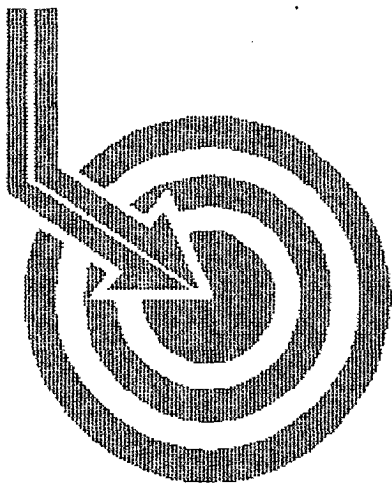
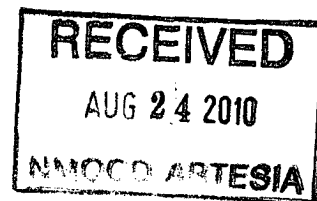




Scientific Drilling



30-015-37697

OCCIDENTAL PERMIAN LTD.

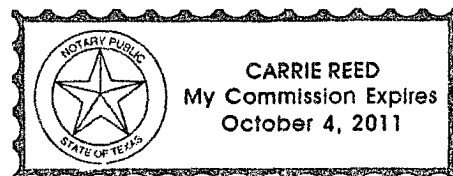
Field: San Dunes Delaware, West
Site: Eddy County, NM
Well: Federal 29 #9
Wellpath: VH - Job #32K0510346
Survey: 05/09/10

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

Robert
Company Representative

Notarized this date 2nd of June, 2010.

Carrie Reed
Notary Signature
County of Midland
State of Texas



dm



Scientific
Drilling

Scientific Drilling International, Inc.

