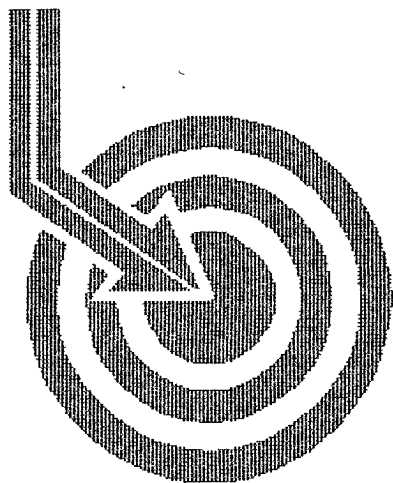




Scientific Drilling

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APR 29 2010

HOBBSOCD

APACHE CORPORATION

Field: House
Site: Lea County, NM
Well: Merit #2
Wellpath: VH - Job #32K0310158
Survey: 03/09/10

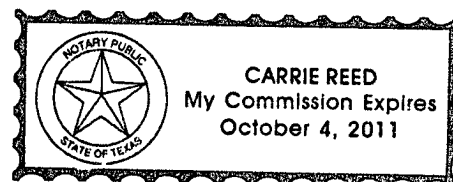
O-11-20s-38e, 440/S & 1675/E
O-11-20s-38e, 932/S & 1711/E
API # 30-025-39653

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

[Signature]
Company Representative

Notarized this date 11th of March, 2010.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International, Inc.

Survey Report

Company: APACHE CORPORATION Date: 3/4/2010 Time: 11:33:56 Page: 1
Field: House Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Site: Lea County, NM Vertical (TVD) Reference: SITE 0.0
Well: Merit #2 Section (VS) Reference: Well (0.00N,0.00E,357.14Azi)
Wellpath: VH - Job #32K0310137 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 03/01/10 Start Date: 3/1/2010
KSRG 0'-2353'
Company: Scientific Drilling Internatio Engineer: Guebara/Madrid/Sutherland
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	359.34	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.68	93.05	100.0	-0.1	0.0	0.6	0.68	0.6	93.05
200.0	0.56	71.33	200.0	0.0	0.1	1.6	0.26	1.7	86.76
300.0	0.70	62.80	300.0	0.4	0.5	2.7	0.17	2.7	78.73
400.0	0.65	64.57	400.0	0.9	1.1	3.7	0.05	3.9	74.17
500.0	0.65	43.70	500.0	1.5	1.7	4.6	0.24	4.9	69.72
600.0	0.45	55.96	600.0	2.1	2.3	5.3	0.23	5.8	66.35
700.0	0.32	48.34	700.0	2.4	2.7	5.9	0.14	6.5	64.95
800.0	0.12	75.64	800.0	2.6	3.0	6.2	0.22	6.8	64.45
900.0	0.13	20.34	900.0	2.8	3.1	6.3	0.12	7.0	63.97
1000.0	0.31	51.43	1000.0	3.0	3.4	6.6	0.21	7.4	62.91
1100.0	0.33	50.99	1100.0	3.4	3.7	7.0	0.02	7.9	62.09
1200.0	0.15	130.78	1200.0	3.4	3.8	7.3	0.34	8.3	62.55
1300.0	0.27	125.02	1300.0	3.2	3.6	7.6	0.12	8.4	64.80
1400.0	0.45	140.85	1400.0	2.7	3.1	8.1	0.20	8.7	68.68
1500.0	0.26	162.43	1500.0	2.2	2.6	8.4	0.23	8.8	72.60
1600.0	0.39	230.35	1600.0	1.8	2.2	8.2	0.38	8.5	75.01
1700.0	0.75	223.50	1700.0	1.1	1.5	7.5	0.37	7.6	78.65
1800.0	0.83	221.23	1799.9	0.2	0.5	6.5	0.09	6.6	85.81
1900.0	0.67	215.64	1899.9	-0.8	-0.5	5.7	0.18	5.7	95.40
2000.0	0.87	198.20	1999.9	-2.0	-1.7	5.1	0.31	5.4	108.65
2100.0	0.75	177.66	2099.9	-3.4	-3.1	4.9	0.31	5.8	122.24
2200.0	0.58	149.92	2199.9	-4.5	-4.2	5.2	0.36	6.7	128.87
2300.0	0.92	122.80	2299.9	-5.4	-5.1	6.1	0.48	8.0	129.57
2353.0	1.23	110.22	2352.9	-5.8	-5.5	7.0	0.73	8.9	128.04



