

Mewbourne Oil Co

Eddy, New Mexico

Sec 5/8-20S-25E

West Draw 5-8 PH Federal Com #1H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

28 October, 2010



BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

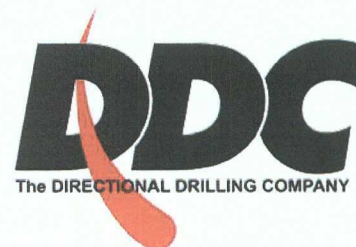
Case No. 14595 Exhibit No. 9

Submitted by:

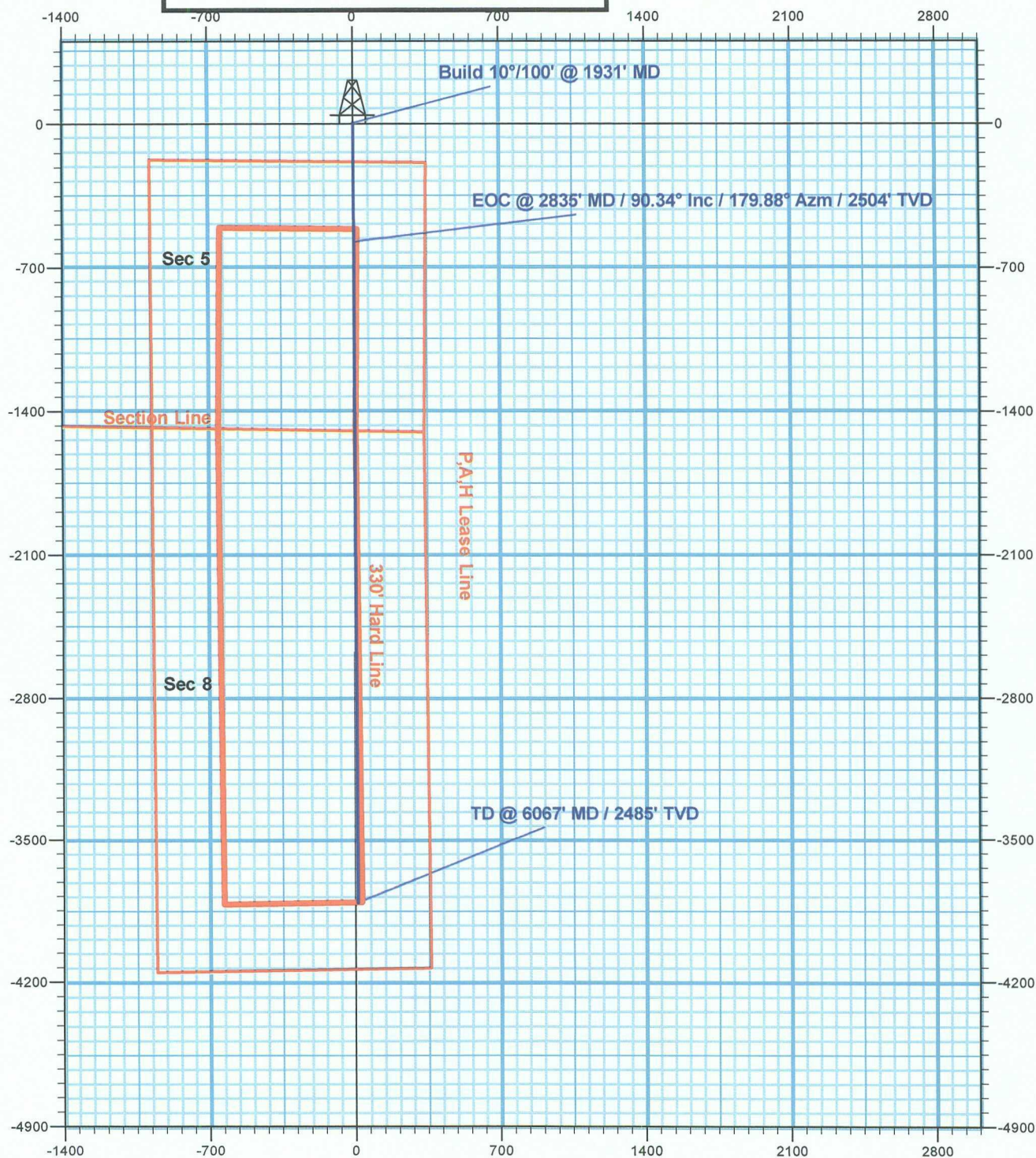
MEWBOURNE OIL COMPANY

Hearing Date: March 3, 2011

Mewbourne Oil Company



Eddy, New Mexico
West Draw 5-8 PH Federal Com #1H
Quote 100748



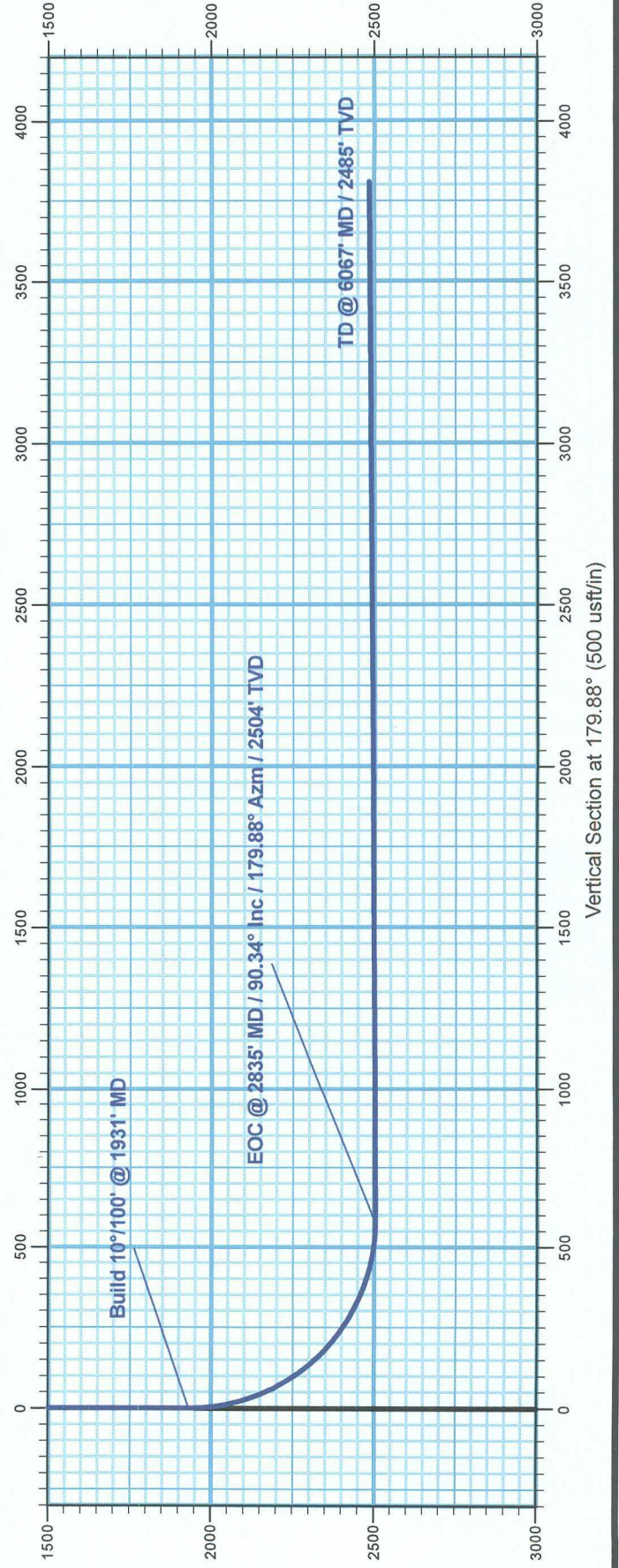
Mewbourne Oil Company



Eddy, New Mexico

West Draw 5-8 PH Federal Com #1H

Quote 100748



DDC

Well Planning Report



Database: EDM 5000.1 Single User Db
Company: Mewbourne Oil Co
Project: Eddy, New Mexico
Site: Sec 5/8-20S-25E
Well: West Draw 5-8 PH Federal Com #1H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well West Draw 5-8 PH Federal Com #1H
TVD Reference: WELL @ 3515.0usft (Patterson UTI #101)
MD Reference: WELL @ 3515.0usft (Patterson UTI #101)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Eddy, 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 5/8-20S-25E				
Site Position:		Northing:	581,788.42 usft	Latitude:	32° 35' 57.595 N
From:	Map	Easting:	448,939.93 usft	Longitude:	104° 29' 56.881 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.09 °

Well	West Draw 5-8 PH Federal Com #1H					
Well Position	+N/-S	0.0 usft	Northing:	581,788.42 usft	Latitude:	32° 35' 57.595 N
