

Scientific Drilling International

Survey Report

Company: MACK ENERGY
Field: Imperial Yeso
Site: Eddy County, NM
Well: Goldstar Federal #5
Wellpath: DH - Job #32D0601353

Date: 7/30/2001 **Time:** 12:04:56 **Page:** 1
Co-ordinate(NE) Reference: Site: Eddy County, NM, True North
Vertical (TVD) Reference: System: Mean Sea Level
Section (VS) Reference: Well (0.0E,0.0N,239.4Azi)
Survey Calculation Method: Minimum Curvature

Survey: 6/12/01-6/19/01
 MWD 1455'-4426'

Start Date: 7/30/2001

Company: Scientific Drilling Internatio
Tool: MWD

Engineer: Davin Johns

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg
1455.0	0.60	30.00	1455.0	0.0	0.0	0.0	0.0	0.00
1553.0	1.60	252.10	1553.0	0.9	0.0	-1.0	1.0	271.31
1646.0	4.70	245.50	1645.8	5.9	-2.0	-5.7	6.1	251.21
1708.0	5.70	245.50	1707.6	11.5	-4.3	-10.9	11.7	248.47
1769.0	6.60	245.40	1768.2	18.0	-7.0	-16.8	18.2	247.38
1831.0	7.50	245.00	1829.8	25.6	-10.2	-23.7	25.8	246.74
1894.0	8.10	246.50	1892.2	34.1	-13.7	-31.5	34.4	246.50
1956.0	8.60	242.00	1953.5	43.1	-17.6	-39.6	43.4	246.02
2050.0	10.00	238.00	2046.3	58.2	-25.2	-52.7	58.5	244.42
2143.0	13.50	234.90	2137.3	77.1	-35.8	-68.5	77.3	242.42
2235.0	13.00	234.50	2226.9	98.2	-48.0	-85.7	98.2	240.77
2328.0	12.30	234.00	2317.6	118.4	-59.9	-102.2	118.4	239.65
2421.0	12.40	238.30	2408.5	138.3	-70.9	-118.7	138.3	239.15
2514.0	13.20	238.50	2499.2	158.9	-81.7	-136.3	158.9	239.05
2607.0	13.50	239.20	2589.6	180.4	-92.8	-154.6	180.4	239.03
2699.0	13.30	239.90	2679.1	201.7	-103.6	-173.0	201.7	239.08
2792.0	12.70	240.60	2769.8	222.6	-114.0	-191.2	222.6	239.19
2885.0	12.40	241.50	2860.5	242.8	-123.8	-208.9	242.8	239.35
2978.0	12.00	240.90	2951.4	262.4	-133.3	-226.1	262.4	239.48
3070.0	12.90	238.40	3041.3	282.3	-143.3	-243.2	282.3	239.49
3162.0	12.80	237.30	3131.0	302.7	-154.2	-260.5	302.7	239.38
3256.0	12.70	236.50	3222.6	323.4	-165.5	-277.9	323.5	239.22
3348.0	12.50	238.10	3312.4	343.5	-176.4	-294.8	343.5	239.11
3440.0	12.70	238.90	3402.2	363.6	-186.8	-311.9	363.6	239.08
3534.0	12.60	238.20	3493.9	384.2	-197.6	-329.5	384.2	239.05
3628.0	12.50	237.10	3585.7	404.6	-208.5	-346.7	404.6	238.98
3720.0	12.50	238.00	3675.5	424.5	-219.2	-363.5	424.5	238.91
3814.0	13.40	240.20	3767.1	445.5	-230.0	-381.6	445.5	238.92
3906.0	13.30	241.90	3856.6	466.8	-240.3	-400.2	466.8	239.02
3998.0	13.30	241.10	3946.2	487.9	-250.4	-418.8	487.9	239.13
4090.0	13.10	239.50	4035.7	508.9	-260.8	-437.0	508.9	239.18
4183.0	12.80	239.30	4126.4	529.8	-271.4	-455.0	529.8	239.18
4271.0	12.60	239.10	4212.2	549.1	-281.3	-471.6	549.1	239.18
4328.0	12.50	239.40	4267.8	561.5	-287.6	-482.2	561.5	239.19
4426.0	12.50	239.40	4363.5	582.7	-298.4	-500.5	582.7	239.19

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