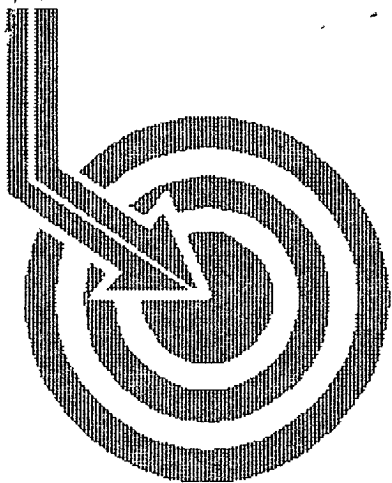




Scientific Drilling

RECEIVED

AUG 10 2010
HOBBSDOCD

30-025-39696

APACHE CORPORATION

Field: Blinebry
Site: Lea County, NM
Well: E.W. Walden #16
Wellpath: DH - Job #32D0610453
Survey: 06/22/10-06/25/10

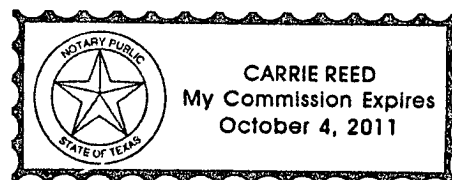
SUR @ K-15-22s-37e, 1343/S & 1415/W
BHL @ M-15-22s-37e, 1270/S & 1252/W
API # 30-025-39696

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

Richard
Company Representative

Notarized this date 2012 of July, 2010.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International, Inc.

Survey Report

Company: APACHE CORPORATION
Field: Blinbry
Site: Lea County, NM
Well: E.W. Walden #16
Wellpath: VH - Job #32K0610465