Scientific Drilling International, Inc.

Survey Report

Company: APACHE CORPORATION	Date: 3/11/2010	Time: 12:57:53	Page: 1
Field: House	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Merit #2	Section (VS) Reference:	Well (0.00N,0.00E,357.14Azi)	
Wellpath: DH - Job #32D0210121	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 02/28/10-03/06/10	Start Date: 2/28/2010
MWD 2458'-5531'	
Company: Scientific Drilling Internatio	Engineer: Barber/Ramirez
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
2353.0	1.23	110.22	2352.9	-5.8	-5.5	7.0	0.00	8.9	128.04
2453.0	1.63	32.28	2452.9	-5.1	-4.7	8.8	1.83	10.0	117.96
2553.0	3.87	14.78	2552.7	-0.5	0.0	10.6	2.36	10.6	89.78
2653.0	6.36	8.55	2652.4	7.9	8.5	12.1	2.55	14.8	55.10
2753.0	6.94	355.88	2751.6	19.8	20.5	12.9	1.58	24.2	32.18
2853.0	7.02	356.27	2850.9	31.9	32.5	11.7	0.09	34.6	19.83
2953.0	7.69	356.74	2950.1	44.6	45.2	11.2	0.67	46.6	13.86
3053.0	9.19	349.00	3049.0	59.2	59.7	9.4	1.88	60.4	8.91
3153.0	10.63	343.22	3147.5	76.2	76.5	5.0	1.74	76.7	3.77
3253.0	12.49	346.24	3245.5	95.4	95.5	-0.4	1.96	95.5	359.73
3353.0	13.64	352.38	3342.9	117.7	117.6	-4.7	1.80	117.7	357.73
3453.0	14.33	354.88	3439.9	141.9	141.8	-7.2	0.92	141.9	357.09
3553.0	16.00	355.37	3536.6	167.6	167.4	-9.1	1.67	167.6	356.88
3653.0	18.29	352.58	3632.0	197.3	197.0	-12.0	2.43	197.4	356.51
3753.0	20.83	351.45	3726.4	230.2	229.6	-17.2	2.56	230.2	355.72
3853.0	21.16	356.41	3819.5	266.7	266.0	-20.7	1.81	266.8	355.54
3953.0	19.41	357.44	3913.4	301.1	300.3	-22.4	1.79	301.2	355.74
4053.0	18.82	356.07	4007.9	333.8	333.0	-24.2	0.74	333.9	355.84
4153.0	17.48	358.24	4102.9	364.8	364.0	-25.5	1.50	364.9	355.99
4253.0	16.03	358.58	4198.7	393.7	392.9	-26.3	1.46	393.8	356.16
4353.0	14.85	358.37	4295.1	420.3	419.5	-26.9	1.18	420.3	356.34
4453.0	12.70	0.12	4392.3	443.5	442.7	-27.0	2.19	443.6	356.51
4553.0	11.57	0.29	4490.0	464.9	464.1	-27.1	1.13	464.9	356.66
4653.0	8.76	1.83	4588.4	482.8	482.0	-27.1	2.82	482.8	356.78
4753.0	5.14	3.65	4687.6	494.8	494.1	-26.6	3.63	494.8	356.92
4853.0	1.68	346.34	4787.4	500.7	500.0	-26.7	3.57	500.7	356.95
4953.0	0.31	359.37	4887.4	502.4	501.7	-26.8	1.38	502.4	356.94
5053.0	0.26	355.10	4987.4	502.8	502.1	-26.8	0.06	502.8	356.94
5153.0	0.23	350.74	5087.4	503.3	502.6	-26.9	0.04	503.3	356.94
5253.0	0.14	233.99	5187.4	503.5	502.7	-27.0	0.32	503.5	356.93
5353.0	0.27	290.82	5287.4	503.4	502.6	-27.3	0.22	503.4	356.89
5453.0	0.58	315.84	5387.4	503.9	503.1	-27.9	0.36	503.9	356.83
5531.0	0.80	304.17	5465.4	504.5	503.7	-28.6	0.33	504.5	356.75



