

Mewbourne Oil Co

Eddy County, New Mexico

Sec 14,T26S, R27E

Owl Draw 23 DM Fed Com #1H

Wellbore #1

Plan: Design #2

DDC Well Planning Report

16 May, 2013

Oil Conservation Division
Case No. 9
Exhibit No. 9



DDC Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Owl Draw 23 DM Fed Com #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3172.0usft (Patterson #75)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3172.0usft (Patterson #75)
Site:	Sec 14,T26S, R27E	North Reference:	Grid
Well:	Owl Draw 23 DM Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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,T26S, R27E		
Site Position:		Northing:	376,774.54 usft
From:	Map	Easting:	551,931.04 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 8.725 N
		Longitude:	104° 9' 56.686 W
		Grid Convergence:	0.09 °

Well	Owl Draw 23 DM Fed Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 376,774.54 usft
	+E/-W	0.0 usft	Easting: 551,931.04 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 2' 8.725 N
			Longitude: 104° 9' 56.686 W
			Ground Level: 3,152.0 usft

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

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/21/2013	7.64	59.87	48,270

Design	Design #2		
---------------	-----------	--	--

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	183.41

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	
9,489.1	0.00	0.00	9,489.1	0.0	0.0	0.00	0.00	0.00	0.00	
10,393.0	90.39	183.41	10,062.0	-575.8	-34.3	10.00	10.00	-19.54	183.41	
14,823.5	90.39	183.41	10,032.0	-4,998.4	-298.1	0.00	0.00	0.00	0.00	PBHL owl Draw 23

