

Mewbourne Oil Co

Eddy County, New Mexico

Section 21-20S-25E

Pine Box 21 MD Fed Com #1H

Wellbore #1

Plan: Design #2

DDC Well Planning Report

17 May, 2011

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 Pine Box 21 MD Fed Com #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3529.0usft (Patterson UTI #101)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3529.0usft (Patterson UTI #101)
Site:	Section 21-20S-25E	North Reference:	Grid
Well:	Pine Box 21 MD 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	Section 21-20S-25E			
Site Position:		Northing:	569,825.22 usft	Latitude: 32° 33' 58.393 N
From: Map		Easting:	410,431.75 usft	Longitude: 104° 37' 26.646 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: -0.16 °

Well	Pine Box 21 MD Fed Com #1H			
Well Position	+N/-S	-5,242.9 usft	Northing:	564,582.29 usft
	+E/-W	39,568.6 usft	Easting:	450,000.34 usft
Position Uncertainty		0.0 usft	Wellhead Elevation:	Ground Level: 3,510.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/17/2011	8.04	60.33	48,716

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	356.49

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	
2,101.0	0.00	0.00	2,101.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,002.3	90.13	356.49	2,674.0	573.2	-35.2	10.00	10.00	-0.39	356.49	
7,300.4	90.13	356.49	2,664.0	4,863.2	-298.2	0.00	0.00	0.00	0.00	PBHL Pine Box 21

DDC

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Pine Box 21 MD Fed Com #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3529.0usft (Patterson UTI #101)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3529.0usft (Patterson UTI #101)
Site:	Section 21-20S-25E	North Reference:	Grid
Well:	Pine Box 21 MD 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)
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' @ 2101' MD									
2,101.0	0.00	0.00	2,101.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	9.90	356.49	2,199.5	8.5	-0.5	8.5	10.00	10.00	0.00
2,300.0	19.90	356.49	2,296.0	34.1	-2.1	34.2	10.00	10.00	0.00
2,400.0	29.90	356.49	2,386.6	76.1	-4.7	76.3	10.00	10.00	0.00
2,500.0	39.90	356.49	2,468.5	133.2	-8.2	133.4	10.00	10.00	0.00
2,600.0	49.90	356.49	2,539.3	203.5	-12.5	203.9	10.00	10.00	0.00
2,700.0	59.90	356.49	2,596.7	285.1	-17.5	285.6	10.00	10.00	0.00
2,800.0	69.90	356.49	2,639.1	375.4	-23.0	376.1	10.00	10.00	0.00
2,900.0	79.90	356.49	2,665.1	471.6	-28.9	472.5	10.00	10.00	0.00
3,000.0	89.90	356.49	2,674.0	570.9	-35.0	572.0	10.00	10.00	0.00
EOB @ 3002' MD / 90.13° Inc / 356.49° Azm / 2674' TVD									
3,002.3	90.13	356.49	2,674.0	573.2	-35.2	574.3	10.00	10.00	0.00
3,100.0	90.13	356.49	2,673.7	670.7	-41.1	672.0	0.00	0.00	0.00
3,200.0	90.13	356.49	2,673.5	770.5	-47.2	772.0	0.00	0.00	0.00
3,300.0	90.13	356.49	2,673.3	870.3	-53.4	872.0	0.00	0.00	0.00
3,400.0	90.13	356.49	2,673.0	970.1	-59.5	972.0	0.00	0.00	0.00
3,500.0	90.13	356.49	2,672.8	1,069.9	-65.6	1,072.0	0.00	0.00	0.00
3,600.0	90.13	356.49	2,672.6	1,169.8	-71.7	1,172.0	0.00	0.00	0.00
3,700.0	90.13	356.49	2,672.3	1,269.6	-77.9	1,272.0	0.00	0.00	0.00
3,800.0	90.13	356.49	2,672.1	1,369.4	-84.0	1,372.0	0.00	0.00	0.00
3,900.0	90.13	356.49	2,671.9	1,469.2	-90.1	1,472.0	0.00	0.00	0.00
4,000.0	90.13	356.49	2,671.6	1,569.0	-96.2	1,572.0	0.00	0.00	0.00
4,100.0	90.13	356.49	2,671.4	1,668.8	-102.3	1,672.0	0.00	0.00	0.00
4,200.0	90.13	356.49	2,671.2	1,768.6	-108.5	1,772.0	0.00	0.00	0.00
4,300.0	90.13	356.49	2,671.0	1,868.4	-114.6	1,872.0	0.00	0.00	0.00
4,400.0	90.13	356.49	2,670.7	1,968.3	-120.7	1,972.0	0.00	0.00	0.00
4,500.0	90.13	356.49	2,670.5	2,068.1	-126.8	2,072.0	0.00	0.00	0.00
4,600.0	90.13	356.49	2,670.3	2,167.9	-132.9	2,172.0	0.00	0.00	0.00
4,700.0	90.13	356.49	2,670.0	2,267.7	-139.1	2,272.0	0.00	0.00	0.00
4,800.0	90.13	356.49	2,669.8	2,367.5	-145.2	2,372.0	0.00	0.00	0.00
4,900.0	90.13	356.49	2,669.6	2,467.3	-151.3	2,472.0	0.00	0.00	0.00

