Scientific Drilling

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AUG 13 2010
HOBBSOCD

APACHE CORPORATION

Field: Blinebry
Site: Lea County, NM
Well: H. Corrigan #22
Wellpath: DH - Job #32D0510356
Survey: 05/12/10-05/20/10

SUR: H-4-22s-37em 1550/N & 1280/E
BHL: A-4-22s-37e, 1208/N & 1247/E
API # 30-025-39715

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

Company Representative

Notarized this date 21st **of** June **, 2010.**

Notary Signature
Couty of Midland
State of Texas

NOTARY PUBLIC STATE OF TEXAS
CARRIE REED
My Commission Expires
October 4, 2011

Scientific Drilling

Scientific Drilling International, Inc.

Survey Report

Company:	APACHE CORPORATION	**Date:** 5/14/2010	**Time:** 11:29:15	**Page:**	1
Field:	Blinebry	**Co-ordinate(NE) Reference:**	Site: Lea County, NM, Grid North		
Site:	Lea County, NM	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	H. Corrigan #22	**Section (VS) Reference:**	Well (0.00N,0.00E,3.59Azi)		
Wellpath:	VH - Job #32K0510358	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey:	05/12/10 KSRG 0'-1086'	**Start Date:**	5/12/2010
Company:	Scientific Drilling Internatio	**Engineer:**	Guebara w/Express
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
100.0	0.81	186.72	100.0	-0.7	-0.7	-0.1	0.81	0.7	186.72
200.0	0.83	183.00	200.0	-2.1	-2.1	-0.2	0.06	2.1	185.46
300.0	0.71	201 04	300.0	-3.5	-3.4	-0.5	0.27	3.5	187.70
400.0	0.88	219.43	400.0	-4.7	-4.6	-1.2	0.30	4.7	194.31
500.0	0.64	224.55	500.0	-5.7	-5.6	-2.1	0 25	6.0	200.17
600.0	0.74	248.34	600.0	-6.4	-6.2	-3.0	0.30	6.9	206.06
700.0	1.22	226.87	699.9	-7.5	-7.2	-4.4	0 60	8.4	211.58
800.0	1.26	214.75	799.9	-9.2	-8.8	-5.8	0.26	10.6	213.43
900.0	1.01	230.83	899.9	-10.7	-10.3	-7.1	0.40	12.5	214.75
1000.0	0.93	220.94	999.9	-12.0	-11.5	-8.4	0.19	14.2	216.09
1086.0	0.64	239.90	1085 9	-12.8	-12.2	-9.2	0.45	15.3	217.04

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Survey Report

Company:	APACHE CORPORATION	**Date:** 5/24/2010	**Time:** 13:11:24	**Page:**	1
Field:	Blinebry	**Co-ordinate(NE) Reference:**	Site: Lea County, NM, Grid North		
Site:	Lea County, NM	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	H. Corrigan #22	**Section (VS) Reference:**	Well (0.00N,0.00E,3.59Azi)		
Wellpath:	DH - Job #32D0510356	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey:	05/12/10-05/20/10 MWD 1278'-7384'	**Start Date:**	5/12/2010
Company:	Scientific Drilling Internatio	**Engineer:**	McCormick/Drake/Becker
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
1086 0	0.64	239.90	1085.9	-12.8	-12.2	-9.2	0.00	15.3	217.04
1278.0	0.47	207.70	1277.9	-14.1	-13.5	-10.5	0.18	17.1	218.01
1369.0	0.47	165.52	1368.9	-14.8	-14.1	-10.6	0.37	17.7	216.83
1460.0	0 26	164.25	1459.9	-15.3	-14.7	-10.4	0.23	18.0	215.39
1551.0	0.31	191.51	1550.9	-15.8	-15.1	-10.4	0.16	18.4	214.58
1642.0	0.22	184.51	1641.9	-16.2	-15.6	-10.5	0.10	18.8	214.01
1733 0	0.38	112.71	1732.9	-16.5	-15.9	-10.2	0.41	18.9	212.85
1824.0	0.63	108.51	1823 9	-16.7	-16.1	-9.5	0.28	18.7	210.46
1914.0	0.93	116.07	1913.8	-17.1	-16.6	-8.4	0.35	18.6	206.72
2005.0	1.30	116.50	2004 8	-17.8	-17.4	-6.8	0.41	18.7	201.28
2096.0	1.12	112.31	2095.8	-18.5	-18.2	-5.0	0.22	18.9	195.45
2186.0	1.35	100.82	2185.8	-18.9	-18.7	-3.2	0.37	19.0	189.62
2276.0	1.31	97.81	2275.8	-19.1	-19.1	-1.1	0.09	19.1	183.34
2370 0	1.48	98.86	2369.7	-19 3	-19.4	1 2	0.18	19.4	176.60
2458.0	1.47	99.18	2457.7	-19.5	-19.8	3 4	0.01	20.0	170.26
2548.0	1.26	97.06	2547.7	-19.7	-20.1	5.5	0 24	20.8	164.64
2639.0	1.15	94.13	2638.7	-19.7	-20.2	7.4	0.14	21.6	159.89
2729 0	1.02	95 85	2728 6	-19 8	-20.4	9.1	0.15	22.3	155.92
2819.0	1.15	91.15	2818.6	-19.8	-20.5	10.8	0.17	23.2	152.19
2910.0	1.45	43.10	2909.6	-18.8	-19.7	12.5	1.20	23.3	147.54
3000.0	1.92	3.14	2999.6	-16.5	-17.3	13.4	1.37	21.9	142 35
3090.0	1.83	3.94	3089.5	-13.5	-14.4	13.6	0.10	19.8	136.72
3181.0	2.59	353.88	3180.5	-10.0	-10.9	13.4	0.93	17.3	129.06
3272.0	4.33	352.31	3271.3	-4.6	-5.5	12.8	1.91	13.9	113.14
3363.0	5 23	351 41	3362.0	2.8	2.1	11.7	0.99	11.9	80.02
3454.0	6.97	351.42	3452.4	12.2	11.6	10.2	1.91	15.5	41 38
3545 0	8.28	349.18	3542.6	24.0	23.5	8.2	1.48	24.9	19.18
3636.0	9.65	347.60	3632 5	37.7	37.4	5.3	1.53	37.8	8.08
3726.0	10.89	355.50	3721.1	53.3	53 2	3.0	2.08	53.3	3.25
3817.0	11.29	2.49	3810.4	70.7	70.7	2.7	1.54	70.8	2.22
3908 0	10 57	3.61	3899 7	88.0	87.9	3.6	0.82	88.0	2.38
3999.0	10.11	4.21	3989.3	104.3	104.2	4.8	0.52	104.3	2.61
4089.0	9.80	3.47	4077.9	119.9	119.8	5.8	0.37	119.9	2.77
4180.0	10.74	7.88	4167.5	136.1	135.9	7.4	1.35	136.1	3.13
4270.0	10.50	5.72	4255.9	152 6	152.4	9.4	0.52	152.6	3.53
4361.0	10.10	4.42	4345.4	168.9	168.6	10.8	0.51	168.9	3.68
4451.0	9.96	6.25	4434.1	184.6	184.2	12.3	0.39	184.6	3 82
4541.0	9.95	7.93	4522.7	200.1	199.6	14.2	0.32	200.1	4.07
4631.0	9.60	357.31	4611 4	215.3	214.8	14.9	2.04	215.3	3.98
4722.0	9.51	357.97	4701.2	230.3	229.9	14.3	0.16	230.3	3.56
4813.0	9.12	1.35	4791.0	245.0	244.6	14 2	0.74	245.0	3.33
4904 0	9.03	0.50	4880.8	259.4	259.0	14.5	0.18	259.4	3.19
4995.0	8.23	4.22	4970.8	273.0	272.6	15.0	1.07	273.0	3 15
5086.0	7.94	3.25	5060.9	285.8	285.4	15.8	0.35	285.8	3.18
5176 0	7.21	6.59	5150.1	297.7	297.2	16 8	0.95	297.7	3.24
5267.0	6.92	4.78	5240.4	308.8	308.3	17.9	0.40	308.9	3.33
5357.0	4.41	13.17	5330.0	317.7	317.1	19.2	2.93	317 7	3 46
5447 0	2.52	13.21	5419.8	323.0	322.4	20 4	2 10	323 0	3.62
5538.0	0.69	22.94	5510.7	325.5	324.9	21.1	2.03	325.5	3.72

