6	26.2	1.0	-28.0	0.24	28.1	271.96
7000.0	0.63	201.26	6999.6	26.5	0.5	-28.2	0.08	28.3	270.94
7050.0	0.57	196.85	7049.6	26.8	0.0	-28.4	0.15	28.4	269.94
7100.0	0.77	192.19	7099.6	27.2	-0.6	-28.6	0.41	28.6	268.80
7150.0	1.01	195.88	7149.6	27.6	-1.3	-28.8	0.49	28.8	267.31
7200.0	0.98	200.82	7199.5	28.1	-2.2	-29.0	0.18	29.1	265.72
7250.0	0.98	204.68	7249.5	28.7	-3.0	-29.4	0.13	29.5	264.24
7300.0	0.78	201.08	7299.5	29.2	-3.7	-29.7	0.41	29.9	262.95
7350.0	1.05	207.47	7349.5	29.8	-4.4	-30.0	0.58	30.3	261.67
7400.0	1.26	201.39	7399.5	30.5	-5.3	-30.4	0.49	30.9	260.10
7450.0	1.12	202.36	7449.5	31.1	-6.3	-30.8	0.28	31.4	258.49
7500.0	1.03	210.80	7499.5	31.8	-7.1	-31.2	0.36	32.0	257.16
7550.0	0.84	201.17	7549.5	32.4	-7.8	-31.6	0.49	32.5	256.06
7600.0	1.17	210.28	7599.5	33.0	-8.6	-32.0	0.73	33.1	254.90
7650.0	1.01	216.42	7649.5	33.8	-9.4	-32.5	0.40	33.8	253.83



Scientific
Drilling

Scientific Drilling International, Inc.

Survey Report

Company: OCCIDENTAL PERMIAN LTD.
Field: San Dunes Delaware, West
Site: Eddy County, NM
Well: Mobil Federal #9
Wellpath: VH - Job #32K0510359

Date: 5/18/2010 Time: 19:32:45 Page: 4
Co-ordinate(NE) Reference: Site: Eddy County, NM; Grid: North
Vertical (TVD) Reference: SITE 0:0
Section (VS) Reference: Well (0.00N, 0.00E, 250.72Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

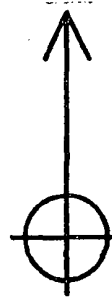
Survey

MD ft	Incl deg	Azin deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
7700.0	0.96	215.41	7699.5	34.5	-10.1	-33.0	0.11	34.5	252.95
7750.0	0.84	217.77	7749.5	35.1	-10.7	-33.5	0.25	35.1	252.19
7800.0	0.70	219.24	7799.5	35.7	-11.3	-33.9	0.28	35.7	251.59
7850.0	0.75	214.98	7849.4	36.2	-11.8	-34.2	0.15	36.2	251.03
7894.0	0.76	245.80	7893.4	36.7	-12.1	-34.7	0.91	36.7	250.72



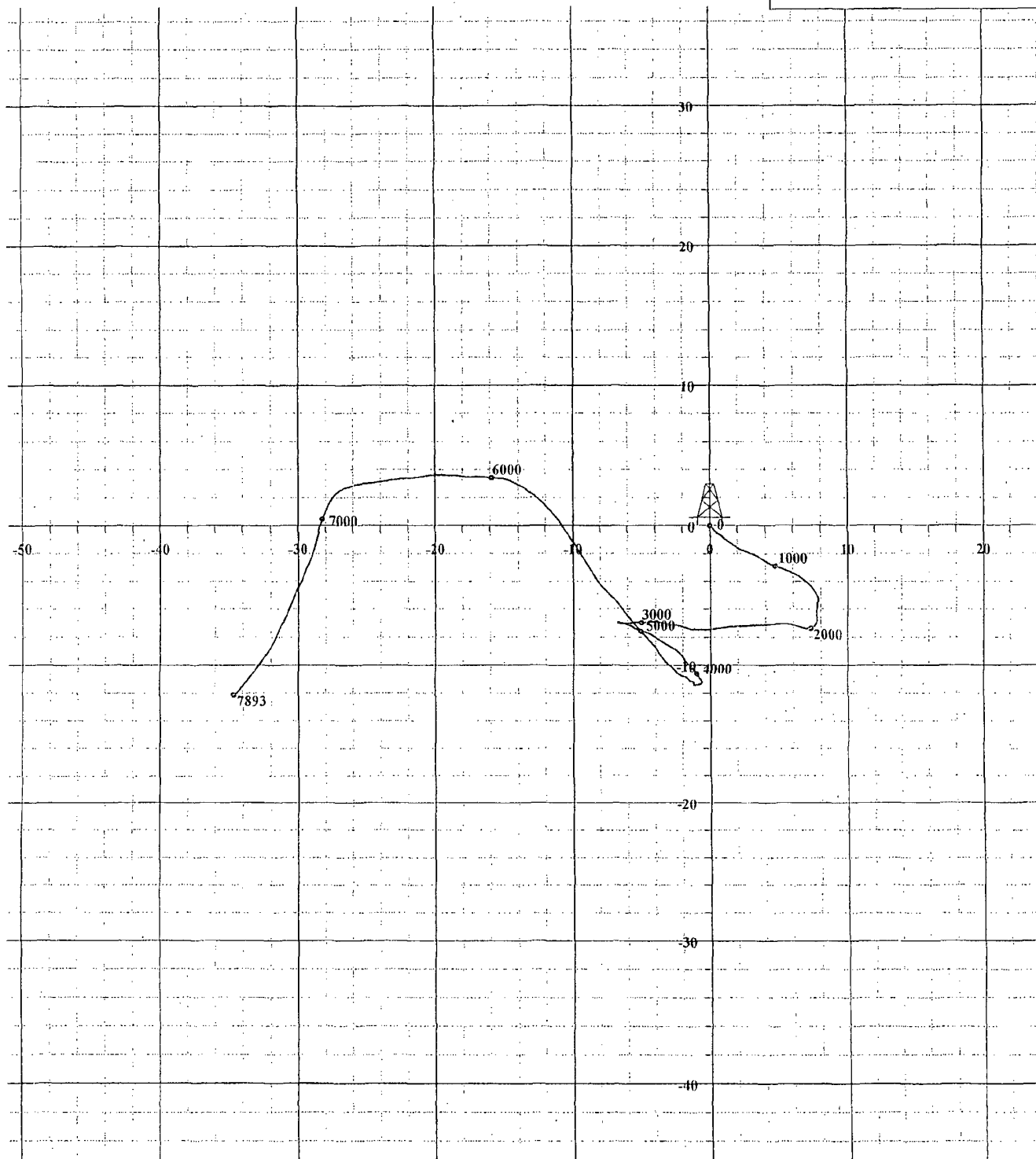
Scientific
Drilling

Field: San Dunes Delaware, west
Site: Eddy County, NM
Well: Mobil Federal #9
Survey: 05/13/10



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°
Magnetic Field
Dip Angle: 0.00°
Date: 5/18/2010
Model: igrf2000

South(-)/North(+) [10ft/in]



West(-)/East(+) [10ft/in]