

Mewbourne Oil Co

Eddy County, New Mexico

Sec 4-20S-29E

Burton 4 Fed Com #4H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

18 January, 2012

SL: 2120 FNL & 330 FEL

LP: 2120 FNL & 813 FEL

BHL: 2120 FNL & 330 FWL

Section 4 20S/29E

Oil Conservation Division
Case No. _____
Exhibit No. 13

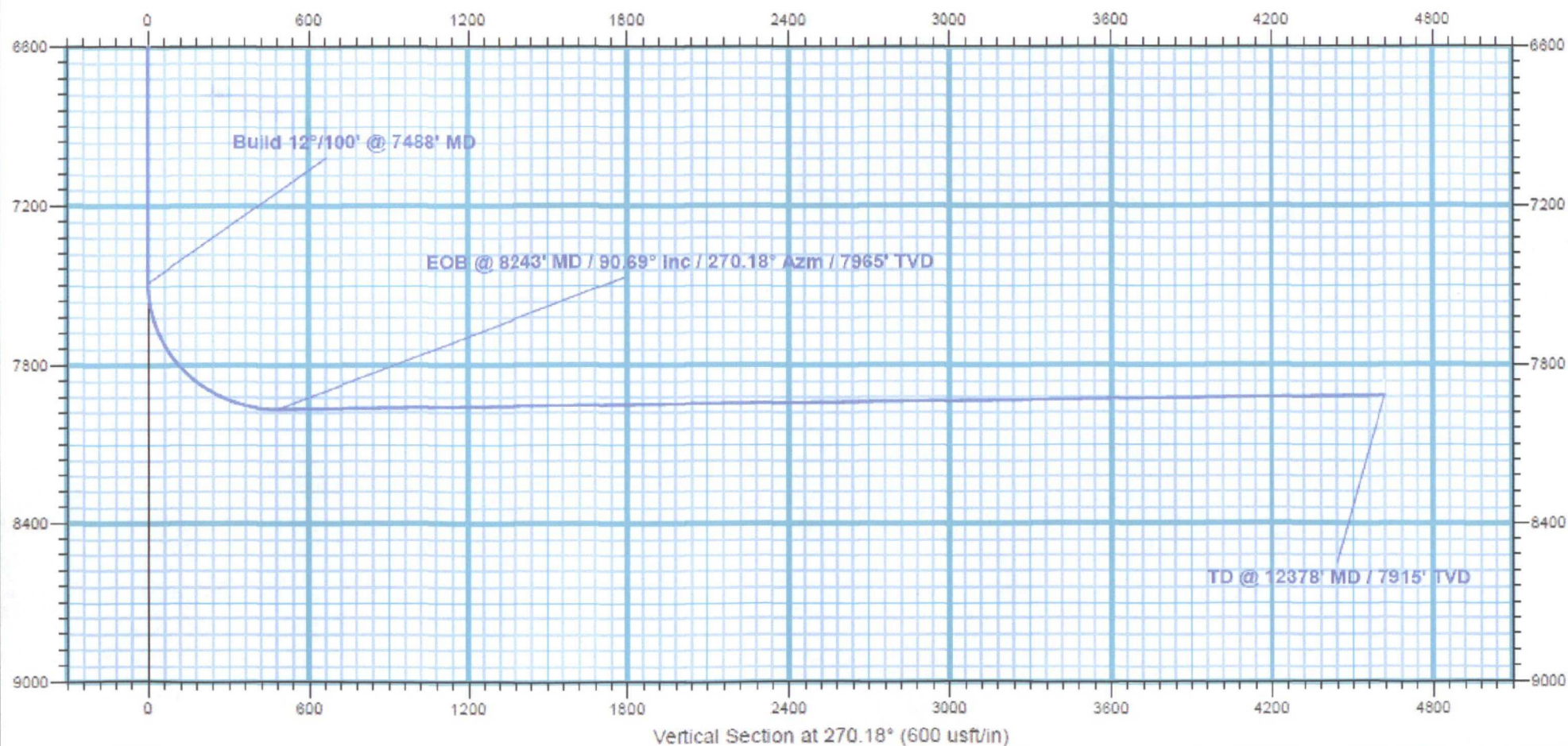
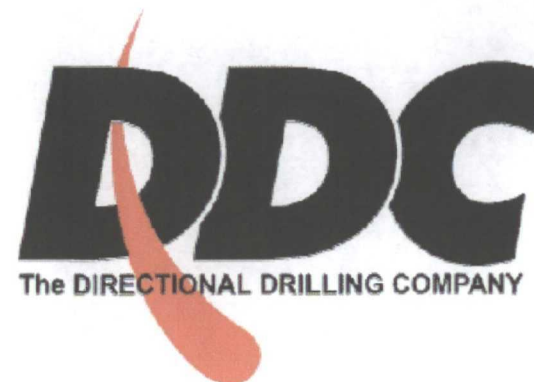
DDC
The Directional Drilling Company

