

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED
JAN 22 2020

Form C-10
Revised August 1, 2017
Submit one copy to appropriate District Office

☒ AMENDED REPORT
As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-45949		2 Pool Code 98220		3 Pool Name Purple Sage; Wolfcamp	
4 Property Code 308744		5 Property Name MYOX 31 STATE COM		6 Well Number 602H	
7 GRID NO. 229137		8 Operator Name COG OPERATING, LLC		9 Elevation 3013'	

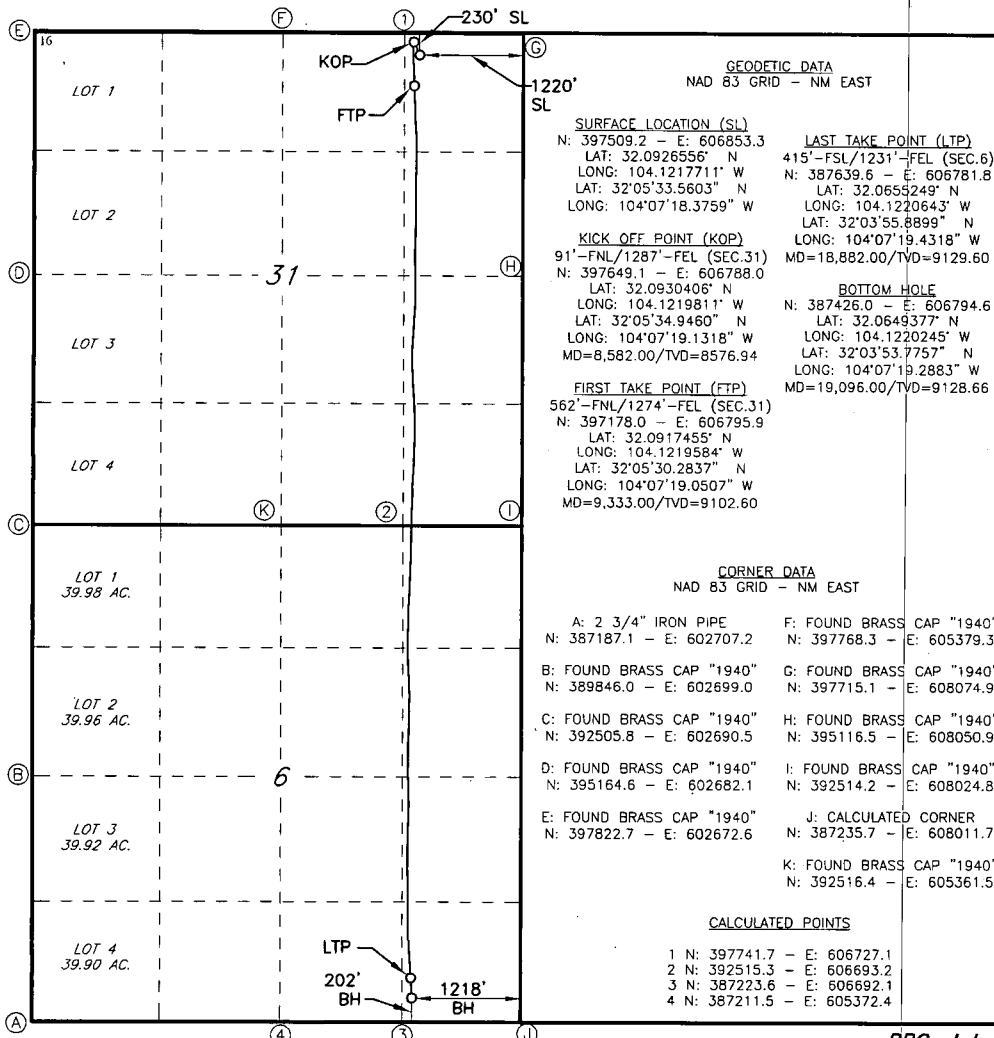
10 Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
A	31	25S	28E		230	NORTH	1220	EAST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	6	26S	28E		202	SOUTH	1218	EAST	EDDY

12 Dedicated Acres 640	13 Joint or Infill	14 Consolidation Code	15 Order No.
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No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Amanda Avery 1/21/2020
Signature Date
Amanda Avery
Printed Name
aavery@concho.com
E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

