

Mewbourne Oil Co

Eddy County, New Mexico

Sec 35, T23S, R28E

Layla 35 OB Fee Com #1H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

10 January, 2013

SL: 150 FSL & 1980 FEL

LP: 627 FSL & 1980 FEL

BHL: 330 FNL & 1980 FEL

Sec 35/23S/28E

Oil Conservation Division
Case No. 104
Exhibit No.



DDC
Well Planning Report



Database: EDM 5000.1 Single User Db
Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 35, T23S, R28E
Well: Layla 35 OB Fee Com #1H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Layla 35 OB Fee Com #1H
TVD Reference: WELL @ 3041.0usft (Patterson #41)
MD Reference: WELL @ 3041.0usft (Patterson #41)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Eddy County, 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 35, T23S, R28E		
Site Position:		Northing:	456,438.18 usft
From:	Map	Easting:	585,924.08 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 15' 16.415 N
		Longitude:	104° 3' 19.382 W
		Grid Convergence:	0.15 °

Well	Layla 35 OB Fee Com #1H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	
		Latitude:	32° 15' 16.415 N
		Longitude:	104° 3' 19.382 W
		Ground Level:	3,021.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	1/10/2013	(°)
			7.62
			Dip Angle
			(°)
			60.09
			Field Strength
			(nT)
			48,427

Design	Design #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			0.57

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	
7,878.5	0.00	0.00	7,878.5	0.0	0.0	0.00	0.00	0.00	0.00	
8,627.9	89.93	0.57	8,356.0	476.9	4.7	12.00	12.00	0.08	0.57	
12,982.5	89.93	0.57	8,361.0	4,831.2	48.1	0.00	0.00	0.00	0.00	PBHL Layla 35 OB

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North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
Build 12° / 100'									
7,878.5	0.00	0.00	7,878.5	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	2.58	0.57	7,900.0	0.5	0.0	0.5	12.00	12.00	0.00
7,925.0	5.58	0.57	7,924.9	2.3	0.0	2.3	12.00	12.00	0.00
7,950.0	8.58	0.57	7,949.7	5.3	0.1	5.3	12.00	12.00	0.00
7,975.0	11.58	0.57	7,974.3	9.7	0.1	9.7	12.00	12.00	0.00
8,000.0	14.58	0.57	7,998.7	15.4	0.2	15.4	12.00	12.00	0.00
8,025.0	17.58	0.57	8,022.7	22.3	0.2	22.3	12.00	12.00	0.00
8,050.0	20.58	0.57	8,046.3	30.5	0.3	30.5	12.00	12.00	0.00
8,075.0	23.58	0.57	8,069.5	39.9	0.4	39.9	12.00	12.00	0.00
8,100.0	26.58	0.57	8,092.1	50.5	0.5	50.5	12.00	12.00	0.00
8,125.0	29.58	0.57	8,114.2	62.2	0.6	62.2	12.00	12.00	0.00
8,150.0	32.58	0.57	8,135.6	75.1	0.7	75.1	12.00	12.00	0.00
8,175.0	35.58	0.57	8,156.3	89.1	0.9	89.1	12.00	12.00	0.00
8,200.0	38.58	0.57	8,176.3	104.2	1.0	104.2	12.00	12.00	0.00
8,225.0	41.58	0.57	8,195.4	120.3	1.2	120.3	12.00	12.00	0.00
8,250.0	44.58	0.57	8,213.6	137.4	1.4	137.4	12.00	12.00	0.00
8,275.0	47.58	0.57	8,231.0	155.4	1.5	155.4	12.00	12.00	0.00
8,300.0	50.58	0.57	8,247.3	174.3	1.7	174.3	12.00	12.00	0.00
8,325.0	53.58	0.57	8,262.7	194.0	1.9	194.0	12.00	12.00	0.00
8,350.0	56.58	0.57	8,277.0	214.5	2.1	214.5	12.00	12.00	0.00
8,375.0	59.58	0.57	8,290.2	235.7	2.3	235.7	12.00	12.00	0.00
8,400.0	62.58	0.57	8,302.3	257.6	2.6	257.6	12.00	12.00	0.00
8,425.0	65.58	0.57	8,313.3	280.1	2.8	280.1	12.00	12.00	0.00
8,450.0	68.58	0.57	8,323.0	303.1	3.0	303.1	12.00	12.00	0.00
8,475.0	71.58	0.57	8,331.5	326.6	3.2	326.6	12.00	12.00	0.00
8,500.0	74.58	0.57	8,338.8	350.5	3.5	350.5	12.00	12.00	0.00
8,525.0	77.58	0.57	8,344.8	374.8	3.7	374.8	12.00	12.00	0.00
8,550.0	80.58	0.57	8,349.5	399.3	4.0	399.3	12.00	12.00	0.00
8,575.0	83.58	0.57	8,353.0	424.1	4.2	424.1	12.00	12.00	0.00
8,600.0	86.58	0.57	8,355.1	449.0	4.5	449.0	12.00	12.00	0.00
8,625.0	89.58	0.57	8,356.0	473.9	4.7	474.0	12.00	12.00	0.00
EOB @ 89.93° Inc / .57° Azm / 8356' TVD									
8,627.9	89.93	0.57	8,356.0	476.9	4.7	476.9	12.00	12.00	0.00
8,700.0	89.93	0.57	8,356.0	548.9	5.5	549.0	0.00	0.00	0.00
8,800.0	89.93	0.57	8,356.2	648.9	6.5	649.0	0.00	0.00	0.00
8,900.0	89.93	0.57	8,356.3	748.9	7.5	749.0	0.00	0.00	0.00
9,000.0	89.93	0.57	8,356.4	848.9	8.4	849.0	0.00	0.00	0.00
9,100.0	89.93	0.57	8,356.5	948.9	9.4	949.0	0.00	0.00	0.00
9,200.0	89.93	0.57	8,356.6	1,048.9	10.4	1,049.0	0.00	0.00	0.00
9,300.0	89.93	0.57	8,356.7	1,148.9	11.4	1,149.0	0.00	0.00	0.00
9,400.0	89.93	0.57	8,356.9	1,248.9	12.4	1,249.0	0.00	0.00	0.00
9,500.0	89.93	0.57	8,357.0	1,348.9	13.4	1,349.0	0.00	0.00	0.00
9,600.0	89.93	0.57	8,357.1	1,448.9	14.4	1,449.0	0.00	0.00	0.00
9,700.0	89.93	0.57	8,357.2	1,548.9	15.4	1,549.0	0.00	0.00	0.00
9,800.0	89.93	0.57	8,357.3	1,648.9	16.4	1,649.0	0.00	0.00	0.00
9,900.0	89.93	0.57	8,357.4	1,748.9	17.4	1,749.0	0.00	0.00	0.00
10,000.0	89.93	0.57	8,357.6	1,848.9	18.4	1,849.0	0.00	0.00	0.00
10,100.0	89.93	0.57	8,357.7	1,948.9	19.4	1,949.0	0.00	0.00	0.00
10,200.0	89.93	0.57	8,357.8	2,048.9	20.4	2,049.0	0.00	0.00	0.00
10,300.0	89.93	0.57	8,357.9	2,148.9	21.4	2,149.0	0.00	0.00	0.00
10,400.0	89.93	0.57	8,358.0	2,248.9	22.4	2,249.0	0.00	0.00	0.00
10,500.0	89.93	0.57	8,358.1	2,348.8	23.4	2,349.0	0.00	0.00	0.00

