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DISTRICT II-ARTESIA O.C.D.

NORTHERN DELAWARE BASIN

EDDY COUNTY, NM

ATLAS

MYOX 31 STATE COM #601H

OWB

Plan: PLAN 1

Standard Planning Report

18 April, 2019

Planning Report

Database:	EDM_Users	Local Co-ordinate Reference:	Well MYOX 31 STATE COM #601H
Company:	NORTHERN DELAWARE BASIN	TVD Reference:	RKB = 3013' + 29' @ 3042.0usft (NORAM 21)
Project:	EDDY COUNTY, NM	MD Reference:	RKB = 3013' + 29' @ 3042.0usft (NORAM 21)
Site:	ATLAS	North Reference:	Grid
Well:	MYOX 31 STATE COM #601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PLAN 1		

Project	EDDY COUNTY, NM		
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	ATLAS		
Site Position:	Map	Northing:	371,480.80 usft
From:		Easting:	573,599.60 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 1' 15.933 N
		Longitude:	104° 5' 45.086 W
		Grid Convergence:	-0.13 °

Well:	MYOX 31 STATE COM #601H		
Well Position	+N/-S	25,970.3 usft	Northing:
	+E/-W	-7,900.4 usft	Easting:
Position Uncertainty	3.0 usft	Wellhead Elevation:	
		Latitude:	32° 5' 33.113 N
		Longitude:	104° 7' 16.261 W
		Ground Level:	3,013.0 usft

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination
			(°)
	WMM2015	3/4/2019	7.04
			Dip Angle
			(°)
			59.81
			Field Strength
			(nT)
			47,611.96225425

Design	PLAN 1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			175.47

Plan Survey Tool Program	Date	4/18/2019		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.0	19,221.6 PLAN 1 (OWB)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,550.0	1.00	73.89	2,550.0	0.1	0.4	2.00	2.00	0.00	73.89	
3,500.1	1.00	73.89	3,500.0	4.7	16.4	0.00	0.00	0.00	0.00	
3,800.1	4.00	73.89	3,799.7	8.4	28.9	1.00	1.00	0.00	0.00	
8,602.7	4.00	73.89	8,590.5	101.3	350.8	0.00	0.00	0.00	0.00	
9,492.3	89.89	150.55	9,152.9	-377.8	665.2	10.00	9.65	8.62	76.70	
10,236.8	89.89	180.33	9,154.4	-1,090.3	850.2	4.00	0.00	4.00	90.03	
19,222.5	89.89	180.33	9,172.0	-10,075.8	798.8	0.00	0.00	0.00	0.00	PBHL (MYOX 31 STA

