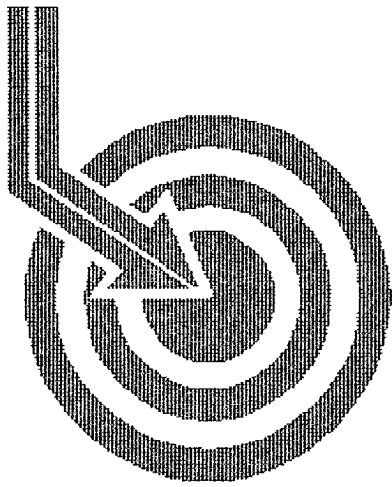


30-025-39688



Scientific Drilling

SUR: K-33-21s-37e, 1380/S & 1520/W
BHL: N-33-21s-37e, 1266/S & 1359/W
api # 30-025-39688

APACHE CORPORATION

Field: Blinebry
Site: Lea County, NM
Well: JG Hare #18
Wellpath: DH - Job #32D0310186
Survey: 03/24/10-03/31/10

RECEIVED

MAY 19 2010

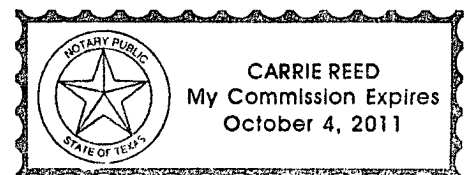
HOBBSOCD

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

L. Haxton
Company Representative

Notarized this date 31st of March, 2010.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Inc.

Survey Report

Company: APACHE CORPORATION	Date: 3/26/2010	Time: 11:09:10	Page: 1
Field: Blinberry	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0 0	
Well: JG Hare #18	Section (VS) Reference:	Well (0.00N,0.00E,235.43Azi)	
Wellpath: VH - Job #32K0310209	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 03/24/10	Start Date: 3/24/2010
Company: Scientific Drilling Internatio	Engineer: Garza
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	359.38	0.0	0.0	0.0	0.0	0.00	0.0	0.00
75.9	0.19	203.36	75.9	0.1	-0.1	0.0	0.25	0.1	203.36
136.5	0.37	211.54	136.5	0.4	-0.4	-0.2	0.30	0.4	207.15
223.0	0.31	195.84	223.0	0.8	-0.8	-0.4	0.13	0.9	205.64
313.0	0.20	135.46	313.0	1.0	-1.2	-0.4	0.30	1.2	196.84
401.6	0.20	110.76	401.6	0.9	-1.3	-0.1	0.10	1.4	184.46
492.6	0.25	120.36	492.6	0.7	-1.5	0.2	0.07	1.5	171.89
583.6	0.30	210.81	583.6	0.8	-1.8	0.3	0.43	1.8	171.71
674.0	0.36	203.79	674.0	1.3	-2.3	0.0	0.08	2.3	179.29
764.5	0.42	207.99	764.5	1.8	-2.8	-0.2	0.07	2.8	184.90
854.5	0.55	198.77	854.5	2.4	-3.5	-0.5	0.17	3.6	188.64
945.5	0.52	200.43	945.5	3.1	-4.3	-0.8	0.04	4.4	190.74
1036.5	0.54	191.81	1036.5	3.8	-5.1	-1.1	0.09	5.2	191.59
1126.7	0.36	188.35	1126.7	4.3	-5.8	-1.2	0.20	5.9	191.45
1217.8	0.42	196.76	1217.8	4.7	-6.4	-1.3	0.09	6.6	191.58
1308.0	0.36	181.26	1308.0	5.2	-7.0	-1.4	0.13	7.2	191.42
1398.9	0.30	180.92	1398.9	5.5	-7.6	-1.4	0.07	7.7	190.72
1489.9	0.39	169.06	1489.9	5.7	-8.1	-1.4	0.13	8.2	189.64
1580.4	0.27	168.76	1580.4	5.9	-8.6	-1.3	0.13	8.7	188.43
1671.3	0.16	75.75	1671.3	5.9	-8.8	-1.1	0.35	8.9	187.20
1762.4	0.78	52.28	1762.4	5.2	-8.4	-0.5	0.70	8.4	183.39
1852.8	1.15	49.59	1852.8	3.6	-7.4	0.7	0.41	7.4	174.76
1942.6	1.76	47.89	1942.5	1.4	-5.9	2.4	0.68	6.4	157.97
2034.2	2.04	54.43	2034.1	-1.6	-4.0	4.8	0.39	6.2	130.14
2124.0	2.07	59.30	2123.8	-4.9	-2.3	7.5	0.20	7.8	106.84
2215.0	2.11	60.67	2214.8	-8.2	-0.6	10.3	0.07	10.3	93.30
2305.6	2.29	58.49	2305.3	-11.6	1.2	13.3	0.22	13.4	85.00
2396.6	2.13	58.35	2396.2	-15.1	3.0	16.3	0.18	16.6	79.57
2487.6	1.79	57.88	2487.2	-18.2	4.6	19.0	0.37	19.5	76.23
2578.0	1.43	43.46	2577.5	-20.8	6.2	20.9	0.60	21.8	73.46
2669.1	1.10	38.94	2668.6	-22.7	7.7	22.3	0.38	23.6	70.87
2760.0	0.77	44.01	2759.5	-24.1	8.8	23.2	0.37	24.9	69.17
2851.0	0.71	46.78	2850.5	-25.3	9.7	24.1	0.08	25.9	68.12
2942.1	0.53	26.07	2941.6	-26.2	10.4	24.7	0.31	26.8	67.08
3033.2	0.43	25.35	3032.7	-26.9	11.1	25.0	0.11	27.4	66.02
3123.6	0.43	35.12	3123.1	-27.5	11.7	25.3	0.08	27.9	65.21
3214.5	0.36	40.86	3214.0	-28.1	12.2	25.7	0.09	28.5	64.63
3305.8	0.17	59.81	3305.3	-28.5	12.5	26.0	0.23	28.9	64.38
3396.5	0.16	34.28	3396.0	-28.8	12.7	26.2	0.08	29.1	64.23
3486.9	0.38	9.82	3486.4	-29.1	13.1	26.3	0.27	29.4	63.63
3578.0	0.44	350.86	3577.5	-29.5	13.7	26.3	0.16	29.7	62.52
3668.9	0.41	344.89	3668.4	-29.7	14.4	26.2	0.06	29.9	61.27
3759.4	0.40	348.91	3758.9	-29.9	15.0	26.0	0.03	30.0	60.10
3850.5	0.36	355.34	3850.0	-30.2	15.6	26.0	0.06	30.3	59.04
3940.6	0.41	13.56	3940.1	-30.6	16.2	26.0	0.15	30.6	58.13



