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DISTRICT II-ARTESIA O.C.D.

NORTHERN DELAWARE BASIN

EDDY COUNTY, NM

ATLAS

MYOX 31 STATE COM #603H

OWB

Plan: PLAN 1

Standard Planning Report

18 April, 2019

Planning Report

Database:	EDM_Users	Local Co-ordinate Reference:	Well MYOX 31 STATE COM #603H
Company:	NORTHERN DELAWARE BASIN	TVD Reference:	RKB = 3014' + 29' @ 3043.0usft (NORAM 21)
Project:	EDDY COUNTY, NM	MD Reference:	RKB = 3014' + 29' @ 3043.0usft (NORAM 21)
Site:	ATLAS	North Reference:	Grid
Well:	MYOX 31 STATE COM #603H	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 #603H		
Well Position	+N/-S	25,971.5 usft	Northing:
	+E/-W	-7,960.4 usft	Easting:
Position Uncertainty	3.0 usft	Wellhead Elevation:	397,452.30 usft
		Ground Level:	3,014.0 usft
		Latitude:	32° 5' 33.126 N
		Longitude:	104° 7' 16.959 W

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination
			(°)
	WMM2015	3/4/2019	7.04
			Dip Angle
			(°)
			59.81
			Field Strength
			(nT)
			47,611.93606438

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
			(°)
			185.59

Plan Survey Tool Program	Date	4/18/2019		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.0	8,590.0 PLAN 1 (OWB)	MWD	
			OWSG MWD - Standard	
2	8,590.0	19,242.7 PLAN 1 (OWB)	MWD+IFR1+MS	
			OWSG MWD + IFR1 + Multi-Si	

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Wellbore:	OWB		
Design:	PLAN 1		

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	
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	285.00	2,550.0	0.1	-0.4	2.00	2.00	0.00	285.00	
3,500.1	1.00	285.00	3,500.0	4.4	-16.4	0.00	0.00	0.00	0.00	
3,900.1	5.00	285.00	3,899.4	9.8	-36.7	1.00	1.00	0.00	0.00	
8,590.0	5.00	285.00	8,571.4	115.6	-431.5	0.00	0.00	0.00	0.00	
9,476.5	89.89	209.35	9,130.0	-359.6	-752.9	10.00	9.58	-8.53	-75.71	
10,202.1	89.89	180.33	9,131.4	-1,053.4	-936.7	4.00	0.00	-4.00	-90.03	
19,242.7	89.89	180.33	9,149.0	-10,093.9	-988.7	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 #603H	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	285.00	2,550.0	0.1	-0.4	-0.1	2.00	2.00	0.00
2,600.0	1.00	285.00	2,600.0	0.3	-1.3	-0.2	0.00	0.00	0.00
2,700.0	1.00	285.00	2,700.0	0.8	-3.0	-0.5	0.00	0.00	0.00
2,800.0	1.00	285.00	2,800.0	1.2	-4.6	-0.8	0.00	0.00	0.00
2,900.0	1.00	285.00	2,899.9	1.7	-6.3	-1.1	0.00	0.00	0.00
3,000.0	1.00	285.00	2,999.9	2.1	-8.0	-1.4	0.00	0.00	0.00
3,100.0	1.00	285.00	3,099.9	2.6	-9.7	-1.6	0.00	0.00	0.00
3,200.0	1.00	285.00	3,199.9	3.0	-11.4	-1.9	0.00	0.00	0.00
3,300.0	1.00	285.00	3,299.9	3.5	-13.1	-2.2	0.00	0.00	0.00
3,400.0	1.00	285.00	3,399.9	4.0	-14.8	-2.5	0.00	0.00	0.00
3,500.1	1.00	285.00	3,500.0	4.4	-16.4	-2.8	0.00	0.00	0.00
3,600.0	2.00	285.00	3,599.8	5.1	-19.0	-3.2	1.00	1.00	0.00
3,700.0	3.00	285.00	3,699.7	6.2	-23.2	-3.9	1.00	1.00	0.00
3,800.0	4.00	285.00	3,799.5	7.8	-29.1	-4.9	1.00	1.00	0.00
3,900.1	5.00	285.00	3,899.4	9.8	-36.7	-6.2	1.00	1.00	0.00
4,000.0	5.00	285.00	3,998.8	12.1	-45.1	-7.6	0.00	0.00	0.00
4,100.0	5.00	285.00	4,098.5	14.3	-53.5	-9.0	0.00	0.00	0.00
4,200.0	5.00	285.00	4,198.1	16.6	-61.9	-10.5	0.00	0.00	0.00
4,300.0	5.00	285.00	4,297.7	18.8	-70.3	-11.9	0.00	0.00	0.00
4,400.0	5.00	285.00	4,397.3	21.1	-78.7	-13.3	0.00	0.00	0.00
4,500.0	5.00	285.00	4,496.9	23.4	-87.2	-14.7	0.00	0.00	0.00
4,600.0	5.00	285.00	4,596.6	25.6	-95.6	-16.2	0.00	0.00	0.00
4,700.0	5.00	285.00	4,696.2	27.9	-104.0	-17.6	0.00	0.00	0.00
4,800.0	5.00	285.00	4,795.8	30.1	-112.4	-19.0	0.00	0.00	0.00
4,900.0	5.00	285.00	4,895.4	32.4	-120.8	-20.4	0.00	0.00	0.00
5,000.0	5.00	285.00	4,995.0	34.6	-129.2	-21.9	0.00	0.00	0.00
5,100.0	5.00	285.00	5,094.7	36.9	-137.7	-23.3	0.00	0.00	0.00
5,200.0	5.00	285.00	5,194.3	39.1	-146.1	-24.7	0.00	0.00	0.00

