

Scientific Drilling Inc.

Planning Report

Company: Mack Energy Corporation Field: Loco Hills Paddock Site: Eddy County, New Mexico Well: Woolley Federal #7 Wellpath: OH Original hole	Date: 05/31/2000 Time: 15:20:04 Page: 1 Co-ordinates(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,348.3Az) Plan: Plan #1
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Field: Loco Hills Paddock

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:	Northing:	ft	Latitude:	
From: Local Only	Easting:	ft	Longitude:	
Position Uncertainty:	0.0 ft		Magnetic Declination:	9.16 deg
Water Depth:	0.0 ft		Grid Convergence:	deg

Well: Woolley Federal #7

Well Position:	+N/-S	0.0 ft	Northing:	ft	Latitude:
From Slot:	+E/-W	0.0 ft	Easting:	ft	Longitude:
Position Uncertainty:		0.0 ft			

Wellpath: OH Original hole

Drilled From: Surface
Tie-on Depth: ft
V.Section Direction: 348.33 deg
Above System Datum: Mean Sea Level

Vertical Section: +N/-S 0.0 ft
From: Site +E/-W 0.0 ft
Measured Depth Reference: SITE 0.0 ft

Plan: Plan #1

Date Composed: 05/31/2000
Version: 1

Principal: Yes

Locked: No

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	
1776.7	11.92	348.33	1773.3	48.4	-10.0	2.50	2.50	-2.45	348.33	
5176.7	11.92	348.33	5100.0	736.0	-152.0	0.00	0.00	0.00	0.00	BHL Woolley 7

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 348.33

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	348.33	1400.0	2.1	-0.4	2.2	2.50	2.50	0.00	0.00
1500.0	5.00	348.33	1499.7	8.5	-1.8	8.7	2.50	2.50	0.00	0.00
1600.0	7.50	348.33	1599.1	19.2	-4.0	19.6	2.50	2.50	0.00	0.00
1700.0	10.00	348.33	1698.0	34.1	-7.0	34.8	2.50	2.50	0.00	0.00
1776.7	11.92	348.33	1773.3	48.4	-10.0	49.4	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
1800.0	11.92	348.33	1796.1	53.1	-11.0	54.2	0.00	0.00	0.00	0.00
1900.0	11.92	348.33	1893.9	73.3	-15.1	74.9	0.00	0.00	0.00	0.00
2000.0	11.92	348.33	1991.8	93.5	-19.3	95.5	0.00	0.00	0.00	0.00
2100.0	11.92	348.33	2089.6	113.8	-23.5	116.2	0.00	0.00	0.00	0.00