

Mewbourne Oil Company

Eddy County, New Mexico

Pavo Macho 31 B2MP Fed #1H

Sec 31, T18S, R29E

SL: 450' FSL & 215' FWL

BHL: 450' FSL & 330' FEL

Plan: Design #1

Standard Planning Report

18 September, 2015

Oil Conservation Division

Case No. _____

Exhibit No. 11

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pavo Macho 31 B2MP Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3414.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3414.0usft (Original Well Elev)
Site:	Pavo Macho 31 B2MP Fed #1H	North Reference:	Grid
Well:	Sec 31, T18S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 450' FSL & 330' FEL		
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	Pavo Macho 31 B2MP Fed #1H				
Site Position:	Map	Northing:	617,902.00 usft	Latitude:	32° 41' 54.710 N
From:	Map	Easting:	565,414.00 usft	Longitude:	104° 7' 14.481 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.11°

Well	Sec 31, T18S, R29E					
Well Position	+N/-S	0.0 usft	Northing:	617,902.00 usft	Latitude:	32° 41' 54.710 N
	+E/-W	0.0 usft	Easting:	565,414.00 usft	Longitude:	104° 7' 14.481 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,414.0 usft	Ground Level:	3,389.0 usft	

Wellbore	BHL: 450' FSL & 330' FEL				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	8.04	60.58	49,017

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	90.86

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	
7,108.5	0.00	0.00	7,108.5	0.0	0.0	0.00	0.00	0.00	0.00	
7,846.8	88.57	90.86	7,586.0	-7.0	465.6	12.00	12.00	0.00	90.86	
11,887.9	88.57	90.86	7,687.0	-68.0	4,505.0	0.00	0.00	0.00	0.00	BHL: 450' FSL & 330'

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Eddy County, New Mexico
 Site: Pavo Macho 31 B2MP Fed #1H
 Well: Sec 31, T18S, R29E
 Wellbore: BHL: 450' FSL & 330' FEL
 Design: Design #1

Local Co-ordinate Reference: Site Pavo Macho 31 B2MP Fed #1H
 TVD Reference: WELL @ 3414.0usft (Original Well Elev)
 MD Reference: WELL @ 3414.0usft (Original Well Elev)
 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
SL: 450' FSL & 215' FWL									
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

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Eddy County, New Mexico
 Site: Pavo Macho 31 B2MP Fed #1H
 Well: Sec 31, T18S, R29E
 Wellbore: BHL: 450' FSL & 330' FEL
 Design: Design #1

Local Co-ordinate Reference: Site Pavo Macho 31 B2MP Fed #1H
 TVD Reference: WELL @ 3414.0usft (Original Well Elev)
 MD Reference: WELL @ 3414.0usft (Original Well Elev)
 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)	
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
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	
7,108.5	0.00	0.00	7,108.5	0.0	0.0	0.0	0.00	0.00	0.00	
KOP @ 7108'										
7,200.0	10.97	90.86	7,199.4	-0.1	8.7	8.7	12.00	12.00	0.00	
7,300.0	22.97	90.86	7,294.9	-0.6	37.9	37.9	12.00	12.00	0.00	
7,400.0	34.96	90.86	7,382.2	-1.3	86.2	86.2	12.00	12.00	0.00	
7,447.0	40.61	90.86	7,419.4	-1.7	115.0	115.0	12.00	12.00	0.00	
First Take Point: 450' FSL & 330' FWL										
7,500.0	46.96	90.86	7,457.6	-2.3	151.6	151.6	12.00	12.00	0.00	
7,600.0	58.96	90.86	7,517.7	-3.5	231.3	231.3	12.00	12.00	0.00	
7,700.0	70.95	90.86	7,560.0	-4.9	321.7	321.8	12.00	12.00	0.00	
7,800.0	82.95	90.86	7,582.5	-6.3	418.9	419.0	12.00	12.00	0.00	
7,846.8	88.57	90.86	7,586.0	-7.0	465.6	465.7	12.00	12.00	0.00	
LP: 450' FSL & 680' FWL										
7,900.0	88.57	90.86	7,587.3	-7.8	518.8	518.8	0.00	0.00	0.00	
8,000.0	88.57	90.86	7,589.8	-9.3	618.7	618.8	0.00	0.00	0.00	
8,100.0	88.57	90.86	7,592.3	-10.8	718.7	718.8	0.00	0.00	0.00	
8,200.0	88.57	90.86	7,594.8	-12.4	818.6	818.7	0.00	0.00	0.00	
8,300.0	88.57	90.86	7,597.3	-13.9	918.6	918.7	0.00	0.00	0.00	
8,400.0	88.57	90.86	7,599.8	-15.4	1,018.6	1,018.7	0.00	0.00	0.00	
8,500.0	88.57	90.86	7,602.3	-16.9	1,118.5	1,118.6	0.00	0.00	0.00	
8,600.0	88.57	90.86	7,604.8	-18.4	1,218.5	1,218.6	0.00	0.00	0.00	
8,700.0	88.57	90.86	7,607.3	-19.9	1,318.4	1,318.6	0.00	0.00	0.00	
8,800.0	88.57	90.86	7,609.8	-21.4	1,418.4	1,418.5	0.00	0.00	0.00	
8,900.0	88.57	90.86	7,612.3	-22.9	1,518.3	1,518.5	0.00	0.00	0.00	
9,000.0	88.57	90.86	7,614.8	-24.4	1,618.3	1,618.5	0.00	0.00	0.00	
9,100.0	88.57	90.86	7,617.3	-25.9	1,718.3	1,718.5	0.00	0.00	0.00	
9,200.0	88.57	90.86	7,619.8	-27.4	1,818.2	1,818.4	0.00	0.00	0.00	
9,300.0	88.57	90.86	7,622.3	-29.0	1,918.2	1,918.4	0.00	0.00	0.00	
9,400.0	88.57	90.86	7,624.8	-30.5	2,018.1	2,018.4	0.00	0.00	0.00	
9,500.0	88.57	90.86	7,627.3	-32.0	2,118.1	2,118.3	0.00	0.00	0.00	
9,600.0	88.57	90.86	7,629.8	-33.5	2,218.0	2,218.3	0.00	0.00	0.00	
9,700.0	88.57	90.86	7,632.3	-35.0	2,318.0	2,318.3	0.00	0.00	0.00	
9,800.0	88.57	90.86	7,634.8	-36.5	2,418.0	2,418.2	0.00	0.00	0.00	
9,900.0	88.57	90.86	7,637.3	-38.0	2,517.9	2,518.2	0.00	0.00	0.00	