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Planned Survey

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5,300.0	5.00	285.00	5,293.9	41.4	-154.5	-26.1	0.00	0.00	0.00
5,400.0	5.00	285.00	5,393.5	43.7	-162.9	-27.6	0.00	0.00	0.00
5,500.0	5.00	285.00	5,493.1	45.9	-171.3	-29.0	0.00	0.00	0.00
5,600.0	5.00	285.00	5,592.8	48.2	-179.8	-30.4	0.00	0.00	0.00
5,700.0	5.00	285.00	5,692.4	50.4	-188.2	-31.8	0.00	0.00	0.00
5,800.0	5.00	285.00	5,792.0	52.7	-196.6	-33.3	0.00	0.00	0.00
5,900.0	5.00	285.00	5,891.6	54.9	-205.0	-34.7	0.00	0.00	0.00
6,000.0	5.00	285.00	5,991.2	57.2	-213.4	-36.1	0.00	0.00	0.00
6,100.0	5.00	285.00	6,090.9	59.4	-221.9	-37.5	0.00	0.00	0.00
6,200.0	5.00	285.00	6,190.5	61.7	-230.3	-39.0	0.00	0.00	0.00
6,300.0	5.00	285.00	6,290.1	64.0	-238.7	-40.4	0.00	0.00	0.00
6,400.0	5.00	285.00	6,389.7	66.2	-247.1	-41.8	0.00	0.00	0.00
6,500.0	5.00	285.00	6,489.3	68.5	-255.5	-43.2	0.00	0.00	0.00
6,600.0	5.00	285.00	6,588.9	70.7	-263.9	-44.7	0.00	0.00	0.00
6,700.0	5.00	285.00	6,688.6	73.0	-272.4	-46.1	0.00	0.00	0.00
6,800.0	5.00	285.00	6,788.2	75.2	-280.8	-47.5	0.00	0.00	0.00
6,900.0	5.00	285.00	6,887.8	77.5	-289.2	-48.9	0.00	0.00	0.00
7,000.0	5.00	285.00	6,987.4	79.7	-297.6	-50.4	0.00	0.00	0.00
7,100.0	5.00	285.00	7,087.0	82.0	-306.0	-51.8	0.00	0.00	0.00
7,200.0	5.00	285.00	7,186.7	84.3	-314.5	-53.2	0.00	0.00	0.00
7,300.0	5.00	285.00	7,286.3	86.5	-322.9	-54.6	0.00	0.00	0.00
7,400.0	5.00	285.00	7,385.9	88.8	-331.3	-56.1	0.00	0.00	0.00
7,500.0	5.00	285.00	7,485.5	91.0	-339.7	-57.5	0.00	0.00	0.00
7,600.0	5.00	285.00	7,585.1	93.3	-348.1	-58.9	0.00	0.00	0.00
7,700.0	5.00	285.00	7,684.8	95.5	-356.6	-60.3	0.00	0.00	0.00
7,800.0	5.00	285.00	7,784.4	97.8	-365.0	-61.7	0.00	0.00	0.00
7,900.0	5.00	285.00	7,884.0	100.0	-373.4	-63.2	0.00	0.00	0.00
8,000.0	5.00	285.00	7,983.6	102.3	-381.8	-64.6	0.00	0.00	0.00
8,100.0	5.00	285.00	8,083.2	104.6	-390.2	-66.0	0.00	0.00	0.00
8,200.0	5.00	285.00	8,182.9	106.8	-398.6	-67.4	0.00	0.00	0.00
8,300.0	5.00	285.00	8,282.5	109.1	-407.1	-68.9	0.00	0.00	0.00
8,400.0	5.00	285.00	8,382.1	111.3	-415.5	-70.3	0.00	0.00	0.00
8,500.0	5.00	285.00	8,481.7	113.6	-423.9	-71.7	0.00	0.00	0.00
8,590.0	5.00	285.00	8,571.4	115.6	-431.5	-73.0	0.00	0.00	0.00
8,600.0	5.33	274.54	8,581.3	115.8	-432.4	-73.1	10.00	3.35	-104.81
8,650.0	8.70	242.98	8,631.0	114.2	-438.0	-71.0	10.00	6.73	-63.13
8,700.0	13.15	230.62	8,680.1	108.9	-445.8	-64.9	10.00	8.89	-24.71
8,750.0	17.88	224.57	8,728.2	99.8	-455.6	-54.9	10.00	9.47	-12.10
8,800.0	22.73	221.01	8,775.1	87.1	-467.3	-41.1	10.00	9.69	-7.11
8,850.0	27.63	218.66	8,820.3	70.7	-480.9	-23.5	10.00	9.80	-4.71
8,900.0	32.56	216.97	8,863.6	50.9	-496.3	-2.3	10.00	9.86	-3.38
8,950.0	37.50	215.68	8,904.5	27.8	-513.3	22.4	10.00	9.89	-2.57
9,000.0	42.46	214.66	8,942.8	1.5	-531.7	50.3	10.00	9.91	-2.05
9,050.0	47.42	213.81	8,978.2	-27.7	-551.6	81.3	10.00	9.93	-1.70
9,100.0	52.39	213.08	9,010.4	-59.6	-572.7	115.2	10.00	9.94	-1.45
9,150.0	57.37	212.45	9,039.2	-94.0	-594.8	151.5	10.00	9.95	-1.26
9,200.0	62.34	211.89	9,064.3	-130.6	-617.8	190.2	10.00	9.95	-1.13
9,250.0	67.32	211.37	9,085.5	-169.1	-641.5	230.8	10.00	9.96	-1.03
9,300.0	72.30	210.89	9,102.8	-209.3	-665.8	273.2	10.00	9.96	-0.96
9,330.6	75.34	210.61	9,111.3	-234.5	-680.8	299.7	10.00	9.96	-0.92
FTP (MYOX 31 STATE COM #603H)									
9,350.0	77.28	210.44	9,115.9	-250.8	-690.4	316.9	10.00	9.96	-0.89
9,400.0	82.26	210.00	9,124.8	-293.3	-715.1	361.6	10.00	9.96	-0.87

