

Results of Directional Survey

API number.	30-025-38484		
OGRID:		Operator.	APACHE CORP
		Property:	RHINO # 2

Completion: HOUSE;BLINEBRY

surface	ULSTR:	K	11	T	20S	R	38E
			1500	FSL	2310	FWL	

BH Loc	ULSTR:	N	11	T	20S	R	38E
			989	FSL	2326	FWL	

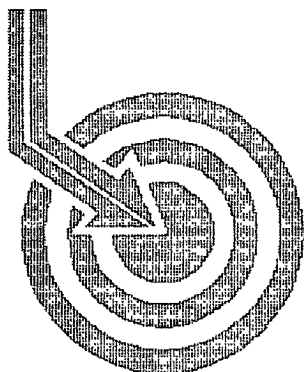
	MD	N/S	E/W	VD
	6002	-515.00	12.26	5967.19
TOP PERFS/OH	6066	-513.16	13.66	6031.15
	6065	-513.19	13.64	6030.15
	6383	-506.61	11.36	6348.06
BOT PERFS/OH	6472	-506.24	10.92	6437.05
	6478	-506.22	10.89	6443.05

NEXT TO LAST	7177	-508.72	13.43	7142.03
LAST READING	7273	-509.72	14.37	7238.02
TD	7394	-510.98	15.55	7359.01

Surface Location	1500	FS	2310	FW
Projected BHL	989	FS	2326	FW
Location of				
Top Perfs/OH	987	FS	2324	FW
Bottom Perfs/OH	994	FS	2321	FW

SUMMARY of Subsurface Locations

Surface Location	K-11-20S-38E	1500	FS	2310	FW	Vert. Depth
Top Perfs/OH	N-11-20S-38E	987	FS	2324	FW	6031.15
Bottom Perfs/OH	N-11-20S-38E	994	FS	2321	FW	6437.05
Projected TD	N-11-20S-38E	989	FS	2326	FW	7359.01



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SUR: K - 11-20s-38e, 1500/S & 2310/W
BHL: N - 11-20s-38e, 989/S & 2326/W
API # 30-025-38484

APACHE CORPORATION

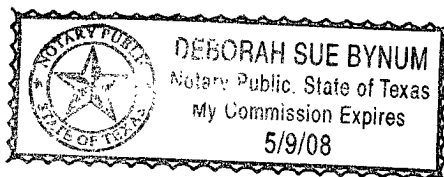
Field: Rhino
Site: Lea County, NM
Well: Rhino #2
Wellpath: DH - Job #32D0907869
Survey: 09/30/07-10/10/07

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

Wharton.....Company Representative

Notorized this date 28th of November, 2007.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: APACHE CORPORATION Date: 11/28/2007 Time: 08:50:30 Page: 1
Field: Rhino Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Site: Lea County, NM Vertical (TVD) Reference: SITE 0.0
Well: Rhino #2 Section (VS) Reference: Well (0.00N,0.00E,179.44Azi)
Wellpath: VH - Job #32K1007880 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 10/01/07 Start Date: 10/01/2007
KSRG 0'-1600'
Company: Scientific Drilling Internatio Engineer: Madrid w/GeoGyro
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
0.00	0.00	359.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.32	313.59	100.00	-0.19	0.19	-0.20	0.32	0.28	313.59
200.00	0.43	315.24	200.00	-0.66	0.65	-0.67	0.11	0.93	314.25
300.00	0.54	323.45	299.99	-1.31	1.30	-1.21	0.13	1.78	316.89
400.00	0.51	325.94	399.99	-2.06	2.04	-1.74	0.04	2.69	319.53
500.00	0.38	359.34	499.99	-2.76	2.74	-2.00	0.28	3.39	323.96
600.00	0.43	331.24	599.98	-3.43	3.40	-2.18	0.20	4.04	327.36
700.00	0.71	7.42	699.98	-4.37	4.35	-2.28	0.44	4.91	332.31
800.00	0.42	40.61	799.97	-5.26	5.24	-1.96	0.43	5.60	339.47
900.00	0.22	48.05	899.97	-5.66	5.65	-1.58	0.20	5.86	344.35
1000.00	0.42	58.58	999.97	-5.98	5.97	-1.13	0.21	6.07	349.31
1100.00	0.37	90.62	1099.97	-6.16	6.15	-0.49	0.22	6.17	355.44
1200.00	0.37	78.11	1199.97	-6.22	6.22	0.15	0.08	6.22	1.37
1300.00	0.52	89.10	1299.96	-6.28	6.29	0.92	0.17	6.36	8.30
1400.00	0.62	113.62	1399.96	-6.06	6.08	1.87	0.26	6.36	17.07
1500.00	0.75	114.53	1499.95	-5.56	5.59	2.96	0.13	6.33	27.88
1600.00	0.45	97.64	1599.95	-5.23	5.27	3.94	0.35	6.58	36.81

