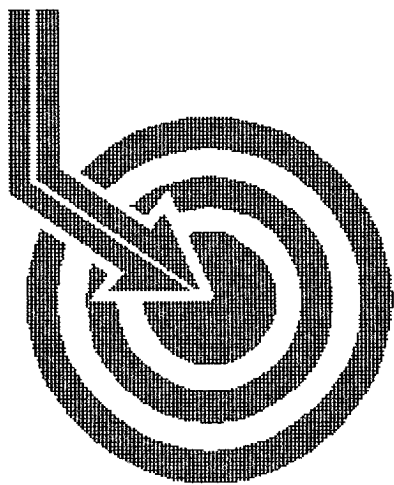


30-025-39300



Scientific Drilling

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HOBBSOCD

APACHE CORPORATION

Field: Eunice
Site: Lea County, NM
Well: West Blinebry Drinkard Unit #115
Wellpath: VH - Job #32K0510364
Survey: 05/15/10

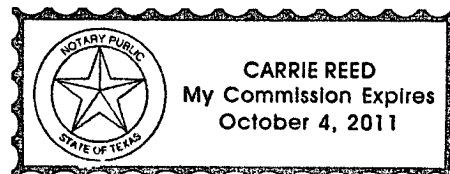
SUR: P-16-21s-37e, 280/S & 740/E
BHL: P-16-21s-37e, 31/S & 968/E
API #30-025-39300

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

Robert
Company Representative

Notarized this date 20th of May, 2010.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International, Inc.

Survey Report

Company: APACHE CORPORATION	Date: 5/12/2010	Time: 11:48:45	Page: 1
Field: Eunice	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: West Blinbry Drinkard Unit #1	Section (VS) Reference:	Well (0.00N,0.00E,225.50Azi)	
Wellpath: VH - Job #32K0510342	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 05/08/10	Start Date: 5/8/2010
KSRG 0°-1252'	
Company: Scientific Drilling Internatio	Engineer: Madrid
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	359.37	0.0	0.0	0.0	0.0	0.00	0.0	0.00
60.0	0.40	156.53	60.0	0.1	-0.2	0.1	0.67	0.2	156.53
151.0	0.55	152.31	151.0	0.3	-0.9	0.4	0.17	1.0	154.62
236.0	0.20	152.89	236.0	0.5	-1.4	0.7	0.41	1.5	153.83
326.0	0.19	163.85	326.0	0.6	-1.6	0.8	0.04	1.8	154.56
414.0	0.11	315.37	414.0	0.7	-1.7	0.8	0.33	1.9	156.12
504.0	0.15	300.54	504.0	0.7	-1.6	0.6	0.06	1.7	159.44
594.0	0.08	286.73	594.0	0.8	-1.5	0.4	0.08	1.6	163.91
683.0	0.07	289.54	683.0	0.8	-1.5	0.3	0.01	1.5	167.53
775.0	0.08	233.60	775.0	0.9	-1.5	0.2	0.08	1.5	171.52
870.0	0.29	204.40	870.0	1.2	-1.8	0.1	0.24	1.8	177.65
966.0	0.59	214.26	966.0	1.9	-2.4	-0.3	0.32	2.4	187.27
1062.0	0.57	222.06	1062.0	2.9	-3.2	-0.9	0.08	3.3	195.96
1169.0	0.66	230.91	1169.0	4.0	-3.9	-1.7	0.12	4.3	203.79
1252.0	0.56	221.03	1252.0	4.9	-4.6	-2.4	0.17	5.1	207.56



Scientific Drilling International, Inc.