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Site:	ATLAS	North Reference:	Grid
Well:	MYOX 31 STATE COM #601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PLAN 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
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
2,550.0	1.00	73.89	2,550.0	0.1	0.4	-0.1	2.00	2.00	0.00
2,600.0	1.00	73.89	2,600.0	0.4	1.3	-0.3	0.00	0.00	0.00
2,700.0	1.00	73.89	2,700.0	0.8	2.9	-0.6	0.00	0.00	0.00
2,800.0	1.00	73.89	2,800.0	1.3	4.6	-1.0	0.00	0.00	0.00
2,900.0	1.00	73.89	2,899.9	1.8	6.3	-1.3	0.00	0.00	0.00
3,000.0	1.00	73.89	2,999.9	2.3	8.0	-1.7	0.00	0.00	0.00
3,100.0	1.00	73.89	3,099.9	2.8	9.6	-2.0	0.00	0.00	0.00
3,200.0	1.00	73.89	3,199.9	3.3	11.3	-2.4	0.00	0.00	0.00
3,300.0	1.00	73.89	3,299.9	3.8	13.0	-2.7	0.00	0.00	0.00
3,400.0	1.00	73.89	3,399.9	4.2	14.7	-3.1	0.00	0.00	0.00
3,500.1	1.00	73.89	3,500.0	4.7	16.4	-3.4	0.00	0.00	0.00
3,600.0	2.00	73.89	3,599.8	5.4	18.9	-3.9	1.00	1.00	0.00
3,700.0	3.00	73.89	3,699.7	6.7	23.0	-4.8	1.00	1.00	0.00
3,800.1	4.00	73.89	3,799.7	8.4	28.9	-6.0	1.00	1.00	0.00
3,900.0	4.00	73.89	3,899.3	10.3	35.6	-7.4	0.00	0.00	0.00
4,000.0	4.00	73.89	3,999.0	12.2	42.3	-8.8	0.00	0.00	0.00
4,100.0	4.00	73.89	4,098.8	14.2	49.0	-10.2	0.00	0.00	0.00
4,200.0	4.00	73.89	4,198.6	16.1	55.7	-11.6	0.00	0.00	0.00
4,300.0	4.00	73.89	4,298.3	18.0	62.4	-13.0	0.00	0.00	0.00
4,400.0	4.00	73.89	4,398.1	20.0	69.1	-14.4	0.00	0.00	0.00
4,500.0	4.00	73.89	4,497.8	21.9	75.8	-15.8	0.00	0.00	0.00
4,600.0	4.00	73.89	4,597.6	23.8	82.5	-17.2	0.00	0.00	0.00
4,700.0	4.00	73.89	4,697.3	25.8	89.2	-18.6	0.00	0.00	0.00
4,800.0	4.00	73.89	4,797.1	27.7	95.9	-20.0	0.00	0.00	0.00
4,900.0	4.00	73.89	4,896.9	29.6	102.6	-21.4	0.00	0.00	0.00
5,000.0	4.00	73.89	4,996.6	31.6	109.3	-22.8	0.00	0.00	0.00
5,100.0	4.00	73.89	5,096.4	33.5	116.0	-24.2	0.00	0.00	0.00
5,200.0	4.00	73.89	5,196.1	35.4	122.7	-25.6	0.00	0.00	0.00