Survey Report

Company: OCCIDENTAL PERMIAN LTD.	Date: 5/12/2010	Time: 12:13:23	Page: 1
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: Federal 29 #9	Section (VS) Reference: Well (0.00N,0.00E,253.37Azi)		
Wellpath: VH - Job #32K0510346	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 05/09/10	Start Date: 5/9/2010
KSRG 0'-8128'	
Company: Scientific Drilling Internatio	Engineer: Garza w/Express
Tool: Keeper, Keeper Surface Readout	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	359.71	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.33	344.35	100.0	0.0	0.3	-0.1	0.33	0.3	344.35
150.0	0.43	12.82	150.0	-0.1	0.6	-0.1	0.42	0.6	352.87
200.0	0.37	4.89	200.0	-0.3	0.9	0.0	0.16	0.9	358.81
250.0	0.30	5.05	250.0	-0.4	1.2	0.0	0.14	1.2	0.27
300.0	0.28	11.06	300.0	-0.5	1.5	0.0	0.07	1.5	1.57
350.0	0.20	6.35	350.0	-0.6	1.7	0.1	0.16	1.7	2.50
400.0	0.18	5.48	400.0	-0.6	1.9	0.1	0.04	1.9	2.81
450.0	0.33	31.49	450.0	-0.8	2.1	0.2	0.37	2.1	4.83
500.0	0.39	67.70	500.0	-1.0	2.2	0.4	0.46	2.3	10.26
550.0	0.36	77.23	550.0	-1.4	2.3	0.7	0.14	2.5	17.01
600.0	0.39	82.71	600.0	-1.7	2.4	1.0	0.09	2.6	23.41
650.0	0.50	77.33	650.0	-2.1	2.5	1.4	0.24	2.8	29.91
700.0	0.40	74.43	700.0	-2.5	2.6	1.8	0.21	3.1	35.10
750.0	0.44	70.38	750.0	-2.8	2.7	2.2	0.10	3.4	38.80
800.0	0.29	71.65	800.0	-3.1	2.8	2.5	0.30	3.7	41.41
850.0	0.34	69.82	850.0	-3.4	2.9	2.7	0.10	3.9	43.36
900.0	0.30	65.74	900.0	-3.7	3.0	3.0	0.09	4.2	44.94
950.0	0.32	61.70	950.0	-4.0	3.1	3.2	0.06	4.5	46.06
1000.0	0.43	46.70	1000.0	-4.3	3.3	3.5	0.29	4.8	46.53
1050.0	0.38	41.24	1050.0	-4.6	3.5	3.7	0.13	5.1	46.37
1100.0	0.51	48.96	1100.0	-4.9	3.8	4.0	0.29	5.5	46.32
1150.0	0.24	27.19	1150.0	-5.2	4.1	4.2	0.60	5.8	46.08
1200.0	0.41	40.99	1200.0	-5.4	4.3	4.4	0.37	6.1	45.62
1250.0	0.13	338.66	1250.0	-5.6	4.5	4.5	0.74	6.3	45.01
1300.0	0.21	7.32	1300.0	-5.6	4.6	4.5	0.23	6.4	44.05
1350.0	0.15	340.59	1350.0	-5.6	4.8	4.5	0.20	6.5	43.05
1400.0	0.18	13.59	1400.0	-5.7	4.9	4.4	0.20	6.6	42.22
1450.0	0.27	36.27	1450.0	-5.8	5.1	4.5	0.25	6.8	41.80
1500.0	0.07	311.31	1500.0	-5.9	5.2	4.6	0.55	6.9	41.45
1550.0	0.21	16.68	1550.0	-5.9	5.3	4.6	0.38	7.0	40.89
1600.0	0.18	332.91	1600.0	-5.9	5.5	4.6	0.30	7.1	40.00
1650.0	0.33	265.07	1650.0	-5.8	5.5	4.4	0.62	7.1	38.58
1700.0	0.24	267.66	1700.0	-5.6	5.5	4.2	0.18	6.9	37.06
1750.0	0.19	290.78	1750.0	-5.4	5.5	4.0	0.20	6.8	35.70
1800.0	0.39	267.70	1800.0	-5.2	5.5	3.7	0.46	6.7	33.87
1850.0	0.33	259.06	1850.0	-4.8	5.5	3.4	0.16	6.5	31.75
1900.0	0.35	255.11	1900.0	-4.5	5.4	3.1	0.06	6.3	29.82
1950.0	0.59	256.00	1950.0	-4.1	5.3	2.7	0.48	6.0	27.01
2000.0	0.61	251.63	2000.0	-3.6	5.2	2.2	0.10	5.7	23.14
2050.0	0.59	245.63	2050.0	-3.1	5.0	1.7	0.13	5.3	19.10
2100.0	0.75	237.29	2100.0	-2.5	4.7	1.2	0.37	4.9	14.53
2150.0	0.91	243.17	2150.0	-1.8	4.4	0.6	0.36	4.4	7.75
2200.0	0.87	238.09	2199.9	-1.1	4.0	-0.1	0.18	4.0	358.82
2250.0	1.04	236.39	2249.9	-0.3	3.5	-0.8	0.34	3.6	347.53
2300.0	0.93	244.59	2299.9	0.6	3.1	-1.5	0.36	3.5	333.86
2350.0	0.77	240.18	2349.9	1.3	2.8	-2.2	0.35	3.5	321.73
2400.0	0.60	247.33	2399.9	1.9	2.5	-2.7	0.38	3.7	312.62
2450.0	0.55	259.12	2449.9	2.4	2.4	-3.2	0.26	4.0	306.39



Scientific Drilling International, Inc.

