

Mewbourne Oil Co

Eddy County, New Mexico

Sec 14 26S - 28E

Delaware Ranch 14 CN Fed Com #1H

API: 300153956000

Wellbore #1

Plan: Design #1

DDC Well Planning Report

05 March, 2012

SL: 330 FNL & 1650 FWL

LP: 900 FNL & 1650 FWL

BHL: 330 FSL & 1650 FWL

Oil Conservation Division
Case No. _____
Exhibit No. 8

DDC
The DIRECTIONAL DRILLING COMPANY

DDC
Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Delaware Ranch 14 CN Fed Com #1H
Company:	Mewbourne Oil Co	TVD Reference:	GL 2976' + 20' KB @ 2996.0usft (Patterson UTI)
Project:	Eddy County, New Mexico	MD Reference:	GL 2976' + 20' KB @ 2996.0usft (Patterson UTI)
Site:	Sec 14 26S - 28E	North Reference:	Grid
Well:	Delaware Ranch 14 CN Fed Com #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 14 26S - 28E		
Site Position:		Northing:	381,602.42 usft
From:	Map	Easting:	584,443.90 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 2' 55.849 N
		Longitude:	104° 3' 38.826 W
		Grid Convergence:	0.14°

Well:	Delaware Ranch 14 CN Fed Com #1H		
Well Position	+N-S	0.0 usft	Northing: 381,602.42 usft
	+E-W	0.0 usft	Easting: 584,443.90 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 2,976.0 usft

Wellbore:	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	3/5/2012	(°) 7.71
			Dip Angle (°) 59.92
			Field Strength (nT) 48,387

Design:	Design #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction (°) 180.52

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	
10,068.1	0.00	0.00	10,068.1	0.0	0.0	0.00	0.00	0.00	0.00	
10,965.3	89.72	180.52	10,641.0	-570.1	-5.2	10.00	10.00	0.00	180.52	
15,068.6	89.72	180.52	10,661.0	-4,673.3	-42.3	0.00	0.00	0.00	0.00	Delaware Rach 14 CN

DDC
Well Planning Report



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Site:	Sec.14 26S - 28E	North Reference:	Grid
Well:	Delaware Ranch 14 CN Fed Com #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
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00

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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)
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00
10068 MD: Begin Build @ 10° DLS									
10,068.1	0.00	0.00	10,068.1	0.0	0.0	0.0	0.00	0.00	0.00
10,100.0	3.19	180.52	10,100.0	-0.9	0.0	0.9	10.00	10.00	0.00