03-12-2019

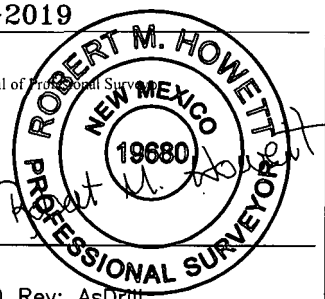
Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number

1-09-2020 Rev: AsDrill



RRC-Job No.: LS9030363AD

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JAN 22 2020

EMNRD-OCD ARTESIA

Intent ☐ As Drilled ☒API #
30-015-45949Operator Name:
COG Operating LLCProperty Name:
Myox 31 State ComWell Number
602H

Kick Off Point (KOP)

UL A	Section 31	Township 25S	Range 28E	Lot	Feet 91	From N/S North	Feet 1287	From E/W East	County Eddy
Latitude 32.0930406					Longitude 104.1219811			NAD 83	

First Take Point (FTP)

UL A	Section 31	Township 25S	Range 28E	Lot	Feet 562	From N/S North	Feet 1274	From E/W East	County Eddy
Latitude 32.0917455					Longitude 104.1219584			NAD 83	

Last Take Point (LTP)

UL P	Section 6	Township 26S	Range 28E	Lot	Feet 415	From N/S South	Feet 1231	From E/W East	County Eddy
Latitude 32.0655249					Longitude 104.1220643			NAD	

Is this well the defining well for the Horizontal Spacing Unit?

☐ No

Is this well an infill well?

☐ Yes

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #
30-015-45948Operator Name:
COG Operating LLCProperty Name:
Myox 31 State ComWell Number
601H

KZ 06/29/2018

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JAN 22 2020

EMNRD-OCD ARTESIA

NORTHERN DELAWARE BASIN

EDDY COUNTY, NM

ATLAS

MYOX 31 STATE COM #602H

OWB

Design: AWP

*A Certified Directional Survey
requested as required by NMOCD
Rule 19.15.16.14 NMAC*

Standard Survey Report

18 October, 2019

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 31 STATE COM #602H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Site:	ATLAS	MD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Well:	MYOX 31 STATE COM #602H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDM_Users

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:		Northing:	371,480.80 usft
From:	Map	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 #602H				
Well Position	+N/-S	0.0 usft	Northing:	397,451.69 usft	Latitude:	32° 5' 33.119 N
	+E/-W	0.0 usft	Easting:	565,669.20 usft	Longitude:	104° 7' 16.610 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	3,013.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/3/2019	6.95	59.83	47,569.40299555

Design:		AWP			
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	180.54	

Survey Program	Date	10/18/2019		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.0	8,325.0	GYRO-INTER (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
8,551.0	19,096.0	MWD-CURVE/LATERAL (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction

Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.36	101.06	100.0	-0.1	0.3	0.1	0.36	0.36	0.00
125.0	0.34	110.66	125.0	-0.1	0.5	0.1	0.25	-0.08	38.40
150.0	0.45	108.87	150.0	-0.2	0.6	0.2	0.44	0.44	-7.16
175.0	0.36	102.63	175.0	-0.2	0.8	0.2	0.40	-0.36	-24.96
200.0	0.32	85.63	200.0	-0.2	0.9	0.2	0.43	-0.16	-68.00
225.0	0.32	359.01	225.0	-0.1	1.0	0.1	1.76	0.00	-346.48
250.0	0.53	329.17	250.0	0.0	0.9	0.0	1.19	0.84	-119.36

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Well:	MYOX 31 STATE COM #602H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDM_Users