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Survey Report

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Company: APACHE CORPORATION Date: 11/28/2007 Time: 08:58:31 Page: 1
Field: Rhino Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Site: Lea County, NM Vertical (TVD) Reference: SITE 0.0
Well: Rhino #2 Section (VS) Reference: Well (0.00N,0.00E,179.44Azi)
Wellpath: DH - Job #32D0907869 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 09/30/07-10/10/07 MWD 1719'-7273' Start Date: 09/30/2007
Company: Scientific Drilling Internatio Engineer: Barbre/Graham/Foster
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
1600.00	0.45	97.64	1599.95	-5.23	5.27	3.94	0.00	6.58	36.81
1719.00	1.45	165.29	1718.93	-3.70	3.75	4.79	1.13	6.08	51.93
1814.00	2.93	197.99	1813.86	-0.24	0.28	4.34	1.98	4.35	86.34
1909.00	5.18	192.90	1908.62	6.24	-6.21	2.64	2.40	6.75	157.00
2068.00	6.84	193.52	2066.74	22.40	-22.42	-1.18	1.04	22.45	183.01
2163.00	8.73	191.95	2160.86	34.93	-34.97	-4.00	2.00	35.20	186.52
2322.00	10.22	180.57	2317.70	60.82	-60.88	-6.63	1.50	61.24	186.22
2448.00	9.84	172.58	2441.78	82.68	-82.74	-5.36	1.14	82.91	183.70
2576.00	8.38	174.28	2568.16	102.83	-102.87	-3.01	1.16	102.91	181.68
2671.00	8.55	171.20	2662.13	116.72	-116.73	-1.24	0.51	116.74	180.61
2798.00	7.71	182.15	2787.86	134.57	-134.58	-0.12	1.38	134.58	180.05
2893.00	7.43	180.90	2882.03	147.08	-147.09	-0.45	0.34	147.09	180.18
2987.00	7.13	180.71	2975.27	158.98	-159.00	-0.62	0.32	159.00	180.22
3114.00	7.27	185.06	3101.27	174.86	-174.88	-1.43	0.44	174.89	180.47
3210.00	7.05	185.93	3196.52	186.76	-186.79	-2.57	0.26	186.81	180.79
3336.00	7.03	179.28	3321.58	202.15	-202.19	-3.27	0.65	202.22	180.93
3463.00	6.31	177.88	3447.71	216.90	-216.94	-2.92	0.58	216.96	180.77
3527.00	6.62	180.84	3511.31	224.11	-224.14	-2.84	0.71	224.16	180.73
3622.00	6.54	179.03	3605.68	234.99	-235.03	-2.83	0.23	235.05	180.69
3749.00	7.74	183.68	3731.70	250.75	-250.80	-3.26	1.05	250.82	180.74
3815.00	7.52	182.63	3797.11	259.50	-259.54	-3.74	0.39	259.57	180.83
3972.00	7.77	183.42	3952.72	280.34	-280.40	-4.85	0.17	280.44	180.99
4099.00	7.61	184.96	4078.57	297.28	-297.35	-6.08	0.21	297.41	181.17
4163.00	7.25	182.58	4142.04	305.53	-305.61	-6.63	0.74	305.68	181.24
4226.00	7.94	179.62	4204.48	313.85	-313.93	-6.78	1.26	314.00	181.24
4322.00	9.04	180.60	4299.43	328.02	-328.10	-6.82	1.16	328.17	181.19
4479.00	9.96	171.62	4454.28	353.80	-353.87	-4.97	1.11	353.90	180.80
4670.00	8.48	171.57	4642.81	384.12	-384.14	-0.50	0.77	384.14	180.07
4797.00	7.13	173.27	4768.63	401.23	-401.23	1.80	1.08	401.24	179.74
4925.00	6.26	176.85	4895.76	416.10	-416.09	3.12	0.75	416.10	179.57
5020.00	6.39	182.83	4990.18	426.55	-426.54	3.14	0.71	426.55	179.58
5115.00	6.69	183.39	5084.56	437.35	-437.35	2.55	0.32	437.35	179.67
5179.00	6.96	178.67	5148.11	444.95	-444.94	2.42	0.97	444.95	179.69
5336.00	6.89	179.86	5303.96	463.87	-463.87	2.66	0.10	463.88	179.67
5463.00	7.18	180.37	5430.01	479.43	-479.43	2.63	0.23	479.43	179.69
5559.00	5.86	169.18	5525.39	490.25	-490.24	3.51	1.90	490.25	179.59
5654.00	5.96	173.42	5619.88	499.93	-499.90	4.99	0.47	499.93	179.43
5749.00	4.37	167.70	5714.50	508.38	-508.34	6.32	1.76	508.38	179.29
5843.00	3.34	154.74	5808.28	514.37	-514.31	8.26	1.43	514.38	179.08
5938.00	1.59	61.72	5903.22	516.27	-516.19	10.60	3.97	516.30	178.82
5970.00	1.76	55.73	5935.21	515.79	-515.71	11.40	0.76	515.83	178.73
6002.00	2.24	47.02	5967.19	515.10	-515.00	12.26	1.77	515.15	178.64
6065.00	1.97	26.11	6030.15	513.30	-513.19	13.64	1.28	513.37	178.48
6129.00	1.30	353.09	6094.12	511.60	-511.48	14.03	1.77	511.68	178.43
6161.00	1.55	326.71	6126.11	510.87	-510.76	13.75	2.17	510.95	178.46
6193.00	1.29	337.16	6158.10	510.17	-510.07	13.37	1.14	510.24	178.50
6224.00	1.67	336.99	6189.09	509.43	-509.33	13.06	1.23	509.50	178.53
6320.00	1.01	316.46	6285.06	507.52	-507.43	11.93	0.84	507.57	178.65
6351.00	0.85	330.51	6316.06	507.12	-507.03	11.63	0.89	507.16	178.69