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Eddy County, New Mexico
 Site: Pavo Macho 31 B2MP Fed #1H
 Well: Sec 31, T18S, R29E
 Wellbore: BHL: 450' FSL & 330' FEL
 Design: Design #1

Local Co-ordinate Reference: Site Pavo Macho 31 B2MP Fed #1H
 TVD Reference: WELL @ 3414.0usft (Original Well Elev)
 MD Reference: WELL @ 3414.0usft (Original Well Elev)
 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)
10,000.0	88.57	90.86	7,639.8	-39.5	2,617.9	2,618.2	0.00	0.00	0.00
10,100.0	88.57	90.86	7,642.3	-41.0	2,717.8	2,718.1	0.00	0.00	0.00
10,200.0	88.57	90.86	7,644.8	-42.5	2,817.8	2,818.1	0.00	0.00	0.00
10,300.0	88.57	90.86	7,647.3	-44.0	2,917.7	2,918.1	0.00	0.00	0.00
10,400.0	88.57	90.86	7,649.8	-45.6	3,017.7	3,018.0	0.00	0.00	0.00
10,500.0	88.57	90.86	7,652.3	-47.1	3,117.7	3,118.0	0.00	0.00	0.00
10,600.0	88.57	90.86	7,654.8	-48.6	3,217.6	3,218.0	0.00	0.00	0.00
10,700.0	88.57	90.86	7,657.3	-50.1	3,317.6	3,318.0	0.00	0.00	0.00
10,800.0	88.57	90.86	7,659.8	-51.6	3,417.5	3,417.9	0.00	0.00	0.00
10,900.0	88.57	90.86	7,662.3	-53.1	3,517.5	3,517.9	0.00	0.00	0.00
11,000.0	88.57	90.86	7,664.8	-54.6	3,617.4	3,617.9	0.00	0.00	0.00
11,100.0	88.57	90.86	7,667.3	-56.1	3,717.4	3,717.8	0.00	0.00	0.00
11,200.0	88.57	90.86	7,669.8	-57.6	3,817.4	3,817.8	0.00	0.00	0.00
11,300.0	88.57	90.86	7,672.3	-59.1	3,917.3	3,917.8	0.00	0.00	0.00
11,400.0	88.57	90.86	7,674.8	-60.6	4,017.3	4,017.7	0.00	0.00	0.00
11,500.0	88.57	90.86	7,677.3	-62.1	4,117.2	4,117.7	0.00	0.00	0.00
11,600.0	88.57	90.86	7,679.8	-63.7	4,217.2	4,217.7	0.00	0.00	0.00
11,700.0	88.57	90.86	7,682.3	-65.2	4,317.1	4,317.6	0.00	0.00	0.00
11,800.0	88.57	90.86	7,684.8	-66.7	4,417.1	4,417.6	0.00	0.00	0.00
11,887.9	88.57	90.86	7,687.0	-68.0	4,505.0	4,505.5	0.00	0.00	0.00

BHL: 450' FSL & 330' FEL

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									
SL: 450' FSL & 215' FWM - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	617,902.00	565,414.00	32° 41' 54.710 N	104° 7' 14.481 W
KOP @ 7109' - plan hits target center - Point	0.00	0.00	7,108.5	0.0	0.0	617,902.00	565,414.00	32° 41' 54.710 N	104° 7' 14.481 W
First Take Point: 450' FS - plan hits target center - Point	0.00	0.00	7,419.4	-1.7	115.0	617,900.27	565,529.00	32° 41' 54.690 N	104° 7' 13.135 W
LP: 450' FSL & 680' FWM - plan hits target center - Point	0.00	0.00	7,586.0	-7.0	465.6	617,895.00	565,879.60	32° 41' 54.631 N	104° 7' 9.032 W
BHL: 450' FSL & 330' FE - plan hits target center - Point	0.00	0.00	7,687.0	-68.0	4,505.0	617,834.00	569,919.00	32° 41' 53.945 N	104° 6' 21.762 W

