

Mewbourne Oil Co

Eddy County, New Mexico

Sec 13-19S-25E

Wyatt Draw 13 MD #1H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

08 December, 2011

SL: 250 FNL + 350 FWL Sec 24 / 19S / 25 E
LP: 330 FSL + 350 FWL Sec 13 / 19S / 25 E
BHL: 330 FNL + 350 FWL Sec 13 / 19S / 25 E

Oil Conservation Division

Case No. 1

Exhibit No.

DDC
THE DIRECTIONAL DRILLING COMPANY

DDC Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Wyatt Draw 13 MD #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3441.0usft (Patterson #101)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3441.0usft (Patterson #101)
Site:	Sec 13-19S-25E	North Reference:	Grid
Well:	Wyatt Draw 13 MD #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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 13-19S-25E		
Site Position:		Northing:	601,258.27 usft
From:	Map	Easting:	465,657.08 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 39' 10.479 N
		Longitude:	104° 26' 41.700 W
		Grid Convergence:	-0.06 °

Well	Wyatt Draw 13 MD #1H		
Well Position	+N/-S	0.0 usft	Northing: 601,258.27 usft
	+E/-W	0.0 usft	Easting: 465,657.08 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 3,422.0 usft

Wellbore	Wellbore #1		
-----------------	-------------	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/6/2011	7.96	60.42	48,728

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)	Direction (°)
	0.0	0.0	0.0	359.32

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	
2,140.1	0.00	0.00	2,140.1	0.0	0.0	0.00	0.00	0.00	0.00	
3,043.3	90.32	359.32	2,713.0	576.1	-6.9	10.00	10.00	-0.08	359.32	
7,497.8	90.32	359.32	2,688.0	5,030.2	-59.9	0.00	0.00	0.00	0.00	PBHL Wyatt Draw 1

DDC Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Wyatt Draw 13 MD #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3441.0usft (Patterson #101)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3441.0usft (Patterson #101)
Site:	Sec 13-19S-25E	North Reference:	Grid
Well:	Wyatt Draw 13 MD #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	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
Build 10°/100' @ 2140' MD										
2,140.1	0.00	0.00	2,140.1	0.0	0.0	0.0	0.00	0.00	0.00	
2,200.0	5.99	359.32	2,199.9	3.1	0.0	3.1	10.00	10.00	0.00	
2,300.0	15.99	359.32	2,297.9	22.2	-0.3	22.2	10.00	10.00	0.00	
2,400.0	25.99	359.32	2,391.2	57.9	-0.7	57.9	10.00	10.00	0.00	
2,500.0	35.99	359.32	2,476.8	109.4	-1.3	109.4	10.00	10.00	0.00	
2,600.0	45.99	359.32	2,552.2	174.9	-2.1	174.9	10.00	10.00	0.00	
2,700.0	55.99	359.32	2,615.0	252.5	-3.0	252.5	10.00	10.00	0.00	
2,800.0	65.99	359.32	2,663.5	339.8	-4.0	339.8	10.00	10.00	0.00	
2,900.0	75.99	359.32	2,696.0	434.2	-5.2	434.2	10.00	10.00	0.00	
3,000.0	85.99	359.32	2,711.7	532.9	-6.3	532.9	10.00	10.00	0.00	
EOB @ 3043' MD / 90.32° Inc / 359.32° Azm / 2713' TVD										
3,043.3	90.32	359.32	2,713.0	576.1	-6.9	576.2	10.00	10.00	0.00	
3,100.0	90.32	359.32	2,712.7	632.8	-7.5	632.9	0.00	0.00	0.00	
3,200.0	90.32	359.32	2,712.2	732.8	-8.7	732.9	0.00	0.00	0.00	
3,300.0	90.32	359.32	2,711.6	832.8	-9.9	832.9	0.00	0.00	0.00	
3,400.0	90.32	359.32	2,711.0	932.8	-11.1	932.9	0.00	0.00	0.00	
3,500.0	90.32	359.32	2,710.5	1,032.8	-12.3	1,032.9	0.00	0.00	0.00	
3,600.0	90.32	359.32	2,709.9	1,132.8	-13.5	1,132.8	0.00	0.00	0.00	
3,700.0	90.32	359.32	2,709.4	1,232.8	-14.7	1,232.8	0.00	0.00	0.00	
3,800.0	90.32	359.32	2,708.8	1,332.8	-15.9	1,332.8	0.00	0.00	0.00	
3,900.0	90.32	359.32	2,708.2	1,432.7	-17.1	1,432.8	0.00	0.00	0.00	
4,000.0	90.32	359.32	2,707.7	1,532.7	-18.3	1,532.8	0.00	0.00	0.00	
4,100.0	90.32	359.32	2,707.1	1,632.7	-19.4	1,632.8	0.00	0.00	0.00	
4,200.0	90.32	359.32	2,706.5	1,732.7	-20.6	1,732.8	0.00	0.00	0.00	
4,300.0	90.32	359.32	2,706.0	1,832.7	-21.8	1,832.8	0.00	0.00	0.00	
4,400.0	90.32	359.32	2,705.4	1,932.7	-23.0	1,932.8	0.00	0.00	0.00	
4,500.0	90.32	359.32	2,704.9	2,032.7	-24.2	2,032.8	0.00	0.00	0.00	
4,600.0	90.32	359.32	2,704.3	2,132.7	-25.4	2,132.8	0.00	0.00	0.00	
4,700.0	90.32	359.32	2,703.7	2,232.7	-26.6	2,232.8	0.00	0.00	0.00	
4,800.0	90.32	359.32	2,703.2	2,332.7	-27.8	2,332.8	0.00	0.00	0.00	
4,900.0	90.32	359.32	2,702.6	2,432.7	-29.0	2,432.8	0.00	0.00	0.00	