DDC
Well Planning Report



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Project:	Eddy County, New Mexico	MD Reference:	GL 2976 + 20' KB @ 2996.0usft (Patterson UTI)
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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)
10,200.0	13.19	180.52	10,198.8	-15.1	-0.1	15.1	10.00	10.00	0.00
10,300.0	23.19	180.52	10,293.7	-46.3	-0.4	46.3	10.00	10.00	0.00
10,400.0	33.19	180.52	10,381.7	-93.5	-0.8	93.5	10.00	10.00	0.00
10,500.0	43.19	180.52	10,460.2	-155.2	-1.4	155.2	10.00	10.00	0.00
10,600.0	53.19	180.52	10,526.8	-229.7	-2.1	229.7	10.00	10.00	0.00
10,700.0	63.19	180.52	10,579.5	-314.6	-2.8	314.6	10.00	10.00	0.00
10,800.0	73.19	180.52	10,616.6	-407.3	-3.7	407.3	10.00	10.00	0.00
10,900.0	83.19	180.52	10,637.0	-505.0	-4.6	505.0	10.00	10.00	0.00
10965'MD - 10641'TVD: EOC w/89.72° Incl. Azm: 180.52									
10,965.3	89.72	180.52	10,641.0	-570.1	-5.2	570.2	10.00	10.00	0.00
11,000.0	89.72	180.52	10,641.2	-604.9	-5.5	604.9	0.00	0.00	0.00
11,100.0	89.72	180.52	10,641.7	-704.9	-6.4	704.9	0.00	0.00	0.00
11,200.0	89.72	180.52	10,642.2	-804.9	-7.3	804.9	0.00	0.00	0.00
11,300.0	89.72	180.52	10,642.6	-904.8	-8.2	904.9	0.00	0.00	0.00
11,400.0	89.72	180.52	10,643.1	-1,004.8	-9.1	1,004.9	0.00	0.00	0.00
11,500.0	89.72	180.52	10,643.6	-1,104.8	-10.0	1,104.9	0.00	0.00	0.00
11,600.0	89.72	180.52	10,644.1	-1,204.8	-10.9	1,204.9	0.00	0.00	0.00
11,700.0	89.72	180.52	10,644.6	-1,304.8	-11.8	1,304.9	0.00	0.00	0.00
11,800.0	89.72	180.52	10,645.1	-1,404.8	-12.7	1,404.9	0.00	0.00	0.00
11,900.0	89.72	180.52	10,645.6	-1,504.8	-13.6	1,504.9	0.00	0.00	0.00
12,000.0	89.72	180.52	10,646.1	-1,604.8	-14.5	1,604.9	0.00	0.00	0.00
12,100.0	89.72	180.52	10,646.5	-1,704.8	-15.4	1,704.9	0.00	0.00	0.00
12,200.0	89.72	180.52	10,647.0	-1,804.8	-16.3	1,804.9	0.00	0.00	0.00
12,300.0	89.72	180.52	10,647.5	-1,904.8	-17.2	1,904.9	0.00	0.00	0.00
12,400.0	89.72	180.52	10,648.0	-2,004.8	-18.1	2,004.9	0.00	0.00	0.00
12,500.0	89.72	180.52	10,648.5	-2,104.8	-19.0	2,104.9	0.00	0.00	0.00
12,600.0	89.72	180.52	10,649.0	-2,204.8	-19.9	2,204.9	0.00	0.00	0.00
12,700.0	89.72	180.52	10,649.5	-2,304.8	-20.8	2,304.9	0.00	0.00	0.00
12,800.0	89.72	180.52	10,650.0	-2,404.8	-21.7	2,404.9	0.00	0.00	0.00
12,900.0	89.72	180.52	10,650.4	-2,504.8	-22.6	2,504.9	0.00	0.00	0.00
13,000.0	89.72	180.52	10,650.9	-2,604.8	-23.5	2,604.9	0.00	0.00	0.00
13,100.0	89.72	180.52	10,651.4	-2,704.8	-24.5	2,704.9	0.00	0.00	0.00
13,200.0	89.72	180.52	10,651.9	-2,804.7	-25.4	2,804.9	0.00	0.00	0.00
13,300.0	89.72	180.52	10,652.4	-2,904.7	-26.3	2,904.9	0.00	0.00	0.00
13,400.0	89.72	180.52	10,652.9	-3,004.7	-27.2	3,004.9	0.00	0.00	0.00
13,500.0	89.72	180.52	10,653.4	-3,104.7	-28.1	3,104.9	0.00	0.00	0.00
13,600.0	89.72	180.52	10,653.8	-3,204.7	-29.0	3,204.9	0.00	0.00	0.00
13,700.0	89.72	180.52	10,654.3	-3,304.7	-29.9	3,304.9	0.00	0.00	0.00
13,800.0	89.72	180.52	10,654.8	-3,404.7	-30.8	3,404.9	0.00	0.00	0.00
13,900.0	89.72	180.52	10,655.3	-3,504.7	-31.7	3,504.9	0.00	0.00	0.00
14,000.0	89.72	180.52	10,655.8	-3,604.7	-32.6	3,604.9	0.00	0.00	0.00
14,100.0	89.72	180.52	10,656.3	-3,704.7	-33.5	3,704.9	0.00	0.00	0.00
14,200.0	89.72	180.52	10,656.8	-3,804.7	-34.4	3,804.9	0.00	0.00	0.00
14,300.0	89.72	180.52	10,657.3	-3,904.7	-35.3	3,904.9	0.00	0.00	0.00
14,400.0	89.72	180.52	10,657.7	-4,004.7	-36.2	4,004.8	0.00	0.00	0.00
14,500.0	89.72	180.52	10,658.2	-4,104.7	-37.1	4,104.8	0.00	0.00	0.00
14,600.0	89.72	180.52	10,658.7	-4,204.7	-38.0	4,204.8	0.00	0.00	0.00
14,700.0	89.72	180.52	10,659.2	-4,304.7	-38.9	4,304.8	0.00	0.00	0.00
14,800.0	89.72	180.52	10,659.7	-4,404.7	-39.8	4,404.8	0.00	0.00	0.00
14,900.0	89.72	180.52	10,660.2	-4,504.7	-40.7	4,504.8	0.00	0.00	0.00
15,000.0	89.72	180.52	10,660.7	-4,604.7	-41.6	4,604.8	0.00	0.00	0.00
TD at 15068.6'MD - 10661'TVD - Delaware Ranch 14 CN Fed Com #1H									

DDC
Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Delaware Ranch 14 CN Fed Com #1H
Company:	Mewbourne Oil Co	TVD Reference:	GL 2976' + 20' KB @ 2996.0usft (Patterson UTI)
Project:	Eddy County, New Mexico	MD Reference:	GL 2976' + 20' KB @ 2996.0usft (Patterson UTI)
Site:	Sec 14 26S - 28E	North Reference:	Grid
Well:	Delaware Ranch 14 CN Fed Com #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)
15,068.6	89.72	180.52	10,661.0	-4,673.3	-42.3	4,673.5	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
Delaware Rach 14 CN F	- plan hits target center - Point	0.00	0.00	10,661.0	-4,673.3	-42.3	376,929.13	584,401.64	32° 2' 9.601 N	104° 3' 39.453 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
10,068.1	10,068.1	0.0	0.0	10068'MD: Begin Build @ 10° DLS
10,965.3	10,641.0	-570.1	-5.2	10965'MD - 10641'TVD: EOC w/89.72° Incl. Azm. 180.52
15,068.6	10,661.0	-4,673.3	-42.3	TD at 15068.6'MD - 10661'TVD