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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)
9,450.0	87.24	209.57	9,129.3	-336.5	-739.8	407.0	10.00	9.96	-0.85
9,476.5	89.89	209.35	9,130.0	-359.6	-752.9	431.2	10.00	9.96	-0.85
9,500.0	89.89	208.41	9,130.0	-380.1	-764.2	452.8	4.00	0.00	-4.00
9,600.0	89.89	204.41	9,130.2	-469.6	-808.7	546.2	4.00	0.00	-4.00
9,700.0	89.89	200.41	9,130.4	-562.1	-846.8	641.9	4.00	0.00	-4.00
9,800.0	89.89	196.41	9,130.6	-656.9	-878.4	739.4	4.00	0.00	-4.00
9,900.0	89.89	192.41	9,130.8	-753.8	-903.3	838.2	4.00	0.00	-4.00
10,000.0	89.89	188.41	9,131.0	-852.1	-921.3	937.9	4.00	0.00	-4.00
10,100.0	89.89	184.41	9,131.2	-951.5	-932.5	1,037.8	4.00	0.00	-4.00
10,202.1	89.89	180.33	9,131.4	-1,053.4	-936.7	1,139.7	4.00	0.00	-4.00
10,300.0	89.89	180.33	9,131.6	-1,151.3	-937.3	1,237.2	0.00	0.00	0.00
10,400.0	89.89	180.33	9,131.8	-1,251.3	-937.9	1,336.8	0.00	0.00	0.00
10,500.0	89.89	180.33	9,132.0	-1,351.3	-938.4	1,436.4	0.00	0.00	0.00
10,600.0	89.89	180.33	9,132.2	-1,451.3	-939.0	1,536.0	0.00	0.00	0.00
10,700.0	89.89	180.33	9,132.4	-1,551.3	-939.6	1,635.5	0.00	0.00	0.00
10,800.0	89.89	180.33	9,132.6	-1,651.3	-940.2	1,735.1	0.00	0.00	0.00
10,900.0	89.89	180.33	9,132.8	-1,751.3	-940.7	1,834.7	0.00	0.00	0.00
11,000.0	89.89	180.33	9,133.0	-1,851.3	-941.3	1,934.3	0.00	0.00	0.00
11,100.0	89.89	180.33	9,133.2	-1,951.3	-941.9	2,033.9	0.00	0.00	0.00
11,200.0	89.89	180.33	9,133.4	-2,051.3	-942.5	2,133.4	0.00	0.00	0.00
11,300.0	89.89	180.33	9,133.6	-2,151.3	-943.0	2,233.0	0.00	0.00	0.00
11,400.0	89.89	180.33	9,133.7	-2,251.3	-943.6	2,332.6	0.00	0.00	0.00
11,500.0	89.89	180.33	9,133.9	-2,351.3	-944.2	2,432.2	0.00	0.00	0.00
11,600.0	89.89	180.33	9,134.1	-2,451.3	-944.8	2,531.7	0.00	0.00	0.00
11,700.0	89.89	180.33	9,134.3	-2,551.3	-945.3	2,631.3	0.00	0.00	0.00
11,800.0	89.89	180.33	9,134.5	-2,651.3	-945.9	2,730.9	0.00	0.00	0.00