Survey Report

Company: OCCIDENTAL PERMIAN LTD.	Date: 5/12/2010	Time: 12:13:23	Page: 2
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: Federal 29 #9	Section (VS) Reference:	Well (0.00N,0.00E,253.37Azi)	
Wellpath: VH - Job #32K0510346	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
2500.0	0.29	249.45	2499.9	2.8	2.3	-3.5	0.54	4.2	302.55
2550.0	0.38	226.81	2549.9	3.0	2.1	-3.8	0.32	4.3	299.09
2600.0	0.34	236.29	2599.9	3.3	1.9	-4.0	0.14	4.5	295.36
2650.0	0.32	238.49	2649.9	3.6	1.8	-4.3	0.05	4.6	292.33
2700.0	0.22	211.22	2699.9	3.8	1.6	-4.4	0.32	4.7	289.81
2750.0	0.29	237.24	2749.9	4.0	1.5	-4.6	0.27	4.8	287.50
2800.0	0.09	280.48	2799.9	4.1	1.4	-4.7	0.47	4.9	286.32
2850.0	0.12	233.71	2849.9	4.2	1.4	-4.8	0.18	5.0	285.80
2900.0	0.15	172.85	2899.9	4.3	1.3	-4.9	0.28	5.0	284.64
2950.0	0.10	189.50	2949.9	4.3	1.2	-4.9	0.12	5.0	283.44
3000.0	0.07	183.70	2999.9	4.4	1.1	-4.9	0.06	5.0	282.60
3050.0	0.15	128.03	3049.9	4.3	1.0	-4.8	0.25	4.9	281.92
3100.0	0.13	223.78	3099.9	4.3	0.9	-4.8	0.42	4.9	281.02
3150.0	0.08	116.73	3149.9	4.4	0.9	-4.8	0.34	4.9	280.35
3200.0	0.13	74.22	3199.9	4.3	0.9	-4.7	0.18	4.8	280.53
3250.0	0.13	57.39	3249.9	4.2	0.9	-4.6	0.08	4.7	281.31
3300.0	0.32	67.65	3299.9	4.0	1.0	-4.4	0.39	4.6	282.77
3350.0	0.43	90.49	3349.9	3.7	1.1	-4.1	0.37	4.3	284.39
3400.0	0.61	97.99	3399.9	3.2	1.0	-3.7	0.38	3.8	285.51
3450.0	0.87	96.99	3449.9	2.6	0.9	-3.0	0.52	3.2	287.15
3500.0	0.87	100.75	3499.9	2.0	0.8	-2.3	0.11	2.4	289.72
3550.0	0.75	97.46	3549.9	1.3	0.7	-1.6	0.26	1.7	293.95
3600.0	0.85	101.62	3599.9	0.7	0.6	-0.9	0.23	1.1	303.10
3650.0	0.72	103.62	3649.9	0.1	0.4	-0.2	0.27	0.5	331.75
3700.0	0.97	117.66	3699.9	-0.5	0.2	0.4	0.65	0.5	68.79
3750.0	0.98	114.60	3749.9	-1.1	-0.2	1.2	0.11	1.2	99.54
3800.0	1.04	117.43	3799.9	-1.7	-0.6	2.0	0.16	2.1	106.45
3850.0	1.12	119.08	3849.9	-2.4	-1.0	2.8	0.17	3.0	110.13
3900.0	1.12	121.19	3899.9	-3.1	-1.5	3.7	0.08	4.0	112.57
3950.0	0.58	109.27	3949.8	-3.6	-1.9	4.3	1.13	4.7	113.29
4000.0	0.13	349.71	3999.8	-3.8	-1.9	4.6	1.31	4.9	112.53
4050.0	0.12	311.89	4049.8	-3.8	-1.8	4.5	0.16	4.9	111.77
4100.0	0.26	313.00	4099.8	-3.7	-1.7	4.4	0.28	4.7	111.05
4150.0	0.56	271.37	4149.8	-3.4	-1.6	4.1	0.81	4.4	111.57
4200.0	1.10	245.99	4199.8	-2.7	-1.8	3.4	1.28	3.8	117.98
4250.0	2.11	244.37	4249.8	-1.3	-2.4	2.1	2.02	3.2	138.55
4300.0	2.80	250.04	4299.8	0.8	-3.2	0.1	1.46	3.2	177.65
4350.0	4.18	256.07	4349.7	3.8	-4.1	-2.8	2.85	4.9	214.46
4400.0	4.93	256.68	4399.5	7.8	-5.0	-6.6	1.50	8.3	233.08
4450.0	6.14	257.44	4449.3	12.6	-6.1	-11.3	2.42	12.9	241.86
4500.0	7.03	256.53	4499.0	18.3	-7.4	-16.9	1.79	18.5	246.50
4550.0	7.93	254.55	4548.5	24.8	-9.0	-23.2	1.87	24.9	248.84
4600.0	8.97	255.61	4598.0	32.2	-10.9	-30.3	2.10	32.2	250.26
4650.0	9.87	254.19	4647.3	40.4	-13.0	-38.2	1.86	40.4	251.20
4700.0	10.97	252.82	4696.5	49.4	-15.6	-46.9	2.25	49.4	251.61
4750.0	11.92	252.20	4745.5	59.3	-18.6	-56.4	1.92	59.3	251.76
4800.0	13.26	252.44	4794.3	70.2	-21.9	-66.7	2.68	70.2	251.85
4850.0	14.19	252.93	4842.9	82.1	-25.4	-78.1	1.87	82.1	251.97
4900.0	14.93	253.37	4891.3	94.6	-29.1	-90.1	1.50	94.7	252.13
4950.0	15.68	253.52	4939.5	107.8	-32.8	-102.8	1.50	107.9	252.29
5000.0	16.77	254.06	4987.5	121.8	-36.7	-116.2	2.20	121.8	252.46
5050.0	17.48	254.11	5035.3	136.5	-40.7	-130.3	1.42	136.5	252.64



Scientific Drilling International, Inc.