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)	
275.0	0.49	326.45	275.0	0.2	0.8	-0.2	0.19	-0.16	-10.88	
300.0	0.50	336.95	300.0	0.4	0.7	-0.4	0.36	0.04	42.00	
325.0	0.44	334.43	325.0	0.6	0.6	-0.6	0.25	-0.24	-10.08	
350.0	0.38	336.87	350.0	0.8	0.6	-0.8	0.25	-0.24	9.76	
375.0	0.43	326.38	375.0	0.9	0.5	-0.9	0.36	0.20	-41.96	
400.0	0.39	332.92	400.0	1.1	0.4	-1.1	0.25	-0.16	26.16	
425.0	0.30	330.66	425.0	1.2	0.3	-1.2	0.36	-0.36	-9.04	
450.0	0.06	210.17	450.0	1.2	0.3	-1.2	1.34	-0.96	-481.96	
475.0	0.30	148.44	475.0	1.2	0.3	-1.2	1.11	0.96	-246.92	
500.0	0.50	155.37	500.0	1.0	0.4	-1.0	0.82	0.80	27.72	
525.0	0.66	157.06	525.0	0.8	0.5	-0.8	0.64	0.64	6.76	
550.0	0.82	146.82	550.0	0.5	0.6	-0.5	0.83	0.64	-40.96	
575.0	0.73	147.98	575.0	0.2	0.8	-0.2	0.37	-0.36	4.64	
600.0	0.76	146.92	600.0	-0.1	1.0	0.0	0.13	0.12	-4.24	
625.0	0.71	150.99	625.0	-0.3	1.2	0.3	0.29	-0.20	16.28	
650.0	0.72	146.00	650.0	-0.6	1.3	0.6	0.25	0.04	-19.96	
675.0	0.84	145.79	675.0	-0.9	1.5	0.9	0.48	0.48	-0.84	
700.0	0.83	149.24	700.0	-1.2	1.7	1.2	0.21	-0.04	13.80	
725.0	0.84	162.49	725.0	-1.5	1.9	1.5	0.77	0.04	53.00	
750.0	0.89	167.23	750.0	-1.9	2.0	1.9	0.35	0.20	18.96	
775.0	0.93	173.25	775.0	-2.3	2.0	2.3	0.41	0.16	24.08	
800.0	0.88	176.78	800.0	-2.7	2.1	2.6	0.30	-0.20	14.12	
825.0	0.93	182.80	825.0	-3.1	2.1	3.0	0.43	0.20	24.08	
850.0	0.96	180.19	850.0	-3.5	2.1	3.5	0.21	0.12	-10.44	
875.0	1.01	184.63	875.0	-3.9	2.0	3.9	0.36	0.20	17.76	
900.0	1.19	192.96	899.9	-4.4	2.0	4.4	0.96	0.72	33.32	
925.0	1.18	194.08	924.9	-4.9	1.8	4.9	0.10	-0.04	4.48	
950.0	1.17	193.36	949.9	-5.4	1.7	5.4	0.07	-0.04	-2.88	
975.0	1.23	194.20	974.9	-5.9	1.6	5.9	0.25	0.24	3.36	
1,000.0	1.24	191.17	999.9	-6.4	1.5	6.4	0.26	0.04	-12.12	
1,025.0	1.29	196.60	1,024.9	-6.9	1.3	6.9	0.52	0.20	21.72	
1,050.0	1.36	199.26	1,049.9	-7.5	1.2	7.5	0.37	0.28	10.64	
1,075.0	1.45	200.43	1,074.9	-8.1	1.0	8.1	0.38	0.36	4.68	
1,100.0	1.51	200.55	1,099.9	-8.7	0.7	8.7	0.24	0.24	0.48	
1,125.0	1.57	203.69	1,124.9	-9.3	0.5	9.3	0.41	0.24	12.56	
1,150.0	1.53	202.33	1,149.9	-9.9	0.2	9.9	0.22	-0.16	-5.44	
1,175.0	1.54	208.58	1,174.9	-10.5	-0.1	10.5	0.67	0.04	25.00	
1,200.0	1.10	212.89	1,199.9	-11.0	-0.4	11.0	1.80	-1.76	17.24	
1,225.0	0.65	263.00	1,224.9	-11.2	-0.6	11.2	3.38	-1.80	200.44	
1,250.0	0.81	292.30	1,249.9	-11.2	-0.9	11.2	1.60	0.64	117.20	
1,275.0	0.95	305.51	1,274.9	-11.0	-1.3	11.0	0.98	0.56	52.84	
1,300.0	0.95	305.52	1,299.9	-10.8	-1.6	10.8	0.00	0.00	0.04	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 31 STATE COM #602H
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Site:	ATLAS	MD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Well:	MYOX 31 STATE COM #602H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDM_Users

