

Scientific Drilling International Survey Report

Company: MACK ENERGY Field: Imperial Yeso Site: Eddy County, NM Well: Continental "A" State #8 Wellpath: DH - Job #32D0401241	Date: 7/5/2001 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:	Time: 20:02:01 Page: 1 Site: Eddy County, NM, True North Mean Sea Level 0.0 above Mean Sea Level Well (0.0E,0.0N,205.4Azi) Minimum Curvature
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Survey: 4/27/01-5/1/01
MWD 0'-4360'

Start Date: 7/5/2001

Company: SDI w/Unidril
Tool:

Engineer: Johns/Abe

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
418.0	0.00	0.00	418.0	0.0	0.0	0.0	0.0	0.00
600.0	0.20	35.00	600.0	-0.3	0.3	0.2	0.3	35.00
790.0	0.31	95.00	790.0	-0.8	0.5	0.9	1.0	61.16
980.0	0.60	250.00	980.0	-0.3	0.1	0.5	0.5	77.54
1170.0	0.80	180.50	1170.0	1.6	-1.6	-0.5	1.6	197.21
1360.0	1.00	200.50	1360.0	4.5	-4.4	-1.1	4.6	193.62
1550.0	1.20	235.30	1549.9	7.9	-7.1	-3.3	7.9	204.79
1740.0	1.50	193.70	1739.9	12.0	-10.7	-5.5	12.0	207.33
1900.0	1.70	201.80	1899.8	16.4	-14.9	-6.9	16.4	204.81
2010.0	1.60	345.30	2009.8	16.9	-14.9	-7.9	16.9	207.83
2114.0	1.60	282.60	2113.8	16.1	-13.2	-9.7	16.4	216.19
2300.0	4.80	242.30	2299.5	22.9	-16.3	-19.1	25.1	229.57
2393.0	6.30	201.10	2392.1	31.1	-22.8	-24.4	33.4	226.87
2518.0	6.00	198.30	2516.3	44.4	-35.5	-28.9	45.7	219.20
2699.0	5.90	199.20	2696.4	63.1	-53.2	-34.9	63.7	213.29
2792.0	5.80	204.70	2788.9	72.5	-62.0	-38.5	73.0	211.82
2885.0	5.80	192.80	2881.4	81.8	-70.9	-41.5	82.1	210.35
2975.0	5.80	198.20	2971.0	90.7	-79.6	-43.9	90.9	208.88
3067.0	5.50	193.20	3062.5	99.7	-88.3	-46.4	99.7	207.70
3159.0	5.40	196.40	3154.1	108.3	-96.8	-48.6	108.3	206.67
3252.0	5.00	196.00	3246.7	116.6	-104.9	-50.9	116.6	205.91
3346.0	4.80	193.90	3340.4	124.5	-112.6	-53.0	124.5	205.21
3470.0	5.90	204.70	3463.8	135.9	-123.4	-56.9	135.9	204.76
3567.0	5.90	208.00	3560.3	145.9	-132.4	-61.4	145.9	204.87
3686.0	5.50	206.20	3678.7	157.7	-142.9	-66.7	157.7	205.04
3779.0	5.50	203.40	3771.3	166.6	-151.0	-70.5	166.6	205.03
3872.0	5.10	204.90	3863.9	175.2	-158.8	-74.0	175.2	204.98
3965.0	4.50	207.10	3956.6	183.0	-165.8	-77.4	183.0	205.02
4050.0	4.60	202.00	4041.3	189.7	-171.9	-80.2	189.7	205.00
4149.0	4.20	201.00	4140.0	197.3	-179.0	-83.0	197.3	204.87
4273.0	3.90	192.00	4263.7	205.9	-187.4	-85.5	205.9	204.52
4360.0	4.00	190.90	4350.5	211.7	-193.2	-86.7	211.8	204.16