DDC Well Planning Report



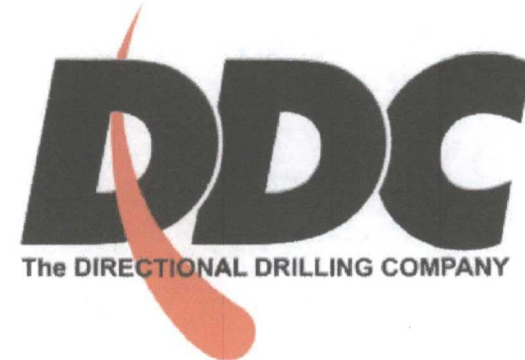
Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Wyatt Draw 13 MD #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3441.0usft (Patterson #101)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3441.0usft (Patterson #101)
Site:	Sec.13-19S-25E	North Reference:	Grid
Well:	Wyatt Draw 13 MD #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)	
5,000.0	90.32	359.32	2,702.0	2,532.6	-30.2	2,532.8	0.00	0.00	0.00	
5,100.0	90.32	359.32	2,701.5	2,632.6	-31.3	2,632.8	0.00	0.00	0.00	
5,200.0	90.32	359.32	2,700.9	2,732.6	-32.5	2,732.8	0.00	0.00	0.00	
5,300.0	90.32	359.32	2,700.4	2,832.6	-33.7	2,832.8	0.00	0.00	0.00	
5,400.0	90.32	359.32	2,699.8	2,932.6	-34.9	2,932.8	0.00	0.00	0.00	
5,500.0	90.32	359.32	2,699.2	3,032.6	-36.1	3,032.8	0.00	0.00	0.00	
5,600.0	90.32	359.32	2,698.7	3,132.6	-37.3	3,132.8	0.00	0.00	0.00	
5,700.0	90.32	359.32	2,698.1	3,232.6	-38.5	3,232.8	0.00	0.00	0.00	
5,800.0	90.32	359.32	2,697.5	3,332.6	-39.7	3,332.8	0.00	0.00	0.00	
5,900.0	90.32	359.32	2,697.0	3,432.6	-40.9	3,432.8	0.00	0.00	0.00	
6,000.0	90.32	359.32	2,696.4	3,532.6	-42.1	3,532.8	0.00	0.00	0.00	
6,100.0	90.32	359.32	2,695.9	3,632.6	-43.3	3,632.8	0.00	0.00	0.00	
6,200.0	90.32	359.32	2,695.3	3,732.5	-44.4	3,732.8	0.00	0.00	0.00	
6,300.0	90.32	359.32	2,694.7	3,832.5	-45.6	3,832.8	0.00	0.00	0.00	
6,400.0	90.32	359.32	2,694.2	3,932.5	-46.8	3,932.8	0.00	0.00	0.00	
6,500.0	90.32	359.32	2,693.6	4,032.5	-48.0	4,032.8	0.00	0.00	0.00	
6,600.0	90.32	359.32	2,693.0	4,132.5	-49.2	4,132.8	0.00	0.00	0.00	
6,700.0	90.32	359.32	2,692.5	4,232.5	-50.4	4,232.8	0.00	0.00	0.00	
6,800.0	90.32	359.32	2,691.9	4,332.5	-51.6	4,332.8	0.00	0.00	0.00	
6,900.0	90.32	359.32	2,691.4	4,432.5	-52.8	4,432.8	0.00	0.00	0.00	
7,000.0	90.32	359.32	2,690.8	4,532.5	-54.0	4,532.8	0.00	0.00	0.00	
7,100.0	90.32	359.32	2,690.2	4,632.5	-55.2	4,632.8	0.00	0.00	0.00	
7,200.0	90.32	359.32	2,689.7	4,732.5	-56.4	4,732.8	0.00	0.00	0.00	
7,300.0	90.32	359.32	2,689.1	4,832.4	-57.5	4,832.8	0.00	0.00	0.00	
7,400.0	90.32	359.32	2,688.5	4,932.4	-58.7	4,932.8	0.00	0.00	0.00	
TD @ 7498' MD / 2688' TVD										
7,497.8	90.32	359.32	2,688.0	5,030.2	-59.9	5,030.6	0.00	0.00	0.00	

