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DISTRICT II-ARTESIA O.C.D.

Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 10-9-22S-23E Bogle Flats Fed Unit 9 Y1AD

Bogle Flats Fed Unit 9 Y1AD 1H

Original Hole

Plan: Plan#1

Standard Planning Report

25 August, 2018





Microsoft
Planning Report



Database: Stryker_EDM
Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 10-9-22S-23E Bogle Flats Fed Unit 9 Y1AD
Well: Bogle Flats Fed Unit 9 Y1AD 1H
Wellbore: Original Hole
Design: Plan#1

Local Co-ordinate Reference: Well Bogle Flats Fed Unit 9 Y1AD 1H
TVD Reference: 4103 + 27 @ 4130.0usft (Silver Oak)
MD Reference: 4103 + 27 @ 4130.0usft (Silver Oak)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Eddy County, N.M. Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Section 10-9-22S-23E Bogle Flats Fed Unit 9 Y1AD		
Site Position:		Northing:	513,905.50 usft
From:	Map	Easting:	460,704.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 24' 45.081 N
		Longitude:	104° 35' 40.655 W
		Grid Convergence:	-0.14 °

Well	Bogle Flats Fed Unit 9 Y1AD 1H		
Well Position	+N/-S	0.0 usft	Northing: 513,905.50 usft
	+E/-W	0.0 usft	Easting: 460,704.40 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft
		Latitude:	32° 24' 45.081 N
		Longitude:	104° 35' 40.655 W
		Ground Level:	4,103.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/24/2018	7.31	60.06	47,812.03141178

Design	Plan#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	267.21	

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	
1,728.0	0.00	0.00	1,728.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,456.9	87.47	246.00	2,205.0	-185.6	-416.9	12.00	12.00	0.00	246.00	
3,296.8	91.70	270.85	2,211.1	-352.8	-1,233.1	3.00	0.50	2.96	80.58	
7,912.4	91.70	270.85	2,074.0	-284.7	-5,846.2	0.00	0.00	0.00	0.00	PBHL Bogle Flats F



