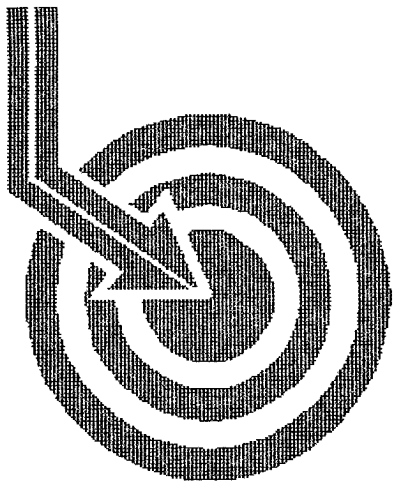




30-025-39071
P-32-195-37E
1085 FSL & 1246 FEL

Scientific Drilling

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APACHE CORPORATION

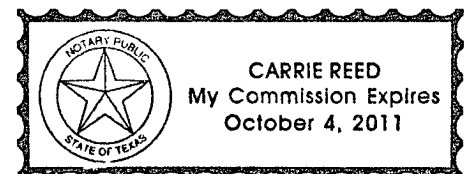
Field: Eunice Monument
Site: Lea County, NM
Well: North Monument G/SA #379
Wellpath: DH - Job #32D0410227
Survey: 04/02/10-04/06/10

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

Richard
Company Representative

Notarized this date 5th of May, 2010.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International, Inc.

Survey Report

Company: APACHE CORPORATION Date: 4/8/2010 Time: 22:21:27 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 #379 Section (VS) Reference: Well (0.00N,0.00E,354.72Azi)
Wellpath: VH - Job #32K0410231 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 04/03/10 Start Date: 4/3/2010
KSRG 0'-1157'
Company: Scientific Drilling Internatio Engineer: Madrid/Sutherland/Williams
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	359.43	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.50	321.84	100.0	0.4	0.3	-0.3	0.50	0.4	321.84
200.0	0.34	267.47	200.0	0.7	0.7	-0.8	0.41	1.1	308.85
300.0	0.38	292.97	300.0	0.9	0.8	-1.4	0.16	1.6	298.78
400.0	0.49	267.43	400.0	1.1	0.9	-2.2	0.22	2.3	292.52
500.0	0.41	249.28	500.0	1.0	0.8	-2.9	0.16	3.0	284.42
600.0	0.62	291.21	600.0	1.2	0.8	-3.8	0.42	3.9	282.31
700.0	0.70	288.64	700.0	1.7	1.2	-4.9	0.09	5.0	284.04
800.0	0.64	295.43	800.0	2.2	1.6	-5.9	0.10	6.2	285.52
900.0	0.58	277.44	900.0	2.6	2.0	-6.9	0.20	7.2	285.72
1000.0	0.36	212.05	1000.0	2.4	1.8	-7.6	0.54	7.8	282.97
1100.0	0.50	201.51	1100.0	1.8	1.1	-7.9	0.16	8.0	277.76
1157.0	0.63	211.32	1157.0	1.3	0.6	-8.2	0.28	8.2	274.07



Scientific Drilling International, Inc.