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)	
1,325.0	1.04	306.93	1,324.8	-10.5	-2.0	10.5	0.37	0.36	5.64	
1,350.0	1.06	309.62	1,349.8	-10.2	-2.3	10.2	0.21	0.08	10.76	
1,375.0	1.03	309.50	1,374.8	-9.9	-2.7	10.0	0.12	-0.12	-0.48	
1,400.0	1.04	308.02	1,399.8	-9.6	-3.0	9.7	0.11	0.04	-5.92	
1,425.0	1.02	305.22	1,424.8	-9.4	-3.4	9.4	0.22	-0.08	-11.20	
1,450.0	0.97	304.10	1,449.8	-9.1	-3.7	9.2	0.21	-0.20	-4.48	
1,475.0	1.08	303.23	1,474.8	-8.9	-4.1	8.9	0.44	0.44	-3.48	
1,500.0	1.07	304.62	1,499.8	-8.6	-4.5	8.7	0.11	-0.04	5.56	
1,525.0	1.12	304.75	1,524.8	-8.3	-4.9	8.4	0.20	0.20	0.52	
1,550.0	0.97	306.71	1,549.8	-8.1	-5.3	8.1	0.62	-0.60	7.84	
1,575.0	0.63	338.50	1,574.8	-7.8	-5.5	7.9	2.19	-1.36	127.16	
1,600.0	0.63	341.34	1,599.8	-7.6	-5.6	7.6	0.12	0.00	11.36	
1,625.0	0.49	358.14	1,624.8	-7.3	-5.6	7.4	0.86	-0.56	67.20	
1,650.0	0.50	41.83	1,649.8	-7.1	-5.6	7.2	1.47	0.04	174.76	
1,675.0	0.86	77.35	1,674.8	-7.0	-5.3	7.1	2.15	1.44	142.08	
1,700.0	1.20	89.08	1,699.8	-7.0	-4.9	7.0	1.59	1.36	46.92	
1,725.0	1.17	92.62	1,724.8	-7.0	-4.3	7.0	0.32	-0.12	14.16	
1,750.0	1.61	92.69	1,749.8	-7.0	-3.7	7.0	1.76	1.76	0.28	
1,775.0	2.07	92.44	1,774.8	-7.0	-2.9	7.1	1.84	1.84	-1.00	
1,800.0	2.18	91.59	1,799.8	-7.1	-2.0	7.1	0.46	0.44	-3.40	
1,825.0	2.71	90.79	1,824.7	-7.1	-0.9	7.1	2.12	2.12	-3.20	
1,850.0	2.76	89.23	1,849.7	-7.1	0.2	7.1	0.36	0.20	-6.24	
1,875.0	2.91	90.82	1,874.7	-7.1	1.5	7.1	0.68	0.60	6.36	
1,900.0	3.00	89.57	1,899.6	-7.1	2.8	7.1	0.44	0.36	-5.00	
1,925.0	3.19	88.15	1,924.6	-7.1	4.1	7.0	0.82	0.76	-5.68	
1,950.0	3.74	82.08	1,949.6	-6.9	5.6	6.9	2.64	2.20	-24.28	
1,975.0	3.90	76.82	1,974.5	-6.6	7.3	6.6	1.54	0.64	-21.04	
2,000.0	4.20	75.05	1,999.4	-6.2	9.0	6.1	1.30	1.20	-7.08	
2,025.0	4.17	73.38	2,024.4	-5.7	10.7	5.6	0.50	-0.12	-6.68	
2,050.0	4.27	68.80	2,049.3	-5.1	12.5	5.0	1.41	0.40	-18.32	
2,075.0	4.48	59.95	2,074.2	-4.3	14.2	4.2	2.82	0.84	-35.40	
2,100.0	4.52	58.05	2,099.2	-3.3	15.9	3.1	0.62	0.16	-7.60	
2,125.0	4.52	57.23	2,124.1	-2.2	17.5	2.1	0.26	0.00	-3.28	
2,150.0	4.59	51.63	2,149.0	-1.1	19.1	0.9	1.80	0.28	-22.40	
2,175.0	4.69	39.66	2,173.9	0.3	20.6	-0.5	3.89	0.40	-47.88	
2,200.0	4.78	25.46	2,198.8	2.1	21.7	-2.3	4.69	0.36	-56.80	
2,225.0	4.72	9.03	2,223.7	4.0	22.3	-4.2	5.43	-0.24	-65.72	
2,250.0	4.53	358.14	2,248.7	6.0	22.4	-6.2	3.59	-0.76	-43.56	
2,275.0	4.31	337.36	2,273.6	7.9	22.0	-8.1	6.43	-0.88	-83.12	
2,300.0	4.25	322.85	2,298.5	9.5	21.1	-9.7	4.33	-0.24	-58.04	
2,325.0	4.32	314.84	2,323.5	10.9	19.9	-11.1	2.41	0.28	-32.04	
2,350.0	4.33	314.49	2,348.4	12.2	18.5	-12.4	0.11	0.04	-1.40	