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Company:	APACHE CORPORATION	Date:	11/28/2007	Time:	08:58:31	Page:	2
Field:	Rhino	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North				
Site:	Lea County, NM	Vertical (TVD) Reference:	SITE 0.0				
Well:	Rhino #2	Section (VS) Reference:	Well (0.00N,0.00E,179.44Azi)				
Wellpath:	DH - Job #32D0907869	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
6383.00	0.95	325.03	6348.06	506.69	-506.61	11.36	0.41	506.73	178.72
6478.00	0.31	184.55	6443.05	506.30	-506.22	10.89	1.27	506.33	178.77
6542.00	0.29	196.03	6507.05	506.63	-506.55	10.83	0.10	506.66	178.77
6637.00	0.14	212.28	6602.05	506.96	-506.87	10.70	0.17	506.99	178.79
6733.00	0.14	328.80	6698.05	506.95	-506.87	10.58	0.25	506.98	178.80
6828.00	0.21	168.72	6793.05	507.02	-506.95	10.55	0.36	507.05	178.81
6986.00	0.54	105.34	6951.05	507.51	-507.43	11.33	0.31	507.55	178.72
7081.00	0.80	112.76	7046.04	507.90	-507.80	12.37	0.29	507.95	178.60
7177.00	0.95	146.41	7142.03	508.83	-508.72	13.43	0.55	508.90	178.49
7273.00	0.72	123.47	7238.02	509.83	-509.72	14.37	0.42	509.92	178.38