11,900.0	89.89	180.33	9,134.7	-2,751.3	-946.5	2,830.5	0.00	0.00	0.00
12,000.0	89.89	180.33	9,134.9	-2,851.3	-947.1	2,930.1	0.00	0.00	0.00
12,100.0	89.89	180.33	9,135.1	-2,951.3	-947.6	3,029.6	0.00	0.00	0.00
12,200.0	89.89	180.33	9,135.3	-3,051.3	-948.2	3,129.2	0.00	0.00	0.00
12,300.0	89.89	180.33	9,135.5	-3,151.3	-948.8	3,228.8	0.00	0.00	0.00
12,400.0	89.89	180.33	9,135.7	-3,251.3	-949.4	3,328.4	0.00	0.00	0.00
12,500.0	89.89	180.33	9,135.9	-3,351.3	-949.9	3,427.9	0.00	0.00	0.00
12,600.0	89.89	180.33	9,136.1	-3,451.3	-950.5	3,527.5	0.00	0.00	0.00
12,700.0	89.89	180.33	9,136.3	-3,551.3	-951.1	3,627.1	0.00	0.00	0.00
12,800.0	89.89	180.33	9,136.5	-3,651.3	-951.7	3,726.7	0.00	0.00	0.00
12,900.0	89.89	180.33	9,136.7	-3,751.3	-952.2	3,826.3	0.00	0.00	0.00
13,000.0	89.89	180.33	9,136.9	-3,851.3	-952.8	3,925.8	0.00	0.00	0.00
13,100.0	89.89	180.33	9,137.1	-3,951.3	-953.4	4,025.4	0.00	0.00	0.00
13,200.0	89.89	180.33	9,137.2	-4,051.3	-954.0	4,125.0	0.00	0.00	0.00
13,300.0	89.89	180.33	9,137.4	-4,151.3	-954.5	4,224.6	0.00	0.00	0.00
13,400.0	89.89	180.33	9,137.6	-4,251.3	-955.1	4,324.1	0.00	0.00	0.00
13,500.0	89.89	180.33	9,137.8	-4,351.3	-955.7	4,423.7	0.00	0.00	0.00
13,600.0	89.89	180.33	9,138.0	-4,451.3	-956.3	4,523.3	0.00	0.00	0.00
13,700.0	89.89	180.33	9,138.2	-4,551.3	-956.8	4,622.9	0.00	0.00	0.00
13,800.0	89.89	180.33	9,138.4	-4,651.3	-957.4	4,722.5	0.00	0.00	0.00
13,900.0	89.89	180.33	9,138.6	-4,751.3	-958.0	4,822.0	0.00	0.00	0.00
14,000.0	89.89	180.33	9,138.8	-4,851.3	-958.6	4,921.6	0.00	0.00	0.00
14,100.0	89.89	180.33	9,139.0	-4,951.3	-959.1	5,021.2	0.00	0.00	0.00
14,200.0	89.89	180.33	9,139.2	-5,051.3	-959.7	5,120.8	0.00	0.00	0.00
14,300.0	89.89	180.33	9,139.4	-5,151.3	-960.3	5,220.3	0.00	0.00	0.00
14,400.0	89.89	180.33	9,139.6	-5,251.3	-960.9	5,319.9	0.00	0.00	0.00
14,500.0	89.89	180.33	9,139.8	-5,351.3	-961.4	5,419.5	0.00	0.00	0.00
14,600.0	89.89	180.33	9,140.0	-5,451.3	-962.0	5,519.1	0.00	0.00	0.00