Survey Report

Company: OCCIDENTAL PERMIAN LTD.
 Field: San Dunes Delaware, West
 Site: Eddy County, NM
 Well: Federal 29 #9
 Wellpath: VH - Job #32K0510346

Date: 5/12/2010 Time: 12:13:23 Page: 3
 Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: Well (0.00N,0.00E,253.37Azi)
 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
5100.0	18.50	254.31	5082.8	152.0	-45.0	-145.2	2.04	152.0	252.80
5150.0	19.48	254.10	5130.1	168.2	-49.4	-160.8	1.96	168.3	252.93
5200.0	20.62	253.68	5177.1	185.4	-54.1	-177.3	2.30	185.4	253.02
5250.0	21.54	253.75	5223.7	203.4	-59.2	-194.6	1.84	203.4	253.08
5300.0	22.56	253.82	5270.1	222.1	-64.4	-212.6	2.04	222.1	253.14
5350.0	22.92	254.23	5316.2	241.5	-69.7	-231.2	0.79	241.5	253.21
5400.0	23.35	253.94	5362.2	261.1	-75.1	-250.1	0.89	261.1	253.28
5450.0	24.15	253.25	5407.9	281.2	-80.8	-269.4	1.69	281.2	253.30
5500.0	24.39	252.84	5453.5	301.8	-86.8	-289.0	0.59	301.8	253.28
5550.0	24.09	252.97	5499.1	322.3	-92.8	-308.7	0.61	322.3	253.26
5600.0	23.25	253.18	5544.9	342.4	-98.7	-327.9	1.69	342.4	253.25
5650.0	23.07	253.31	5590.9	362.1	-104.4	-346.7	0.37	362.1	253.25
5700.0	23.54	252.28	5636.8	381.8	-110.2	-365.6	1.24	381.8	253.22
5750.0	23.50	251.77	5682.6	401.8	-116.4	-384.6	0.41	401.8	253.16
5800.0	22.80	252.35	5728.6	421.4	-122.4	-403.3	1.47	421.4	253.11
5850.0	22.21	252.93	5774.8	440.6	-128.1	-421.5	1.26	440.6	253.09
5900.0	23.45	252.87	5820.9	460.0	-133.8	-440.1	2.48	460.0	253.08
5950.0	23.52	253.38	5866.7	479.9	-139.6	-459.1	0.43	479.9	253.09
6000.0	23.40	253.84	5912.6	499.8	-145.2	-478.2	0.44	499.8	253.11
6050.0	23.61	253.86	5958.5	519.7	-150.8	-497.4	0.42	519.8	253.14
6100.0	23.77	253.86	6004.2	539.8	-156.4	-516.7	0.32	539.8	253.16
6150.0	24.12	253.83	6049.9	560.1	-162.0	-536.2	0.70	560.1	253.19
6200.0	24.09	253.86	6095.6	580.5	-167.7	-555.8	0.06	580.6	253.21
6250.0	24.34	253.64	6141.2	601.1	-173.4	-575.5	0.53	601.1	253.23
6300.0	23.95	253.88	6186.8	621.5	-179.2	-595.1	0.80	621.5	253.25
6350.0	24.15	253.78	6232.5	641.9	-184.8	-614.7	0.41	641.9	253.26
6400.0	23.55	254.15	6278.2	662.1	-190.4	-634.1	1.24	662.1	253.29
6450.0	23.94	254.37	6324.0	682.2	-195.9	-653.5	0.80	682.2	253.31
6500.0	24.13	253.93	6369.6	702.6	-201.4	-673.1	0.52	702.6	253.34
6550.0	22.87	254.34	6415.5	722.5	-206.9	-692.3	2.54	722.5	253.36
6600.0	21.71	255.02	6461.7	741.5	-211.9	-710.6	2.38	741.5	253.39
6650.0	22.01	253.37	6508.1	760.1	-217.0	-728.5	1.37	760.1	253.41
6700.0	22.30	252.80	6554.5	779.0	-222.5	-746.5	0.72	779.0	253.41
6750.0	22.92	252.84	6600.6	798.2	-228.1	-764.9	1.24	798.2	253.39
6800.0	22.33	253.40	6646.8	817.4	-233.7	-783.3	1.26	817.4	253.38
6850.0	21.04	253.48	6693.2	835.9	-239.0	-801.0	2.58	835.9	253.39
6900.0	20.38	253.65	6740.0	853.6	-244.0	-818.0	1.33	853.6	253.39
6950.0	20.35	253.83	6786.9	871.0	-248.9	-834.7	0.14	871.0	253.40
7000.0	20.70	253.76	6833.7	888.5	-253.8	-851.5	0.70	888.5	253.40
7050.0	21.99	253.86	6880.3	906.7	-258.8	-869.0	2.58	906.7	253.41
7100.0	23.15	253.38	6926.4	925.9	-264.3	-887.4	2.35	925.9	253.42
7150.0	22.49	253.34	6972.5	945.3	-269.8	-906.0	1.32	945.3	253.42
7200.0	23.51	252.03	7018.5	964.8	-275.6	-924.6	2.28	964.8	253.40
7250.0	23.83	251.58	7064.3	984.9	-281.9	-943.7	0.73	984.9	253.37
7300.0	25.30	252.05	7109.8	1005.7	-288.4	-963.4	2.97	1005.7	253.34
7350.0	25.57	252.09	7155.0	1027.1	-295.0	-983.9	0.54	1027.1	253.31
7400.0	25.21	252.32	7200.1	1048.6	-301.5	-1004.3	0.75	1048.6	253.29
7450.0	24.43	252.89	7245.5	1069.5	-307.8	-1024.3	1.63	1069.5	253.27
7500.0	24.26	253.15	7291.1	1090.2	-313.8	-1044.0	0.40	1090.2	253.27
7550.0	23.76	253.16	7336.7	1110.5	-319.7	-1063.5	1.00	1110.5	253.27
7600.0	23.10	253.74	7382.6	1130.4	-325.4	-1082.5	1.40	1130.4	253.27
7650.0	23.28	253.43	7428.6	1150.1	-331.0	-1101.4	0.43	1150.1	253.28
7700.0	22.99	253.90	7474.6	1169.7	-336.5	-1120.3	0.69	1169.7	253.28



