

HOF 73 COD

APR 18 2016

RECEIVED

Mewbourne Oil Company

Lea County, New Mexico

Pepper Ridge 15 A3CN Fed Com #1H

Sec 15, T26S, R33E

SL: 185' FNL & 2250' FWL

BHL: 330' FSL & 2250' FWL

Plan: Design #1

Standard Planning Report

04 January, 2016

APR 22 2016

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pepper Ridge 15 A3CN Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3328.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3328.0usft (Original Well Elev)
Site:	Pepper Ridge 15 A3CN Fed Com #1H	North Reference:	Grid
Well:	Sec 15, T26S, R33E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2250' FWL		
Design:	Design #1		

Project:	Lea 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: Pepper Ridge 15 A3CN Fed Com #1H					
Site Position:		Northing:	382,809.00 usft	Latitude:	32° 3' 0.375 N
From:	Map	Easting:	739,292.00 usft	Longitude:	103° 33' 39.602 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well	Sec 15, T26S, R33E				
Well Position	+N/-S	0.0 usft	Northing:	382,809.00 usft	Latitude: 32° 3' 0.375 N
	+E/-W	0.0 usft	Easting:	739,292.00 usft	Longitude: 103° 33' 39.602 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,328.0 usft	Ground Level: 3,301.0 usft

Wellbore	BHL: 330' FSL & 2250' FWL				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/4/2016	7.01	59.91	48,058

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	179.54

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	
9,415.0	0.00	0.00	9,415.0	0.0	0.0	0.00	0.00	0.00	0.00	
10,308.3	89.32	179.54	9,988.0	-566.2	4.5	10.00	10.00	0.00	179.54	
14,510.6	89.32	179.54	10,038.0	-4,768.0	38.0	0.00	0.00	0.00	0.00	BHL: 330' FSL & 225'

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Site:	Pepper Ridge 15 A3CN Fed Com #1H	North Reference:	Grid
Well:	Sec 15, T26S, R33E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2250' FWL		
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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
SL: 185' FNL & 2250' 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	

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Site:	Pepper Ridge 15 A3CN Fed Com #1H	North Reference:	Grid
Well:	Sec 15, T26S, R33E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2250' FWL		
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)
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
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,415.0	0.00	0.00	9,415.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 9415'									
9,500.0	8.50	179.54	9,499.7	-6.3	0.1	6.3	10.00	10.00	0.00
9,600.0	18.49	179.54	9,596.8	-29.6	0.2	29.6	10.00	10.00	0.00
9,700.0	28.49	179.54	9,688.4	-69.4	0.6	69.4	10.00	10.00	0.00
9,800.0	38.49	179.54	9,771.7	-124.5	1.0	124.5	10.00	10.00	0.00
9,831.8	41.67	179.54	9,796.0	-145.0	1.2	145.0	10.00	10.00	0.00
First Take Point: 330' FNL & 2250' FWL									
9,900.0	48.49	179.54	9,844.1	-193.3	1.5	193.3	10.00	10.00	0.00
10,000.0	58.49	179.54	9,903.6	-273.5	2.2	273.5	10.00	10.00	0.00
10,100.0	68.49	179.54	9,948.1	-362.9	2.9	362.9	10.00	10.00	0.00
10,200.0	78.49	179.54	9,976.5	-458.7	3.7	458.7	10.00	10.00	0.00