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Design:	PLAN 1		

Planned Survey

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5,300.0	4.00	73.89	5,295.9	37.4	129.4	-27.0	0.00	0.00	0.00
5,400.0	4.00	73.89	5,395.6	39.3	136.1	-28.4	0.00	0.00	0.00
5,500.0	4.00	73.89	5,495.4	41.3	142.8	-29.8	0.00	0.00	0.00
5,600.0	4.00	73.89	5,595.1	43.2	149.5	-31.2	0.00	0.00	0.00
5,700.0	4.00	73.89	5,694.9	45.1	156.2	-32.6	0.00	0.00	0.00
5,800.0	4.00	73.89	5,794.7	47.1	162.9	-34.0	0.00	0.00	0.00
5,900.0	4.00	73.89	5,894.4	49.0	169.6	-35.4	0.00	0.00	0.00
6,000.0	4.00	73.89	5,994.2	50.9	176.3	-36.8	0.00	0.00	0.00
6,100.0	4.00	73.89	6,093.9	52.9	183.1	-38.2	0.00	0.00	0.00
6,200.0	4.00	73.89	6,193.7	54.8	189.8	-39.6	0.00	0.00	0.00
6,300.0	4.00	73.89	6,293.4	56.7	196.5	-41.0	0.00	0.00	0.00
6,400.0	4.00	73.89	6,393.2	58.7	203.2	-42.4	0.00	0.00	0.00
6,500.0	4.00	73.89	6,493.0	60.6	209.9	-43.8	0.00	0.00	0.00
6,600.0	4.00	73.89	6,592.7	62.5	216.6	-45.2	0.00	0.00	0.00
6,700.0	4.00	73.89	6,692.5	64.5	223.3	-46.6	0.00	0.00	0.00
6,800.0	4.00	73.89	6,792.2	66.4	230.0	-48.0	0.00	0.00	0.00
6,900.0	4.00	73.89	6,892.0	68.4	236.7	-49.4	0.00	0.00	0.00
7,000.0	4.00	73.89	6,991.7	70.3	243.4	-50.8	0.00	0.00	0.00
7,100.0	4.00	73.89	7,091.5	72.2	250.1	-52.2	0.00	0.00	0.00
7,200.0	4.00	73.89	7,191.3	74.2	256.8	-53.6	0.00	0.00	0.00
7,300.0	4.00	73.89	7,291.0	76.1	263.5	-55.0	0.00	0.00	0.00
7,400.0	4.00	73.89	7,390.8	78.0	270.2	-56.4	0.00	0.00	0.00
7,500.0	4.00	73.89	7,490.5	80.0	276.9	-57.8	0.00	0.00	0.00
7,600.0	4.00	73.89	7,590.3	81.9	283.6	-59.2	0.00	0.00	0.00
7,700.0	4.00	73.89	7,690.0	83.8	290.3	-60.6	0.00	0.00	0.00
7,800.0	4.00	73.89	7,789.8	85.8	297.0	-62.0	0.00	0.00	0.00
7,900.0	4.00	73.89	7,889.5	87.7	303.7	-63.4	0.00	0.00	0.00
8,000.0	4.00	73.89	7,989.3	89.6	310.4	-64.8	0.00	0.00	0.00
8,100.0	4.00	73.89	8,089.1	91.6	317.1	-66.2	0.00	0.00	0.00
8,200.0	4.00	73.89	8,188.8	93.5	323.8	-67.6	0.00	0.00	0.00
8,300.0	4.00	73.89	8,288.6	95.5	330.5	-69.0	0.00	0.00	0.00
8,400.0	4.00	73.89	8,388.3	97.4	337.2	-70.4	0.00	0.00	0.00
8,500.0	4.00	73.89	8,488.1	99.3	343.9	-71.8	0.00	0.00	0.00
8,602.7	4.00	73.89	8,590.5	101.3	350.8	-73.3	0.00	0.00	0.00
8,650.0	6.86	116.12	8,637.6	100.5	354.9	-72.2	10.00	6.05	89.23
8,700.0	11.34	130.72	8,687.0	96.0	361.3	-67.1	10.00	8.95	29.18
8,750.0	16.12	136.94	8,735.6	87.7	369.8	-58.2	10.00	9.57	12.45
8,800.0	21.00	140.35	8,782.9	75.7	380.2	-45.5	10.00	9.77	6.82
8,850.0	25.93	142.51	8,828.8	60.2	392.6	-28.9	10.00	9.85	4.33
8,900.0	30.88	144.02	8,872.8	41.1	406.8	-8.8	10.00	9.90	3.02
8,950.0	35.84	145.15	8,914.5	18.7	422.7	14.8	10.00	9.92	2.26
9,000.0	40.81	146.04	8,953.7	-6.9	440.2	41.7	10.00	9.94	1.77
9,050.0	45.78	146.76	8,990.1	-35.5	459.2	71.6	10.00	9.95	1.45
9,100.0	50.76	147.37	9,023.4	-66.8	479.5	104.5	10.00	9.96	1.22
9,150.0	55.75	147.90	9,053.3	-100.6	500.9	139.9	10.00	9.96	1.06
9,200.0	60.73	148.37	9,079.6	-136.7	523.3	177.6	10.00	9.97	0.94
9,250.0	65.71	148.80	9,102.1	-174.8	546.6	217.4	10.00	9.97	0.85
9,300.0	70.70	149.19	9,120.7	-214.6	570.5	259.0	10.00	9.97	0.79
9,350.0	75.69	149.56	9,135.1	-255.7	594.9	302.0	10.00	9.97	0.74
9,368.9	77.57	149.70	9,139.5	-271.6	604.1	318.5	10.00	9.98	0.72
FTP (MYOX 31 STATE COM #601H)									
9,400.0	80.68	149.92	9,145.4	-298.0	619.5	346.0	10.00	9.98	0.70
9,450.0	85.67	150.26	9,151.3	-341.0	644.3	390.9	10.00	9.98	0.69