Survey Report

Company: APACHE CORPORATION
Field: Eunice
Site: Lea County, NM
Well: West Blinbry Drinkard Unit #1
Wellpath: DH - Job #32D0510336

Date: 5/18/2010
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,225.50Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey: 05/09/10-05/13/10
Start Date: 5/9/2010
Company: Scientific Drilling Internatio
Engineer: Foster/Burnett
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
1252.0	0.56	221.03	1252.0	4.9	-4.6	-2.4	0.00	5.1	207.56
1386.0	0.34	244.20	1386.0	5.9	-5.2	-3.2	0.21	6.1	211.22
1544.0	0.50	290.25	1544.0	6.7	-5.2	-4.2	0.23	6.7	219.23
1702.0	0.71	295.41	1702.0	7.3	-4.5	-5.8	0.14	7.3	231.86
1860.0	1.13	339.02	1859.9	7.0	-2.7	-7.2	0.50	7.7	249.80
2019.0	0.97	66.03	2018.9	5.1	-0.6	-6.5	0.91	6.6	264.40
2178.0	0.51	254.68	2177.9	4.5	-0.3	-6.0	0.93	6.0	267.31
2337.0	0.05	7.94	2336.9	5.0	-0.4	-6.7	0.33	6.7	266.57
2496.0	0.27	215.97	2495.9	5.3	-0.6	-6.9	0.20	6.9	264.73
2655.0	0.20	225.51	2654.9	6.0	-1.1	-7.3	0.05	7.4	261.18
2813.0	0.38	154.20	2812.9	6.4	-1.8	-7.3	0.23	7.5	256.10
2908.0	0.45	155.78	2907.9	6.7	-2.4	-7.0	0.07	7.4	250.85
2972.0	1.23	226.46	2971.9	7.4	-3.1	-7.4	1.81	8.0	247.02
3042.0	3.08	229.37	3041.8	10.1	-4.9	-9.3	2.65	10.5	242.48
3128.0	4.49	227.41	3127.7	15.7	-8.6	-13.6	1.65	16.1	237.49
3192.0	5.48	225.10	3191.4	21.3	-12.5	-17.6	1.58	21.6	234.58
3253.0	6.98	227.31	3252.1	27.9	-17.1	-22.4	2.49	28.1	232.65
3349.0	8.64	227.36	3347.2	41.0	-25.9	-32.0	1.73	41.1	230.97
3444.0	7.93	226.60	3441.2	54.6	-35.2	-42.0	0.76	54.8	229.98
3535.0	8.65	226.28	3531.2	67.8	-44.3	-51.5	0.79	67.9	229.29
3630.0	8.02	226.30	3625.2	81.5	-53.8	-61.4	0.66	81.7	228.79
3726.0	8.64	222.23	3720.2	95.4	-63.8	-71.1	0.89	95.5	228.12
3854.0	8.44	218.01	3846.8	114.3	-78.3	-83.4	0.51	114.4	226.80
3948.0	7.94	215.13	3939.8	127.6	-89.0	-91.3	0.69	127.6	225.73
4043.0	9.08	219.27	4033.8	141.5	-100.2	-99.9	1.36	141.5	224.90
4169.0	8.77	222.63	4158.3	160.9	-115.0	-112.7	0.48	161.0	224.42
4296.0	9.18	224.43	4283.7	180.7	-129.3	-126.3	0.39	180.8	224.33
4424.0	9.00	223.72	4410.1	201.0	-143.9	-140.4	0.17	201.0	224.30
4582.0	8.91	224.37	4566.2	225.5	-161.5	-157.5	0.09	225.6	224.27
4709.0	8.63	223.17	4691.7	244.9	-175.5	-170.9	0.26	245.0	224.23
4834.0	7.99	223.02	4815.4	262.9	-188.7	-183.2	0.51	263.0	224.16
4930.0	7.58	223.15	4910.5	275.9	-198.2	-192.1	0.43	276.0	224.10
5057.0	8.06	226.35	5036.3	293.2	-210.5	-204.3	0.51	293.3	224.15
5152.0	7.73	226.52	5130.4	306.3	-219.5	-213.7	0.35	306.3	224.24
5215.0	6.40	228.47	5192.9	314.0	-224.7	-219.4	2.14	314.1	224.32
5279.0	4.88	231.37	5256.6	320.3	-228.8	-224.2	2.42	320.3	224.43
5342.0	4.48	227.91	5319.4	325.4	-232.1	-228.2	0.78	325.4	224.51
5406.0	3.31	226.90	5383.2	329.7	-235.0	-231.4	1.83	329.8	224.55
5470.0	2.99	229.10	5447.2	333.3	-237.4	-234.0	0.53	333.3	224.59
5533.0	2.47	213.17	5510.1	336.2	-239.6	-236.0	1.45	336.3	224.56
5597.0	1.48	194.72	5574.0	338.3	-241.5	-236.9	1.82	338.3	224.45
5660.0	0.30	68.61	5637.0	338.8	-242.3	-237.0	2.66	338.9	224.37
5756.0	0.36	42.52	5733.0	338.3	-242.0	-236.5	0.17	338.4	224.35
5883.0	0.58	30.35	5860.0	337.3	-241.1	-235.9	0.19	337.3	224.38
5978.0	0.72	43.28	5955.0	336.2	-240.3	-235.3	0.21	336.3	224.40
6105.0	0.65	162.48	6082.0	335.7	-240.4	-234.5	0.93	335.8	224.29
6263.0	0.69	151.10	6240.0	336.4	-242.1	-233.8	0.09	336.5	224.01