Planning Report

Database:	EDM_Users	Local Co-ordinate Reference:	Well MYOX 31 STATE COM #603H
Company:	NORTHERN DELAWARE BASIN	TVD Reference:	RKB = 3014' + 29' @ 3043.0usft (NORAM 21)
Project:	EDDY COUNTY, NM	MD Reference:	RKB = 3014' + 29' @ 3043.0usft (NORAM 21)
Site:	ATLAS	North Reference:	Grid
Well:	MYOX 31 STATE COM #603H	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	9,140.2	-5,551.3	-962.6	5,618.7	0.00	0.00	0.00
14,800.0	89.89	180.33	9,140.4	-5,651.3	-963.2	5,718.2	0.00	0.00	0.00
14,900.0	89.89	180.33	9,140.6	-5,751.3	-963.7	5,817.8	0.00	0.00	0.00
15,000.0	89.89	180.33	9,140.7	-5,851.3	-964.3	5,917.4	0.00	0.00	0.00
15,100.0	89.89	180.33	9,140.9	-5,951.3	-964.9	6,017.0	0.00	0.00	0.00
15,200.0	89.89	180.33	9,141.1	-6,051.3	-965.5	6,116.5	0.00	0.00	0.00
15,300.0	89.89	180.33	9,141.3	-6,151.3	-966.0	6,216.1	0.00	0.00	0.00
15,400.0	89.89	180.33	9,141.5	-6,251.2	-966.6	6,315.7	0.00	0.00	0.00
15,500.0	89.89	180.33	9,141.7	-6,351.2	-967.2	6,415.3	0.00	0.00	0.00
15,600.0	89.89	180.33	9,141.9	-6,451.2	-967.8	6,514.9	0.00	0.00	0.00
15,700.0	89.89	180.33	9,142.1	-6,551.2	-968.3	6,614.4	0.00	0.00	0.00
15,800.0	89.89	180.33	9,142.3	-6,651.2	-968.9	6,714.0	0.00	0.00	0.00
15,900.0	89.89	180.33	9,142.5	-6,751.2	-969.5	6,813.6	0.00	0.00	0.00
16,000.0	89.89	180.33	9,142.7	-6,851.2	-970.1	6,913.2	0.00	0.00	0.00
16,100.0	89.89	180.33	9,142.9	-6,951.2	-970.6	7,012.7	0.00	0.00	0.00
16,200.0	89.89	180.33	9,143.1	-7,051.2	-971.2	7,112.3	0.00	0.00	0.00
16,300.0	89.89	180.33	9,143.3	-7,151.2	-971.8	7,211.9	0.00	0.00	0.00
16,400.0	89.89	180.33	9,143.5	-7,251.2	-972.4	7,311.5	0.00	0.00	0.00
16,500.0	89.89	180.33	9,143.7	-7,351.2	-972.9	7,411.1	0.00	0.00	0.00
16,600.0	89.89	180.33	9,143.9	-7,451.2	-973.5	7,510.6	0.00	0.00	0.00
16,700.0	89.89	180.33	9,144.1	-7,551.2	-974.1	7,610.2	0.00	0.00	0.00
16,800.0	89.89	180.33	9,144.2	-7,651.2	-974.7	7,709.8	0.00	0.00	0.00