Scientific Drilling International Inc.

Survey Report

Company: APACHE CORPORATION
Field: Blinebry
Site: Lea County, NM
Well: JG Hare #18
Wellpath: DH - Job #32D0310186

Date: 3/31/2010
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0 00N,0.00E,235.43Azi)
Survey Calculation Method: Minimum Curvature

Page: 1
Db: Sybase

Survey: 03/24/10-03/31/10
Company: Scientific Drilling Internatio
Tool: MWD,MWD

Start Date: 3/24/2010
Engineer: Kimble/Baldwin/Burnett
Tied-to: From: Definitive Path

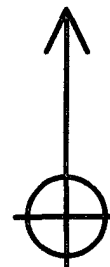
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
3940.6	0.41	13.56	3940.1	-30.6	16.2	26.0	0.00	30.6	58.13
4093.0	1.25	272.26	4092.4	-29.7	16.8	24.5	0.91	29.7	55.59
4184.0	3.23	266.87	4183.4	-26.7	16.7	20.9	2.19	26.8	51.47
4275.0	5.87	254.71	4274.1	-20.1	15.3	13.9	3.07	20.7	42.21
4366.0	8.17	249.18	4364.4	-9.4	11.8	3.3	2.63	12.2	15.86
4457.0	9.20	250.12	4454.4	3.9	7.0	-9.5	1.14	11.8	306.27
4548.0	11.65	243.84	4543.8	20.0	0.5	-24.6	2.96	24.6	271.10
4638.0	14.02	239.61	4631.6	39.9	-9.0	-42.2	2.83	43.2	257.90
4729.0	14.74	233.90	4719.7	62.4	-21.4	-61.1	1.75	64.7	250.65
4820.0	14.54	234.85	4807.8	85.4	-34.8	-79.8	0.34	87.0	246.40
4911.0	14.73	232.14	4895.8	108.4	-48.5	-98.2	0.78	109.6	243.71
5001.0	14.63	228.28	4982.9	131.1	-63.1	-115.7	1.09	131.8	241.40
5091.0	12.38	224.82	5070.4	151.9	-77.5	-131.0	2.66	152.2	239.39
5182.0	9.13	222.59	5159.8	168.5	-89.8	-142.8	3.60	168.7	237.85
5282.0	5.13	212.89	5259.0	180.4	-99.4	-150.6	4.16	180.4	236.59
5363.0	3.72	207.70	5339.8	186.1	-104.7	-153.8	1.81	186.1	235.75
5454.0	2.03	215.86	5430.6	190.2	-108.6	-156.1	1.91	190.2	235.16
5544.0	0.61	218.18	5520.6	192.1	-110.3	-157.3	1.58	192.1	234.96
5635.0	0.43	211.13	5611.6	192.9	-111.0	-157.8	0.21	192.9	234.88
5726.0	0.43	192.34	5702.6	193.5	-111.6	-158.1	0.15	193.5	234.77
5817.0	0.31	171.55	5793.6	193.8	-112.2	-158.1	0.20	193.9	234.64
5909.0	0.35	203.09	5885.6	194.2	-112.7	-158.2	0.20	194.2	234.53
6000.0	0.31	222.04	5976.6	194.7	-113.1	-158.4	0.13	194.7	234.47
6090.0	0.48	238.40	6066.6	195.3	-113.5	-158.9	0.22	195.3	234.46
6181.0	0.59	264.22	6157.6	196.1	-113.8	-159.7	0.29	196.1	234.54
6262.0	0.61	270.13	6238.6	196.8	-113.8	-160.6	0.08	196.8	234.67



