

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 25E
LP: 330 FSL + 350 FWL Sec 13 19S 25E
BHL: 330 FDL + 350 FWL Sec 13 19S 25E

Oil Conservation Division
Case No. _____
Exhibit No. 12

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

Well	Wyatt Draw 13 MD #1H					
Well Position	+N/-S	0.0 usft	Northing:	601,258.27 usft	Latitude:	32° 39' 10.479 N
	+E/-W	0.0 usft	Easting:	465,657.08 usft	Longitude:	104° 26' 41.700 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level:	3,422.0 usft	

Wellbore:	Wellbore #1
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/6/2011	7.96	60.42	48,728

Design:	Design #1
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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

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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

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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

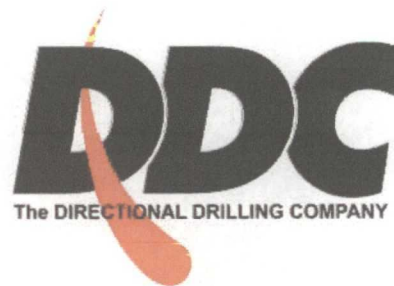
Design Targets

Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
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		Comment
		+N/-S (usft)	+E/-W (usft)	
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

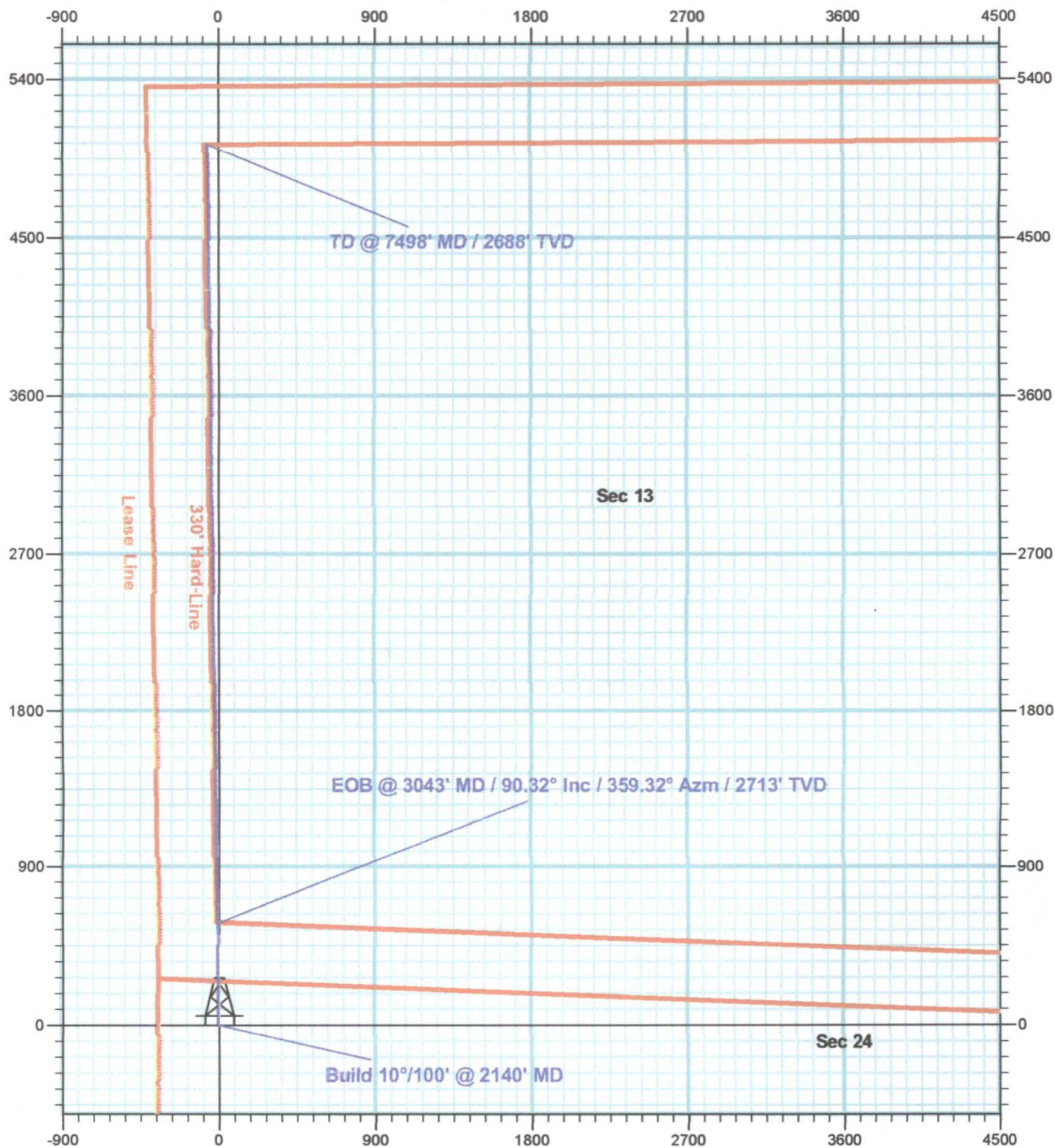
Mewbourne Oil Company



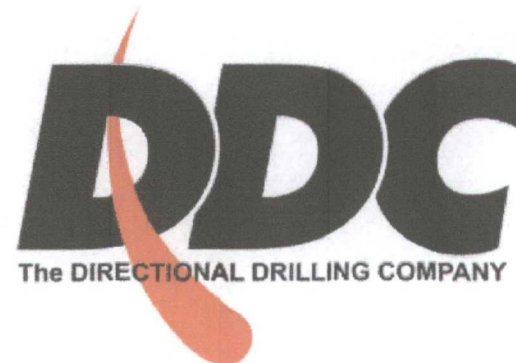
Eddy County, New Mexico

Wyatt Draw 13 MD #1H

Quote 110814



Mewbourne Oil Company



Eddy County, New Mexico

Wyatt Draw 13 MD #1H

Quote 110814