16,900.0	89.89	180.33	9,144.4	-7,751.2	-975.2	7,809.4	0.00	0.00	0.00
17,000.0	89.89	180.33	9,144.6	-7,851.2	-975.8	7,909.0	0.00	0.00	0.00
17,100.0	89.89	180.33	9,144.8	-7,951.2	-976.4	8,008.5	0.00	0.00	0.00
17,200.0	89.89	180.33	9,145.0	-8,051.2	-977.0	8,108.1	0.00	0.00	0.00
17,300.0	89.89	180.33	9,145.2	-8,151.2	-977.5	8,207.7	0.00	0.00	0.00
17,400.0	89.89	180.33	9,145.4	-8,251.2	-978.1	8,307.3	0.00	0.00	0.00
17,500.0	89.89	180.33	9,145.6	-8,351.2	-978.7	8,406.8	0.00	0.00	0.00
17,600.0	89.89	180.33	9,145.8	-8,451.2	-979.3	8,506.4	0.00	0.00	0.00
17,700.0	89.89	180.33	9,146.0	-8,551.2	-979.8	8,606.0	0.00	0.00	0.00
17,800.0	89.89	180.33	9,146.2	-8,651.2	-980.4	8,705.6	0.00	0.00	0.00
17,900.0	89.89	180.33	9,146.4	-8,751.2	-981.0	8,805.2	0.00	0.00	0.00
18,000.0	89.89	180.33	9,146.6	-8,851.2	-981.6	8,904.7	0.00	0.00	0.00
18,100.0	89.89	180.33	9,146.8	-8,951.2	-982.1	9,004.3	0.00	0.00	0.00
18,200.0	89.89	180.33	9,147.0	-9,051.2	-982.7	9,103.9	0.00	0.00	0.00
18,300.0	89.89	180.33	9,147.2	-9,151.2	-983.3	9,203.5	0.00	0.00	0.00
18,400.0	89.89	180.33	9,147.4	-9,251.2	-983.9	9,303.0	0.00	0.00	0.00
18,500.0	89.89	180.33	9,147.6	-9,351.2	-984.4	9,402.6	0.00	0.00	0.00
18,600.0	89.89	180.33	9,147.7	-9,451.2	-985.0	9,502.2	0.00	0.00	0.00
18,700.0	89.89	180.33	9,147.9	-9,551.2	-985.6	9,601.8	0.00	0.00	0.00
18,800.0	89.89	180.33	9,148.1	-9,651.2	-986.2	9,701.4	0.00	0.00	0.00
18,900.0	89.89	180.33	9,148.3	-9,751.2	-986.7	9,800.9	0.00	0.00	0.00
19,000.0	89.89	180.33	9,148.5	-9,851.2	-987.3	9,900.5	0.00	0.00	0.00
19,100.0	89.89	180.33	9,148.7	-9,951.2	-987.9	10,000.1	0.00	0.00	0.00
19,112.8	89.89	180.33	9,148.7	-9,964.0	-988.0	10,012.9	0.00	0.00	0.00
LTP (MYOX 31 STATE COM #603H)									
19,200.0	89.89	180.33	9,148.9	-10,051.2	-988.5	10,099.7	0.00	0.00	0.00
19,242.7	89.89	180.33	9,149.0	-10,093.9	-988.7	10,142.2	0.00	0.00	0.00
PBHL (MYOX 31 STATE COM #603H)									