Survey Report

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Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDM_Users

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)	
2,375.0	4.41	314.79	2,373.3	13.5	17.2	-13.7	0.33	0.32	1.20	
2,400.0	4.14	313.71	2,398.2	14.8	15.8	-15.0	1.13	-1.08	-4.32	
2,425.0	3.44	307.61	2,423.2	15.9	14.6	-16.1	3.23	-2.80	-24.40	
2,450.0	2.89	299.03	2,448.2	16.7	13.4	-16.8	2.90	-2.20	-34.32	
2,475.0	2.56	295.10	2,473.1	17.2	12.4	-17.4	1.52	-1.32	-15.72	
2,500.0	2.45	294.80	2,498.1	17.7	11.4	-17.8	0.44	-0.44	-1.20	
2,525.0	2.53	294.34	2,523.1	18.1	10.4	-18.2	0.33	0.32	-1.84	
2,550.0	2.64	293.91	2,548.0	18.6	9.4	-18.7	0.45	0.44	-1.72	
2,575.0	2.63	291.42	2,573.0	19.1	8.3	-19.1	0.46	-0.04	-9.96	
2,600.0	2.57	290.99	2,598.0	19.5	7.3	-19.5	0.25	-0.24	-1.72	
2,625.0	2.62	291.66	2,623.0	19.9	6.2	-19.9	0.23	0.20	2.68	
2,650.0	2.68	290.08	2,647.9	20.3	5.1	-20.3	0.38	0.24	-6.32	
2,675.0	2.63	291.51	2,672.9	20.7	4.0	-20.7	0.33	-0.20	5.72	
2,700.0	2.67	291.45	2,697.9	21.1	3.0	-21.1	0.16	0.16	-0.24	
2,725.0	2.50	289.41	2,722.9	21.5	1.9	-21.5	0.77	-0.68	-8.16	
2,750.0	2.55	288.43	2,747.8	21.9	0.9	-21.9	0.26	0.20	-3.92	
2,775.0	2.45	288.27	2,772.8	22.2	-0.2	-22.2	0.40	-0.40	-0.64	
2,800.0	2.56	289.45	2,797.8	22.6	-1.2	-22.6	0.49	0.44	4.72	
2,825.0	2.51	288.86	2,822.8	22.9	-2.2	-22.9	0.23	-0.20	-2.36	
2,850.0	2.55	290.35	2,847.7	23.3	-3.3	-23.3	0.31	0.16	5.96	
2,875.0	2.50	288.61	2,872.7	23.7	-4.3	-23.6	0.37	-0.20	-6.96	
2,900.0	2.51	288.94	2,897.7	24.0	-5.4	-24.0	0.07	0.04	1.32	
2,925.0	2.50	286.89	2,922.7	24.4	-6.4	-24.3	0.36	-0.04	-8.20	
2,950.0	2.52	288.41	2,947.6	24.7	-7.4	-24.6	0.28	0.08	6.08	
2,975.0	2.52	287.86	2,972.6	25.0	-8.5	-24.9	0.10	0.00	-2.20	
3,000.0	2.49	287.24	2,997.6	25.4	-9.5	-25.3	0.16	-0.12	-2.48	
3,025.0	2.50	287.83	3,022.6	25.7	-10.6	-25.6	0.11	0.04	2.36	
3,050.0	2.41	290.35	3,047.6	26.0	-11.6	-25.9	0.56	-0.36	10.08	
3,075.0	2.50	288.41	3,072.5	26.4	-12.6	-26.3	0.49	0.36	-7.76	
3,100.0	2.43	290.12	3,097.5	26.7	-13.6	-26.6	0.41	-0.28	6.84	
3,125.0	2.60	290.50	3,122.5	27.1	-14.6	-27.0	0.68	0.68	1.52	
3,150.0	2.66	290.93	3,147.5	27.5	-15.7	-27.4	0.25	0.24	1.72	
3,175.0	2.61	289.74	3,172.4	27.9	-16.8	-27.8	0.30	-0.20	-4.76	
3,200.0	2.60	289.09	3,197.4	28.3	-17.8	-28.1	0.12	-0.04	-2.60	
3,225.0	2.60	289.62	3,222.4	28.7	-18.9	-28.5	0.10	0.00	2.12	
3,250.0	2.29	293.45	3,247.4	29.1	-19.9	-28.9	1.40	-1.24	15.32	
3,275.0	2.10	299.28	3,272.3	29.5	-20.8	-29.3	1.17	-0.76	23.32	
3,300.0	1.79	310.09	3,297.3	30.0	-21.5	-29.8	1.92	-1.24	43.24	
3,325.0	1.72	313.04	3,322.3	30.5	-22.0	-30.3	0.46	-0.28	11.80	
3,350.0	1.68	317.06	3,347.3	31.0	-22.6	-30.8	0.50	-0.16	16.08	
3,375.0	1.73	316.92	3,372.3	31.5	-23.1	-31.3	0.20	0.20	-0.56	
3,400.0	1.77	318.28	3,397.3	32.1	-23.6	-31.9	0.23	0.16	5.44	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 31 STATE COM #602H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Site:	ATLAS	MD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Well:	MYOX 31 STATE COM #602H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDM_Users

