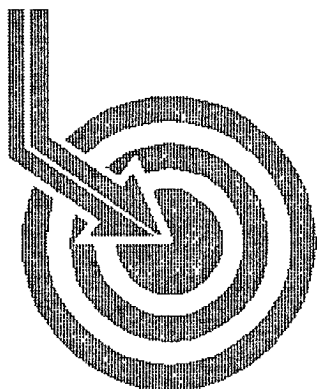


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HOBBSOCD



Scientific Drilling

APACHE CORPORATION

Field: Eunice Monument
Site: Lea County, NM
Well: North Monument G/SA #380
Survey: 01/25/10-01/28/10

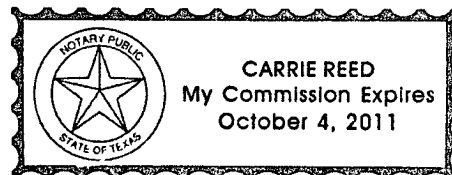
SUR: B-30-19s-37e, 189/N & 2443/E
BHL: B-30-19s-37e, 39/N & 2655/E
API # 30-025-39072

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

Richardson

Notorized this date 150 of February, 2010.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International, Inc.

Survey Report

Company: APACHE CORPORATION Date: 1/31/2010 Time: 20:01:48 Page: 1
Field: Eunice Monument Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Site: Lea County, NM Vertical (TVD) Reference: SITE 0.0
Well: North Monument G/SA #380 Section (VS) Reference: Well (0.00N,0.00E,304.12Azi)
Wellpath: VH- Job #32K0110060 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 01/27/10 Start Date: 1/27/2010
KSRG 0'-1223'
Company: Scientific Drilling Internatio Engineer: Guebara w/Rotary
Tool: Keeper, Keeper Gyro 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	359.44	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.27	118.76	100.0	-0.2	-0.1	0.2	0.27	0.2	118.76
200.0	0.41	151.69	200.0	-0.8	-0.5	0.6	0.23	0.8	132.91
300.0	0.35	178.77	300.0	-1.3	-1.2	0.8	0.19	1.4	146.85
400.0	0.26	154.33	400.0	-1.7	-1.7	0.9	0.16	1.9	152.68
500.0	0.19	164.69	500.0	-2.0	-2.0	1.0	0.08	2.3	153.71
600.0	0.44	155.74	600.0	-2.4	-2.5	1.2	0.25	2.8	154.63
700.0	0.44	183.86	700.0	-2.9	-3.3	1.3	0.21	3.5	157.78
800.0	0.47	201.42	800.0	-3.2	-4.0	1.2	0.14	4.2	163.95
900.0	0.54	219.16	900.0	-3.3	-4.8	0.7	0.17	4.8	171.50
1000.0	0.58	210.50	1000.0	-3.3	-5.6	0.2	0.09	5.6	178.34
1100.0	0.67	203.19	1100.0	-3.4	-6.6	-0.3	0.12	6.6	182.84
1200.0	1.03	216.82	1200.0	-3.5	-7.8	-1.1	0.41	7.9	187.96
1223.0	1.10	210.01	1223.0	-3.5	-8.2	-1.3	0.63	8.3	189.22



Scientific Drilling International, Inc.

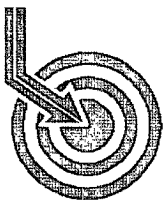
Survey Report

Company: APACHE CORPORATION	Date: 1/31/2010	Time: 21:01:10	Page: 1
Field: Eunice Monument	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: North Monument G/SA #380	Section (VS) Reference:	Well (0.00N,0.00E,304.12Azi)	
Wellpath: DH - Job #32D0110056	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 01/25/10-01/28/10	Start Date: 1/25/2010
MWD 1310'-4069'	
Company: Scientific Drilling Internatio	Engineer: Lopez/Becker/Glover
Tool: MWD,MWD	Tied-to: From: Definitive Path