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Wellbore:	BHL: 330' FSL & 2250' FWL		
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)
10,300.0	88.49	179.54	9,987.8	-557.9	4.4	557.9	10.00	10.00	0.00
10,308.3	89.32	179.54	9,988.0	-566.2	4.5	566.2	9.96	9.96	0.00
LP: 751' FNL & 2250' FWL									
10,400.0	89.32	179.54	9,989.1	-657.9	5.2	657.9	0.00	0.00	0.00
10,500.0	89.32	179.54	9,990.3	-757.9	6.0	757.9	0.00	0.00	0.00
10,600.0	89.32	179.54	9,991.5	-857.8	6.8	857.9	0.00	0.00	0.00
10,700.0	89.32	179.54	9,992.7	-957.8	7.6	957.9	0.00	0.00	0.00
10,800.0	89.32	179.54	9,993.9	-1,057.8	8.4	1,057.9	0.00	0.00	0.00
10,900.0	89.32	179.54	9,995.0	-1,157.8	9.2	1,157.9	0.00	0.00	0.00
11,000.0	89.32	179.54	9,996.2	-1,257.8	10.0	1,257.8	0.00	0.00	0.00
11,100.0	89.32	179.54	9,997.4	-1,357.8	10.8	1,357.8	0.00	0.00	0.00
11,200.0	89.32	179.54	9,998.6	-1,457.8	11.6	1,457.8	0.00	0.00	0.00
11,300.0	89.32	179.54	9,999.8	-1,557.8	12.4	1,557.8	0.00	0.00	0.00
11,400.0	89.32	179.54	10,001.0	-1,657.8	13.2	1,657.8	0.00	0.00	0.00
11,500.0	89.32	179.54	10,002.2	-1,757.8	14.0	1,757.8	0.00	0.00	0.00
11,600.0	89.32	179.54	10,003.4	-1,857.7	14.8	1,857.8	0.00	0.00	0.00
11,700.0	89.32	179.54	10,004.6	-1,957.7	15.6	1,957.8	0.00	0.00	0.00
11,800.0	89.32	179.54	10,005.7	-2,057.7	16.4	2,057.8	0.00	0.00	0.00
11,900.0	89.32	179.54	10,006.9	-2,157.7	17.2	2,157.8	0.00	0.00	0.00
12,000.0	89.32	179.54	10,008.1	-2,257.7	18.0	2,257.8	0.00	0.00	0.00
12,100.0	89.32	179.54	10,009.3	-2,357.7	18.8	2,357.8	0.00	0.00	0.00
12,200.0	89.32	179.54	10,010.5	-2,457.7	19.6	2,457.8	0.00	0.00	0.00
12,300.0	89.32	179.54	10,011.7	-2,557.7	20.4	2,557.8	0.00	0.00	0.00
12,400.0	89.32	179.54	10,012.9	-2,657.7	21.2	2,657.7	0.00	0.00	0.00
12,500.0	89.32	179.54	10,014.1	-2,757.7	22.0	2,757.7	0.00	0.00	0.00
12,600.0	89.32	179.54	10,015.3	-2,857.6	22.8	2,857.7	0.00	0.00	0.00
12,700.0	89.32	179.54	10,016.5	-2,957.6	23.6	2,957.7	0.00	0.00	0.00
12,800.0	89.32	179.54	10,017.6	-3,057.6	24.4	3,057.7	0.00	0.00	0.00
12,900.0	89.32	179.54	10,018.8	-3,157.6	25.2	3,157.7	0.00	0.00	0.00
13,000.0	89.32	179.54	10,020.0	-3,257.6	26.0	3,257.7	0.00	0.00	0.00
13,100.0	89.32	179.54	10,021.2	-3,357.6	26.8	3,357.7	0.00	0.00	0.00
13,200.0	89.32	179.54	10,022.4	-3,457.6	27.6	3,457.7	0.00	0.00	0.00
13,300.0	89.32	179.54	10,023.6	-3,557.6	28.4	3,557.7	0.00	0.00	0.00
13,400.0	89.32	179.54	10,024.8	-3,657.6	29.2	3,657.7	0.00	0.00	0.00
13,500.0	89.32	179.54	10,026.0	-3,757.5	29.9	3,757.7	0.00	0.00	0.00
13,600.0	89.32	179.54	10,027.2	-3,857.5	30.7	3,857.7	0.00	0.00	0.00
13,700.0	89.32	179.54	10,028.4	-3,957.5	31.5	3,957.7	0.00	0.00	0.00
13,800.0	89.32	179.54	10,029.5	-4,057.5	32.3	4,057.6	0.00	0.00	0.00
13,900.0	89.32	179.54	10,030.7	-4,157.5	33.1	4,157.6	0.00	0.00	0.00
14,000.0	89.32	179.54	10,031.9	-4,257.5	33.9	4,257.6	0.00	0.00	0.00
14,100.0	89.32	179.54	10,033.1	-4,357.5	34.7	4,357.6	0.00	0.00	0.00
14,200.0	89.32	179.54	10,034.3	-4,457.5	35.5	4,457.6	0.00	0.00	0.00
14,300.0	89.32	179.54	10,035.5	-4,557.5	36.3	4,557.6	0.00	0.00	0.00
14,400.0	89.32	179.54	10,036.7	-4,657.5	37.1	4,657.6	0.00	0.00	0.00
14,500.0	89.32	179.54	10,037.9	-4,757.4	37.9	4,757.6	0.00	0.00	0.00
14,510.6	89.32	179.54	10,038.0	-4,768.0	38.0	4,768.2	0.00	0.00	0.00
BHL: 330' FSL & 2250' FWL									

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pepper Ridge 15 A3CN Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3328.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3328.0usft (Original Well Elev)
Site:	Pepper Ridge 15 A3CN Fed Com #1H	North Reference:	Grid
Well:	Sec 15, T26S, R33E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2250' FWL		
Design:	Design #1		

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
SL: 185' FNL & 2250' FV - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	382,809.00	739,292.00	32° 3' 0.375 N	103° 33' 39.602 W
KOP @ 9415' - plan hits target center - Point	0.00	0.00	9,415.0	0.0	0.0	382,809.00	739,292.00	32° 3' 0.375 N	103° 33' 39.602 W
First Take Point: 330' FN - plan hits target center - Point	0.00	0.00	9,796.0	-145.0	1.2	382,664.00	739,293.15	32° 2' 58.940 N	103° 33' 39.600 W
LP: 751' FNL & 2250' FV - plan hits target center - Point	0.00	0.00	9,988.0	-566.2	4.5	382,242.80	739,296.50	32° 2' 54.771 N	103° 33' 39.596 W
BHL: 330' FSL & 2250' F - plan hits target center - Point	0.00	0.00	10,038.0	-4,768.0	38.0	378,041.00	739,330.00	32° 2' 13.189 N	103° 33' 39.556 W