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)	
3,425.0	1.80	316.64	3,422.3	32.7	-24.1	-32.5	0.24	0.12	-6.56	
3,450.0	1.75	317.45	3,447.3	33.3	-24.6	-33.0	0.22	-0.20	3.24	
3,475.0	1.77	319.22	3,472.2	33.8	-25.1	-33.6	0.23	0.08	7.08	
3,500.0	1.72	317.34	3,497.2	34.4	-25.7	-34.2	0.30	-0.20	-7.52	
3,525.0	1.68	321.25	3,522.2	35.0	-26.1	-34.7	0.49	-0.16	15.64	
3,550.0	1.79	317.36	3,547.2	35.5	-26.6	-35.3	0.64	0.44	-15.56	
3,575.0	1.75	320.27	3,572.2	36.1	-27.1	-35.9	0.39	-0.16	11.64	
3,600.0	1.83	320.71	3,597.2	36.7	-27.6	-36.5	0.32	0.32	1.76	
3,625.0	1.75	326.68	3,622.2	37.3	-28.1	-37.1	0.81	-0.32	23.88	
3,650.0	1.54	337.55	3,647.2	38.0	-28.4	-37.7	1.50	-0.84	43.48	
3,675.0	1.38	353.60	3,672.2	38.6	-28.6	-38.3	1.75	-0.64	64.20	
3,700.0	1.37	2.84	3,697.1	39.2	-28.6	-38.9	0.89	-0.04	36.96	
3,725.0	1.43	3.75	3,722.1	39.8	-28.6	-39.5	0.26	0.24	3.64	
3,750.0	1.35	5.63	3,747.1	40.4	-28.5	-40.1	0.37	-0.32	7.52	
3,775.0	1.30	6.33	3,772.1	41.0	-28.5	-40.7	0.21	-0.20	2.80	
3,800.0	1.23	9.31	3,797.1	41.5	-28.4	-41.2	0.38	-0.28	11.92	
3,825.0	1.28	4.11	3,822.1	42.1	-28.3	-41.8	0.50	0.20	-20.80	
3,850.0	1.25	6.59	3,847.1	42.6	-28.3	-42.3	0.25	-0.12	9.92	
3,875.0	1.24	10.65	3,872.1	43.1	-28.2	-42.9	0.36	-0.04	16.24	
3,900.0	1.17	7.80	3,897.1	43.7	-28.1	-43.4	0.37	-0.28	-11.40	
3,925.0	1.26	7.36	3,922.1	44.2	-28.0	-43.9	0.36	0.36	-1.76	
3,950.0	1.16	1.18	3,947.1	44.7	-28.0	-44.4	0.66	-0.40	-24.72	
3,975.0	1.27	356.88	3,972.1	45.2	-28.0	-45.0	0.57	0.44	-17.20	
4,000.0	1.43	342.80	3,997.1	45.8	-28.1	-45.6	1.47	0.64	-56.32	
4,025.0	1.06	359.89	4,022.1	46.3	-28.2	-46.1	2.08	-1.48	68.36	
4,050.0	0.98	358.68	4,047.1	46.8	-28.2	-46.5	0.33	-0.32	-4.84	
4,075.0	0.99	1.41	4,072.1	47.2	-28.2	-47.0	0.19	0.04	10.92	
4,100.0	0.99	2.16	4,097.1	47.7	-28.2	-47.4	0.05	0.00	3.00	
4,125.0	1.01	2.93	4,122.1	48.1	-28.2	-47.8	0.10	0.08	3.08	
4,150.0	0.94	4.01	4,147.0	48.5	-28.2	-48.2	0.29	-0.28	4.32	
4,175.0	1.05	6.36	4,172.0	48.9	-28.1	-48.7	0.47	0.44	9.40	
4,200.0	1.12	6.18	4,197.0	49.4	-28.1	-49.2	0.28	0.28	-0.72	
4,225.0	1.11	6.16	4,222.0	49.9	-28.0	-49.6	0.04	-0.04	-0.08	
4,250.0	1.25	6.98	4,247.0	50.4	-28.0	-50.1	0.56	0.56	3.28	
4,275.0	1.24	4.07	4,272.0	51.0	-27.9	-50.7	0.26	-0.04	-11.64	
4,300.0	1.08	0.42	4,297.0	51.5	-27.9	-51.2	0.70	-0.64	-14.60	
4,325.0	0.97	356.02	4,322.0	51.9	-27.9	-51.6	0.54	-0.44	-17.60	
4,350.0	1.00	1.11	4,347.0	52.3	-27.9	-52.1	0.37	0.12	20.36	
4,375.0	0.82	355.95	4,372.0	52.7	-27.9	-52.5	0.79	-0.72	-20.64	
4,400.0	0.76	358.45	4,397.0	53.1	-27.9	-52.8	0.28	-0.24	10.00	
4,425.0	0.75	358.44	4,422.0	53.4	-27.9	-53.1	0.04	-0.04	-0.04	
4,450.0	0.78	350.71	4,447.0	53.7	-28.0	-53.5	0.43	0.12	-30.92	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 31 STATE COM #602H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Site:	ATLAS	MD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Well:	MYOX 31 STATE COM #602H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDM_Users

