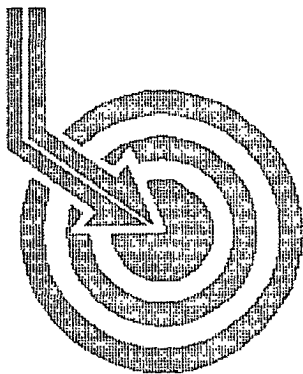




Scientific Drilling

RECEIVED

NOV 17 2009

HOBBSOCD

APACHE CORPORATION

Field: Eunice Monument
Site: Lea County, NM
Well: North Monument G/SA #375
Wellpath: DH - Job #32D0909386
Survey: 09/28/09-10/01/09

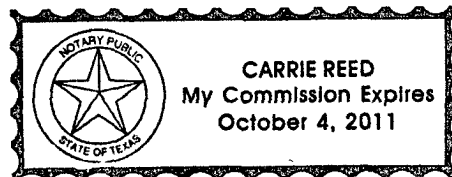
SUR: E-30-19s-37e, 1527/N & 997/W
BHL: E-30-19s-37e, 1343/N & 1309/W
API # 30-025-39068

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

.....Robert..... Company Representative

Notorized this date 3rd of November, 2009.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: APACHE CORPORATION Date: 09/30/2009 Time: 20:30:31 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 #375 Section (VS) Reference: Well (0.00N,0.00E,59.20Azi)
Wellpath: VH - Job #32K0909391 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 09/28/09 Start Date: 09/28/2009
KSRG 0'-1217'
Company: Scientific Drilling Internatio Engineer: Garza/Rowe/Paredes
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
0.00	0.00	359.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.59	302.30	100.00	-0.23	0.28	-0.44	0.59	0.51	302.30
200.00	0.52	269.60	199.99	-0.86	0.55	-1.32	0.32	1.43	292.45
300.00	0.38	247.78	299.99	-1.58	0.42	-2.08	0.22	2.13	281.35
400.00	0.18	9.71	399.99	-1.80	0.45	-2.37	0.50	2.41	280.72
500.00	0.05	269.80	499.99	-1.74	0.60	-2.38	0.19	2.46	284.19
600.00	0.09	232.46	599.99	-1.85	0.55	-2.49	0.06	2.55	282.56
700.00	0.23	218.67	699.99	-2.12	0.35	-2.68	0.14	2.70	277.45
800.00	0.05	213.82	799.99	-2.35	0.16	-2.83	0.18	2.83	273.18
900.00	0.23	129.51	899.99	-2.32	-0.01	-2.70	0.23	2.70	269.85
1000.00	0.40	111.70	999.99	-2.04	-0.26	-2.22	0.19	2.23	263.22
1100.00	0.44	148.14	1099.98	-1.82	-0.72	-1.69	0.27	1.84	246.95
1200.00	0.38	154.30	1199.98	-1.84	-1.34	-1.34	0.07	1.90	224.98
1217.00	0.41	135.80	1216.98	-1.83	-1.44	-1.28	0.77	1.92	221.58



Scientific Drilling International Survey Report

Company: APACHE CORPORATION Date: 10/02/2009 Time: 09:50:12 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 #375 Section (VS) Reference: Well (0.00N,0.00E,59.20Azi)
Wellpath: DH - Job #32D0909386 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 09/28/09-10/01/09 Start Date: 09/28/2009
MWD 1315'-3968'
Company: Scientific Drilling Internatio Engineer: Smith/Corley
Tool: MWD;MWD Tied-to: From: Definitive Path

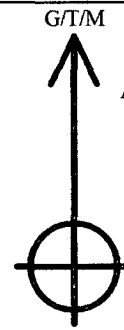
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
1217.00	0.41	135.80	1216.98	-1.83	-1.44	-1.28	0.00	1.92	221.58
1315.00	0.38	105.71	1314.98	-1.53	-1.78	-0.72	0.21	1.92	202.01
1410.00	2.39	74.34	1409.95	0.60	-1.33	1.49	2.18	2.00	131.67
1505.00	4.40	59.60	1504.78	6.16	1.05	6.54	2.29	6.63	80.88
1599.00	8.23	63.71	1598.19	16.48	5.86	15.69	4.10	16.75	69.53
1694.00	10.93	55.45	1691.86	32.24	13.98	29.21	3.18	32.38	64.42
1789.00	10.90	56.63	1785.14	50.20	24.03	44.13	0.24	50.24	61.43
1884.00	12.02	59.04	1878.25	69.07	34.06	60.11	1.28	69.09	60.47
1979.00	12.82	57.56	1971.02	89.50	44.80	77.49	0.91	89.51	59.97
2073.00	15.02	56.43	2062.26	112.09	57.13	96.44	2.36	112.09	59.36
2168.00	15.65	57.62	2153.88	137.20	70.80	117.52	0.74	137.20	58.93
2263.00	16.59	59.44	2245.14	163.57	84.56	140.02	1.12	163.57	58.87
2358.00	16.87	59.90	2336.12	190.91	98.37	163.62	0.33	190.91	58.99
2453.00	16.46	61.46	2427.13	218.15	111.71	187.37	0.64	218.15	59.20
2548.00	14.10	63.07	2518.76	243.14	123.38	209.52	2.52	243.15	59.51
2643.00	12.71	59.86	2611.18	265.14	133.87	228.87	1.66	265.15	59.68
2738.00	10.86	60.15	2704.17	284.54	143.57	245.67	1.95	284.55	59.70
2833.00	10.03	57.71	2797.59	301.76	152.45	260.43	0.99	301.77	59.66
2928.00	8.99	55.51	2891.29	317.44	161.07	273.54	1.16	317.44	59.51
3023.00	7.49	54.06	2985.30	331.01	168.91	284.67	1.59	331.01	59.32
3117.00	5.35	60.26	3078.71	341.50	174.68	293.44	2.39	341.50	59.24
3214.00	4.27	57.33	3175.37	349.63	178.87	300.41	1.14	349.63	59.23
3307.00	2.27	70.60	3268.21	354.89	181.35	305.06	2.29	354.89	59.27
3402.00	1.08	85.41	3363.17	357.54	182.05	307.73	1.32	357.54	59.39
3497.00	0.54	68.63	3458.16	358.79	182.28	309.03	0.61	358.79	59.47
3592.00	0.41	97.40	3553.16	359.49	182.40	309.79	0.28	359.50	59.51
3718.00	0.39	28.85	3679.16	360.22	182.72	310.44	0.36	360.22	59.52
3841.00	0.29	78.49	3802.15	360.87	183.15	310.95	0.24	360.88	59.50
3968.00	0.34	57.31	3929.15	361.55	183.42	311.58	0.10	361.56	59.52



**Scientific
Drilling**

Field: Eunice Monument
Site: Lea County, NM
Well: North Monument G/SA #375
Wellpath: DH - Job #32D0909386
Survey: 09/28/09-10/01/09



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 10/02/2009
Model: igrf2000