	+E/-W	0.0 usft	Easting:	448,939.93 usft	Longitude:	104° 29' 56.881 W
Position Uncertainty	0.0 usft		Wellhead Elevation:		Ground Level:	3,496.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/27/2010	8.10	60.41	48,834

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	179.88	

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	
1,931.1	0.00	0.00	1,931.1	0.0	0.0	0.00	0.00	0.00	0.00	
2,834.5	90.34	179.88	2,504.0	-576.3	1.2	10.00	10.00	19.91	179.88	
6,067.2	90.34	179.88	2,485.0	-3,808.9	8.2	0.00	0.00	0.00	0.00	PBHL West Draw 5

DDC

Well Planning Report



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MD Reference: WELL @ 3515.0usft (Patterson UTI #101)
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)
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
Build 10°/100' @ 1931' MD									
1,931.1	0.00	0.00	1,931.1	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	6.89	179.88	1,999.8	-4.1	0.0	4.1	10.00	10.00	0.00
2,100.0	16.89	179.88	2,097.6	-24.7	0.1	24.7	10.00	10.00	0.00
2,200.0	26.89	179.88	2,190.2	-62.0	0.1	62.0	10.00	10.00	0.00
2,300.0	36.89	179.88	2,275.0	-114.7	0.2	114.7	10.00	10.00	0.00
2,400.0	46.89	179.88	2,349.4	-181.4	0.4	181.4	10.00	10.00	0.00
2,500.0	56.89	179.88	2,411.0	-260.0	0.6	260.0	10.00	10.00	0.00
2,600.0	66.89	179.88	2,458.1	-348.1	0.8	348.1	10.00	10.00	0.00
2,700.0	76.89	179.88	2,489.1	-443.0	1.0	443.0	10.00	10.00	0.00
2,800.0	86.89	179.88	2,503.2	-541.9	1.2	541.9	10.00	10.00	0.00