DDC
Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Pine Box 21 MD Fed Com #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3529.0usft (Patterson UTI #101)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3529.0usft (Patterson UTI #101)
Site:	Section 21-20S-25E	North Reference:	Grid
Well:	Pine Box 21 MD 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)
5,000.0	90.13	356.49	2,669.3	2,567.1	-157.4	2,572.0	0.00	0.00	0.00
5,100.0	90.13	356.49	2,669.1	2,666.9	-163.5	2,672.0	0.00	0.00	0.00
5,200.0	90.13	356.49	2,668.9	2,766.8	-169.7	2,772.0	0.00	0.00	0.00
5,300.0	90.13	356.49	2,668.6	2,866.6	-175.8	2,872.0	0.00	0.00	0.00
5,400.0	90.13	356.49	2,668.4	2,966.4	-181.9	2,972.0	0.00	0.00	0.00
5,500.0	90.13	356.49	2,668.2	3,066.2	-188.0	3,072.0	0.00	0.00	0.00
5,600.0	90.13	356.49	2,667.9	3,166.0	-194.1	3,172.0	0.00	0.00	0.00
5,700.0	90.13	356.49	2,667.7	3,265.8	-200.3	3,272.0	0.00	0.00	0.00
5,800.0	90.13	356.49	2,667.5	3,365.6	-206.4	3,372.0	0.00	0.00	0.00
5,900.0	90.13	356.49	2,667.2	3,465.4	-212.5	3,471.9	0.00	0.00	0.00
6,000.0	90.13	356.49	2,667.0	3,565.3	-218.6	3,571.9	0.00	0.00	0.00
6,100.0	90.13	356.49	2,666.8	3,665.1	-224.8	3,671.9	0.00	0.00	0.00
6,200.0	90.13	356.49	2,666.5	3,764.9	-230.9	3,771.9	0.00	0.00	0.00
6,300.0	90.13	356.49	2,666.3	3,864.7	-237.0	3,871.9	0.00	0.00	0.00
6,400.0	90.13	356.49	2,666.1	3,964.5	-243.1	3,971.9	0.00	0.00	0.00
6,500.0	90.13	356.49	2,665.9	4,064.3	-249.2	4,071.9	0.00	0.00	0.00
6,600.0	90.13	356.49	2,665.6	4,164.1	-255.4	4,171.9	0.00	0.00	0.00
6,700.0	90.13	356.49	2,665.4	4,263.9	-261.5	4,271.9	0.00	0.00	0.00
6,800.0	90.13	356.49	2,665.2	4,363.8	-267.6	4,371.9	0.00	0.00	0.00
6,900.0	90.13	356.49	2,664.9	4,463.6	-273.7	4,471.9	0.00	0.00	0.00
7,000.0	90.13	356.49	2,664.7	4,563.4	-279.8	4,571.9	0.00	0.00	0.00
7,100.0	90.13	356.49	2,664.5	4,663.2	-286.0	4,671.9	0.00	0.00	0.00
7,200.0	90.13	356.49	2,664.2	4,763.0	-292.1	4,771.9	0.00	0.00	0.00
7,300.0	90.13	356.49	2,664.0	4,862.8	-298.2	4,871.9	0.00	0.00	0.00
TD @ 7300' MD / 2664' TVD									
7,300.4	90.13	356.49	2,664.0	4,863.2	-298.2	4,872.3	0.00	0.00	0.00