Planning Report

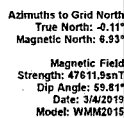
Database:	EDM_Users	Local Co-ordinate Reference:	Well MYOX 31 STATE COM #603H
Company:	NORTHERN DELAWARE BASIN	TVD Reference:	RKB = 3014' + 29' @ 3043.0usft (NORAM 21)
Project:	EDDY COUNTY, NM	MD Reference:	RKB = 3014' + 29' @ 3043.0usft (NORAM 21)
Site:	ATLAS	North Reference:	Grid
Well:	MYOX 31 STATE COM #603H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PLAN 1		

Design Targets

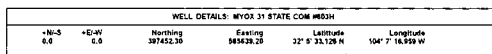
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
FTP (MYOX 31 STATE C	0.00	0.00	9,130.0	-81.7	-928.5	397,370.60	564,710.70	32° 5' 32.335 N	104° 7' 27.754 W
- plan misses target center by 291.7usft at 9330.6usft MD (9111.3 TVD, -234.5 N, -680.8 E)									
- Circle (radius 50.0)									
PBHL (MYOX 31 STATE	-0.11	0.33	9,149.0	-10,093.9	-988.7	387,358.40	564,650.50	32° 3' 53.250 N	104° 7' 28.679 W
- plan hits target center									
- Rectangle (sides W100.0 H10,012.2 D20.0)									
LTP (MYOX 31 STATE C	0.00	0.00	9,149.0	-9,964.0	-988.4	387,488.30	564,650.80	32° 3' 54.536 N	104° 7' 28.673 W
- plan misses target center by 0.5usft at 19112.8usft MD (9148.7 TVD, -9964.0 N, -988.0 E)									
- Point									

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	4.4	-16.4	BUILD - 1.00
3,900.1	3,899.4	9.8	-36.7	HOLD - 4689.9 at 3900.1 MD
8,590.0	8,571.4	115.6	-431.5	KOP - DLS 10.00 TFO -75.71
9,476.5	9,130.0	-359.6	-752.9	EOC/TRN - DLS 4.00 TFO -90.03
10,202.1	9,131.4	-1,053.4	-936.7	Start 9040.7 hold at 10202.1 MD
19,242.7	9,149.0	-10,093.9	-988.7	TD at 19242.7

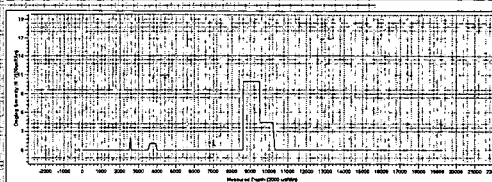
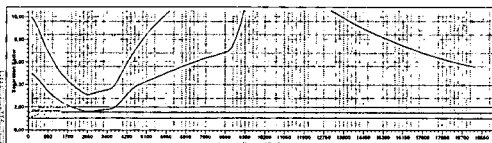


Project: EDDY COUNTY, NM
Site: ATLAS
We: MYOX 31 STATE COM #S03H
Wellbore: OWB
Design: PLAN 1
GL: 3014.0
RKB = 3014' + 29' @ 3042.0usft (NORAM 21)



DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (MYOX 31 STATE COM #603H#130.0		-81.7	-828.5	387370.60	544710.70	32° 5' 32.335 N	104° 7' 27.754 W
LTP (MYOX 31 STATE COM #603H#149.0		-866.0	-888.4	387488.30	544650.80	32° 3' 54.538 N	104° 7' 28.673 W
PBHL (MYOX 31 STATE COM #603H#158.0		-1009.3	-888.7	387358.40	544650.30	32° 3' 32.250 N	104° 7' 28.679 W

[illegible]