Microsoft
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MD Reference: 4103 + 27 @ 4130.0usft (Silver Oak)
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
1,728.0	0.00	0.00	1,728.0	0.0	0.0	0.0	0.00	0.00	0.00
1,750.0	2.64	246.00	1,750.0	-0.2	-0.5	0.5	12.00	12.00	0.00
1,775.0	5.64	246.00	1,774.9	-0.9	-2.1	2.2	12.00	12.00	0.00
1,800.0	8.64	246.00	1,799.7	-2.2	-4.9	5.1	12.00	12.00	0.00
1,825.0	11.64	246.00	1,824.3	-4.0	-9.0	9.2	12.00	12.00	0.00
1,850.0	14.64	246.00	1,848.7	-6.3	-14.2	14.5	12.00	12.00	0.00
1,875.0	17.64	246.00	1,872.7	-9.1	-20.5	20.9	12.00	12.00	0.00
1,900.0	20.64	246.00	1,896.3	-12.5	-28.0	28.6	12.00	12.00	0.00
1,925.0	23.64	246.00	1,919.5	-16.3	-36.6	37.4	12.00	12.00	0.00
1,950.0	26.64	246.00	1,942.1	-20.6	-46.3	47.3	12.00	12.00	0.00
1,975.0	29.64	246.00	1,964.1	-25.4	-57.1	58.2	12.00	12.00	0.00
2,000.0	32.64	246.00	1,985.5	-30.7	-68.9	70.3	12.00	12.00	0.00
2,025.0	35.64	246.00	2,008.2	-36.4	-81.7	83.4	12.00	12.00	0.00
2,050.0	38.64	246.00	2,026.1	-42.5	-95.5	97.4	12.00	12.00	0.00
2,075.0	41.64	246.00	2,045.3	-49.1	-110.2	112.5	12.00	12.00	0.00
2,100.0	44.64	246.00	2,063.5	-56.0	-125.8	128.4	12.00	12.00	0.00
2,125.0	47.64	246.00	2,080.8	-63.4	-142.3	145.2	12.00	12.00	0.00
2,150.0	50.64	246.00	2,097.2	-71.0	-159.6	162.8	12.00	12.00	0.00
2,175.0	53.64	246.00	2,112.5	-79.1	-177.6	181.2	12.00	12.00	0.00
2,200.0	56.64	246.00	2,126.8	-87.4	-196.3	200.3	12.00	12.00	0.00
2,225.0	59.64	246.00	2,140.0	-96.0	-215.7	220.1	12.00	12.00	0.00
2,250.0	62.64	246.00	2,152.1	-105.0	-235.7	240.5	12.00	12.00	0.00
2,275.0	65.64	246.00	2,163.0	-114.1	-256.3	261.5	12.00	12.00	0.00
2,300.0	68.64	246.00	2,172.7	-123.5	-277.3	283.0	12.00	12.00	0.00
2,325.0	71.64	246.00	2,181.2	-133.0	-298.8	304.9	12.00	12.00	0.00
2,350.0	74.64	246.00	2,188.4	-142.8	-320.6	327.2	12.00	12.00	0.00
2,375.0	77.64	246.00	2,194.4	-152.6	-342.8	349.8	12.00	12.00	0.00
2,400.0	80.64	246.00	2,199.1	-162.6	-365.2	372.7	12.00	12.00	0.00
2,425.0	83.64	246.00	2,202.5	-172.7	-387.9	395.8	12.00	12.00	0.00
2,450.0	86.64	246.00	2,204.6	-182.8	-410.6	419.0	12.00	12.00	0.00
2,456.9	87.47	246.00	2,205.0	-185.6	-416.9	425.5	12.00	12.00	0.00
2,480.0	87.59	246.68	2,206.0	-194.9	-438.1	447.0	3.00	0.49	2.96
LP Bogle Flats Fed Unit 9 Y1AD 1H									
2,500.0	87.68	247.28	2,206.8	-202.7	-456.4	465.8	3.00	0.49	2.96
2,600.0	88.18	250.24	2,210.4	-238.9	-549.6	560.5	3.00	0.50	2.96

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Wellbore: Original Hole
Design: Plan#1