DDC Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Owl Draw 23 DM Fed Com #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3172.0usft (Patterson #75)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3172.0usft (Patterson #75)
Site:	Sec 14, T26S, R27E	North Reference:	Grid
Well:	Owl Draw 23 DM Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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 10° / 100'									
9,489.1	0.00	0.00	9,489.1	0.0	0.0	0.0	0.00	0.00	0.00
9,500.0	1.09	183.41	9,500.0	-0.1	0.0	0.1	10.00	10.00	0.00
9,600.0	11.09	183.41	9,599.3	-10.7	-0.6	10.7	10.00	10.00	0.00
9,700.0	21.09	183.41	9,695.3	-38.3	-2.3	38.4	10.00	10.00	0.00
9,800.0	31.09	183.41	9,785.0	-82.2	-4.9	82.3	10.00	10.00	0.00
9,900.0	41.09	183.41	9,865.7	-140.9	-8.4	141.1	10.00	10.00	0.00
10,000.0	51.09	183.41	9,934.9	-212.7	-12.7	213.1	10.00	10.00	0.00
10,100.0	61.09	183.41	9,990.7	-295.4	-17.6	296.0	10.00	10.00	0.00
10,200.0	71.09	183.41	10,031.1	-386.6	-23.1	387.3	10.00	10.00	0.00
10,300.0	81.09	183.41	10,055.1	-483.4	-28.8	484.2	10.00	10.00	0.00
EOB @ 90.39° Inc / 183.41° Azm / 10062' TVD									
10,393.0	90.39	183.41	10,062.0	-575.8	-34.3	576.8	10.00	10.00	0.00
10,400.0	90.39	183.41	10,062.0	-582.8	-34.8	583.9	0.00	0.00	0.00
10,500.0	90.39	183.41	10,061.3	-682.6	-40.7	683.9	0.00	0.00	0.00
10,600.0	90.39	183.41	10,060.6	-782.5	-46.7	783.9	0.00	0.00	0.00
10,700.0	90.39	183.41	10,060.0	-882.3	-52.6	883.9	0.00	0.00	0.00
10,800.0	90.39	183.41	10,059.3	-982.1	-58.6	983.8	0.00	0.00	0.00
10,900.0	90.39	183.41	10,058.6	-1,081.9	-64.5	1,083.8	0.00	0.00	0.00
11,000.0	90.39	183.41	10,057.9	-1,181.7	-70.5	1,183.8	0.00	0.00	0.00
11,100.0	90.39	183.41	10,057.3	-1,281.6	-76.4	1,283.8	0.00	0.00	0.00
11,200.0	90.39	183.41	10,056.6	-1,381.4	-82.4	1,383.8	0.00	0.00	0.00
11,300.0	90.39	183.41	10,055.9	-1,481.2	-88.3	1,483.8	0.00	0.00	0.00
11,400.0	90.39	183.41	10,055.2	-1,581.0	-94.3	1,583.8	0.00	0.00	0.00
11,500.0	90.39	183.41	10,054.5	-1,680.8	-100.2	1,683.8	0.00	0.00	0.00
11,600.0	90.39	183.41	10,053.9	-1,780.7	-106.2	1,783.8	0.00	0.00	0.00
11,700.0	90.39	183.41	10,053.2	-1,880.5	-112.2	1,883.8	0.00	0.00	0.00
11,800.0	90.39	183.41	10,052.5	-1,980.3	-118.1	1,983.8	0.00	0.00	0.00
11,900.0	90.39	183.41	10,051.8	-2,080.1	-124.1	2,083.8	0.00	0.00	0.00
12,000.0	90.39	183.41	10,051.1	-2,179.9	-130.0	2,183.8	0.00	0.00	0.00
12,100.0	90.39	183.41	10,050.5	-2,279.8	-136.0	2,283.8	0.00	0.00	0.00
12,200.0	90.39	183.41	10,049.8	-2,379.6	-141.9	2,383.8	0.00	0.00	0.00
12,300.0	90.39	183.41	10,049.1	-2,479.4	-147.9	2,483.8	0.00	0.00	0.00
12,400.0	90.39	183.41	10,048.4	-2,579.2	-153.8	2,583.8	0.00	0.00	0.00
12,500.0	90.39	183.41	10,047.8	-2,679.0	-159.8	2,683.8	0.00	0.00	0.00
12,600.0	90.39	183.41	10,047.1	-2,778.9	-165.7	2,783.8	0.00	0.00	0.00
12,700.0	90.39	183.41	10,046.4	-2,878.7	-171.7	2,883.8	0.00	0.00	0.00
12,800.0	90.39	183.41	10,045.7	-2,978.5	-177.6	2,983.8	0.00	0.00	0.00
12,900.0	90.39	183.41	10,045.0	-3,078.3	-183.6	3,083.8	0.00	0.00	0.00
13,000.0	90.39	183.41	10,044.4	-3,178.2	-189.5	3,183.8	0.00	0.00	0.00
13,100.0	90.39	183.41	10,043.7	-3,278.0	-195.5	3,283.8	0.00	0.00	0.00
13,200.0	90.39	183.41	10,043.0	-3,377.8	-201.4	3,383.8	0.00	0.00	0.00
13,300.0	90.39	183.41	10,042.3	-3,477.6	-207.4	3,483.8	0.00	0.00	0.00
13,400.0	90.39	183.41	10,041.7	-3,577.4	-213.4	3,583.8	0.00	0.00	0.00
13,500.0	90.39	183.41	10,041.0	-3,677.3	-219.3	3,683.8	0.00	0.00	0.00
13,600.0	90.39	183.41	10,040.3	-3,777.1	-225.3	3,783.8	0.00	0.00	0.00
13,700.0	90.39	183.41	10,039.6	-3,876.9	-231.2	3,883.8	0.00	0.00	0.00
13,800.0	90.39	183.41	10,038.9	-3,976.7	-237.2	3,983.8	0.00	0.00	0.00
13,900.0	90.39	183.41	10,038.3	-4,076.5	-243.1	4,083.8	0.00	0.00	0.00
14,000.0	90.39	183.41	10,037.6	-4,176.4	-249.1	4,183.8	0.00	0.00	0.00
14,100.0	90.39	183.41	10,036.9	-4,276.2	-255.0	4,283.8	0.00	0.00	0.00
14,200.0	90.39	183.41	10,036.2	-4,376.0	-261.0	4,383.8	0.00	0.00	0.00
14,300.0	90.39	183.41	10,035.6	-4,475.8	-266.9	4,483.8	0.00	0.00	0.00
14,400.0	90.39	183.41	10,034.9	-4,575.6	-272.9	4,583.8	0.00	0.00	0.00

DDC Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Owl Draw 23 DM Fed Com #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3172.0usft (Patterson #75)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3172.0usft (Patterson #75)
Site:	Sec 14,T26S, R27E	North Reference:	Grid
Well:	Owl Draw 23 DM Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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)
14,500.0	90.39	183.41	10,034.2	-4,675.5	-278.8	4,683.8	0.00	0.00	0.00
14,600.0	90.39	183.41	10,033.5	-4,775.3	-284.8	4,783.8	0.00	0.00	0.00
14,700.0	90.39	183.41	10,032.8	-4,875.1	-290.7	4,883.8	0.00	0.00	0.00
14,800.0	90.39	183.41	10,032.2	-4,974.9	-296.7	4,983.8	0.00	0.00	0.00
TD @ 14824' MD / 10032' TVD									
14,823.5	90.39	183.41	10,032.0	-4,998.4	-298.1	5,007.3	0.00	0.00	0.00

