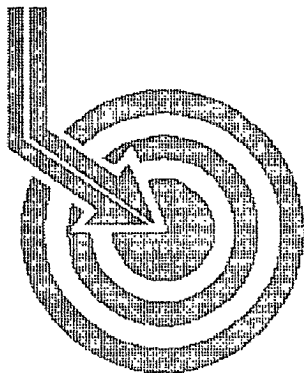




Scientific Drilling

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HOBBSOCD

APACHE CORPORATION

Field: House

Site: Lea County, NM

Well: Melot #3

Wellpath: DH - Job #32D0909387

Survey: 09/30/09-10/05/09

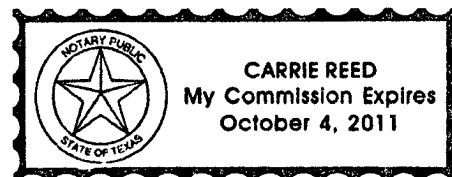
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*R. Hart*.....Company Representative

Notorized this date 3rd of November, 2009.

Carrie Reed

Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International

Survey Report

Company: APACHE CORPORATION	Date: 09/30/2009	Time: 21:17:22	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: Melot #3	Section (VS) Reference:	Well (0.00N,0.00E,100.09Azi)	
Wellpath: VH - Job #32K0909397	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 09/29/09	Start Date: 09/29/2009
KSRG 0'-3326'	
Company: Scientific Drilling Internatio	Engineer: Garza/Madrid
Tool: MWD;MWD	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
0.00	0.00	359.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.60	0.19	58.61	20.60	0.03	0.02	0.03	0.92	0.03	58.61
111.10	0.23	65.43	111.10	0.29	0.17	0.32	0.05	0.37	62.00
201.60	0.35	85.12	201.60	0.70	0.27	0.76	0.17	0.81	70.48
292.10	0.44	78.19	292.10	1.29	0.37	1.38	0.11	1.43	75.16
382.60	0.46	95.84	382.59	1.98	0.40	2.08	0.15	2.12	79.13
473.10	0.43	63.17	473.09	2.61	0.52	2.74	0.28	2.79	79.36
564.60	0.58	95.54	564.59	3.35	0.63	3.51	0.35	3.57	79.90
659.90	0.89	99.94	659.88	4.57	0.45	4.72	0.33	4.74	84.54
755.10	1.05	110.36	755.07	6.17	0.02	6.27	0.25	6.27	89.81
850.40	1.19	150.65	850.35	7.65	-1.15	7.57	0.82	7.66	98.61
945.60	1.35	162.13	945.53	8.81	-3.07	8.40	0.31	8.94	110.11
1040.90	1.52	177.46	1040.80	9.61	-5.41	8.80	0.44	10.33	121.56
1136.20	1.76	188.53	1136.06	9.93	-8.12	8.64	0.42	11.85	133.21
1231.40	1.66	196.42	1231.21	9.81	-10.88	8.03	0.27	13.53	143.57
1326.60	1.33	196.70	1326.38	9.54	-13.27	7.32	0.35	15.15	151.09
1421.90	1.12	210.56	1421.66	9.08	-15.13	6.53	0.38	16.48	156.64
1517.20	1.45	218.29	1516.94	8.19	-16.88	5.31	0.39	17.69	162.52
1612.40	1.43	207.77	1612.11	7.26	-18.87	4.01	0.28	19.29	167.99
1707.70	1.15	194.34	1707.38	6.82	-20.85	3.22	0.43	21.10	171.22
1802.90	1.30	195.62	1802.56	6.65	-22.82	2.69	0.16	22.97	173.26
1898.20	1.83	205.49	1897.83	6.14	-25.23	1.75	0.62	25.29	176.03
1993.40	1.46	211.56	1992.99	5.29	-27.64	0.46	0.43	27.64	179.05
2088.70	0.46	227.05	2088.27	4.62	-28.93	-0.46	1.07	28.94	180.90
2183.90	0.50	291.97	2183.47	3.98	-29.04	-1.12	0.54	29.06	182.21
2279.20	0.41	336.73	2278.77	3.39	-28.57	-1.64	0.37	28.61	183.29
2374.40	0.80	14.07	2373.96	3.25	-27.61	-1.61	0.56	27.66	183.35
2469.60	1.77	37.91	2469.14	3.98	-25.81	-0.55	1.14	25.81	181.22
2564.90	2.55	47.62	2564.37	5.96	-23.22	1.92	0.90	23.29	175.27
2660.20	3.07	53.69	2659.55	9.01	-20.27	5.54	0.63	21.02	164.71
2755.40	3.04	56.33	2754.62	12.59	-17.37	9.70	0.15	19.89	150.82
2850.70	3.07	62.06	2849.78	16.43	-14.77	14.06	0.32	20.39	136.42
2945.90	2.86	63.17	2944.86	20.33	-12.50	18.43	0.23	22.27	124.16
3041.20	2.60	64.92	3040.05	24.00	-10.51	22.51	0.29	24.84	115.04
3136.40	2.41	64.42	3135.16	27.39	-8.73	26.27	0.20	27.68	108.39
3231.60	2.23	68.31	3230.28	30.59	-7.19	29.80	0.25	30.65	103.56
3326.90	2.27	72.34	3325.51	33.84	-5.93	33.32	0.17	33.84	100.09



