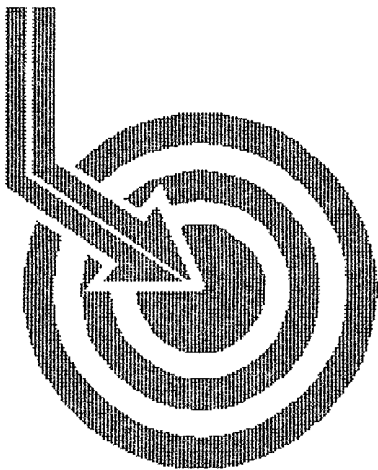




Scientific Drilling

APACHE CORPORATION

Field: Penrose Skelly
Site: Lea County, NM
Well: Southland Royalty A #34
Wellpath: DH - Job #32D0310172
Survey: 03/16/10-03/19/10

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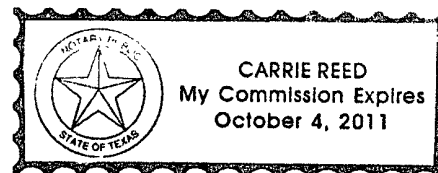
SUR: N-4-21s-37e, 940/S & 2070/W
BHL: N-4-21s-37e, 932/S & 2270/W
API # 30-025-39700

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

Richardson
Company Representative

Notarized this date 25th of March, 2010.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Inc.

Survey Report

Company: APACHE CORPORATION
 Field: Penrose Skelly
 Site: Lea County, NM
 Well: Southland Royalty A #34
 Wellpath: VH - Job #32K0310181

Date: 3/18/2010 Time: 09:02:29 Page: 1
 Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: Well (0.00N,0.00E,89.31Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 03/16/10
 KSRG 0'-1803'

Start Date: 3/18/2010

Company: Scientific Drilling Internatio
 Tool: Keeper, Keeper Gyro

Engineer: Garza/Williams/Renteria
 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	0.63	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.80	274.85	100.0	-0.7	0.1	-0.7	0.80	0.7	274.85
200.0	0.73	272.53	200.0	-2.0	0.1	-2.0	0.08	2.0	274.12
300.0	0.70	279.27	300.0	-3.3	0.3	-3.3	0.09	3.3	274.77
400.0	0.72	284.04	400.0	-4.5	0.5	-4.5	0.06	4.5	276.67
500.0	0.59	295.57	500.0	-5.5	0.9	-5.6	0.18	5.6	279.19
600.0	0.62	299.64	600.0	-6.5	1.4	-6.5	0.05	6.6	282.08
700.0	0.52	296.18	700.0	-7.3	1.9	-7.4	0.11	7.6	284.14
800.0	0.49	307.57	800.0	-8.1	2.3	-8.1	0.10	8.4	285.94
900.0	0.26	330.80	899.9	-8.5	2.8	-8.6	0.27	9.0	287.96
1000.0	0.43	91.96	999.9	-8.3	3.0	-8.3	0.61	8.8	289.64
1100.0	0.51	107.73	1099.9	-7.5	2.8	-7.5	0.15	8.0	290.56
1200.0	0.51	115.15	1199.9	-6.6	2.5	-6.7	0.07	7.1	290.45
1300.0	0.41	102.69	1299.9	-5.9	2.2	-5.9	0.14	6.3	290.56
1400.0	0.29	93.26	1399.9	-5.3	2.1	-5.3	0.13	5.7	291.80
1500.0	0.60	91.10	1499.9	-4.5	2.1	-4.5	0.31	5.0	294.84
1600.0	0.38	87.45	1599.9	-3.7	2.1	-3.7	0.22	4.2	299.75
1700.0	0.32	115.50	1699.9	-3.1	2.0	-3.1	0.18	3.7	302.82
1800.0	0.53	86.30	1799.9	-2.4	1.9	-2.4	0.30	3.1	308.65
1803.0	0.60	100.92	1802.9	-2.3	1.9	-2.4	5.32	3.0	308.97



Scientific
Drilling

Scientific Drilling International Inc.

