

Scientific Drilling International

Survey Report

Company: TEXACO E & P INC.
 Field: Wildcat
 Site: Lea County, NM
 Well: A.E. State #1-H
 Wellpath: VH - Job #32K1101611

Date: 1/2/2002 Time: 13:23:43 Page: 1
 Co-ordinate(NE) Reference: Site: Lea County, NM, True North
 Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level
 Section (VS) Reference: Well (0.0E,0.0N,154.2Azi)
 Survey Calculation Method: Minimum Curvature

Survey: 11/14/01
 KSRG 0'-6593'

Start Date: 1/2/2002

Company: Scientific Drilling Internatio
 Tool: Keeper

Engineer: Jeff Cossey

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.00
100.0	0.27	144.44	100.0	0.2	-0.2	0.1	0.2	144.44
200.0	0.29	148.11	200.0	0.7	-0.6	0.4	0.7	145.72
300.0	0.30	83.73	300.0	1.1	-0.8	0.8	1.1	134.38
400.0	0.45	69.65	400.0	1.2	-0.6	1.4	1.6	113.42
500.0	0.41	58.22	500.0	1.2	-0.3	2.1	2.1	97.97
600.0	0.33	60.34	600.0	1.1	0.0	2.7	2.7	89.21
700.0	0.28	70.99	700.0	1.1	0.3	3.1	3.1	85.29
800.0	0.25	58.97	800.0	1.1	0.5	3.6	3.6	82.78
900.0	0.17	67.78	900.0	1.1	0.6	3.9	3.9	80.93
1000.0	0.36	70.43	1000.0	1.2	0.8	4.3	4.4	79.74
1100.0	0.20	76.99	1100.0	1.2	0.9	4.8	4.9	79.05
1200.0	0.23	88.57	1200.0	1.4	1.0	5.2	5.2	79.34
1300.0	0.28	130.25	1300.0	1.7	0.8	5.5	5.6	81.61
1400.0	0.28	134.96	1400.0	2.1	0.5	5.9	5.9	85.29
1500.0	0.53	124.47	1500.0	2.8	0.1	6.5	6.5	89.54
1600.0	0.62	138.31	1600.0	3.7	-0.6	7.2	7.2	94.88
1700.0	0.66	141.91	1700.0	4.8	-1.5	7.9	8.0	100.54
1800.0	0.68	140.75	1800.0	5.9	-2.4	8.6	9.0	105.43
1900.0	0.62	145.98	1900.0	7.0	-3.3	9.3	9.9	109.46
2000.0	0.34	128.66	2000.0	7.8	-3.9	9.9	10.6	111.73
2100.0	0.30	104.06	2099.9	8.3	-4.2	10.3	11.1	111.99
2200.0	0.58	69.20	2199.9	8.5	-4.1	11.1	11.8	110.15
2300.0	0.80	57.63	2299.9	8.4	-3.5	12.1	12.6	106.12
2400.0	1.00	50.64	2399.9	8.1	-2.6	13.4	13.6	100.90
2500.0	1.13	51.10	2499.9	7.7	-1.4	14.8	14.9	95.41
2600.0	1.32	47.47	2599.9	7.2	0.0	16.4	16.4	90.03
2700.0	1.33	47.47	2699.9	6.5	1.6	18.2	18.2	85.10
2800.0	1.23	42.12	2799.8	5.8	3.1	19.7	20.0	80.97
2900.0	0.88	39.76	2899.8	5.0	4.5	20.9	21.4	77.81
3000.0	0.68	44.96	2999.8	4.5	5.5	21.8	22.5	75.79
3100.0	0.72	49.54	3099.8	4.2	6.4	22.7	23.6	74.38
3200.0	0.64	64.86	3199.8	4.0	7.0	23.7	24.7	73.55
3300.0	0.31	105.63	3299.8	4.2	7.2	24.5	25.5	73.69
3400.0	0.55	67.56	3399.8	4.4	7.3	25.2	26.2	73.89
3500.0	0.37	82.50	3499.8	4.5	7.5	26.0	27.0	73.88
3600.0	0.08	92.31	3599.8	4.7	7.5	26.4	27.4	74.03
3700.0	0.08	93.41	3699.8	4.7	7.5	26.5	27.5	74.12
3800.0	0.11	127.93	3799.8	4.9	7.5	26.6	27.7	74.33
3900.0	0.37	187.25	3899.8	5.2	7.1	26.7	27.6	75.10
4000.0	0.44	193.90	3999.8	5.8	6.4	26.5	27.3	76.44
4100.0	0.56	197.02	4099.8	6.4	5.6	26.3	26.9	78.06
4200.0	0.94	204.28	4199.8	7.3	4.3	25.8	26.2	80.45
4300.0	1.19	204.68	4299.7	8.5	2.7	25.1	25.2	83.95
4400.0	1.28	204.85	4399.7	9.9	0.7	24.2	24.2	88.34
4500.0	1.35	202.98	4499.7	11.4	-1.4	23.2	23.3	93.45
4600.0	1.32	201.96	4599.7	12.9	-3.6	22.3	22.6	99.04
4700.0	1.23	213.39	4699.6	14.2	-5.5	21.3	22.0	104.51