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Wellbore:	OWB		
Design:	PLAN 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)
9,492.3	89.89	150.55	9,152.9	-377.8	665.2	429.2	10.00	9.98	0.68
9,500.0	89.89	150.86	9,153.0	-384.5	668.9	436.1	4.00	0.00	4.00
9,600.0	89.89	154.86	9,153.1	-473.5	714.5	528.4	4.00	0.00	4.00
9,700.0	89.89	158.86	9,153.3	-565.4	753.8	623.2	4.00	0.00	4.00
9,800.0	89.89	162.86	9,153.5	-659.8	786.6	719.9	4.00	0.00	4.00
9,900.0	89.89	166.86	9,153.7	-756.3	812.7	818.2	4.00	0.00	4.00
10,000.0	89.89	170.86	9,153.9	-854.4	832.0	917.5	4.00	0.00	4.00
10,100.0	89.89	174.86	9,154.1	-953.6	844.5	1,017.4	4.00	0.00	4.00
10,200.0	89.89	178.86	9,154.3	-1,053.5	850.0	1,117.4	4.00	0.00	4.00
10,236.8	89.89	180.33	9,154.4	-1,090.3	850.2	1,154.0	4.00	0.00	4.00
10,300.0	89.89	180.33	9,154.5	-1,153.5	849.9	1,217.0	0.00	0.00	0.00
10,400.0	89.89	180.33	9,154.7	-1,253.5	849.3	1,316.7	0.00	0.00	0.00
10,500.0	89.89	180.33	9,154.9	-1,353.5	848.7	1,416.3	0.00	0.00	0.00
10,600.0	89.89	180.33	9,155.1	-1,453.5	848.1	1,515.9	0.00	0.00	0.00
10,700.0	89.89	180.33	9,155.3	-1,553.5	847.6	1,615.6	0.00	0.00	0.00
10,800.0	89.89	180.33	9,155.5	-1,653.5	847.0	1,715.2	0.00	0.00	0.00
10,900.0	89.89	180.33	9,155.7	-1,753.5	846.4	1,814.9	0.00	0.00	0.00
11,000.0	89.89	180.33	9,155.9	-1,853.5	845.9	1,914.5	0.00	0.00	0.00
11,100.0	89.89	180.33	9,156.1	-1,953.5	845.3	2,014.1	0.00	0.00	0.00
11,200.0	89.89	180.33	9,156.3	-2,053.5	844.7	2,113.8	0.00	0.00	0.00
11,300.0	89.89	180.33	9,156.5	-2,153.5	844.1	2,213.4	0.00	0.00	0.00
11,400.0	89.89	180.33	9,156.7	-2,253.4	843.6	2,313.1	0.00	0.00	0.00
11,500.0	89.89	180.33	9,156.9	-2,353.4	843.0	2,412.7	0.00	0.00	0.00
11,600.0	89.89	180.33	9,157.1	-2,453.4	842.4	2,512.3	0.00	0.00	0.00
11,700.0	89.89	180.33	9,157.3	-2,553.4	841.8	2,612.0	0.00	0.00	0.00
11,800.0	89.89	180.33	9,157.5	-2,653.4	841.3	2,711.6	0.00	0.00	0.00