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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)
10,600.0	89.93	0.57	8,358.2	2,448.8	24.4	2,449.0	0.00	0.00	0.00
10,700.0	89.93	0.57	8,358.4	2,548.8	25.4	2,549.0	0.00	0.00	0.00
10,800.0	89.93	0.57	8,358.5	2,648.8	26.4	2,649.0	0.00	0.00	0.00
10,900.0	89.93	0.57	8,358.6	2,748.8	27.3	2,749.0	0.00	0.00	0.00
11,000.0	89.93	0.57	8,358.7	2,848.8	28.3	2,849.0	0.00	0.00	0.00
11,100.0	89.93	0.57	8,358.8	2,948.8	29.3	2,949.0	0.00	0.00	0.00
11,200.0	89.93	0.57	8,358.9	3,048.8	30.3	3,049.0	0.00	0.00	0.00
11,300.0	89.93	0.57	8,359.1	3,148.8	31.3	3,149.0	0.00	0.00	0.00
11,400.0	89.93	0.57	8,359.2	3,248.8	32.3	3,249.0	0.00	0.00	0.00
11,500.0	89.93	0.57	8,359.3	3,348.8	33.3	3,349.0	0.00	0.00	0.00
11,600.0	89.93	0.57	8,359.4	3,448.8	34.3	3,449.0	0.00	0.00	0.00
11,700.0	89.93	0.57	8,359.5	3,548.8	35.3	3,549.0	0.00	0.00	0.00
11,800.0	89.93	0.57	8,359.6	3,648.8	36.3	3,649.0	0.00	0.00	0.00
11,900.0	89.93	0.57	8,359.7	3,748.8	37.3	3,749.0	0.00	0.00	0.00
12,000.0	89.93	0.57	8,359.9	3,848.8	38.3	3,849.0	0.00	0.00	0.00
12,100.0	89.93	0.57	8,360.0	3,948.8	39.3	3,949.0	0.00	0.00	0.00
12,200.0	89.93	0.57	8,360.1	4,048.8	40.3	4,049.0	0.00	0.00	0.00
12,300.0	89.93	0.57	8,360.2	4,148.8	41.3	4,149.0	0.00	0.00	0.00
12,400.0	89.93	0.57	8,360.3	4,248.8	42.3	4,249.0	0.00	0.00	0.00
12,500.0	89.93	0.57	8,360.4	4,348.7	43.3	4,349.0	0.00	0.00	0.00
12,600.0	89.93	0.57	8,360.6	4,448.7	44.3	4,449.0	0.00	0.00	0.00
12,700.0	89.93	0.57	8,360.7	4,548.7	45.2	4,549.0	0.00	0.00	0.00
12,800.0	89.93	0.57	8,360.8	4,648.7	46.2	4,649.0	0.00	0.00	0.00
12,900.0	89.93	0.57	8,360.9	4,748.7	47.2	4,749.0	0.00	0.00	0.00
TD @ 12983' MD / 8361' TVD									
12,982.5	89.93	0.57	8,361.0	4,831.2	48.1	4,831.5	0.00	0.00	0.00