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MD Reference: 4103 + 27 @ 4130.0usft (Silver Oak)
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)
2,700.0	88.68	253.20	2,213.2	-270.3	-644.5	656.9	3.00	0.50	2.96
2,800.0	89.19	256.15	2,215.0	-296.7	-740.9	754.5	3.00	0.51	2.96
2,821.3	89.30	256.78	2,215.3	-301.7	-761.6	775.4	3.00	0.51	2.96
FTP Bogle Flats Fed Unit Y1AD									
2,900.0	89.69	259.11	2,216.0	-316.1	-838.6	853.0	3.00	0.51	2.96
3,000.0	90.20	262.07	2,216.1	-334.5	-937.2	952.4	3.00	0.51	2.96
3,100.0	90.71	265.02	2,215.3	-345.7	-1,036.8	1,052.1	3.00	0.51	2.96
3,200.0	91.22	267.98	2,213.6	-351.8	-1,136.3	1,152.1	3.00	0.51	2.96
3,298.8	91.70	270.85	2,211.1	-352.8	-1,233.1	1,248.8	3.00	0.50	2.96
3,300.0	91.70	270.85	2,211.1	-352.7	-1,236.3	1,252.0	0.00	0.00	0.00
3,400.0	91.70	270.85	2,208.1	-351.3	-1,336.2	1,351.7	0.00	0.00	0.00
3,500.0	91.70	270.85	2,205.1	-349.8	-1,436.2	1,451.5	0.00	0.00	0.00
3,600.0	91.70	270.85	2,202.1	-348.3	-1,536.1	1,551.3	0.00	0.00	0.00
3,700.0	91.70	270.85	2,199.2	-346.8	-1,636.1	1,651.0	0.00	0.00	0.00
3,800.0	91.70	270.85	2,196.2	-345.4	-1,736.0	1,750.8	0.00	0.00	0.00
3,900.0	91.70	270.85	2,193.2	-343.9	-1,836.0	1,850.6	0.00	0.00	0.00
4,000.0	91.70	270.85	2,190.3	-342.4	-1,935.9	1,950.3	0.00	0.00	0.00
4,100.0	91.70	270.85	2,187.3	-340.9	-2,035.8	2,050.0	0.00	0.00	0.00
4,200.0	91.70	270.85	2,184.3	-339.5	-2,135.8	2,149.8	0.00	0.00	0.00
4,300.0	91.70	270.85	2,181.3	-338.0	-2,235.7	2,249.5	0.00	0.00	0.00
4,400.0	91.70	270.85	2,178.4	-336.5	-2,335.7	2,349.3	0.00	0.00	0.00
4,500.0	91.70	270.85	2,175.4	-335.0	-2,435.6	2,449.1	0.00	0.00	0.00
4,600.0	91.70	270.85	2,172.4	-333.6	-2,535.6	2,548.8	0.00	0.00	0.00
4,700.0	91.70	270.85	2,169.5	-332.1	-2,635.5	2,648.6	0.00	0.00	0.00
4,800.0	91.70	270.85	2,166.5	-330.6	-2,735.5	2,748.3	0.00	0.00	0.00
4,900.0	91.70	270.85	2,163.5	-329.1	-2,835.4	2,848.1	0.00	0.00	0.00
5,000.0	91.70	270.85	2,160.5	-327.7	-2,935.4	2,947.8	0.00	0.00	0.00
5,100.0	91.70	270.85	2,157.6	-326.2	-3,035.3	3,047.6	0.00	0.00	0.00
5,200.0	91.70	270.85	2,154.6	-324.7	-3,135.3	3,147.3	0.00	0.00	0.00
5,300.0	91.70	270.85	2,151.6	-323.2	-3,235.2	3,247.1	0.00	0.00	0.00
5,400.0	91.70	270.85	2,148.7	-321.8	-3,335.1	3,346.8	0.00	0.00	0.00
5,500.0	91.70	270.85	2,145.7	-320.3	-3,435.1	3,446.6	0.00	0.00	0.00
5,600.0	91.70	270.85	2,142.7	-318.8	-3,535.0	3,546.4	0.00	0.00	0.00
5,700.0	91.70	270.85	2,139.7	-317.3	-3,635.0	3,646.1	0.00	0.00	0.00
5,800.0	91.70	270.85	2,136.8	-315.9	-3,734.9	3,745.9	0.00	0.00	0.00
5,900.0	91.70	270.85	2,133.8	-314.4	-3,834.9	3,845.6	0.00	0.00	0.00
6,000.0	91.70	270.85	2,130.8	-312.9	-3,934.8	3,945.4	0.00	0.00	0.00
6,100.0	91.70	270.85	2,127.9	-311.4	-4,034.8	4,045.1	0.00	0.00	0.00
6,200.0	91.70	270.85	2,124.9	-310.0	-4,134.7	4,144.9	0.00	0.00	0.00
6,300.0	91.70	270.85	2,121.9	-308.5	-4,234.6	4,244.6	0.00	0.00	0.00
6,400.0	91.70	270.85	2,118.9	-307.0	-4,334.6	4,344.4	0.00	0.00	0.00
6,500.0	91.70	270.85	2,116.0	-305.5	-4,434.5	4,444.1	0.00	0.00	0.00
6,600.0	91.70	270.85	2,113.0	-304.1	-4,534.5	4,543.9	0.00	0.00	0.00
6,700.0	91.70	270.85	2,110.0	-302.6	-4,634.4	4,643.7	0.00	0.00	0.00
6,800.0	91.70	270.85	2,107.1	-301.1	-4,734.4	4,743.4	0.00	0.00	0.00
6,900.0	91.70	270.85	2,104.1	-299.6	-4,834.3	4,843.2	0.00	0.00	0.00
7,000.0	91.70	270.85	2,101.1	-298.2	-4,934.3	4,942.9	0.00	0.00	0.00
7,100.0	91.70	270.85	2,098.1	-296.7	-5,034.2	5,042.7	0.00	0.00	0.00
7,200.0	91.70	270.85	2,095.2	-295.2	-5,134.2	5,142.4	0.00	0.00	0.00
7,300.0	91.70	270.85	2,092.2	-293.7	-5,234.1	5,242.2	0.00	0.00	0.00
7,400.0	91.70	270.85	2,089.2	-292.3	-5,334.0	5,341.9	0.00	0.00	0.00
7,500.0	91.70	270.85	2,086.3	-290.8	-5,434.0	5,441.7	0.00	0.00	0.00
7,600.0	91.70	270.85	2,083.3	-289.3	-5,533.9	5,541.5	0.00	0.00	0.00