Survey Report

Company: APACHE CORPORATION
Field: Penrose Skelly
Site: Lea County, NM
Well: Southland Royalty A #34
Wellpath: DH - Job #32D0310172

Date: 3/25/2010 Time: 14:19:09 Page: 1
Co-ordinate(NE) Reference: Site, Lea County, NM, Grd North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,89.31Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 03/16/10-03/19/10
MWD 1862'-4380'

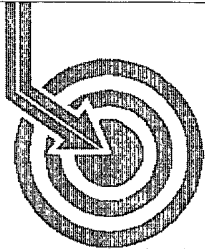
Start Date: 3/16/2010

Company: Scientific Drilling Internatio
Tool: MWD,MWD

Engineer: McCormick/Remirez/Burnett
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
1803.0	0.60	100.92	1802.9	-2.3	1.9	-2.4	0.00	3.0	308.97
1862.0	0.79	84.60	1861.9	-1.6	1.9	-1.7	0.46	2.5	318.83
1926.0	2.29	75.13	1925.9	0.1	2.3	0.0	2.37	2.3	0.58
1989.0	3.78	73.20	1988.8	3.3	3.2	3.2	2.37	4.5	45.41
2052.0	4.92	87.09	2051.6	8.0	3.9	7.9	2.45	8.8	63.65
2116.0	5.98	88.05	2115.3	14.0	4.2	14.0	1.66	14.6	73.39
2179.0	6.77	97.02	2177.9	21.0	3.8	21.0	2.01	21.3	79.64
2242.0	8.18	96.05	2240.4	29.1	2.9	29.1	2.25	29.2	84.30
2306.0	9.06	94.38	2303.7	38.7	2.0	38.6	1.43	38.7	86.98
2369.0	9.41	94.38	2365.9	48.7	1.3	48.7	0.56	48.7	88.51
2433.0	10.99	89.28	2428.9	60.1	0.9	60.0	2.84	60.1	89.10
2496.0	12.13	87.35	2490.6	72.7	1.3	72.7	1.91	72.7	88.96
2560.0	12.66	89.72	2553.1	86.4	1.7	86.4	1.15	86.4	88.89
2623.0	12.13	88.76	2614.6	99.9	1.8	99.9	0.90	99.9	88.94
2687.0	12.22	90.51	2677.2	113.4	1.9	113.4	0.59	113.4	89.02
2750.0	11.52	89.20	2738.8	126.4	2.0	126.4	1.19	126.4	89.11
2813.0	10.73	88.05	2800.6	138.5	2.2	138.5	1.30	138.5	89.07
2877.0	9.06	90.69	2863.7	149.5	2.4	149.5	2.70	149.5	89.08
2940.0	7.91	90.95	2926.0	158.8	2.3	158.8	1.83	158.8	89.19
3004.0	7.47	88.67	2989.4	167.4	2.3	167.4	0.84	167.4	89.22
3068.0	6.42	94.64	3053.0	175.1	2.1	175.1	1.99	175.1	89.32
3131.0	5.63	93.15	3115.6	181.7	1.6	181.7	1.28	181.7	89.48
3195.0	4.84	94.91	3179.3	187.5	1.2	187.5	1.26	187.5	89.62
3258.0	3.61	92.89	3242.2	192.1	0.9	192.1	1.97	192.1	89.73
3322.0	2.37	90.16	3306.1	195.5	0.8	195.5	1.95	195.5	89.77
3385.0	1.06	115.65	3369.1	197.3	0.5	197.3	2.36	197.3	89.84
3449.0	0.88	150.81	3433.0	198.1	-0.1	198.1	0.95	198.1	90.04
3513.0	0.62	150.89	3497.0	198.5	-0.9	198.5	0.41	198.5	90.25
3608.0	0.70	156.61	3592.0	198.9	-1.9	199.0	0.11	199.0	90.53
3703.0	0.53	158.98	3687.0	199.3	-2.8	199.4	0.18	199.4	90.80
3797.0	0.53	173.48	3781.0	199.5	-3.6	199.6	0.14	199.6	91.04
3890.0	0.62	169.53	3874.0	199.6	-4.6	199.7	0.11	199.8	91.31
3985.0	0.53	169.26	3969.0	199.8	-5.5	199.9	0.09	200.0	91.58
4080.0	0.44	171.46	4064.0	199.9	-6.3	200.0	0.10	200.1	91.80
4176.0	0.44	179.02	4160.0	200.0	-7.0	200.1	0.06	200.2	92.01
4271.0	0.26	177.53	4255.0	200.0	-7.6	200.1	0.19	200.2	92.18
4380.0	0.26	198.44	4364.0	199.9	-8.1	200.0	0.09	200.2	92.31