11,900.0	89.89	180.33	9,157.7	-2,753.4	840.7	2,811.3	0.00	0.00	0.00
12,000.0	89.89	180.33	9,157.9	-2,853.4	840.1	2,910.9	0.00	0.00	0.00
12,100.0	89.89	180.33	9,158.1	-2,953.4	839.6	3,010.6	0.00	0.00	0.00
12,200.0	89.89	180.33	9,158.3	-3,053.4	839.0	3,110.2	0.00	0.00	0.00
12,300.0	89.89	180.33	9,158.5	-3,153.4	838.4	3,209.8	0.00	0.00	0.00
12,400.0	89.89	180.33	9,158.6	-3,253.4	837.8	3,309.5	0.00	0.00	0.00
12,500.0	89.89	180.33	9,158.8	-3,353.4	837.3	3,409.1	0.00	0.00	0.00
12,600.0	89.89	180.33	9,159.0	-3,453.4	836.7	3,508.8	0.00	0.00	0.00
12,700.0	89.89	180.33	9,159.2	-3,553.4	836.1	3,608.4	0.00	0.00	0.00
12,800.0	89.89	180.33	9,159.4	-3,653.4	835.6	3,708.0	0.00	0.00	0.00
12,900.0	89.89	180.33	9,159.6	-3,753.4	835.0	3,807.7	0.00	0.00	0.00
13,000.0	89.89	180.33	9,159.8	-3,853.4	834.4	3,907.3	0.00	0.00	0.00
13,100.0	89.89	180.33	9,160.0	-3,953.4	833.8	4,007.0	0.00	0.00	0.00
13,200.0	89.89	180.33	9,160.2	-4,053.4	833.3	4,106.6	0.00	0.00	0.00
13,300.0	89.89	180.33	9,160.4	-4,153.4	832.7	4,206.2	0.00	0.00	0.00
13,400.0	89.89	180.33	9,160.6	-4,253.4	832.1	4,305.9	0.00	0.00	0.00
13,500.0	89.89	180.33	9,160.8	-4,353.4	831.5	4,405.5	0.00	0.00	0.00
13,600.0	89.89	180.33	9,161.0	-4,453.4	831.0	4,505.2	0.00	0.00	0.00
13,700.0	89.89	180.33	9,161.2	-4,553.4	830.4	4,604.8	0.00	0.00	0.00
13,800.0	89.89	180.33	9,161.4	-4,653.4	829.8	4,704.4	0.00	0.00	0.00
13,900.0	89.89	180.33	9,161.6	-4,753.4	829.3	4,804.1	0.00	0.00	0.00
14,000.0	89.89	180.33	9,161.8	-4,853.4	828.7	4,903.7	0.00	0.00	0.00
14,100.0	89.89	180.33	9,162.0	-4,953.4	828.1	5,003.4	0.00	0.00	0.00
14,200.0	89.89	180.33	9,162.2	-5,053.4	827.5	5,103.0	0.00	0.00	0.00
14,300.0	89.89	180.33	9,162.4	-5,153.4	827.0	5,202.6	0.00	0.00	0.00
14,400.0	89.89	180.33	9,162.6	-5,253.4	826.4	5,302.3	0.00	0.00	0.00
14,500.0	89.89	180.33	9,162.8	-5,353.4	825.8	5,401.9	0.00	0.00	0.00
14,600.0	89.89	180.33	9,163.0	-5,453.4	825.3	5,501.6	0.00	0.00	0.00