Scientific
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Scientific Drilling International, Inc.

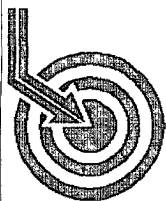
Survey Report

Company: APACHE CORPORATION	Date: 3/11/2010	Time: 13:05:47	Page: 1
Field: House	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Merit #2	Section (VS) Reference:	Well (0.00N,0.00E,357.14Azi)	
Wellpath: VH - Job #32K0310158	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 03/09/10	Start Date: 3/9/2010
Company: Scientific Drilling Internatio	Engineer: Garza
Tool: Keeper,Keeper Gyro	Tied-to: From: Definitive Path

Survey

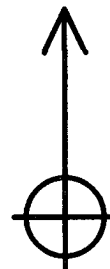
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
5531.0	0.80	304.17	5465.4	504.5	503.7	-28.6	0.00	504.5	356.75
5631.0	0.58	247.16	5565.4	504.5	503.7	-29.7	0.69	504.6	356.63
5731.0	0.44	230.69	5665.4	504.1	503.2	-30.4	0.20	504.2	356.54
5831.0	0.40	221.31	5765.4	503.6	502.7	-30.9	0.08	503.7	356.49
5931.0	0.34	194.14	5865.4	503.1	502.2	-31.2	0.18	503.2	356.45
6031.0	0.41	176.50	5965.4	502.5	501.6	-31.2	0.13	502.5	356.44
6131.0	0.37	172.10	6065.4	501.8	500.8	-31.1	0.05	501.8	356.45
6231.0	0.25	180.66	6165.4	501.2	500.3	-31.1	0.13	501.3	356.45
6331.0	0.34	190.26	6265.4	500.8	499.8	-31.1	0.10	500.8	356.44
6431.0	0.37	190.95	6365.4	500.2	499.2	-31.3	0.03	500.2	356.42
6531.0	0.38	197.33	6465.4	499.5	498.6	-31.5	0.04	499.6	356.39
6631.0	0.43	213.14	6565.4	498.9	498.0	-31.8	0.12	499.0	356.34
6731.0	0.50	216.27	6665.4	498.3	497.3	-32.3	0.08	498.3	356.28
6831.0	0.59	219.03	6765.4	497.6	496.5	-32.9	0.09	497.6	356.21
6931.0	0.62	215.17	6865.4	496.7	495.7	-33.5	0.05	496.8	356.13
7031.0	0.63	217.95	6965.4	495.9	494.8	-34.2	0.03	496.0	356.05
7131.0	0.51	214.21	7065.4	495.2	494.1	-34.8	0.12	495.3	355.98
7206.1	0.73	196.97	7140.4	494.5	493.4	-35.1	0.38	494.6	355.93