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
PBHL Layla 35 OB Fe	0.00	0.00	8,361.0	4,831.2	48.1	461,269.40	585,972.14	32° 16' 4.225 N	104° 3' 18.677 W
- plan hits target center									
- Point									

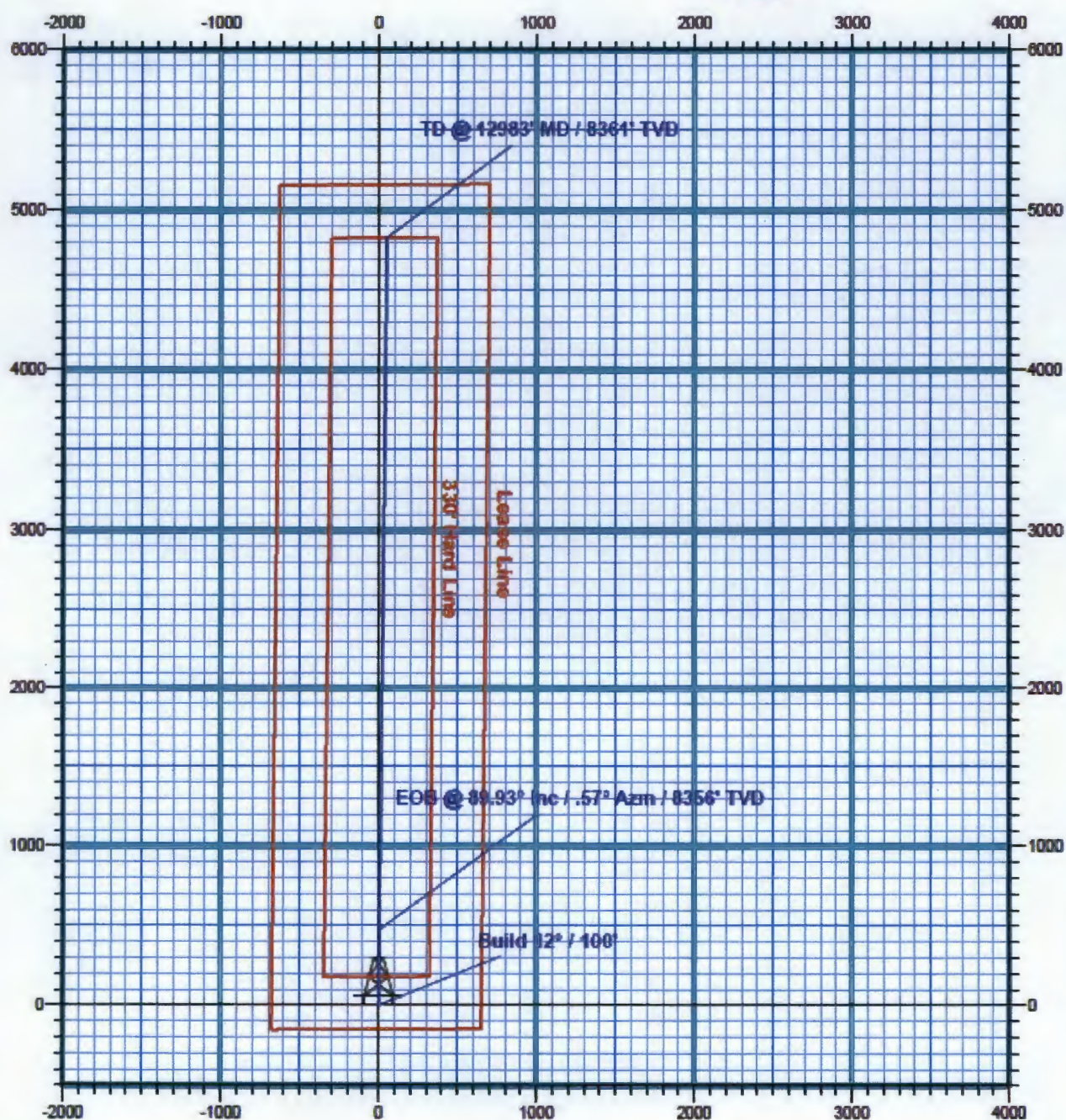
Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,878.5	7,878.5	0.0	0.0	Build 12° / 100'
8,627.9	8,356.0	476.9	4.7	EOB @ 89.93° Inc / .57° Azm / 8356' TVD
12,982.5	8,361.0	4,831.2	48.1	TD @ 12983' MD / 8361' TVD

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DDC
The DIRECTIONAL DRILLING COMPANY



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