Survey

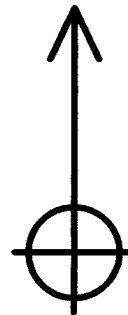
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
1223.0	1.10	210.01	1223.0	-3.5	-8.2	-1.3	0.00	8.3	189.22
1310.0	1.12	227.37	1309.9	-3.4	-9.5	-2.4	0.39	9.8	194.05
1406.0	0.69	264.76	1405.9	-2.7	-10.2	-3.6	0.74	10.8	199.69
1501.0	1.10	285.62	1500.9	-1.4	-10.0	-5.1	0.54	11.2	207.02
1565.0	2.09	307.06	1564.9	0.4	-9.1	-6.6	1.78	11.3	215.97
1628.0	2.58	327.83	1627.8	2.8	-7.2	-8.3	1.54	11.0	228.94
1692.0	4.02	317.55	1691.7	6.3	-4.3	-10.6	2.42	11.4	247.67
1755.0	5.42	315.14	1754.5	11.4	-0.6	-14.2	2.24	14.2	267.57
1818.0	6.98	308.42	1817.1	18.1	3.9	-19.2	2.73	19.6	281.42
1881.0	8.07	303.98	1879.6	26.4	8.7	-25.9	1.96	27.3	288.64
1945.0	8.52	307.16	1942.9	35.6	14.1	-33.4	1.00	36.3	292.90
2008.0	10.02	306.44	2005.1	45.7	20.2	-41.5	2.39	46.2	295.92
2072.0	11.53	309.44	2068.0	57.7	27.6	-51.0	2.52	57.9	298.40
2136.0	12.36	309.36	2130.6	70.8	36.0	-61.2	1.30	71.0	300.44
2199.0	12.69	306.11	2192.1	84.5	44.3	-72.0	1.24	84.6	301.61
2263.0	13.93	306.84	2254.4	99.2	53.1	-83.9	1.96	99.2	302.34
2326.0	13.60	305.75	2315.6	114.2	62.0	-95.9	0.67	114.2	302.86
2390.0	14.39	304.18	2377.7	129.6	70.8	-108.6	1.37	129.7	303.11
2453.0	14.22	305.33	2438.7	145.2	79.7	-121.4	0.53	145.2	303.28
2517.0	12.87	305.68	2500.9	160.2	88.4	-133.6	2.11	160.2	303.49
2580.0	12.67	306.77	2562.4	174.1	96.6	-144.8	0.50	174.1	303.71
2675.0	9.05	306.95	2655.7	192.0	107.4	-159.2	3.81	192.0	304.00
2771.0	8.78	310.24	2750.5	206.8	116.6	-170.8	0.60	206.8	304.33
2866.0	6.90	305.26	2844.6	219.7	124.6	-181.0	2.10	219.7	304.55
2961.0	5.83	309.62	2939.0	230.2	131.0	-189.4	1.24	230.2	304.67
3056.0	4.44	311.18	3033.6	238.7	136.5	-195.8	1.47	238.7	304.87
3151.0	2.72	303.31	3128.4	244.6	140.1	-200.5	1.88	244.6	304.95
3245.0	2.82	305.85	3222.3	249.1	142.7	-204.2	0.17	249.2	304.94
3341.0	1.68	314.22	3318.3	252.9	145.1	-207.2	1.23	252.9	305.00
3436.0	1.00	322.67	3413.2	255.0	146.7	-208.7	0.74	255.1	305.11
3499.0	0.80	328.24	3476.2	256.0	147.5	-209.2	0.35	256.0	305.19
3594.0	0.31	275.03	3571.2	256.8	148.1	-209.8	0.70	256.8	305.22
3689.0	0.65	291.54	3666.2	257.5	148.3	-210.6	0.38	257.6	305.16
3785.0	0.12	12.74	3762.2	258.1	148.6	-211.1	0.67	258.2	305.15
3880.0	0.58	15.43	3857.2	258.3	149.2	-210.9	0.48	258.4	305.27
3975.0	0.60	295.06	3952.2	258.9	149.9	-211.2	0.80	259.0	305.35
4069.0	0.24	324.49	4046.2	259.6	150.2	-211.8	0.43	259.7	305.35