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)
4,475.0	0.84	347.85	4,472.0	54.1	-28.0	-53.8	0.29	0.24	-11.44
4,500.0	0.67	337.50	4,497.0	54.4	-28.1	-54.1	0.87	-0.68	-41.40
4,525.0	0.63	340.24	4,522.0	54.7	-28.2	-54.4	0.20	-0.16	10.96
4,550.0	0.56	334.14	4,547.0	54.9	-28.3	-54.6	0.38	-0.28	-24.40
4,575.0	0.45	317.20	4,572.0	55.1	-28.5	-54.8	0.74	-0.44	-67.76
4,600.0	0.40	282.63	4,597.0	55.2	-28.6	-54.9	1.03	-0.20	-138.28
4,625.0	0.38	305.00	4,622.0	55.2	-28.8	-55.0	0.61	-0.08	89.48
4,650.0	0.37	317.00	4,647.0	55.3	-28.9	-55.1	0.32	-0.04	48.00
4,675.0	0.46	328.62	4,672.0	55.5	-29.0	-55.2	0.49	0.36	46.48
4,700.0	0.40	318.01	4,697.0	55.6	-29.1	-55.4	0.40	-0.24	-42.44
4,725.0	0.46	325.22	4,722.0	55.8	-29.2	-55.5	0.32	0.24	28.84
4,750.0	0.57	322.96	4,747.0	56.0	-29.4	-55.7	0.45	0.44	-9.04
4,775.0	0.70	331.49	4,772.0	56.2	-29.5	-55.9	0.64	0.52	34.12
4,800.0	1.45	344.52	4,797.0	56.6	-29.7	-56.4	3.14	3.00	52.12
4,825.0	1.91	351.87	4,822.0	57.4	-29.8	-57.1	2.03	1.84	29.40
4,850.0	2.12	350.33	4,847.0	58.2	-29.9	-57.9	0.87	0.84	-6.16
4,875.0	2.03	352.26	4,871.9	59.1	-30.1	-58.8	0.46	-0.36	7.72
4,900.0	2.03	348.77	4,896.9	60.0	-30.2	-59.7	0.49	0.00	-13.96
4,925.0	2.15	352.41	4,921.9	60.9	-30.4	-60.6	0.72	0.48	14.56
4,950.0	2.17	353.32	4,946.9	61.8	-30.5	-61.5	0.16	0.08	3.64
4,975.0	2.08	351.32	4,971.9	62.7	-30.6	-62.5	0.47	-0.36	-8.00
5,000.0	2.17	355.34	4,996.9	63.7	-30.7	-63.4	0.70	0.36	16.08
5,025.0	2.23	355.86	5,021.8	64.6	-30.8	-64.3	0.25	0.24	2.08
5,050.0	2.13	353.68	5,046.8	65.6	-30.9	-65.3	0.52	-0.40	-8.72
5,075.0	2.21	352.28	5,071.8	66.5	-31.0	-66.2	0.38	0.32	-5.60
5,100.0	2.27	353.93	5,096.8	67.5	-31.1	-67.2	0.35	0.24	6.60