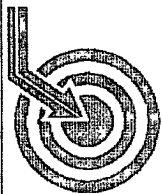
Scientific Drilling International Survey Report

Company: APACHE CORPORATION	Date: 10/14/2009	Time: 14:11:59	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: Melot #3	Section (VS) Reference: Well (0.00N,0.00E,305.26Azi)		
Wellpath: DH - Job #32D0909387	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 09/30/09-10/05/09	Start Date: 09/30/2009
MWD 3341'-7246'	
Company: Scientific Drilling Internatio	Engineer: Foster/Baldwin
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
3326.90	2.27	72.34	3325.51	-30.63	-5.93	33.32	0.00	33.84	100.09
3341.00	2.25	71.89	3339.59	-30.96	-5.76	33.85	0.19	34.33	99.65
3437.00	1.97	76.17	3435.53	-33.16	-4.78	37.24	0.33	37.54	97.31
3532.00	1.76	75.18	3530.48	-35.17	-4.01	40.23	0.22	40.43	95.70
3627.00	1.62	82.53	3625.44	-37.09	-3.47	42.98	0.27	43.12	94.61
3754.00	1.42	88.53	3752.39	-39.67	-3.19	46.33	0.20	46.44	93.94
3881.00	1.39	92.04	3879.35	-42.22	-3.21	49.44	0.07	49.55	93.71
3944.00	1.14	25.60	3942.34	-42.76	-2.67	50.48	2.22	50.55	93.03
4008.00	1.94	334.69	4006.32	-41.71	-1.11	50.29	2.36	50.30	91.27
4071.00	2.68	323.04	4069.27	-39.37	1.03	48.95	1.39	48.96	88.80
4135.00	3.22	318.41	4133.18	-36.20	3.57	46.85	0.92	46.99	85.65
4198.00	3.36	318.30	4196.08	-32.68	6.27	44.45	0.22	44.89	81.97
4262.00	3.98	318.96	4259.95	-28.69	9.34	41.75	0.97	42.78	77.38
4325.00	5.26	321.07	4322.74	-23.79	13.24	38.50	2.05	40.71	71.02
4389.00	6.27	321.21	4386.42	-17.61	18.25	34.46	1.58	38.99	62.10
4452.00	7.04	321.20	4448.99	-10.59	23.94	29.89	1.22	38.29	51.31
4515.00	8.28	312.19	4511.43	-2.37	29.99	24.11	2.73	38.48	38.79
4579.00	9.36	307.64	4574.68	7.40	36.27	16.57	2.01	39.87	24.56
4642.00	10.82	302.98	4636.70	18.43	42.61	7.55	2.65	43.28	10.05
4706.00	11.70	300.40	4699.47	30.90	49.17	-3.08	1.58	49.26	356.41
4769.00	11.59	297.81	4761.17	43.54	55.35	-14.19	0.85	57.14	345.62
4865.00	11.70	297.16	4855.20	62.74	64.29	-31.38	0.18	71.54	333.98
4960.00	11.33	297.66	4948.28	81.53	73.02	-48.22	0.40	87.51	326.56
5055.00	10.97	297.22	5041.49	99.73	81.49	-64.52	0.39	103.94	321.63
5119.00	11.38	299.65	5104.28	112.04	87.40	-75.42	0.98	115.44	319.21
5213.00	11.11	300.74	5196.47	130.30	96.62	-91.27	0.37	132.91	316.63
5308.00	11.11	299.86	5289.69	148.53	105.85	-107.07	0.18	150.56	314.67
5404.00	10.97	298.38	5383.92	166.81	114.80	-123.13	0.33	168.34	312.99
5467.00	11.17	297.68	5445.74	178.81	120.48	-133.81	0.38	180.06	312.00
5530.00	10.29	297.48	5507.64	190.44	125.91	-144.20	1.40	191.44	311.13
5594.00	8.80	296.02	5570.75	200.93	130.70	-153.67	2.36	201.74	310.38
5689.00	7.91	294.83	5664.75	214.53	136.63	-166.14	0.95	215.10	309.43
5753.00	6.98	289.37	5728.21	222.60	139.77	-173.80	1.82	223.03	308.81
5817.00	5.52	291.29	5791.82	229.33	142.18	-180.34	2.30	229.65	308.25
5880.00	4.02	286.40	5854.60	234.36	143.90	-185.28	2.46	234.60	307.84
5944.00	2.64	281.11	5918.49	237.83	144.82	-188.88	2.21	238.01	307.48
6007.00	1.27	269.41	5981.46	239.72	145.09	-191.00	2.25	239.86	307.22
6070.00	0.87	233.12	6044.45	240.43	144.80	-192.08	1.22	240.55	307.01
6171.00	0.92	240.58	6145.43	241.02	143.94	-193.40	0.13	241.09	306.66
6261.00	0.53	191.58	6235.43	241.16	143.18	-194.11	0.78	241.21	306.41
6356.00	0.38	181.78	6330.42	240.81	142.43	-194.21	0.18	240.84	306.26
6483.00	0.23	220.26	6457.42	240.60	141.82	-194.39	0.19	240.62	306.11
6610.00	0.21	229.31	6584.42	240.68	141.47	-194.73	0.03	240.70	306.00
6737.00	0.24	264.76	6711.42	240.93	141.29	-195.17	0.11	240.95	305.90
6865.00	0.26	249.04	6839.42	241.30	141.17	-195.71	0.06	241.31	305.80
6992.00	0.31	249.21	6966.42	241.65	140.94	-196.30	0.04	241.66	305.68
7118.00	0.51	257.65	7092.41	242.22	140.70	-197.17	0.17	242.22	305.51
7246.00	0.67	246.16	7220.41	242.99	140.28	-198.41	0.15	242.99	305.26