Design Targets

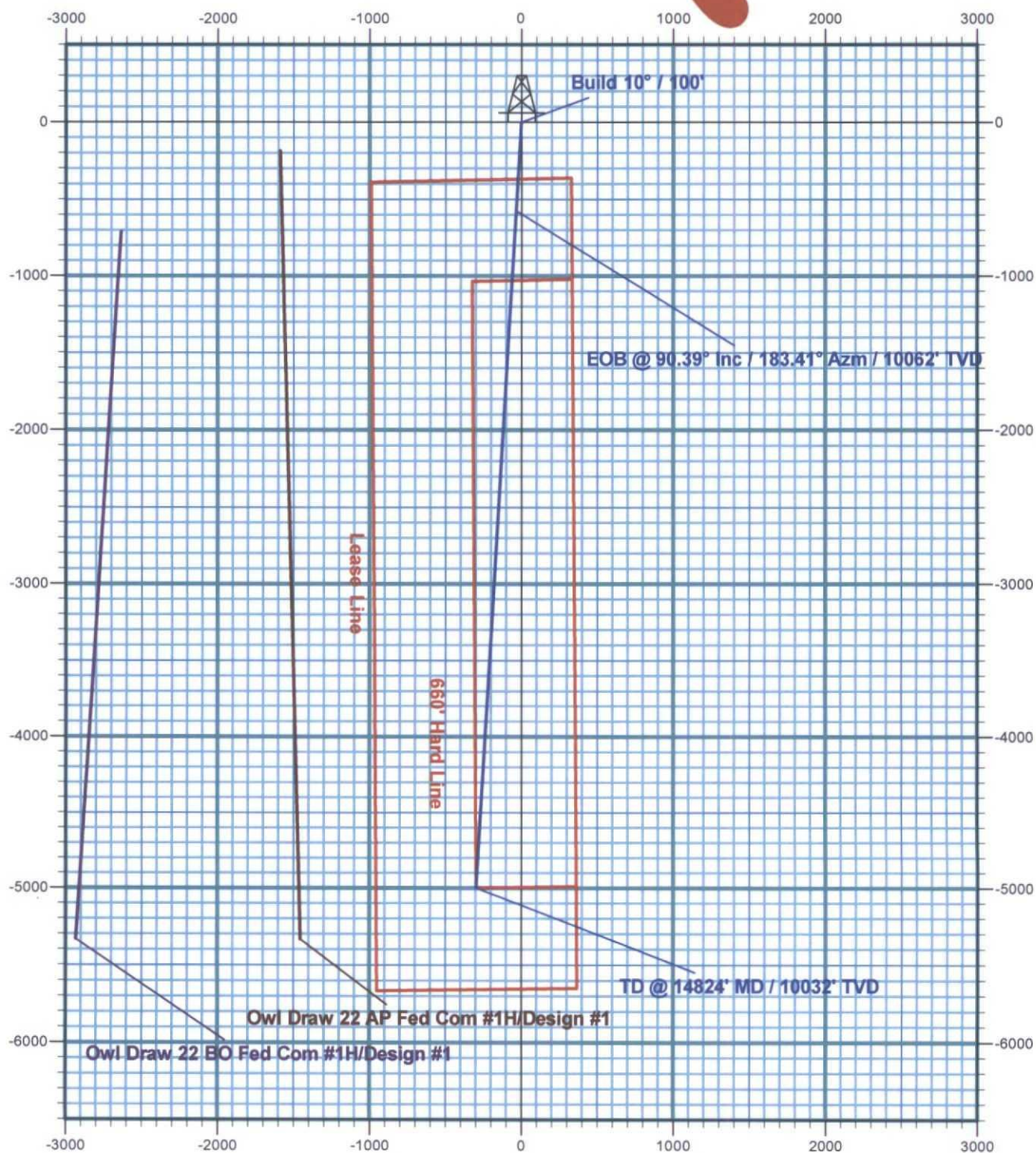
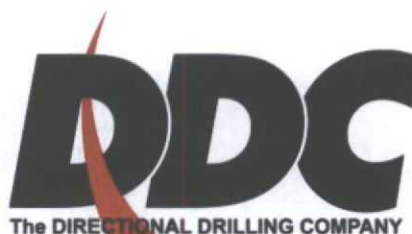
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL owl Draw 23 DI	0.00	0.00	10,032.0	-4,998.4	-298.1	371,776.14	551,632.94	32° 1' 19.262 N	104° 10' 0.238 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,489.1	9,489.1	0.0	0.0	Build 10° / 100'
10,393.0	10,062.0	-575.8	-34.3	EOB @ 90.39° Inc / 183.41° Azm / 10062' TVD
14,823.5	10,032.0	-4,998.4	-298.1	TD @ 14824' MD / 10032' TVD

Mewbourne Oil Company

Eddy County, New Mexico
Owl Draw 23 DM Fed Com #1H
Quote 130197
Design #2



Mewbourne Oil Company

Eddy County, New Mexico
Owl Draw 23 DM Fed Com #1H
Quote 130197
Design #2