Mewbourne Oil Company

Eddy County, New Mexico

Burton 4 Fed Com #4H

Quote 120022

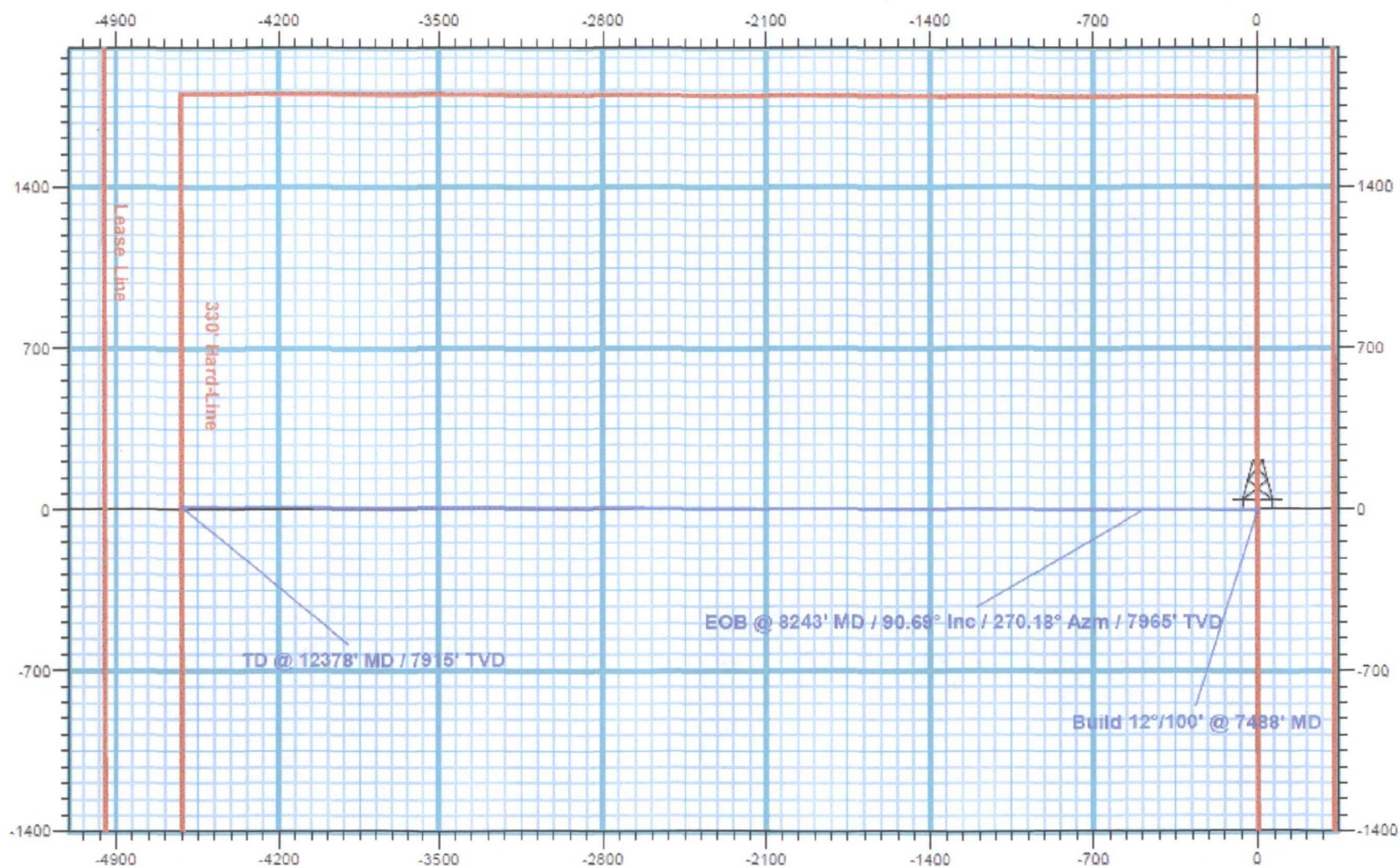


Mewbourne Oil Company

Eddy County, New Mexico

Burton 4 Fed Com #4H

Quote 120022



DDC Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Burton 4 Fed Com #4H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3350.0usft (Patterson)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3350.0usft (Patterson)
Site:	Sec 4-20S-29E	North Reference:	Grid
Well:	Burton 4 Fed Com #4H	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 4-20S-29E		
Site Position:		Northing:	583,552.10 usft
From:	Map	Easting:	580,468.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 36' 14.464 N
		Longitude:	104° 4' 19.299 W
		Grid Convergence:	0.14 °