Scientific
Drilling

Scientific Drilling International, Inc.

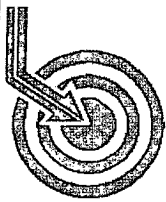
Survey Report

Company: OCCIDENTAL PERMIAN LTD.
Field: San Dunes Delaware, West
Site: Eddy County, NM
Well: Federal 29 #9
Wellpath: VH - Job #32K0510346

Date: 5/12/2010 Time: 12:13:23 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,253.37Azi)
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
7750.0	24.33	252.77	7520.4	1189.8	-342.2	-1139.5	2.83	1189.8	253.28
7800.0	23.68	253.73	7566.0	1210.1	-348.1	-1159.0	1.52	1210.1	253.28
7850.0	23.82	254.33	7611.8	1230.3	-353.6	-1178.3	0.56	1230.3	253.29
7900.0	23.16	254.56	7657.7	1250.2	-359.0	-1197.5	1.33	1250.2	253.31
7950.0	22.50	254.54	7703.7	1269.6	-364.2	-1216.2	1.32	1269.6	253.33
8000.0	22.19	254.33	7750.0	1288.6	-369.3	-1234.5	0.64	1288.6	253.35
8050.0	21.29	253.66	7796.4	1307.1	-374.4	-1252.3	1.87	1307.1	253.36
8100.0	20.21	254.08	7843.2	1324.8	-379.3	-1269.4	2.18	1324.8	253.36
8128.0	19.66	254.69	7869.5	1334.4	-381.9	-1278.6	2.10	1334.4	253.37