EOC @ 2835' MD / 90.34° Inc / 179.88° Azm / 2504' TVD									
2,834.5	90.34	179.88	2,504.0	-576.3	1.2	576.3	10.00	10.00	0.00
2,900.0	90.34	179.88	2,503.7	-641.9	1.4	641.9	0.00	0.00	0.00
3,000.0	90.34	179.88	2,503.1	-741.9	1.6	741.9	0.00	0.00	0.00
3,100.0	90.34	179.88	2,502.5	-841.9	1.8	841.9	0.00	0.00	0.00
3,200.0	90.34	179.88	2,501.9	-941.8	2.0	941.9	0.00	0.00	0.00
3,300.0	90.34	179.88	2,501.3	-1,041.8	2.3	1,041.8	0.00	0.00	0.00
3,400.0	90.34	179.88	2,500.7	-1,141.8	2.5	1,141.8	0.00	0.00	0.00
3,500.0	90.34	179.88	2,500.1	-1,241.8	2.7	1,241.8	0.00	0.00	0.00
3,600.0	90.34	179.88	2,499.5	-1,341.8	2.9	1,341.8	0.00	0.00	0.00
3,700.0	90.34	179.88	2,498.9	-1,441.8	3.1	1,441.8	0.00	0.00	0.00
3,800.0	90.34	179.88	2,498.4	-1,541.8	3.3	1,541.8	0.00	0.00	0.00
3,900.0	90.34	179.88	2,497.8	-1,641.8	3.6	1,641.8	0.00	0.00	0.00
4,000.0	90.34	179.88	2,497.2	-1,741.8	3.8	1,741.8	0.00	0.00	0.00
4,100.0	90.34	179.88	2,496.6	-1,841.8	4.0	1,841.8	0.00	0.00	0.00
4,200.0	90.34	179.88	2,496.0	-1,941.8	4.2	1,941.8	0.00	0.00	0.00
4,300.0	90.34	179.88	2,495.4	-2,041.8	4.4	2,041.8	0.00	0.00	0.00
4,400.0	90.34	179.88	2,494.8	-2,141.8	4.6	2,141.8	0.00	0.00	0.00
4,500.0	90.34	179.88	2,494.2	-2,241.8	4.9	2,241.8	0.00	0.00	0.00
4,600.0	90.34	179.88	2,493.6	-2,341.8	5.1	2,341.8	0.00	0.00	0.00
4,700.0	90.34	179.88	2,493.1	-2,441.8	5.3	2,441.8	0.00	0.00	0.00
4,800.0	90.34	179.88	2,492.5	-2,541.8	5.5	2,541.8	0.00	0.00	0.00
4,900.0	90.34	179.88	2,491.9	-2,641.8	5.7	2,641.8	0.00	0.00	0.00