Well	Burton 4 Fed Com #4H		
Well Position	+N/-S	0.0 usft	Northing: 583,552.10 usft
	+E/-W	0.0 usft	Easting: 580,468.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 36' 14.464 N
			Longitude: 104° 4' 19.299 W
			Ground Level: 3,330.0 usft

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

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/18/2012	7.77	60.44	48,731

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	270.18

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	
7,487.6	0.00	0.00	7,487.6	0.0	0.0	0.00	0.00	0.00	0.00	
8,243.4	90.69	270.18	7,965.0	1.5	-483.2	12.00	12.00	-11.88	270.18	
12,378.2	90.69	270.18	7,915.0	14.3	-4,617.7	0.00	0.00	0.00	0.00	PBHL Burton 4 Fed

DDC Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Burton 4 Fed Com #4H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3350.0usft (Patterson)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3350.0usft (Patterson)
Site:	Sec 4-20S-29E	North Reference:	Grid
Well:	Burton 4 Fed Com #4H	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
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

DDC Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Burton 4 Fed Com #4H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3350.0usft (Patterson)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3350.0usft (Patterson)
Site:	Sec 4-20S-29E	North Reference:	Grid
Well:	Burton 4 Fed Com #4H	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)
5,400.0	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
Build 12°/100' @ 7488' MD									
7,487.6	0.00	0.00	7,487.6	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	1.49	270.18	7,500.0	0.0	-0.2	0.2	12.00	12.00	0.00
7,600.0	13.49	270.18	7,599.0	0.0	-13.2	13.2	12.00	12.00	0.00
7,700.0	25.49	270.18	7,693.1	0.1	-46.5	46.5	12.00	12.00	0.00
7,800.0	37.49	270.18	7,778.2	0.3	-98.6	98.6	12.00	12.00	0.00
7,900.0	49.49	270.18	7,850.6	0.5	-167.3	167.3	12.00	12.00	0.00
8,000.0	61.49	270.18	7,907.2	0.8	-249.5	249.6	12.00	12.00	0.00
8,100.0	73.49	270.18	7,945.4	1.1	-341.8	341.8	12.00	12.00	0.00
8,200.0	85.49	270.18	7,963.6	1.4	-439.9	439.9	12.00	12.00	0.00
EOB @ 8243' MD / 90.69° Inc / 270.18° Azm / 7965' TVD									
8,243.4	90.69	270.18	7,965.0	1.5	-483.2	483.2	12.00	12.00	0.00
8,300.0	90.69	270.18	7,964.3	1.7	-539.9	539.9	0.00	0.00	0.00
8,400.0	90.69	270.18	7,963.1	2.0	-639.9	639.9	0.00	0.00	0.00
8,500.0	90.69	270.18	7,961.9	2.3	-739.8	739.8	0.00	0.00	0.00
8,600.0	90.69	270.18	7,960.7	2.6	-839.8	839.8	0.00	0.00	0.00
8,700.0	90.69	270.18	7,959.5	2.9	-939.8	939.8	0.00	0.00	0.00
8,800.0	90.69	270.18	7,958.3	3.2	-1,039.8	1,039.8	0.00	0.00	0.00
8,900.0	90.69	270.18	7,957.1	3.5	-1,139.8	1,139.8	0.00	0.00	0.00
9,000.0	90.69	270.18	7,955.9	3.8	-1,239.8	1,239.8	0.00	0.00	0.00
9,100.0	90.69	270.18	7,954.7	4.1	-1,339.8	1,339.8	0.00	0.00	0.00
9,200.0	90.69	270.18	7,953.5	4.5	-1,439.8	1,439.8	0.00	0.00	0.00
9,300.0	90.69	270.18	7,952.2	4.8	-1,539.8	1,539.8	0.00	0.00	0.00
9,400.0	90.69	270.18	7,951.0	5.1	-1,639.8	1,639.8	0.00	0.00	0.00
9,500.0	90.69	270.18	7,949.8	5.4	-1,739.8	1,739.8	0.00	0.00	0.00
9,600.0	90.69	270.18	7,948.6	5.7	-1,839.8	1,839.8	0.00	0.00	0.00
9,700.0	90.69	270.18	7,947.4	6.0	-1,939.7	1,939.8	0.00	0.00	0.00
9,800.0	90.69	270.18	7,946.2	6.3	-2,039.7	2,039.8	0.00	0.00	0.00
9,900.0	90.69	270.18	7,945.0	6.6	-2,139.7	2,139.7	0.00	0.00	0.00
10,000.0	90.69	270.18	7,943.8	6.9	-2,239.7	2,239.7	0.00	0.00	0.00
10,100.0	90.69	270.18	7,942.6	7.2	-2,339.7	2,339.7	0.00	0.00	0.00
10,200.0	90.69	270.18	7,941.4	7.6	-2,439.7	2,439.7	0.00	0.00	0.00

