

Mewbourne Oil Co

Eddy County, New Mexico

Sec 30, T18S, R30E

Bradley 30 Federal Com #4H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

29 August, 2012

SL: 330 FNL & 110 FWL

LP: 335 FNL & 580 FWL

BHL: 400 FNL & 330 FEL

Oil Conservation Division

Case No. 12

Exhibit No. 12

DDC
The DIRECTIONAL DRILLING COMPANY



Database: EDM 5000.1 Single User Db
Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 30, T18S, R30E
Well: Bradley 30 Federal Com #4H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Bradley 30 Federal Com #4H
TVD Reference: WELL @ 3469.0usft (Patterson-UTI)
MD Reference: WELL @ 3469.0usft (Patterson-UTI)
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 30, T18S, R30E		
Site Position:		Northing:	622,986.86 usft
From:	Lat/Long	Easting:	601,612.61 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 42' 44.110 N
		Longitude:	104° 0' 10.680 W
		Grid Convergence:	0.18 °

Well	Bradley 30 Federal Com #4H		
Well Position	+N/-S	4,545.3 usft	Northing:
	+E/-W	-4,891.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	Wellbore #1		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/29/2012	7.68	60.54	48,747

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	90.80

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	
7,620.6	0.00	0.00	7,620.6	0.0	0.0	0.00	0.00	0.00	0.00	
8,364.0	89.20	90.80	8,098.0	-6.6	470.8	12.00	12.00	12.21	90.80	
12,679.2	89.20	90.80	8,158.0	-66.6	4,785.2	0.00	0.00	0.00	0.00	PBHL Bradley 30 Fi

