

Mewbourne Oil Company

Lea County, New Mexico

Red Hills West 22 A2AP Fed Com #2H

Sec 22, T26S, R32E

SL: 185' FNL & 330' FEL

BHL: 330' FSL & 330' FEL

HOBBS OCD

MAR 09 2017

RECEIVED

Plan: Design #1

Standard Planning Report

31 August, 2015

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Lea County, New Mexico
Site: Red Hills West 22 A2AP Fed Com #2H
Well: Sec 22, T26S, R32E
Wellbore: BHL: 330' FSL & 330' FEL
Design: Design #1

Local Co-ordinate Reference: Site Red Hills West 22 A2AP Fed Com #2H
TVD Reference: WELL @ 3178.0usft (Original Well Elev)
MD Reference: WELL @ 3178.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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 Red Hills West 22 A2AP Fed Com #2H
Site Position: **From:** Map **Northing:** 377,109.00 usft **Latitude:** 32° 2' 5.898 N
Easting: 710,266.00 usft **Longitude:** 103° 39' 17.257 W
Position Uncertainty: 0.0 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 0.36 °

Well Sec 22, T26S, R32E
Well Position **+N/-S** 0.0 usft **Northing:** 377,109.00 usft **Latitude:** 32° 2' 5.898 N
+E/-W 0.0 usft **Easting:** 710,266.00 usft **Longitude:** 103° 39' 17.257 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** 3,178.0 usft **Ground Level:** 3,153.0 usft

Wellbore BHL: 330' FSL & 330' FEL

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/31/2015	7.09	59.89	48,075

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 0.0 179.61

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	
8,475.0	0.00	0.00	8,475.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,375.0	90.00	179.61	9,048.0	-572.9	3.9	10.00	10.00	0.00	179.61	
13,638.2	90.00	179.61	9,048.0	-4,836.0	33.0	0.00	0.00	0.00	0.00	BHL: 330' FSL & 330'

Planning Report

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Project:	Lea County, New Mexico	MD Reference:	WELL @ 3178.0usft (Original Well Elev)
Site:	Red Hills West 22 A2AP Fed Com #2H	North Reference:	Grid
Well:	Sec 22, T26S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 330' FEL		
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 & 330' FEL									
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

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Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3178.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3178.0usft (Original Well Elev)
Site:	Red Hills West 22 A2AP Fed Com #2H	North Reference:	Grid
Well:	Sec 22, T26S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 330' FEL		
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
8,475.0	0.00	0.00	8,475.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 8475'									
8,500.0	2.50	179.61	8,500.0	-0.5	0.0	0.5	10.00	10.00	0.00
8,600.0	12.50	179.61	8,599.0	-13.6	0.1	13.6	10.00	10.00	0.00
8,700.0	22.50	179.61	8,694.3	-43.6	0.3	43.6	10.00	10.00	0.00
8,800.0	32.50	179.61	8,782.9	-89.7	0.6	89.7	10.00	10.00	0.00
8,891.8	41.68	179.61	8,856.0	-145.0	1.0	145.0	10.00	10.00	0.00
First Take Point: 330' FNL & 330' FEL									
8,900.0	42.50	179.61	8,862.1	-150.5	1.0	150.5	10.00	10.00	0.00
9,000.0	52.50	179.61	8,929.6	-224.1	1.5	224.1	10.00	10.00	0.00
9,100.0	62.50	179.61	8,983.2	-308.4	2.1	308.4	10.00	10.00	0.00
9,200.0	72.50	179.61	9,021.5	-400.6	2.7	400.6	10.00	10.00	0.00
9,300.0	82.50	179.61	9,043.1	-498.1	3.4	498.1	10.00	10.00	0.00
9,375.0	90.00	179.61	9,048.0	-572.9	3.9	572.9	10.00	10.00	0.00
LP: 758' FNL & 330' FEL									
9,400.0	90.00	179.61	9,048.0	-597.9	4.1	597.9	0.02	0.02	0.00
9,500.0	90.00	179.61	9,048.0	-697.9	4.8	697.9	0.00	0.00	0.00
9,600.0	90.00	179.61	9,048.0	-797.9	5.4	797.9	0.00	0.00	0.00
9,700.0	90.00	179.61	9,048.0	-897.9	6.1	897.9	0.00	0.00	0.00
9,800.0	90.00	179.61	9,048.0	-997.9	6.8	997.9	0.00	0.00	0.00
9,900.0	90.00	179.61	9,048.0	-1,097.9	7.5	1,097.9	0.00	0.00	0.00