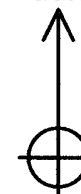


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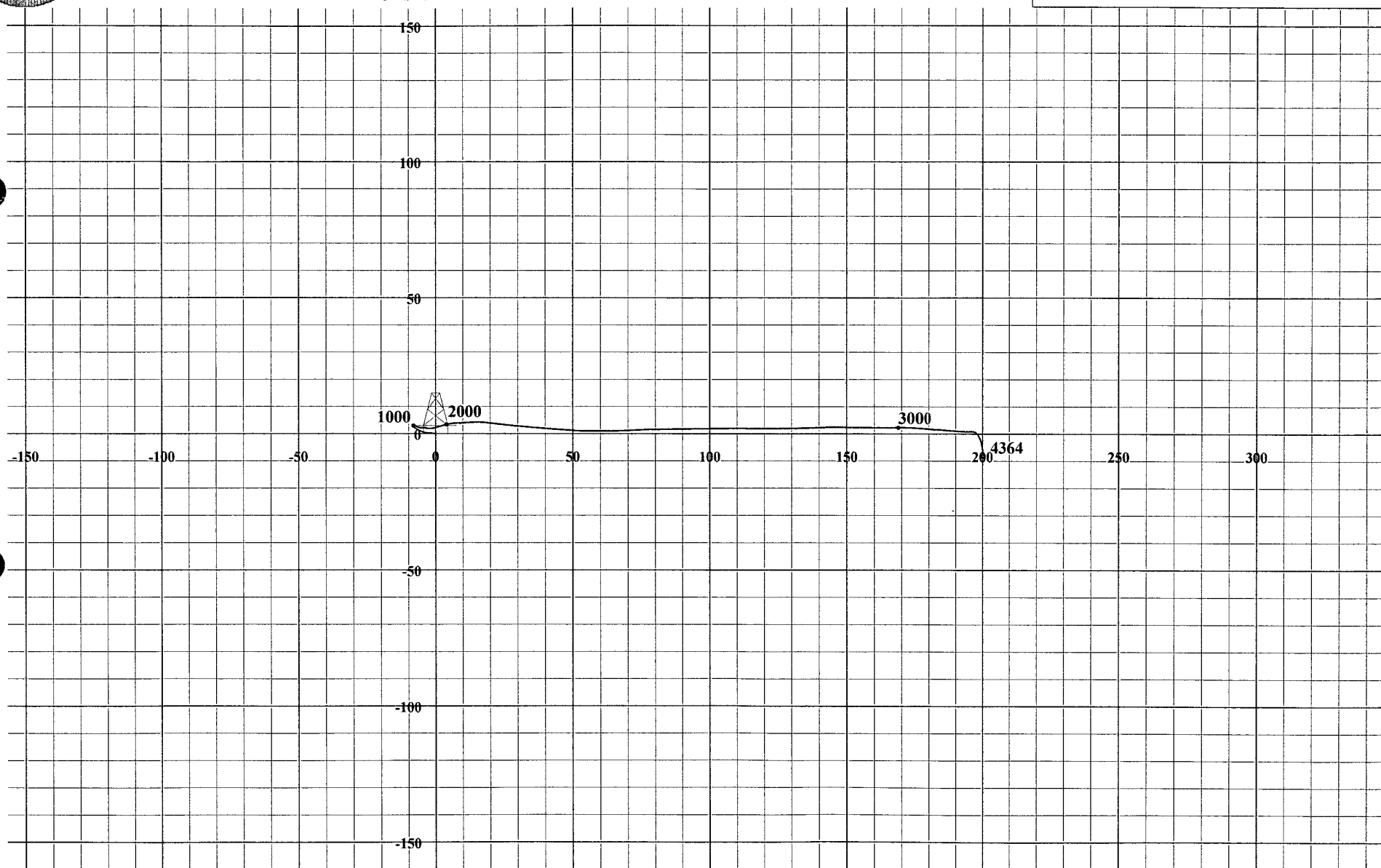
Field: Penrose Skelly
Site: Lea County, NM
Well: Southland Royalty A #34
Survey: 03/16/10-03/19/10

G/T/M



Azimuths to Grid North
True North. 0 00°
Magnetic North. 0 00°
Magnetic Field
Dip Angle 0 00°
Date 3/24/2010
Model: igrf2000

South(-)/North(+) [20ft/in]



West(-)/East(+) [20ft/in]