DDC

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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	90.34	179.88	2,491.3	-2,741.8	5.9	2,741.8	0.00	0.00	0.00
5,100.0	90.34	179.88	2,490.7	-2,841.8	6.2	2,841.8	0.00	0.00	0.00
5,200.0	90.34	179.88	2,490.1	-2,941.8	6.4	2,941.8	0.00	0.00	0.00
5,300.0	90.34	179.88	2,489.5	-3,041.8	6.6	3,041.8	0.00	0.00	0.00
5,400.0	90.34	179.88	2,488.9	-3,141.8	6.8	3,141.8	0.00	0.00	0.00
5,500.0	90.34	179.88	2,488.3	-3,241.8	7.0	3,241.8	0.00	0.00	0.00
5,600.0	90.34	179.88	2,487.8	-3,341.8	7.2	3,341.8	0.00	0.00	0.00
5,700.0	90.34	179.88	2,487.2	-3,441.8	7.5	3,441.8	0.00	0.00	0.00
5,800.0	90.34	179.88	2,486.6	-3,541.8	7.7	3,541.8	0.00	0.00	0.00
5,900.0	90.34	179.88	2,486.0	-3,641.8	7.9	3,641.8	0.00	0.00	0.00
6,000.0	90.34	179.88	2,485.4	-3,741.8	8.1	3,741.8	0.00	0.00	0.00
TD @ 6067' MD / 2485' TVD									
6,067.2	90.34	179.88	2,485.0	-3,808.9	8.2	3,809.0	0.00	0.00	0.00

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL West Draw 5-8 - plan hits target center - Point	0.00	360.00	2,485.0	-3,808.9	8.2	577,979.47	448,948.17	32° 35' 19.903 N	104° 29' 56.715 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,931.1	1,931.1	0.0	0.0	Build 10°/100' @ 1931' MD
2,834.5	2,504.0	-576.3	1.2	EOC @ 2835' MD / 90.34° Inc / 179.88° Azm / 2504' TVD
6,067.2	2,485.0	-3,808.9	8.2	TD @ 6067' MD / 2485' TVD