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Survey Report

Company:	APACHE CORPORATION	**Date:** 5/24/2010 **Time:** 13:11:24	**Page:** 2
Field:	Blinebry	**Co-ordinate(NE) Reference:**	Site: Lea County, NM, Grid North
Site:	Lea County, NM	**Vertical (TVD) Reference:**	SITE 0.0
Well:	H. Corrigan #22	**Section (VS) Reference:**	Well (0.00N,0.00E,3.59Azi)
Wellpath:	DH - Job #32D0510356	**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
5629.0	0 54	12.63	5601.7	326.5	325.8	21.4	0.20	326.5	3.76
5720 0	0.53	9.89	5692.7	327 3	326.6	21.6	0.03	327.3	3.78
5811.0	0.30	45.15	5783.7	327.9	327.2	21.8	0.37	327.9	3.81
5902.0	0.61	46.44	5874.7	328.4	327.7	22.3	0.34	328.5	3.90
5993 0	0.68	30.14	5965.7	329.3	328.5	23.0	0.21	329.3	4.00
6083.0	0.48	44.08	6055.7	330.0	329 2	23.5	0.27	330.1	4.08
6173.0	0.93	22.30	6145.7	331.0	330.2	24.0	0.57	331.0	4.16
6264 0	0.86	32.02	6236.7	332.3	331.4	24.7	0.18	332.4	4.26
6354.0	1.04	20.87	6326.7	333.7	332.8	25.3	0.29	333.7	4.35
6445.0	0.98	22.70	6417.7	335.2	334.3	25.9	0.07	335.3	4.43
6536 0	1.11	21.58	6508.7	336.8	335.8	26.5	0.14	336.8	4.52
6627.0	0.44	30.88	6599.7	337.9	336.9	27.0	0.75	338.0	4.59
6718.0	0.48	57.78	6690.7	338.5	337.4	27.5	0.24	338.5	4.67
6809.0	0.48	31.85	6781.6	339.0	337.9	28.1	0.24	339.1	4.75
6900.0	0.57	60.75	6872.6	339.6	338.5	28.7	0.30	339.7	4.84
6991.0	0.52	53.70	6963.6	340.1	339.0	29.4	0.09	340.2	4.95
7081.0	0.54	40.71	7053.6	340.7	339.5	30.0	0.14	340.8	5.05
7172.0	0.53	53.42	7144.6	341.3	340.1	30.6	0.13	341.5	5.14
7263.0	0.88	52 59	7235.6	342.1	340.8	31.5	0.38	342.2	5.28
7354.0	0.68	77.59	7326.6	342.7	341.3	32.6	0.43	342.9	5.45
7384.0	0.67	63.99	7356.6	342.8	341.4	32.9	0.53	343.0	5.51