

Scientific Drilling International

Survey Report

Company: MACK ENERGY
Field: Loco Hills Padlock
Site: Eddy County, NM
Well: WD McIntyre C #7
Wellpath: DH - Job #32D0301151

Date: 5/23/2001 **Time:** 16:09:19 **Page:** 1
Co-ordinate(NE) Reference: Site: Eddy County, NM, True North
Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level
Section (VS) Reference: Well (0.0E,0.0N,90.0Azi)
Survey Calculation Method: Minimum Curvature

Survey: 3/19/01-3/28/01
 MWD 1465'-4997'

Start Date: 5/23/2001

Company: SDI w/ Unidril
Tool: MWD

Engineer: Johns/Pinson

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg
1465.0	1.20	5.30	1465.0	0.0	0.0	0.0	0.0	0.00
1521.0	1.10	17.30	1521.0	0.2	1.1	0.2	1.1	11.04
1584.0	1.20	46.70	1584.0	0.9	2.1	0.9	2.3	22.34
1647.0	1.60	66.30	1647.0	2.2	2.9	2.2	3.6	36.36
1709.0	2.40	114.20	1708.9	4.1	2.7	4.1	5.0	56.40
1803.0	2.40	82.30	1802.8	7.9	2.2	7.9	8.2	74.37
1896.0	3.30	92.90	1895.7	12.5	2.3	12.5	12.7	79.42
1989.0	3.30	100.80	1988.6	17.8	1.7	17.8	17.9	84.56
2052.0	3.40	91.80	2051.5	21.4	1.3	21.4	21.5	86.54
2114.0	3.20	85.20	2113.4	25.0	1.4	25.0	25.0	86.83
2176.0	3.90	84.10	2175.2	28.8	1.7	28.8	28.9	86.54
2298.0	4.10	70.40	2297.0	37.1	3.6	37.1	37.2	84.40
2391.0	3.70	81.80	2389.7	43.2	5.2	43.2	43.5	83.16
2483.0	4.60	93.30	2481.5	49.8	5.4	49.8	50.1	83.82
2546.0	4.80	99.80	2544.3	54.9	4.8	54.9	55.1	85.01
2577.0	4.40	109.10	2575.2	57.3	4.2	57.3	57.5	85.82
2670.0	4.40	109.40	2667.9	64.0	1.8	64.0	64.1	88.36
2764.0	5.60	81.20	2761.6	72.0	1.3	72.0	72.0	88.94
2857.0	5.30	94.90	2854.2	80.7	1.7	80.7	80.8	88.82
2951.0	5.20	94.30	2947.8	89.3	1.0	89.3	89.3	89.38
3045.0	4.80	90.10	3041.4	97.5	0.6	97.5	97.5	89.62
3075.0	4.50	89.20	3071.3	99.9	0.7	99.9	99.9	89.62
3167.0	4.10	90.80	3163.0	106.8	0.7	106.8	106.8	89.64
3226.0	3.90	87.10	3221.9	110.9	0.7	110.9	110.9	89.62
3289.0	3.80	89.10	3284.8	115.2	0.9	115.2	115.2	89.56
3379.0	3.00	92.40	3374.6	120.5	0.8	120.5	120.5	89.61
3472.0	1.30	133.90	3467.5	123.7	0.0	123.7	123.7	90.00
3567.0	0.40	183.80	3562.5	124.4	-1.1	124.4	124.4	90.50
3657.0	0.40	227.50	3652.5	124.2	-1.6	124.2	124.2	90.74
3749.0	0.30	242.00	3744.5	123.7	-1.9	123.7	123.8	90.90
3810.0	0.40	274.10	3805.5	123.4	-2.0	123.4	123.4	90.93
3872.0	0.30	358.20	3867.5	123.2	-1.8	123.2	123.2	90.85
3931.0	0.30	36.40	3926.5	123.3	-1.5	123.3	123.3	90.72
4023.0	0.40	330.10	4018.5	123.2	-1.1	123.2	123.2	90.50
4116.0	0.80	289.40	4111.5	122.5	-0.6	122.5	122.5	90.27
4209.0	0.80	266.00	4204.5	121.2	-0.4	121.2	121.2	90.19
4271.0	0.60	294.30	4266.5	120.5	-0.3	120.5	120.5	90.14
4333.0	0.90	318.30	4328.5	119.9	0.2	119.9	119.9	89.91
4395.0	0.60	82.00	4390.5	119.8	0.6	119.8	119.9	89.71
4488.0	0.90	83.80	4483.5	121.1	0.8	121.1	121.1	89.64
4581.0	0.70	91.80	4576.5	122.4	0.8	122.4	122.4	89.62
4674.0	0.60	92.60	4669.5	123.4	0.8	123.4	123.4	89.64
4767.0	0.60	101.30	4762.5	124.4	0.7	124.4	124.4	89.70
4860.0	0.60	102.10	4855.5	125.3	0.5	125.3	125.3	89.79
4953.0	0.40	100.40	4948.5	126.1	0.3	126.1	126.1	89.87
4997.0	0.50	101.30	4992.4	126.5	0.2	126.5	126.5	89.90