Date: 6/27/2010
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,241.77Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey: 06/22/10
Start Date: 6/22/2010
Company: Scientific Drilling Internatio
Engineer: Garza/Renteria
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
85.6	0.50	45.83	85.6	-0.4	0.3	0.3	0.58	0.4	45.83
143.1	0.32	347.97	143.1	-0.6	0.6	0.4	0.74	0.7	34.99
233.1	0.70	336.19	233.1	-0.8	1.3	0.1	0.44	1.3	5.96
323.2	0.41	50.13	323.2	-1.1	2.1	0.2	0.78	2.1	4.61
412.8	0.23	177.18	412.8	-1.4	2.1	0.4	0.65	2.1	11.44
502.1	0.04	163.65	502.1	-1.3	1.9	0.4	0.21	1.9	13.19
591.9	0.13	150.37	591.9	-1.3	1.7	0.5	0.10	1.8	15.86
687.2	0.09	236.99	687.2	-1.2	1.6	0.5	0.16	1.7	16.81
782.4	0.37	151.56	782.4	-1.1	1.3	0.6	0.39	1.4	23.67
877.7	0.75	140.11	877.7	-1.2	0.6	1.1	0.41	1.2	63.62
973.0	0.64	136.21	973.0	-1.5	-0.3	1.9	0.13	1.9	99.28
1068.2	0.65	152.84	1068.2	-1.6	-1.2	2.5	0.20	2.8	115.12
1163.5	0.66	155.53	1163.5	-1.6	-2.2	3.0	0.03	3.7	125.90
1258.7	0.50	120.10	1258.7	-1.8	-2.9	3.6	0.40	4.6	128.77
1354.0	0.62	131.92	1354.0	-2.2	-3.4	4.3	0.17	5.5	128.41
1449.3	0.73	138.84	1449.2	-2.5	-4.2	5.1	0.14	6.6	129.64
1544.5	0.65	134.55	1544.4	-2.8	-5.1	5.9	0.10	7.7	130.70
1639.8	0.78	120.16	1639.7	-3.3	-5.8	6.8	0.23	8.9	130.17
1735.0	0.80	167.58	1734.9	-3.4	-6.7	7.5	0.67	10.1	131.82
1830.3	1.22	98.07	1830.2	-4.1	-7.5	8.7	1.26	11.5	130.95
1925.6	1.93	76.80	1925.5	-6.4	-7.3	11.2	0.95	13.4	123.01
2020.8	2.56	74.46	2020.6	-10.1	-6.4	14.8	0.67	16.2	113.20
2116.1	2.56	72.51	2115.8	-14.2	-5.2	18.9	0.09	19.6	105.23
2211.3	2.34	67.64	2210.9	-18.3	-3.8	22.8	0.32	23.1	99.42
2306.6	2.30	65.09	2306.1	-22.1	-2.2	26.3	0.12	26.4	94.85
2401.9	2.20	60.56	2401.4	-25.8	-0.5	29.6	0.21	29.6	91.01
2497.1	1.87	57.41	2496.5	-29.2	1.2	32.5	0.37	32.5	87.87
2592.4	1.42	54.37	2591.8	-31.9	2.7	34.8	0.48	34.9	85.50
2687.6	1.14	54.17	2686.9	-34.0	4.0	36.5	0.29	36.7	83.78
2782.9	1.04	49.71	2782.2	-35.8	5.1	37.9	0.14	38.3	82.36
2878.2	0.89	52.98	2877.5	-37.4	6.1	39.2	0.17	39.7	81.16
2973.4	0.89	60.91	2972.7	-38.9	6.9	40.4	0.13	41.0	80.31
3068.7	1.00	58.95	3068.0	-40.5	7.7	41.8	0.12	42.5	79.57
3163.9	0.93	56.24	3163.2	-42.0	8.5	43.1	0.09	44.0	78.79
3259.2	0.94	41.23	3258.5	-43.6	9.6	44.3	0.26	45.3	77.81
3354.5	0.92	28.38	3353.8	-44.9	10.8	45.2	0.22	46.5	76.52
3449.7	0.95	21.33	3448.9	-46.2	12.2	45.8	0.12	47.4	75.05
3545.0	0.71	13.33	3544.2	-47.2	13.5	46.2	0.28	48.2	73.68
3640.2	0.67	11.72	3639.4	-47.9	14.7	46.5	0.05	48.8	72.50
3735.5	0.57	11.58	3734.7	-48.6	15.7	46.7	0.10	49.3	71.45



Scientific Drilling International, Inc.

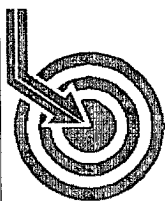
Survey Report

Company: APACHE CORPORATION	Date: 6/30/2010	Time: 16:36:56	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: E W. Walden #16	Section (VS) Reference:	Well (0.00N,0.00E,241.77Azi)	
Wellpath: DH - Job #32D0610453	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 06/22/10-06/25/10	Start Date: 6/30/2010
MWD 3850'-7246'	
Company: Scientific Drilling Internatio	Engineer: Kriethe/Hansen
Tool: MWD,MWD	Tied-to: From: Definitive Path