DDC

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Burton 4 Fed Com #4H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3350.0usft (Patterson)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3350.0usft (Patterson)
Site:	Sec 4-20S-29E	North Reference:	Grid
Well:	Burton 4 Fed Com #4H	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)	
10,300.0	90.69	270.18	7,940.1	7.9	-2,539.7	2,539.7	0.00	0.00	0.00	
10,400.0	90.69	270.18	7,938.9	8.2	-2,639.7	2,639.7	0.00	0.00	0.00	
10,500.0	90.69	270.18	7,937.7	8.5	-2,739.7	2,739.7	0.00	0.00	0.00	
10,600.0	90.69	270.18	7,936.5	8.8	-2,839.7	2,839.7	0.00	0.00	0.00	
10,700.0	90.69	270.18	7,935.3	9.1	-2,939.7	2,939.7	0.00	0.00	0.00	
10,800.0	90.69	270.18	7,934.1	9.4	-3,039.7	3,039.7	0.00	0.00	0.00	
10,900.0	90.69	270.18	7,932.9	9.7	-3,139.7	3,139.7	0.00	0.00	0.00	
11,000.0	90.69	270.18	7,931.7	10.0	-3,239.6	3,239.7	0.00	0.00	0.00	
11,100.0	90.69	270.18	7,930.5	10.3	-3,339.6	3,339.7	0.00	0.00	0.00	
11,200.0	90.69	270.18	7,929.3	10.7	-3,439.6	3,439.6	0.00	0.00	0.00	
11,300.0	90.69	270.18	7,928.0	11.0	-3,539.6	3,539.6	0.00	0.00	0.00	
11,400.0	90.69	270.18	7,926.8	11.3	-3,639.6	3,639.6	0.00	0.00	0.00	
11,500.0	90.69	270.18	7,925.6	11.6	-3,739.6	3,739.6	0.00	0.00	0.00	
11,600.0	90.69	270.18	7,924.4	11.9	-3,839.6	3,839.6	0.00	0.00	0.00	
11,700.0	90.69	270.18	7,923.2	12.2	-3,939.6	3,939.6	0.00	0.00	0.00	
11,800.0	90.69	270.18	7,922.0	12.5	-4,039.6	4,039.6	0.00	0.00	0.00	
11,900.0	90.69	270.18	7,920.8	12.8	-4,139.6	4,139.6	0.00	0.00	0.00	
12,000.0	90.69	270.18	7,919.6	13.1	-4,239.6	4,239.6	0.00	0.00	0.00	
12,100.0	90.69	270.18	7,918.4	13.4	-4,339.6	4,339.6	0.00	0.00	0.00	
12,200.0	90.69	270.18	7,917.2	13.7	-4,439.6	4,439.6	0.00	0.00	0.00	
12,300.0	90.69	270.18	7,915.9	14.1	-4,539.5	4,539.6	0.00	0.00	0.00	
12,378.2	90.69	270.18	7,915.0	14.3	-4,617.7	4,617.7	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 Burton 4 Fed C		0.00	0.00	7,915.0	14.3	-4,617.7	583,566.40	575,850.30	32° 36' 14.715 N	104° 5' 13.281 W
- plan hits target center										
- Point										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
7,487.6	7,487.6	0.0	0.0	Build 12°/100' @ 7488' MD	
8,243.4	7,965.0	1.5	-483.2	EOB @ 8243' MD / 90.69° Inc / 270.18° Azm / 7965' TVD	
12,378.2	7,915.0	14.3	-4,617.7	TD @ 12378' MD / 7915' TVD	