DDC
Well Planning Report



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Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3469.0usft (Patterson-UTI)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3469.0usft (Patterson-UTI)
Site:	Sec 30, T18S, R30E	North Reference:	Grid
Well:	Bradley 30 Federal 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)
Build 12° / 100'									
7,620.6	0.00	0.00	7,620.6	0.0	0.0	0.0	0.00	0.00	0.00
7,625.0	0.53	90.80	7,625.0	0.0	0.0	0.0	12.00	12.00	0.00
7,650.0	3.53	90.80	7,650.0	0.0	0.9	0.9	12.00	12.00	0.00
7,675.0	6.53	90.80	7,674.9	0.0	3.1	3.1	12.00	12.00	0.00
7,700.0	9.53	90.80	7,699.6	-0.1	6.6	6.6	12.00	12.00	0.00
7,725.0	12.53	90.80	7,724.2	-0.2	11.4	11.4	12.00	12.00	0.00
7,750.0	15.53	90.80	7,748.4	-0.2	17.4	17.4	12.00	12.00	0.00
7,775.0	18.53	90.80	7,772.3	-0.3	24.7	24.7	12.00	12.00	0.00
7,800.0	21.53	90.80	7,795.8	-0.5	33.3	33.3	12.00	12.00	0.00
7,825.0	24.53	90.80	7,818.8	-0.6	43.1	43.1	12.00	12.00	0.00
7,850.0	27.53	90.80	7,841.3	-0.8	54.1	54.1	12.00	12.00	0.00
7,875.0	30.53	90.80	7,863.1	-0.9	66.2	66.2	12.00	12.00	0.00
7,900.0	33.53	90.80	7,884.3	-1.1	79.4	79.4	12.00	12.00	0.00
7,925.0	36.53	90.80	7,904.8	-1.3	93.8	93.8	12.00	12.00	0.00
7,950.0	39.53	90.80	7,924.5	-1.5	109.2	109.2	12.00	12.00	0.00
7,975.0	42.53	90.80	7,943.3	-1.7	125.6	125.6	12.00	12.00	0.00
8,000.0	45.53	90.80	7,961.3	-2.0	143.0	143.0	12.00	12.00	0.00
8,025.0	48.53	90.80	7,978.4	-2.2	161.2	161.3	12.00	12.00	0.00
8,050.0	51.53	90.80	7,994.4	-2.5	180.4	180.4	12.00	12.00	0.00
8,075.0	54.53	90.80	8,009.4	-2.8	200.4	200.4	12.00	12.00	0.00
8,100.0	57.53	90.80	8,023.4	-3.1	221.1	221.1	12.00	12.00	0.00
8,125.0	60.53	90.80	8,036.3	-3.4	242.5	242.6	12.00	12.00	0.00
8,150.0	63.53	90.80	8,048.0	-3.7	264.6	264.6	12.00	12.00	0.00
8,175.0	66.53	90.80	8,058.6	-4.0	287.3	287.3	12.00	12.00	0.00
8,200.0	69.53	90.80	8,067.9	-4.3	310.4	310.5	12.00	12.00	0.00
8,225.0	72.53	90.80	8,076.0	-4.6	334.1	334.1	12.00	12.00	0.00
8,250.0	75.53	90.80	8,082.9	-5.0	358.1	358.1	12.00	12.00	0.00
8,275.0	78.53	90.80	8,088.5	-5.3	382.5	382.5	12.00	12.00	0.00
8,300.0	81.53	90.80	8,092.9	-5.7	407.1	407.1	12.00	12.00	0.00
8,325.0	84.53	90.80	8,095.9	-6.0	431.9	431.9	12.00	12.00	0.00
8,350.0	87.53	90.80	8,097.6	-6.4	456.8	456.9	12.00	12.00	0.00
EOB @ 89.20° Inc / 90.80° Azm / 8098' TVD									
8,364.0	89.20	90.80	8,098.0	-6.6	470.8	470.8	12.00	12.00	0.00
8,400.0	89.20	90.80	8,098.5	-7.1	506.8	506.9	0.00	0.00	0.00
8,500.0	89.20	90.80	8,099.9	-8.4	606.8	606.9	0.00	0.00	0.00
8,600.0	89.20	90.80	8,101.3	-9.8	706.8	706.8	0.00	0.00	0.00
8,700.0	89.20	90.80	8,102.7	-11.2	806.8	806.8	0.00	0.00	0.00
8,800.0	89.20	90.80	8,104.1	-12.6	906.7	906.8	0.00	0.00	0.00
8,900.0	89.20	90.80	8,105.5	-14.0	1,006.7	1,006.8	0.00	0.00	0.00
9,000.0	89.20	90.80	8,106.9	-15.4	1,106.7	1,106.8	0.00	0.00	0.00
9,100.0	89.20	90.80	8,108.2	-16.8	1,206.7	1,206.8	0.00	0.00	0.00
9,200.0	89.20	90.80	8,109.6	-18.2	1,306.7	1,306.8	0.00	0.00	0.00
9,300.0	89.20	90.80	8,111.0	-19.6	1,406.6	1,406.8	0.00	0.00	0.00
9,400.0	89.20	90.80	8,112.4	-21.0	1,506.6	1,506.8	0.00	0.00	0.00
9,500.0	89.20	90.80	8,113.8	-22.4	1,606.6	1,606.8	0.00	0.00	0.00
9,600.0	89.20	90.80	8,115.2	-23.8	1,706.6	1,706.7	0.00	0.00	0.00
9,700.0	89.20	90.80	8,116.6	-25.1	1,806.6	1,806.7	0.00	0.00	0.00
9,800.0	89.20	90.80	8,118.0	-26.5	1,906.5	1,906.7	0.00	0.00	0.00
9,900.0	89.20	90.80	8,119.4	-27.9	2,006.5	2,006.7	0.00	0.00	0.00
10,000.0	89.20	90.80	8,120.8	-29.3	2,106.5	2,106.7	0.00	0.00	0.00
10,100.0	89.20	90.80	8,122.1	-30.7	2,206.5	2,206.7	0.00	0.00	0.00
10,200.0	89.20	90.80	8,123.5	-32.1	2,306.5	2,306.7	0.00	0.00	0.00
10,300.0	89.20	90.80	8,124.9	-33.5	2,406.4	2,406.7	0.00	0.00	0.00