Planning Report

Database:	EDM_Users	Local Co-ordinate Reference:	Well MYOX 31 STATE COM #601H
Company:	NORTHERN DELAWARE BASIN	TVD Reference:	RKB = 3013' + 29' @ 3042.0usft (NORAM 21)
Project:	EDDY COUNTY, NM	MD Reference:	RKB = 3013' + 29' @ 3042.0usft (NORAM 21)
Site:	ATLAS	North Reference:	Grid
Well:	MYOX 31 STATE COM #601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PLAN 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)
14,700.0	89.89	180.33	9,163.1	-5,553.4	824.7	5,601.2	0.00	0.00	0.00
14,800.0	89.89	180.33	9,163.3	-5,653.4	824.1	5,700.8	0.00	0.00	0.00
14,900.0	89.89	180.33	9,163.5	-5,753.4	823.5	5,800.5	0.00	0.00	0.00
15,000.0	89.89	180.33	9,163.7	-5,853.4	823.0	5,900.1	0.00	0.00	0.00
15,100.0	89.89	180.33	9,163.9	-5,953.4	822.4	5,999.8	0.00	0.00	0.00
15,200.0	89.89	180.33	9,164.1	-6,053.4	821.8	6,099.4	0.00	0.00	0.00
15,300.0	89.89	180.33	9,164.3	-6,153.4	821.2	6,199.0	0.00	0.00	0.00
15,400.0	89.89	180.33	9,164.5	-6,253.4	820.7	6,298.7	0.00	0.00	0.00
15,500.0	89.89	180.33	9,164.7	-6,353.4	820.1	6,398.3	0.00	0.00	0.00
15,600.0	89.89	180.33	9,164.9	-6,453.4	819.5	6,498.0	0.00	0.00	0.00
15,700.0	89.89	180.33	9,165.1	-6,553.4	819.0	6,597.6	0.00	0.00	0.00
15,800.0	89.89	180.33	9,165.3	-6,653.4	818.4	6,697.2	0.00	0.00	0.00
15,900.0	89.89	180.33	9,165.5	-6,753.4	817.8	6,796.9	0.00	0.00	0.00
16,000.0	89.89	180.33	9,165.7	-6,853.4	817.2	6,896.5	0.00	0.00	0.00
16,100.0	89.89	180.33	9,165.9	-6,953.4	816.7	6,996.2	0.00	0.00	0.00
16,200.0	89.89	180.33	9,166.1	-7,053.4	816.1	7,095.8	0.00	0.00	0.00
16,300.0	89.89	180.33	9,166.3	-7,153.4	815.5	7,195.4	0.00	0.00	0.00
16,400.0	89.89	180.33	9,166.5	-7,253.4	815.0	7,295.1	0.00	0.00	0.00
16,500.0	89.89	180.33	9,166.7	-7,353.4	814.4	7,394.7	0.00	0.00	0.00
16,600.0	89.89	180.33	9,166.9	-7,453.4	813.8	7,494.4	0.00	0.00	0.00
16,700.0	89.89	180.33	9,167.1	-7,553.4	813.2	7,594.0	0.00	0.00	0.00
16,800.0	89.89	180.33	9,167.3	-7,653.4	812.7	7,693.6	0.00	0.00	0.00
16,900.0	89.89	180.33	9,167.5	-7,753.3	812.1	7,793.3	0.00	0.00	0.00
17,000.0	89.89	180.33	9,167.7	-7,853.3	811.5	7,892.9	0.00	0.00	0.00
17,100.0	89.89	180.33	9,167.8	-7,953.3	810.9	7,992.6	0.00	0.00	0.00
17,200.0	89.89	180.33	9,168.0	-8,053.3	810.4	8,092.2	0.00	0.00	0.00
17,300.0	89.89	180.33	9,168.2	-8,153.3	809.8	8,191.8	0.00	0.00	0.00
17,400.0	89.89	180.33	9,168.4	-8,253.3	809.2	8,291.5	0.00	0.00	0.00
17,500.0	89.89	180.33	9,168.6	-8,353.3	808.7	8,391.1	0.00	0.00	0.00
17,600.0	89.89	180.33	9,168.8	-8,453.3	808.1	8,490.8	0.00	0.00	0.00
17,700.0	89.89	180.33	9,169.0	-8,553.3	807.5	8,590.4	0.00	0.00	0.00
17,800.0	89.89	180.33	9,169.2	-8,653.3	806.9	8,690.0	0.00	0.00	0.00
17,900.0	89.89	180.33	9,169.4	-8,753.3	806.4	8,789.7	0.00	0.00	0.00
18,000.0	89.89	180.33	9,169.6	-8,853.3	805.8	8,889.3	0.00	0.00	0.00
18,100.0	89.89	180.33	9,169.8	-8,953.3	805.2	8,989.0	0.00	0.00	0.00
18,200.0	89.89	180.33	9,170.0	-9,053.3	804.7	9,088.6	0.00	0.00	0.00
18,300.0	89.89	180.33	9,170.2	-9,153.3	804.1	9,188.2	0.00	0.00	0.00
18,400.0	89.89	180.33	9,170.4	-9,253.3	803.5	9,287.9	0.00	0.00	0.00
18,500.0	89.89	180.33	9,170.6	-9,353.3	802.9	9,387.5	0.00	0.00	0.00
18,600.0	89.89	180.33	9,170.8	-9,453.3	802.4	9,487.2	0.00	0.00	0.00
18,700.0	89.89	180.33	9,171.0	-9,553.3	801.8	9,586.8	0.00	0.00	0.00
18,800.0	89.89	180.33	9,171.2	-9,653.3	801.2	9,686.4	0.00	0.00	0.00
18,900.0	89.89	180.33	9,171.4	-9,753.3	800.6	9,786.1	0.00	0.00	0.00
19,000.0	89.89	180.33	9,171.6	-9,853.3	800.1	9,885.7	0.00	0.00	0.00
19,092.6	89.89	180.33	9,171.7	-9,945.9	799.5	9,978.0	0.00	0.00	0.00
LTP (MYOX 31 STATE COM #601H)									
19,100.0	89.89	180.33	9,171.8	-9,953.3	799.5	9,985.4	0.00	0.00	0.00
19,200.0	89.89	180.33	9,172.0	-10,053.3	798.9	10,085.0	0.00	0.00	0.00
19,222.5	89.89	180.33	9,172.0	-10,075.8	798.8	10,107.4	0.00	0.00	0.00
PBHL (MYOX 31 STATE COM #601H)									