Design Targets

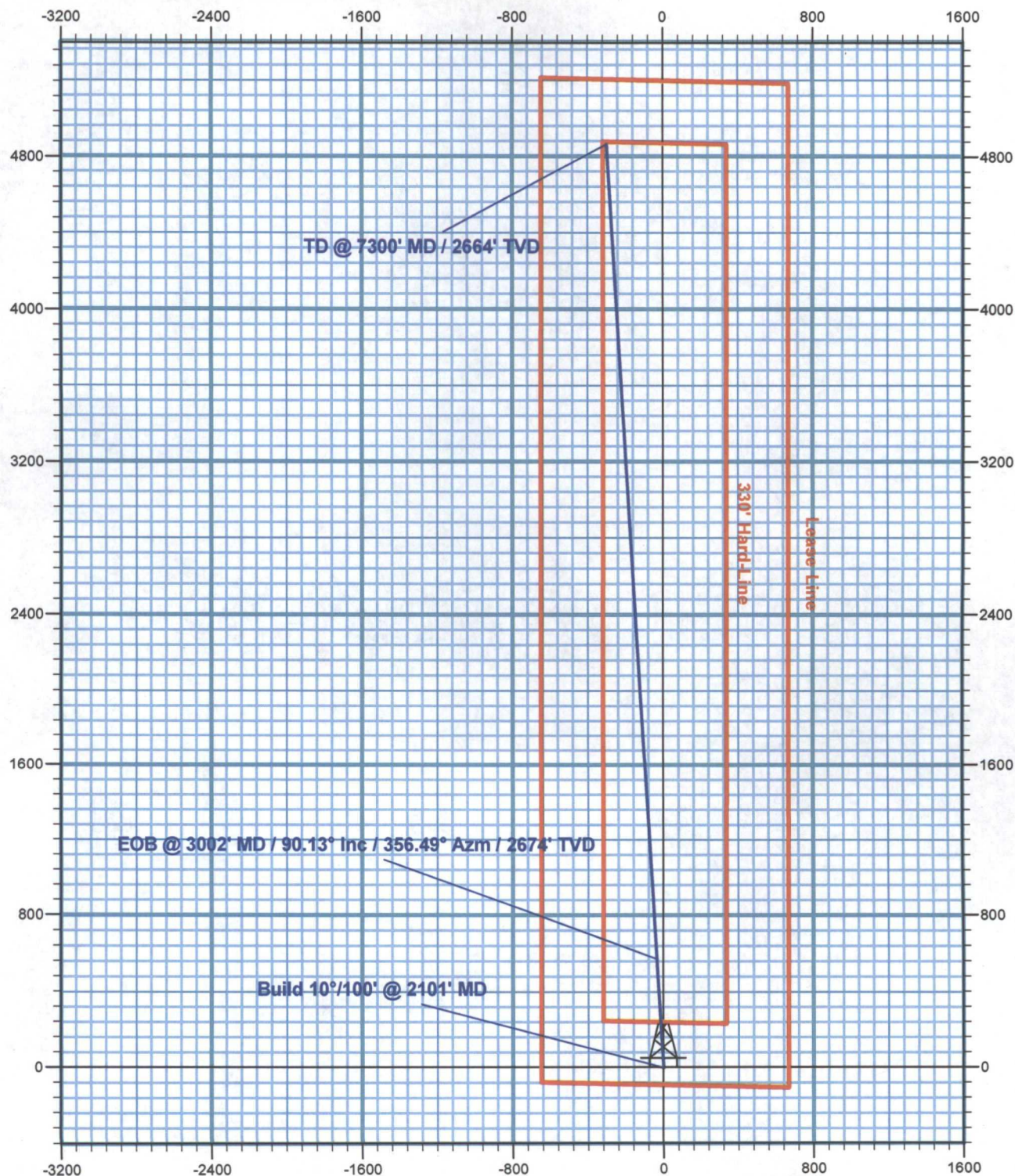
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL Pine Box 21 MI	0.00	0.00	2,664.0	4,863.2	-298.2	569,445.46	449,702.12	32° 33' 55.464 N	104° 29' 47.749 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,101.0	2,101.0	0.0	0.0	Build 10°/100' @ 2101' MD
3,002.3	2,674.0	573.2	-35.2	EOB @ 3002' MD / 90.13° Inc / 356.49° Azm / 2674' TVD
7,300.4	2,664.0	4,863.2	-298.2	TD @ 7300' MD / 2664' TVD

Mewbourne Oil Company

Eddy County, New Mexico
Pine Box 21 MD Fed Com #1H
Quote 110334



Mewbourne Oil Company



Eddy County, New Mexico

Pine Box 21 MD Fed Com #1H

Quote 110334