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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)
10,400.0	89.20	90.80	8,126.3	-34.9	2,506.4	2,506.7	0.00	0.00	0.00
10,500.0	89.20	90.80	8,127.7	-36.3	2,606.4	2,606.7	0.00	0.00	0.00
10,600.0	89.20	90.80	8,129.1	-37.7	2,706.4	2,706.6	0.00	0.00	0.00
10,700.0	89.20	90.80	8,130.5	-39.1	2,806.4	2,806.6	0.00	0.00	0.00
10,800.0	89.20	90.80	8,131.9	-40.5	2,906.3	2,906.6	0.00	0.00	0.00
10,900.0	89.20	90.80	8,133.3	-41.8	3,006.3	3,006.6	0.00	0.00	0.00
11,000.0	89.20	90.80	8,134.7	-43.2	3,106.3	3,106.6	0.00	0.00	0.00
11,100.0	89.20	90.80	8,136.0	-44.6	3,206.3	3,206.6	0.00	0.00	0.00
11,200.0	89.20	90.80	8,137.4	-46.0	3,306.3	3,306.6	0.00	0.00	0.00
11,300.0	89.20	90.80	8,138.8	-47.4	3,406.3	3,406.6	0.00	0.00	0.00
11,400.0	89.20	90.80	8,140.2	-48.8	3,506.2	3,506.6	0.00	0.00	0.00
11,500.0	89.20	90.80	8,141.6	-50.2	3,606.2	3,606.6	0.00	0.00	0.00
11,600.0	89.20	90.80	8,143.0	-51.6	3,706.2	3,706.6	0.00	0.00	0.00
11,700.0	89.20	90.80	8,144.4	-53.0	3,806.2	3,806.5	0.00	0.00	0.00
11,800.0	89.20	90.80	8,145.8	-54.4	3,906.2	3,906.5	0.00	0.00	0.00
11,900.0	89.20	90.80	8,147.2	-55.8	4,006.1	4,006.5	0.00	0.00	0.00
12,000.0	89.20	90.80	8,148.6	-57.1	4,106.1	4,106.5	0.00	0.00	0.00
12,100.0	89.20	90.80	8,149.9	-58.5	4,206.1	4,206.5	0.00	0.00	0.00
12,200.0	89.20	90.80	8,151.3	-59.9	4,306.1	4,306.5	0.00	0.00	0.00
12,300.0	89.20	90.80	8,152.7	-61.3	4,406.1	4,406.5	0.00	0.00	0.00
12,400.0	89.20	90.80	8,154.1	-62.7	4,506.0	4,506.5	0.00	0.00	0.00
12,500.0	89.20	90.80	8,155.5	-64.1	4,606.0	4,606.5	0.00	0.00	0.00
12,600.0	89.20	90.80	8,156.9	-65.5	4,706.0	4,706.5	0.00	0.00	0.00
TD @ 12679' MD / 8158' TVD									
12,679.2	89.20	90.80	8,158.0	-66.6	4,785.2	4,785.7	0.00	0.00	0.00