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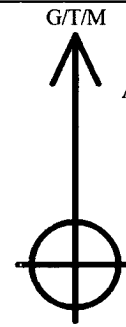
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Field: Rhino
Site: Lea County, NM
Well: Rhino #2
Wellpath: DH - Job #32D0907869
Survey: 09/30/07-10/10/07

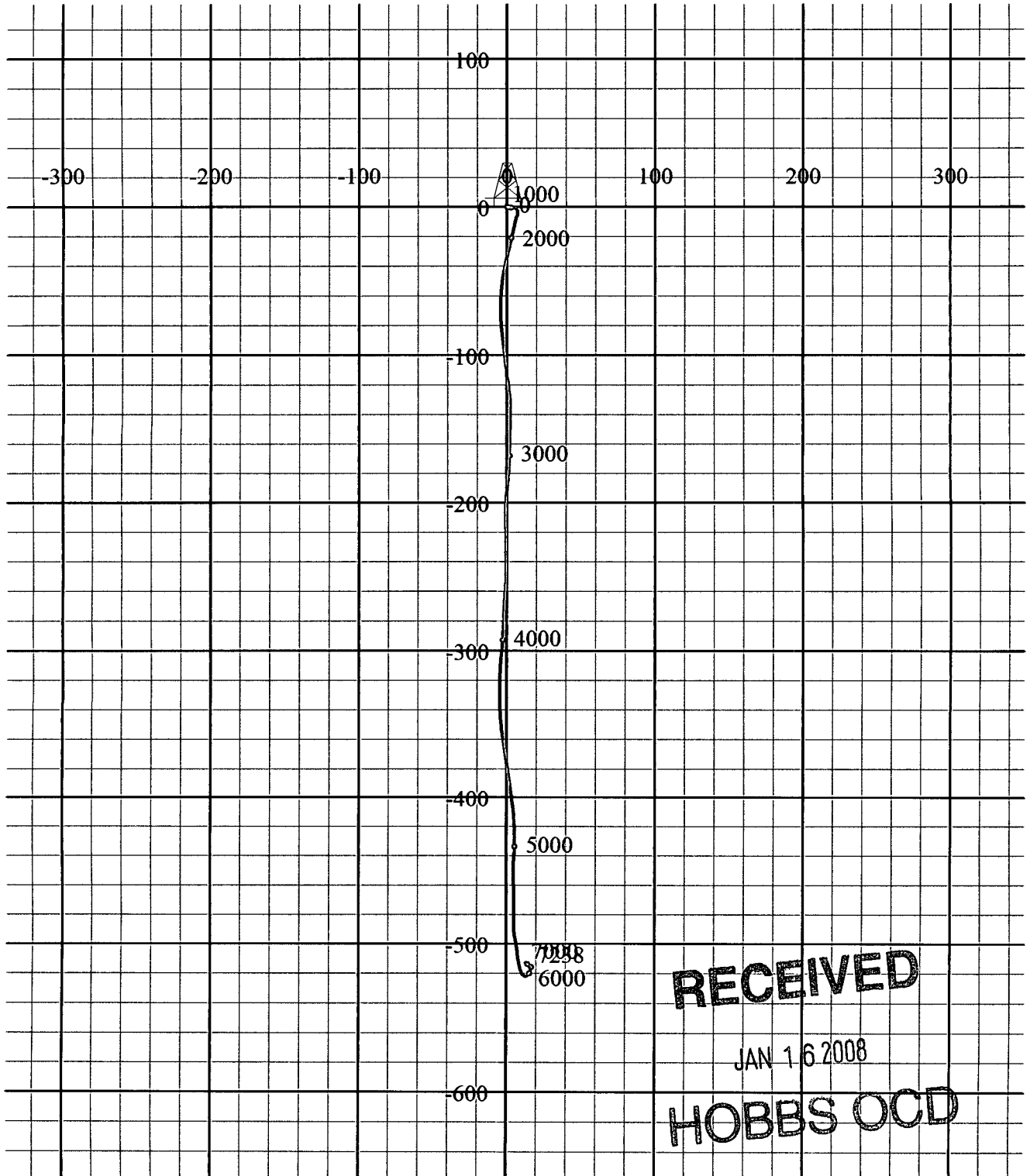


Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 11/28/2007
Model: igrf2000

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

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



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