

Scientific Drilling International

Survey Report

Company: TEXACO E & P INC.
 Field: Wildcat
 Site: Lea County, NM
 Well: A.E. State #1-H
 Wellpath: DH - Job #32D1101609

Date: 1/2/2002 Time: 13:29:48 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: 11/14/01-11/19/01
 MWD 6620'-7674'

Start Date: 1/2/2002

Company: SDI w/Unidril
 Tool: MWD

Engineer: Lamb/McGhee

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg
6593.0	1.86	190.51	6591.1	70.2	-77.6	0.7	77.6	179.46
6620.0	1.86	190.51	6618.0	70.9	-78.5	0.6	78.5	179.58
6677.0	13.40	168.00	6674.5	78.1	-85.9	1.8	85.9	178.81
6709.0	18.30	161.30	6705.2	86.7	-94.3	4.2	94.4	177.47
6741.0	24.20	156.40	6735.0	98.3	-105.1	8.4	105.4	175.42
6772.0	30.10	154.10	6762.6	112.4	-117.9	14.4	118.8	173.06
6804.0	34.60	153.80	6789.6	129.5	-133.3	21.9	135.1	170.68
6836.0	35.00	153.90	6815.9	147.8	-149.7	29.9	152.6	168.69
6868.0	36.20	150.40	6841.9	166.4	-166.1	38.6	170.6	166.91
6898.0	36.70	149.60	6866.1	184.2	-181.6	47.5	187.7	165.33
6930.0	37.50	148.60	6891.6	203.4	-198.1	57.5	206.3	163.83
6962.0	37.10	150.20	6917.1	222.7	-214.8	67.3	225.1	162.60
6993.0	36.00	150.30	6942.0	241.1	-230.8	76.5	243.2	161.67
7056.0	36.70	149.60	6992.7	278.4	-263.2	95.2	279.8	160.11
7119.0	35.50	150.70	7043.6	315.4	-295.3	113.7	316.5	158.95
7183.0	36.50	149.50	7095.4	352.9	-328.0	132.4	353.7	158.01
7246.0	35.80	151.40	7146.2	390.0	-360.3	150.8	390.5	157.29
7309.0	36.30	148.70	7197.2	427.0	-392.4	169.3	427.3	156.67
7371.0	36.20	149.90	7247.2	463.5	-423.9	188.0	463.7	156.09
7434.0	35.90	150.10	7298.1	500.5	-456.0	206.5	500.6	155.64
7497.0	36.30	147.70	7349.0	537.4	-487.8	225.7	537.5	155.17
7560.0	35.10	149.80	7400.2	574.0	-519.2	244.8	574.0	154.76
7591.0	35.00	150.10	7425.6	591.7	-534.6	253.7	591.8	154.62
7642.0	34.60	150.80	7467.4	620.8	-559.9	268.0	620.8	154.42
7674.0	34.60	150.80	7493.8	638.9	-575.8	276.9	638.9	154.32