Design Targets										
Target Name	hit/miss target	Dip Angle	Dip Dir.	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PBHL Wyatt Draw 13		0.00	360.00	2,688.0	5,030.2	-59.9	606,288.47	465,597.18	32° 40' 0.256 N	104° 26' 42.463 W
- plan hits target center										
- Point										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N-S (usft)	+E-W (usft)	Comment	
2,140.1	2,140.1	0.0	0.0	Build 10°/100' @ 2140' MD	
3,043.3	2,713.0	576.1	-6.9	EOB @ 3043' MD / 90.32° Inc / 359.32° Azm / 2713' TVD	
7,497.8	2,688.0	5,030.2	-59.9	TD @ 7498' MD / 2688' TVD	

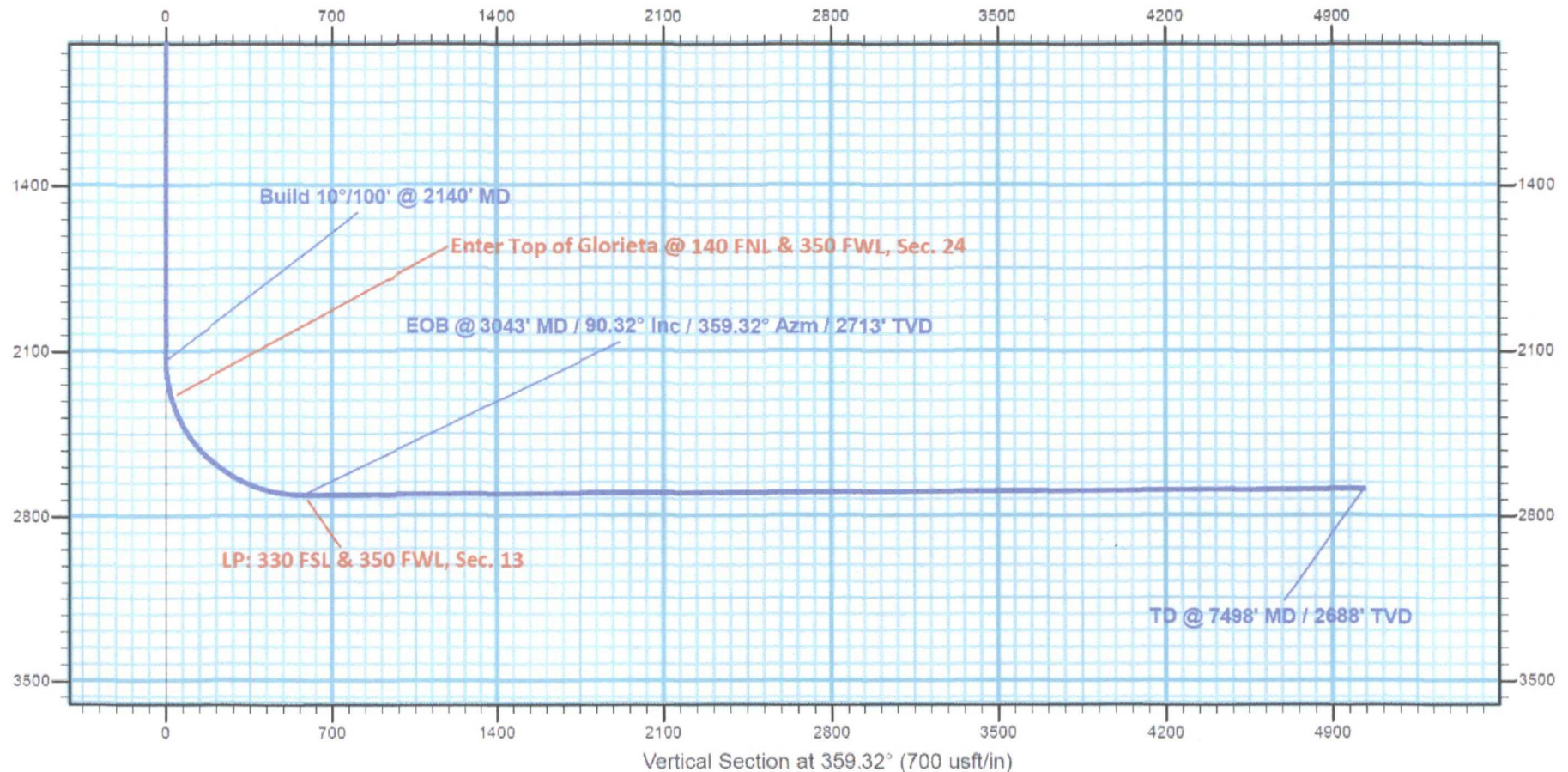
Mewbourne Oil Company



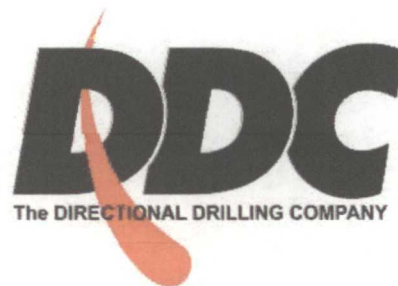
Eddy County, New Mexico

Wyatt Draw 13 MD #1H

Quote 110814



Mewbourne Oil Company



Eddy County, New Mexico

Wyatt Draw 13 MD #1H

Quote 110814

