

Scientific Drilling Inc

Planning Report

Company: Mack Energy Corporation Field: Loco Hills Padock Site: Eddy County, New Mexico Well: Woolley Federal #6 Wellpath: OH Original hole	Date: 05/31/2000 Time: 15:28:10 Page: 1 Co-ordinate(N/E) Reference: Site: Eddy County, New Mexico, True North Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level Section (VS) Reference: Site (0.0E,0.0N,31.89A2) Plan: Plan #1
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Field: Loco Hills Padock

Map System: US State Plane Coordinate System 1927
Ellipsoid: Clarke - 1866
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
North Reference: True
Geomagnetic Model: igr2000

Site: Eddy County, New Mexico

Site Position: From: Local Only Position Uncertainty: 0.0 ft Water Depth: 0.0 ft	Northing: ft Easting: ft	Latitude: Longitude: Magnetic Declination: 9.16 deg Grid Convergence: deg
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Well: Woolley Federal #6

Well Position: +N/-S 0.0 ft From Slot: +E/-W 0.0 ft Position Uncertainty: 0.0 ft	Northing: ft Easting: ft	Latitude: Longitude:
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Wellpath: OH Original hole Vertical Section: +N/-S 0.0 ft From: Site +E/-W 0.0 ft Measured Depth Reference: SITE 0.0 ft	Drilled From: Surface ft Tie-on Depth: V.Section Direction: 31.89 deg Above System Datum: Mean Sea Level
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Plan: Plan #1 Principal: Yes	Date Composed: 05/31/2000 Version: 1 Locked: No
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Plan Section Information

MD ft	Incl deg	Azimuth deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1300.0	0.00	0.00	1300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1853.1	13.83	31.89	1847.7	56.4	35.1	2.50	2.50	5.77	31.89	
5202.4	13.83	31.89	5100.0	736.0	458.0	0.00	0.00	0.00	0.00	BHL Woolley 6

Section 1 : Start Hold

MD ft	Incl deg	Azimuth deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1100.0	0.00	0.00	1100.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1200.0	0.00	0.00	1200.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1300.0	0.00	0.00	1300.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00

Section 2 : Start DLS 2.50 TFO 31.89

MD ft	Incl deg	Azimuth deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
1400.0	2.50	31.89	1400.0	1.9	1.2	2.2	2.50	2.50	0.00	0.00
1500.0	5.00	31.89	1499.7	7.4	4.6	8.7	2.50	2.50	0.00	0.00
1600.0	7.50	31.89	1599.1	16.6	10.4	19.6	2.50	2.50	0.00	0.00
1700.0	10.00	31.89	1698.0	29.6	18.4	34.8	2.50	2.50	0.00	0.00
1800.0	12.50	31.89	1796.0	46.1	28.7	54.3	2.50	2.50	0.00	0.00
1853.1	13.83	31.89	1847.7	56.4	35.1	66.4	2.50	2.50	0.00	0.00

Section 3 : Start Hold

MD ft	Incl deg	Azimuth deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
1900.0	13.83	31.89	1893.3	65.9	41.0	77.6	0.00	0.00	0.00	0.00
2000.0	13.83	31.89	1990.4	86.2	53.6	101.5	0.00	0.00	0.00	0.00
2100.0	13.83	31.89	2087.5	106.5	66.3	125.4	0.00	0.00	0.00	0.00