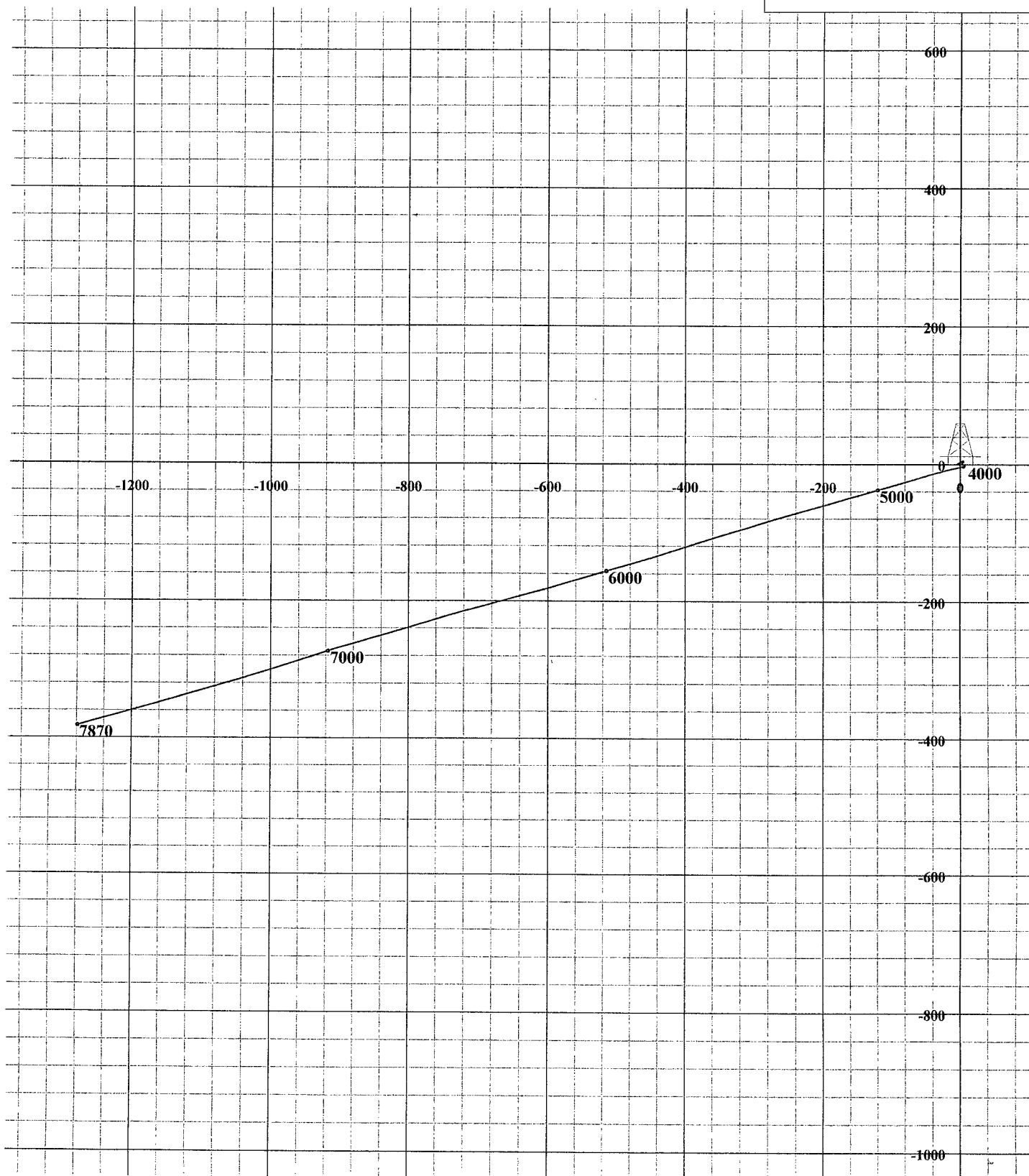
Scientific
Drilling

Field: San Dunes Delaware, West
Site: Eddy County, NM
Well: Federal 29 #9
Survey: 05/09/10



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°
Magnetic Field
Dip Angle: 0.00°
Date: 5/12/2010
Model: igrf2000

South(-)/North(+) [200ft/in]



West(-)/East(+) [200ft/in]