Planning Report

Database:	EDM_Users	Local Co-ordinate Reference:	Well MYOX 31 STATE COM #601H
Company:	NORTHERN DELAWARE BASIN	TVD Reference:	RKB = 3013' + 29' @ 3042.0usft (NORAM 21)
Project:	EDDY COUNTY, NM	MD Reference:	RKB = 3013' + 29' @ 3042.0usft (NORAM 21)
Site:	ATLAS	North Reference:	Grid
Well:	MYOX 31 STATE COM #601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PLAN 1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
FTP (MYOX 31 STATE C	0.00	0.00	9,165.0	-116.9	858.7	397,334.20	566,557.90	32° 5' 31.939 N	104° 7' 6.282 W
- plan misses target center by 299.0usft at 9368.9usft MD (9139.5 TVD, -271.6 N, 604.1 E)									
- Circle (radius 50.0)									
LTP (MYOX 31 STATE C	0.00	0.00	9,165.0	-9,945.9	799.1	387,505.20	566,498.30	32° 3' 54.667 N	104° 7' 7.202 W
- plan misses target center by 6.8usft at 19092.6usft MD (9171.7 TVD, -9945.9 N, 799.5 E)									
- Point									
PBHL (MYOX 31 STATE	-0.11	0.33	9,172.0	-10,075.8	798.8	387,375.30	566,498.00	32° 3' 53.382 N	104° 7' 7.208 W
- plan hits target center									
- Rectangle (sides W100.0 H9,958.9 D20.0)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
309.0	309.0	TOS				
547.0	547.0	BOS (Fletcher)				
2,144.0	2,144.0	LMAR (Top Delaware)				
2,337.0	2,337.0	Rustler				
2,377.0	2,377.0	CYCN				
3,231.1	3,231.0	Bone Sprg (BSGL)				
4,452.1	4,450.0	FBSG_sand				
5,977.8	5,972.0	TBSG_sand				
6,331.6	6,325.0	WFMP				
6,555.2	6,548.0	SBSG_sand				
6,838.9	6,831.0	U Avalon Sh				
6,947.1	6,939.0	L Avalon Sh				
7,771.1	7,761.0	BYCN				
8,061.8	8,051.0	BLCN				
8,755.7	8,741.0	SBSG_sand_Base				
9,186.8	9,073.0	B Avalon Sh				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
2,500.0	2,500.0	0.0	0.0	NUDGE - Build 2.00
2,550.0	2,550.0	0.1	0.4	HOLD - 950.1 at 2550.0 MD
3,500.1	3,500.0	4.7	16.4	BUILD - DLS 1.00 TFO 0.00
3,800.1	3,799.7	8.4	28.9	HOLD - 4802.5 at 3800.1 MD
8,602.7	8,590.5	101.3	350.8	KOP - DLS 10.00 TFO 76.70
9,492.3	9,152.9	-377.8	665.2	EOC/TRN - DLS 4.00 TFO 90.03
10,236.8	9,154.4	-1,090.3	850.2	Start 8985.7 hold at 10236.8 MD
19,222.5	9,172.0	-10,075.8	798.8	TD at 19222.5