Scientific
Drilling

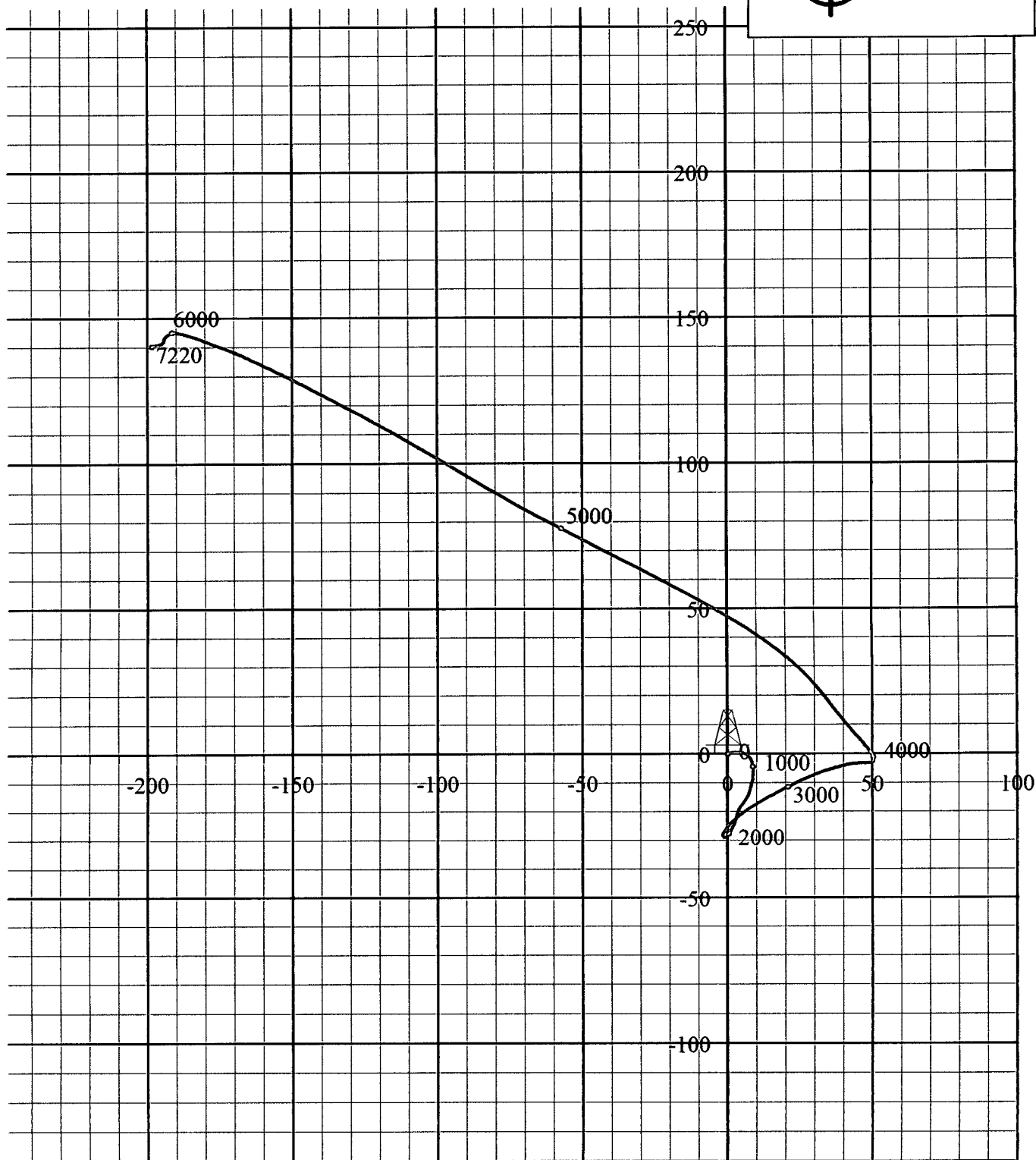
Field: House
Site: Lea County, NM
Well: Melot #3
Wellpath: DH - Job #32D0909387
Survey: 09/30/09-10/05/09



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 10/14/2009
Model: igrf2000

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



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