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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)
7,700.0	91.70	270.85	2,080.3	-287.8	-5,633.9	5,641.2	0.00	0.00	0.00
7,800.0	91.70	270.85	2,077.3	-286.4	-5,733.8	5,741.0	0.00	0.00	0.00
7,900.0	91.70	270.85	2,074.4	-284.9	-5,833.8	5,840.7	0.00	0.00	0.00
7,912.4	91.70	270.85	2,074.0	-284.7	-5,846.2	5,853.1	0.00	0.00	0.00
PBHL Bogle Flats Fed Unit 9 Y1AD 1H									

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
PBHL Bogle Flats Fed	0.00	0.00	2,074.0	-284.7	-5,846.2	513,620.80	454,858.20	32° 24' 42.117 N	104° 36' 48.847 W
- plan hits target center									
- Point									
LP Bogle Flats Fed U	0.00	0.00	2,205.0	-178.2	-445.3	513,727.30	460,259.07	32° 24' 43.307 N	104° 35' 45.845 W
- plan misses target center by 18.2usft at 2480.1usft MD (2206.0 TVD, -194.9 N, -438.2 E)									
- Point									
FTP Bogle Flats Fed l	0.00	360.00	2,230.0	-304.9	-760.7	513,600.80	459,943.67	32° 24' 42.045 N	104° 35' 49.521 W
- plan misses target center by 15.1usft at 2821.3usft MD (2215.3 TVD, -301.7 N, -761.6 E)									
- Point									



COMPANY: Mewbourne Oil Company
WELL: Bogle Flats Fed Unit 9 Y1AD 1H
COUNTY: Eddy County, N.M. Mad (83)
DATUM: North American Datum 1983
RIG: Silver Oak



OFFICE: 934.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.45°

GEODETIC ZONE: New Mexico Eastern Zone										
4103 + 27 @ 4130.0usft (Silver Oak)										
GROUND ELEVATION: 4103.0										
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot				
0.0	0.0	513905.50	480704.40	32° 24' 45.081 N	104° 35' 40.655 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1728.0	0.00	0.00	1728.0	0.0	0.0	0.00	0.00	0.0	
3	2456.9	87.47	248.00	2205.0	-185.6	-416.9	12.00	248.00	425.5	
4	3296.8	91.70	270.85	2211.1	-352.8	-1233.1	3.00	80.58	1248.8	
5	7912.4	91.70	270.85	2074.0	-284.7	-5846.2	0.00	0.00	5853.1	PBHL Bogle Flats Fed Unit 9 Y1AD 1H

SHL: 25' FNL; 660' FWL
Section 10-22S-23E
PBHL: 330' FNL; 100' FWL
Section 9-22S-23E