Scientific
Drilling

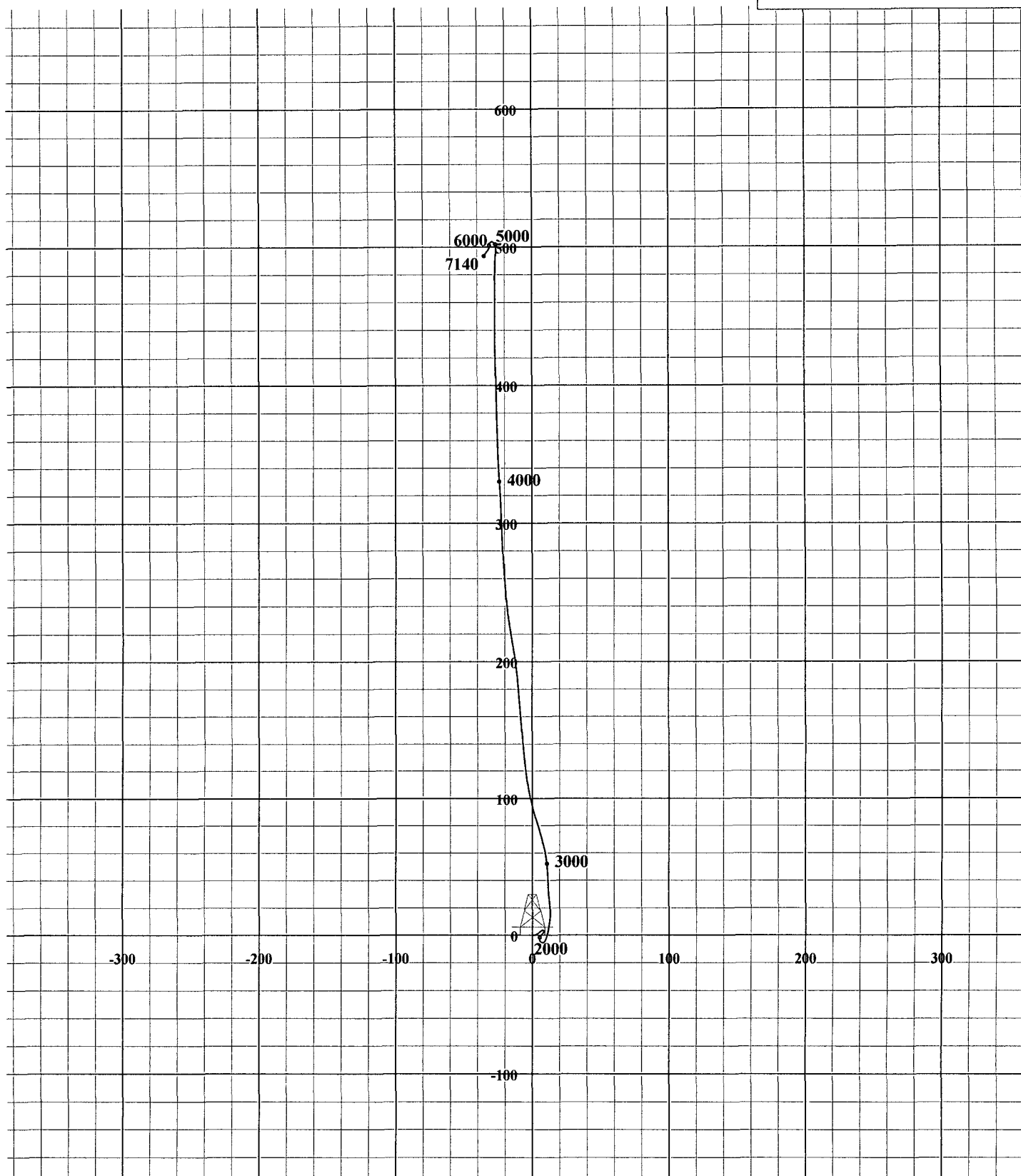
Field: House
Site: Lea County, NM
Well: Merit #2
Survey: 03/09/10

G/T/M



Azimuths to Grid North
True North 0.00°
Magnetic North 0.00°
Magnetic Field
Dip Angle 0.00°
Date 3/11/2010
Model igrf2000

South(-)/North(+) [100ft/in]



West(-)/East(+) [100ft/in]