Scientific
Drilling

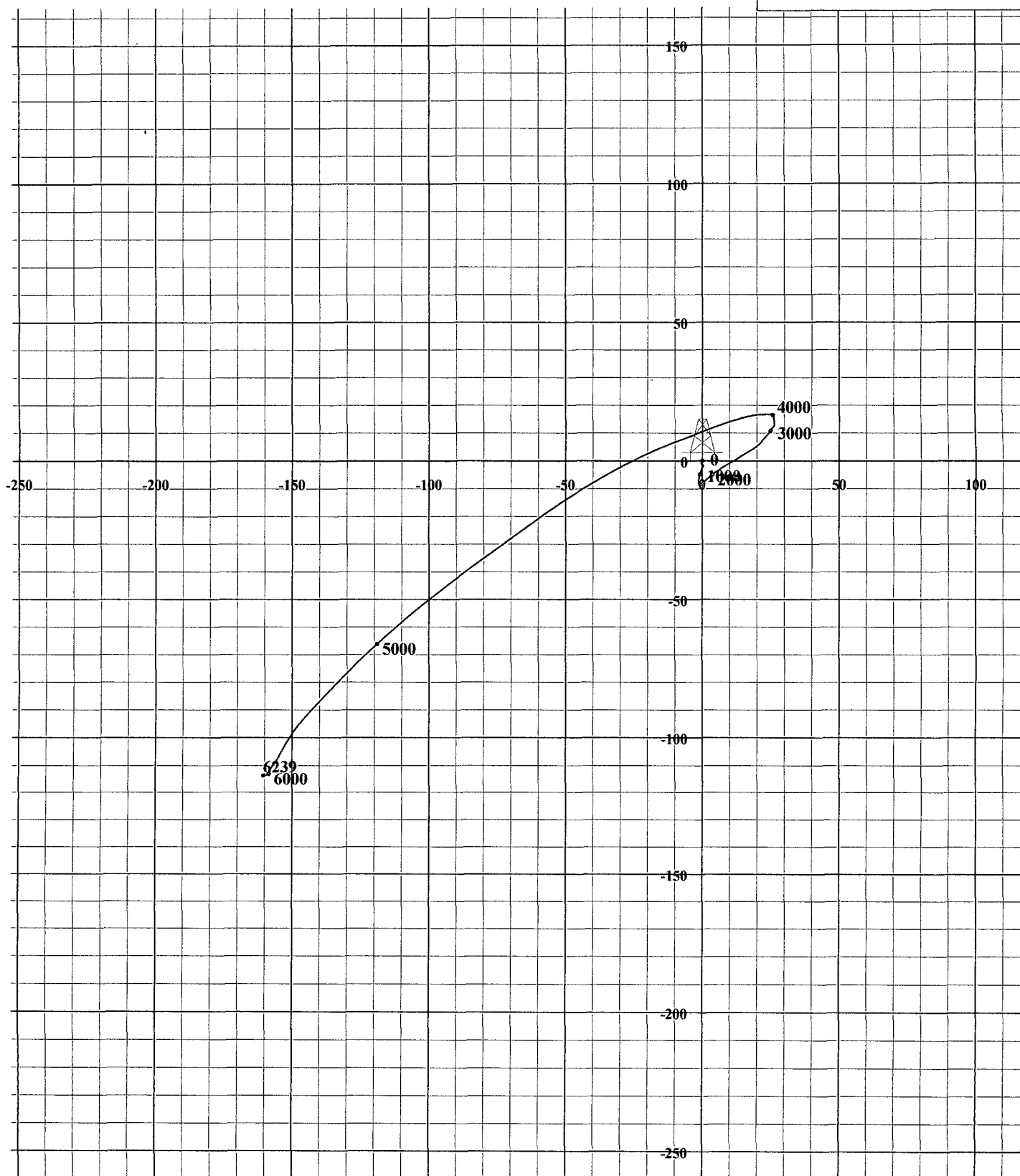
● **Field:** Blinebry ●
Site: Lea County, NM
Well: JG Hare #18
Survey: 03/24/10-03/31/10

G/T/M



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°
Magnetic Field
Dip Angle: 0.00°
Date 3/31/2010
Model igrf2000

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



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