Survey

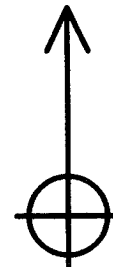
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
3735.0	0.57	11.58	3734.2	-48.6	15.7	46.7	0.00	49.3	71.45
3735.5	0.57	11.58	3734.7	-48.6	15.7	46.7	0.10	49.3	71.45
3850.0	1.08	251.40	3849.2	-47.9	15.9	45.8	1.27	48.5	70.87
3913.0	1.97	245.50	3912.2	-46.2	15.2	44.2	1.43	46.8	70.99
3977.0	2.69	238.70	3976.1	-43.6	14.0	42.0	1.20	44.2	71.54
4040.0	4.56	238.40	4039.0	-39.6	11.9	38.6	2.97	40.4	72.81
4104.0	6.29	241.10	4102.7	-33.6	8.9	33.3	2.73	34.5	75.04
4168.0	8.71	246.70	4166.2	-25.2	5.3	25.8	3.95	26.3	78.41
4231.0	10.60	251.20	4228.3	-14.8	1.5	15.9	3.23	16.0	84.49
4295.0	11.29	250.10	4291.1	-2.8	-2.5	4.5	1.13	5.1	119.09
4390.0	11.17	250.10	4384.3	15.5	-8.8	-12.9	0.13	15.6	235.77
4485.0	11.25	247.36	4477.5	33.9	-15.5	-30.1	0.57	33.9	242.79
4580.0	11.08	246.70	4570.7	52.2	-22.7	-47.1	0.22	52.2	244.28
4675.0	11.95	240.25	4663.8	71.1	-31.2	-64.0	1.63	71.2	244.04
4770.0	11.75	238.79	4756.7	90.6	-41.1	-80.8	0.38	90.6	243.07
4865.0	11.35	238.07	4849.8	109.6	-51.0	-97.0	0.45	109.6	242.26
4960.0	10.81	245.40	4943.1	127.8	-59.7	-113.0	1.59	127.8	242.18
5055.0	9.42	246.30	5036.6	144.5	-66.5	-128.3	1.47	144.5	242.60
5151.0	7.14	244.10	5131.6	158.2	-72.3	-140.8	2.40	158.3	242.84
5246.0	5.72	239.30	5226.0	168.9	-77.3	-150.2	1.60	168.9	242.78
5341.0	4.71	246.60	5320.6	177.5	-81.2	-157.9	1.27	177.5	242.77
5436.0	3.68	246.10	5415.3	184.4	-84.0	-164.2	1.08	184.5	242.91
5532.0	0.94	207.69	5511.2	188.1	-86.0	-167.4	3.13	188.2	242.82
5627.0	0.94	218.52	5606.2	189.5	-87.3	-168.2	0.19	189.5	242.59
5722.0	0.97	208.55	5701.2	190.9	-88.6	-169.1	0.18	190.9	242.36
5817.0	0.90	221.34	5796.2	192.3	-89.8	-170.0	0.23	192.3	242.15
5913.0	0.93	210.50	5892.2	193.6	-91.1	-170.9	0.18	193.6	241.95
6008.0	0.83	286.14	5987.2	194.8	-91.5	-171.9	1.14	194.8	241.97
6103.0	0.67	290.19	6082.2	195.7	-91.2	-173.1	0.18	195.7	242.23
6199.0	0.74	276.20	6178.2	196.5	-90.9	-174.3	0.19	196.5	242.45
6294.0	0.54	286.80	6273.2	197.4	-90.7	-175.3	0.24	197.4	242.64
6389.0	1.48	14.70	6368.1	196.8	-89.4	-175.4	1.64	196.9	243.00
6483.0	1.38	17.63	6462.1	195.2	-87.1	-174.8	0.13	195.3	243.50
6578.0	1.31	18.97	6557.1	193.6	-85.0	-174.1	0.08	193.7	243.97
6674.0	1.01	10.71	6653.1	192.2	-83.1	-173.6	0.36	192.4	244.40
6769.0	1.43	57.82	6748.1	190.5	-81.7	-172.4	1.10	190.8	244.65
6864.0	1.41	55.65	6843.0	188.2	-80.4	-170.4	0.06	188.4	244.74
6960.0	1.55	42.01	6939.0	185.8	-78.8	-168.6	0.39	186.1	244.96
7055.0	1.64	47.35	7034.0	183.3	-76.9	-166.7	0.18	183.6	245.24
7150.0	1.28	42.21	7128.9	181.0	-75.2	-165.0	0.40	181.3	245.50
7246.0	1.15	40.98	7224.9	179.0	-73.7	-163.7	0.14	179.5	245.77