Design Targets

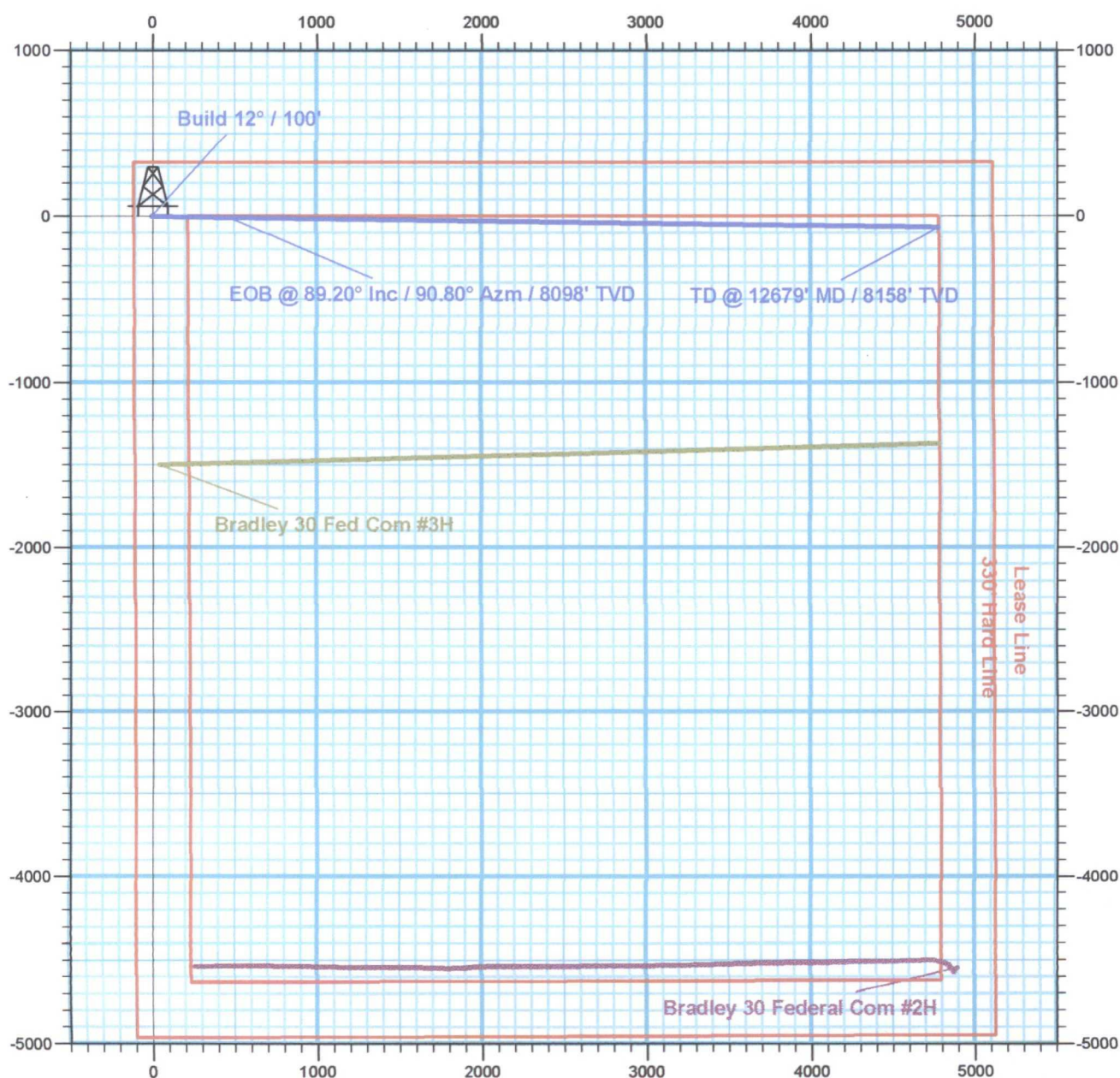
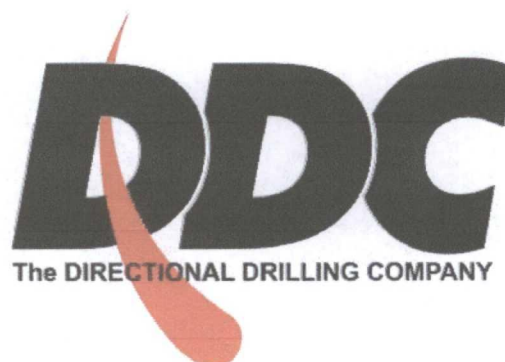
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL Bradley 30 Fed	0.00	0.00	8,158.0	-66.6	4,785.2	627,465.57	601,506.76	32° 43' 28.432 N	104° 0' 11.756 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,620.6	7,620.6	0.0	0.0	Build 12° / 100'
8,364.0	8,098.0	-6.6	470.8	EOB @ 89.20° Inc / 90.80° Azm / 8098' TVD
12,679.2	8,158.0	-66.6	4,785.2	TD @ 12679' MD / 8158' TVD

Mewbourne Oil Company

Eddy County, New Mexico
Bradley 30 Federal Com #4H
Quote 120646
Design #1



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Eddy County, New Mexico
Bradley 30 Federal Com #4H
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