

Mewbourne Oil Co

Eddy, New Mexico

Sec 15/22-20S-25E

30-015-38472

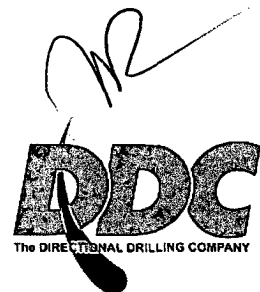
Limousine 15 ML #1H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

04 February, 2011



DDC

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Limousine 15 ML #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3469.0usft (Patterson UTI #101)
Project:	Eddy, New Mexico	MD Reference:	WELL @ 3469.0usft (Patterson UTI #101)
Site:	Sec 15/22-20S-25E	North Reference:	Grid
Well:	Limousine 15 ML #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Eddy, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Sec 15/22-20S-25E		
Site Position:		Northing:	569,416.72 usft
From:	Map	Easting:	454,985.22 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 33' 55.256 N
		Longitude:	104° 28' 46.014 W
		Grid Convergence:	-0.08 °

Well	Limousine 15 ML #1H		
Well Position	+N/-S	0.0 usft	Northing: 569,416.72 usft
	+E/-W	0.0 usft	Easting: 454,985.22 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 33' 55.256 N
			Longitude: 104° 28' 46.014 W
			Ground Level: 3,450.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	2/3/2011	8.07
			Dip Angle (°) 60.35
			Field Strength (nT) 48,755

Design	Design #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°) 359.61

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,066.5	0.00	0.00	2,066.5	0.0	0.0	0.00	0.00	0.00	0.00	
2,988.7	92.22	359.61	2,639.0	595.1	-4.0	10.00	10.00	-0.04	359.61	
4,950.5	92.22	359.61	2,563.0	2,555.4	-17.3	0.00	0.00	0.00	0.00	PBHL Limousine 15

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Site:	Sec 15/22-20S-25E	North Reference:	Grid
Well:	Limousine 15 ML #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 10°/100' @ 2067' MD									
2,066.5	0.00	0.00	2,066.5	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	3.35	359.61	2,100.0	1.0	0.0	1.0	10.00	10.00	0.00
2,200.0	13.35	359.61	2,198.8	15.5	-0.1	15.5	10.00	10.00	0.00
2,300.0	23.35	359.61	2,293.6	46.9	-0.3	46.9	10.00	10.00	0.00
2,400.0	33.35	359.61	2,381.5	94.3	-0.6	94.4	10.00	10.00	0.00
2,500.0	43.35	359.61	2,459.8	156.3	-1.1	156.3	10.00	10.00	0.00
2,600.0	53.35	359.61	2,526.2	230.9	-1.6	230.9	10.00	10.00	0.00
2,700.0	63.35	359.61	2,578.6	316.0	-2.1	316.0	10.00	10.00	0.00
2,800.0	73.35	359.61	2,615.4	408.8	-2.8	408.8	10.00	10.00	0.00
2,900.0	83.35	359.61	2,635.6	506.6	-3.4	506.6	10.00	10.00	0.00
EOB @ 2989' MD / 92.22° Inc / 359.61° Azm / 2639' TVD									
2,988.7	92.22	359.61	2,639.0	595.1	-4.0	595.2	10.00	10.00	0.00
3,000.0	92.22	359.61	2,638.6	606.4	-4.1	606.4	0.00	0.00	0.00
3,100.0	92.22	359.61	2,634.7	706.4	-4.8	706.4	0.00	0.00	0.00
3,200.0	92.22	359.61	2,630.8	806.3	-5.5	806.3	0.00	0.00	0.00
3,300.0	92.22	359.61	2,627.0	906.2	-6.1	906.2	0.00	0.00	0.00
3,400.0	92.22	359.61	2,623.1	1,006.1	-6.8	1,006.1	0.00	0.00	0.00
3,500.0	92.22	359.61	2,619.2	1,106.0	-7.5	1,106.1	0.00	0.00	0.00
3,600.0	92.22	359.61	2,615.3	1,206.0	-8.2	1,206.0	0.00	0.00	0.00
3,700.0	92.22	359.61	2,611.5	1,305.9	-8.9	1,305.9	0.00	0.00	0.00
3,800.0	92.22	359.61	2,607.6	1,405.8	-9.5	1,405.8	0.00	0.00	0.00
3,900.0	92.22	359.61	2,603.7	1,505.7	-10.2	1,505.8	0.00	0.00	0.00
4,000.0	92.22	359.61	2,599.8	1,605.7	-10.9	1,605.7	0.00	0.00	0.00
4,100.0	92.22	359.61	2,596.0	1,705.6	-11.6	1,705.6	0.00	0.00	0.00
4,200.0	92.22	359.61	2,592.1	1,805.5	-12.2	1,805.5	0.00	0.00	0.00
4,300.0	92.22	359.61	2,588.2	1,905.4	-12.9	1,905.5	0.00	0.00	0.00
4,400.0	92.22	359.61	2,584.3	2,005.3	-13.6	2,005.4	0.00	0.00	0.00
4,500.0	92.22	359.61	2,580.5	2,105.3	-14.3	2,105.3	0.00	0.00	0.00
4,600.0	92.22	359.61	2,576.6	2,205.2	-14.9	2,205.2	0.00	0.00	0.00
4,700.0	92.22	359.61	2,572.7	2,305.1	-15.6	2,305.2	0.00	0.00	0.00
4,800.0	92.22	359.61	2,568.8	2,405.0	-16.3	2,405.1	0.00	0.00	0.00
4,900.0	92.22	359.61	2,565.0	2,505.0	-17.0	2,505.0	0.00	0.00	0.00

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Well:	Limousine 15 ML #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
TD @ 4951' MD / 2563' TVD									
4,950.5	92.22	359.61	2,563.0	2,555.4	-17.3	2,555.4	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL Limousine 15 N	0.00	0.00	2,563.0	2,555.4	-17.3	571,972.10	454,967.90	32° 34' 20.543 N	104° 28' 46.257 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,066.5	2,066.5	0.0	0.0	Build 10°/100' @ 2067' MD
2,988.7	2,639.0	595.1	-4.0	EOB @ 2989' MD / 92.22° Inc / 359.61° Azm / 2639' TVD
4,950.5	2,563.0	2,555.4	-17.3	TD @ 4951' MD / 2563' TVD