Scientific
Drilling

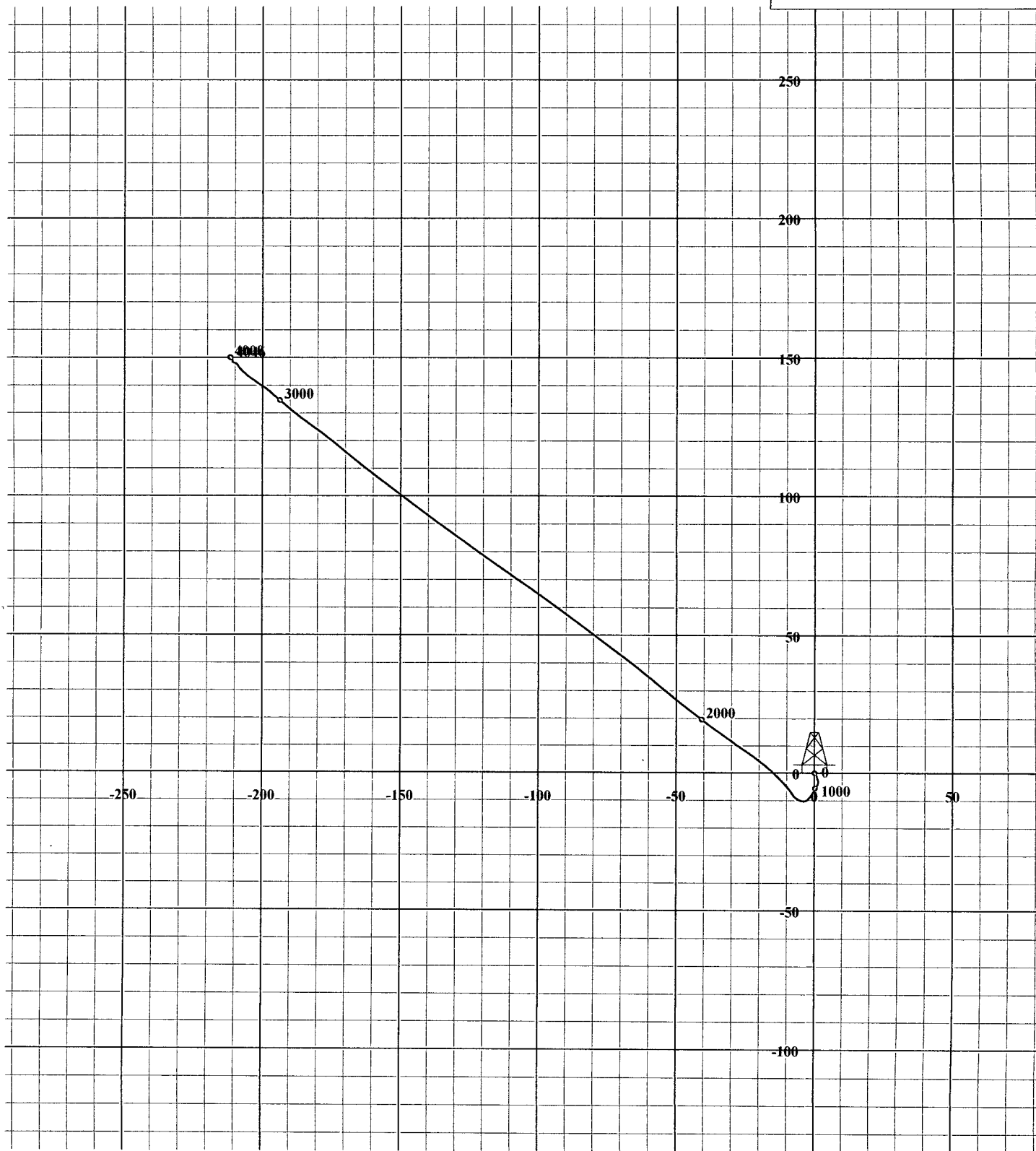
Field: Eunice Monument
Site: Lea County, NM
Well: North Monument G/SA #380
Survey: 01/25/10-01/28/10

G/T/M



Azimuths to Grid North
True North 0.00°
Magnetic North 0.00°
Magnetic Field
Dip Angle 0.00°
Date 1/31/2010
Model igrf2000

South(-)/North(+) [50ft/in]



West(-)/East(+) [50ft/in]