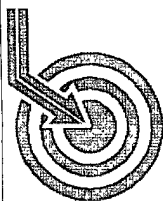
Survey Report

Company: APACHE CORPORATION	Date: 4/19/2010	Time: 21:10:24	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 #379	Section (VS) Reference:	Well (0.00N,0.00E,354.72Azi)	
Wellpath: DH - Job #32D0410227	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 04/02/10-04/06/10	Start Date: 4/2/2010
MWD 1245'-3951'	
Company: Scientific Drilling Internatio	Engineer: Kimble/Lambert
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
1157.0	0.63	211.32	1157.0	1.3	0.6	-8.2	0.00	8.2	274.07
1245.0	0.91	221.26	1244.9	0.5	-0.4	-8.9	0.35	8.9	267.71
1309.0	0.48	321.11	1308.9	0.3	-0.5	-9.4	1.72	9.4	266.78
1372.0	0.91	340.68	1371.9	1.0	0.1	-9.7	0.77	9.7	270.87
1436.0	0.93	338.67	1435.9	2.0	1.1	-10.1	0.06	10.2	276.28
1531.0	1.00	330.82	1530.9	3.5	2.6	-10.8	0.16	11.1	283.32
1626.0	0.88	329.60	1625.9	5.0	3.9	-11.6	0.13	12.2	288.68
1721.0	1.19	338.63	1720.9	6.6	5.5	-12.3	0.37	13.4	293.94
1785.0	2.01	14.90	1784.9	8.3	7.2	-12.2	1.98	14.2	300.32
1848.0	3.07	25.13	1847.8	10.7	9.8	-11.2	1.82	14.9	310.96
1912.0	3.91	26.66	1911.7	14.1	13.3	-9.5	1.32	16.3	324.29
1975.0	4.43	24.44	1974.5	18.0	17.4	-7.6	0.86	19.0	336.51
2039.0	5.26	17.61	2038.3	22.9	22.4	-5.6	1.58	23.1	345.87
2103.0	6.17	7.10	2102.0	28.9	28.6	-4.3	2.16	29.0	351.39
2166.0	7.02	356.18	2164.6	36.1	35.8	-4.2	2.40	36.1	353.36
2230.0	7.87	354.33	2228.0	44.4	44.1	-4.9	1.38	44.4	353.70
2293.0	7.87	353.22	2290.4	53.0	52.7	-5.8	0.24	53.0	353.71
2357.0	8.31	353.02	2353.8	62.0	61.6	-6.9	0.69	62.0	353.63
2419.0	9.02	352.80	2415.1	71.3	70.9	-8.0	1.15	71.3	353.53
2482.0	9.77	354.00	2477.2	81.6	81.1	-9.2	1.23	81.6	353.52
2544.0	9.58	353.44	2538.4	92.0	91.5	-10.4	0.34	92.1	353.54
2608.0	9.41	353.05	2601.5	102.6	102.0	-11.6	0.28	102.6	353.51
2671.0	9.27	353.08	2663.6	112.8	112.1	-12.8	0.22	112.8	353.47
2735.0	9.73	355.97	2726.8	123.4	122.6	-13.8	1.04	123.4	353.56
2798.0	9.45	356.67	2788.9	133.9	133.1	-14.5	0.48	133.9	353.78
2862.0	8.48	355.86	2852.1	143.8	143.0	-15.2	1.53	143.8	353.95
2926.0	6.75	352.36	2915.5	152.3	151.5	-16.0	2.80	152.3	353.97
2989.0	5.45	348.77	2978.2	159.0	158.1	-17.1	2.15	159.0	353.84
3053.0	4.78	352.23	3041.9	164.7	163.7	-18.0	1.15	164.7	353.72
3116.0	3.73	350.89	3104.7	169.3	168.3	-18.7	1.67	169.4	353.66
3180.0	2.22	345.50	3168.7	172.6	171.6	-19.3	2.40	172.7	353.57
3243.0	1.08	334.58	3231.6	174.4	173.3	-19.9	1.87	174.4	353.45
3306.0	0.90	322.28	3294.6	175.4	174.2	-20.5	0.44	175.4	353.30
3402.0	0.94	307.18	3390.6	176.5	175.3	-21.5	0.26	176.6	352.99
3497.0	0.48	262.29	3485.6	177.0	175.7	-22.6	0.73	177.2	352.68
3592.0	0.67	227.86	3580.6	176.7	175.3	-23.4	0.41	176.8	352.41
3687.0	0.55	228.82	3675.6	176.1	174.6	-24.1	0.13	176.3	352.14
3782.0	0.71	247.22	3770.6	175.7	174.1	-25.0	0.27	175.9	351.83
3878.0	0.77	247.52	3866.6	175.3	173.6	-26.2	0.06	175.6	351.43
3951.0	0.99	244.17	3939.6	174.9	173.2	-27.2	0.31	175.3	351.08



Scientific
Drilling

Field: Eunice Monument
Site: Lea County, NM
Well: North Monument G/SA #379
Survey: 04/02/10-04/06/10



Azimuths to Grid North
True North 0 00°
Magnetic North 0 00°
Magnetic Field
Dip Angle 0 00°
Date 4/19/2010
Model. igrf2000