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Well:	Sec 22, T26S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 330' FEL		
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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	90.00	179.61	9,048.0	-1,197.9	8.2	1,197.9	0.00	0.00	0.00
10,100.0	90.00	179.61	9,048.0	-1,297.9	8.9	1,297.9	0.00	0.00	0.00
10,200.0	90.00	179.61	9,048.0	-1,397.9	9.5	1,397.9	0.00	0.00	0.00
10,300.0	90.00	179.61	9,048.0	-1,497.9	10.2	1,497.9	0.00	0.00	0.00
10,400.0	90.00	179.61	9,048.0	-1,597.9	10.9	1,597.9	0.00	0.00	0.00
10,500.0	90.00	179.61	9,048.0	-1,697.9	11.6	1,697.9	0.00	0.00	0.00
10,600.0	90.00	179.61	9,048.0	-1,797.9	12.3	1,797.9	0.00	0.00	0.00
10,700.0	90.00	179.61	9,048.0	-1,897.9	13.0	1,897.9	0.00	0.00	0.00
10,800.0	90.00	179.61	9,048.0	-1,997.9	13.6	1,997.9	0.00	0.00	0.00
10,900.0	90.00	179.61	9,048.0	-2,097.9	14.3	2,097.9	0.00	0.00	0.00
11,000.0	90.00	179.61	9,048.0	-2,197.9	15.0	2,197.9	0.00	0.00	0.00
11,100.0	90.00	179.61	9,048.0	-2,297.9	15.7	2,297.9	0.00	0.00	0.00
11,200.0	90.00	179.61	9,048.0	-2,397.9	16.4	2,397.9	0.00	0.00	0.00
11,300.0	90.00	179.61	9,048.0	-2,497.9	17.0	2,497.9	0.00	0.00	0.00
11,400.0	90.00	179.61	9,048.0	-2,597.9	17.7	2,597.9	0.00	0.00	0.00
11,500.0	90.00	179.61	9,048.0	-2,697.9	18.4	2,697.9	0.00	0.00	0.00
11,600.0	90.00	179.61	9,048.0	-2,797.9	19.1	2,797.9	0.00	0.00	0.00
11,700.0	90.00	179.61	9,048.0	-2,897.8	19.8	2,897.9	0.00	0.00	0.00
11,800.0	90.00	179.61	9,048.0	-2,997.8	20.5	2,997.9	0.00	0.00	0.00
11,900.0	90.00	179.61	9,048.0	-3,097.8	21.1	3,097.9	0.00	0.00	0.00
12,000.0	90.00	179.61	9,048.0	-3,197.8	21.8	3,197.9	0.00	0.00	0.00
12,100.0	90.00	179.61	9,048.0	-3,297.8	22.5	3,297.9	0.00	0.00	0.00
12,200.0	90.00	179.61	9,048.0	-3,397.8	23.2	3,397.9	0.00	0.00	0.00
12,300.0	90.00	179.61	9,048.0	-3,497.8	23.9	3,497.9	0.00	0.00	0.00
12,400.0	90.00	179.61	9,048.0	-3,597.8	24.6	3,597.9	0.00	0.00	0.00
12,500.0	90.00	179.61	9,048.0	-3,697.8	25.2	3,697.9	0.00	0.00	0.00
12,600.0	90.00	179.61	9,048.0	-3,797.8	25.9	3,797.9	0.00	0.00	0.00
12,700.0	90.00	179.61	9,048.0	-3,897.8	26.6	3,897.9	0.00	0.00	0.00
12,800.0	90.00	179.61	9,048.0	-3,997.8	27.3	3,997.9	0.00	0.00	0.00
12,900.0	90.00	179.61	9,048.0	-4,097.8	28.0	4,097.9	0.00	0.00	0.00
13,000.0	90.00	179.61	9,048.0	-4,197.8	28.6	4,197.9	0.00	0.00	0.00
13,100.0	90.00	179.61	9,048.0	-4,297.8	29.3	4,297.9	0.00	0.00	0.00
13,200.0	90.00	179.61	9,048.0	-4,397.8	30.0	4,397.9	0.00	0.00	0.00
13,300.0	90.00	179.61	9,048.0	-4,497.8	30.7	4,497.9	0.00	0.00	0.00
13,400.0	90.00	179.61	9,048.0	-4,597.8	31.4	4,597.9	0.00	0.00	0.00
13,500.0	90.00	179.61	9,048.0	-4,697.8	32.1	4,697.9	0.00	0.00	0.00
13,600.0	90.00	179.61	9,048.0	-4,797.8	32.7	4,797.9	0.00	0.00	0.00
13,638.2	90.00	179.61	9,048.0	-4,836.0	33.0	4,836.1	0.00	0.00	0.00
BHL: 330' FSL & 330' FEL									

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Red Hills West 22 A2AP Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3178.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3178.0usft (Original Well Elev)
Site:	Red Hills West 22 A2AP Fed Com #2H	North Reference:	Grid
Well:	Sec 22, T26S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 330' FEL		
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 & 330' FEL - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	377,109.00	710,266.00	32° 2' 5.898 N	103° 39' 17.257 W
KOP @ 8475' - plan hits target center - Point	0.00	0.00	8,475.0	0.0	0.0	377,109.00	710,266.00	32° 2' 5.898 N	103° 39' 17.257 W
First Take Point: 330' FN - plan hits target center - Point	0.00	0.00	8,856.0	-145.0	1.0	376,964.00	710,267.00	32° 2' 4.463 N	103° 39' 17.256 W
LP: 758' FNL & 330' FEL - plan hits target center - Point	0.00	0.00	9,048.0	-572.9	3.9	376,536.10	710,269.90	32° 2' 0.228 N	103° 39' 17.253 W
BHL: 330' FSL & 330' FE - plan hits target center - Point	0.00	0.00	9,048.0	-4,836.0	33.0	372,273.00	710,299.00	32° 1' 18.039 N	103° 39' 17.226 W

Red Hills West 22 A2AP Fed Com #2H