Scientific
Drilling

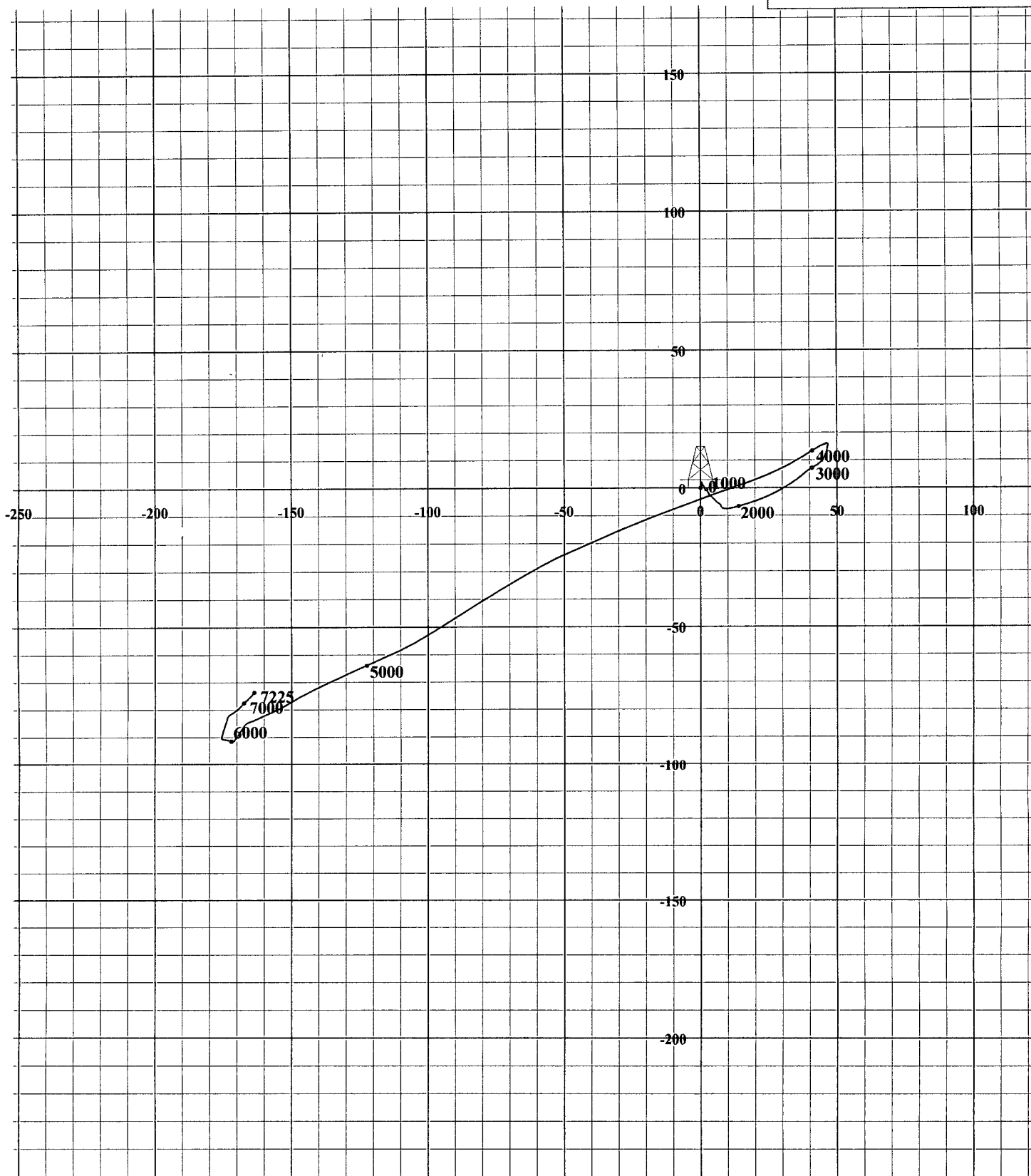
Field: Blinebry
Site: Lea County, NM
Well: E.W. Walden #16
Survey: 06/22/10-06/25/10

G/T/M



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°
Magnetic Field
Dip Angle: 0.00°
Date: 6/30/2010
Model: igrf2000

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



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