Scientific Drilling International, Inc.

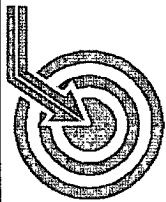
Survey Report

Company: APACHE CORPORATION Date: 5/18/2010 Time: 20:30:22 Page: 1
Field: Eunice Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Site: Lea County, NM Vertical (TVD) Reference: SITE 0.0
Well: West Blinbry Drinkard Unit #1 Section (VS) Reference: Well (0.00N,0.00E,225.50Azi)
Wellpath: VH - Job #32K0510364 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 05/15/10 Start Date: 5/15/2010
dropKSRG 6290'-7145'
Company: Scientific Drilling Internatio Engineer: Sutherland/Garza
Tool: MWD,MWD Tied-to: From: Definitive Path

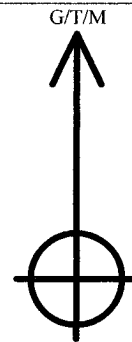
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
6263.0	0.69	151.10	6240.0	336.4	-242.1	-233.8	0.00	336.5	224.01
6290.3	0.81	158.15	6267.3	336.5	-242.4	-233.6	0.55	336.6	223.95
6385.4	0.83	155.07	6362.4	337.0	-243.6	-233.1	0.05	337.2	223.74
6480.3	0.82	151.98	6457.3	337.4	-244.8	-232.5	0.05	337.6	223.52
6575.3	0.81	148.50	6552.3	337.8	-246.0	-231.8	0.05	338.0	223.30
6670.4	0.75	142.30	6647.4	338.0	-247.1	-231.1	0.11	338.3	223.08
6765.5	0.55	127.49	6742.5	338.0	-247.9	-230.3	0.27	338.4	222.90
6860.5	0.51	120.83	6837.5	337.8	-248.3	-229.6	0.08	338.2	222.76
6955.6	0.80	117.71	6932.6	337.5	-248.9	-228.7	0.31	338.0	222.58
7050.6	0.60	121.40	7027.5	337.2	-249.4	-227.7	0.22	337.7	222.39
7145.7	0.55	124.40	7122.6	337.0	-250.0	-226.9	0.06	337.6	222.23



Scientific
Drilling

Field: Eunice
Site: Lea County, NM
Well: West Blinbry Drinkard Unit #115
Survey: 05/15/10



Azimuths to Grid North
True North 0 00°
Magnetic North 0 00°
Magnetic Field
Dip Angle 0 00°
Date 5/18/2010
Model igrf2000

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

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