5,125.0	2.25	352.69	5,121.8	68.5	-31.2	-68.2	0.21	-0.08	-4.96
5,150.0	2.23	350.26	5,146.7	69.4	-31.4	-69.1	0.39	-0.08	-9.72
5,175.0	2.19	350.61	5,171.7	70.4	-31.5	-70.1	0.17	-0.16	1.40
5,200.0	2.20	351.20	5,196.7	71.3	-31.7	-71.0	0.10	0.04	2.36
5,225.0	2.25	352.24	5,221.7	72.3	-31.8	-72.0	0.26	0.20	4.16
5,250.0	2.06	349.51	5,246.7	73.2	-32.0	-72.9	0.86	-0.76	-10.92
5,275.0	2.21	350.74	5,271.7	74.1	-32.1	-73.8	0.63	0.60	4.92
5,300.0	2.09	350.28	5,296.6	75.1	-32.3	-74.7	0.48	-0.48	-1.84
5,325.0	1.98	351.45	5,321.6	75.9	-32.4	-75.6	0.47	-0.44	4.68
5,350.0	2.01	352.96	5,346.6	76.8	-32.5	-76.5	0.24	0.12	6.04
5,375.0	2.14	355.01	5,371.6	77.7	-32.6	-77.4	0.60	0.52	8.20
5,400.0	2.02	352.60	5,396.6	78.6	-32.7	-78.3	0.59	-0.48	-9.64
5,425.0	2.04	353.47	5,421.6	79.5	-32.8	-79.2	0.15	0.08	3.48
5,450.0	2.08	353.96	5,446.5	80.4	-32.9	-80.1	0.17	0.16	1.96
5,475.0	2.01	350.98	5,471.5	81.3	-33.1	-80.9	0.51	-0.28	-11.92
5,500.0	1.85	350.50	5,496.5	82.1	-33.2	-81.8	0.64	-0.64	-1.92

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 31 STATE COM #602H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Site:	ATLAS	MD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Well:	MYOX 31 STATE COM #602H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDM_Users

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)	
5,525.0	1.75	349.73	5,521.5	82.9	-33.3	-82.5	0.41	-0.40	-3.08	
5,550.0	1.59	346.93	5,546.5	83.6	-33.5	-83.3	0.72	-0.64	-11.20	
5,575.0	1.49	348.82	5,571.5	84.2	-33.6	-83.9	0.45	-0.40	7.56	
5,600.0	1.51	351.75	5,596.5	84.9	-33.7	-84.6	0.32	0.08	11.72	
5,625.0	1.61	356.74	5,621.5	85.5	-33.8	-85.2	0.67	0.40	19.96	
5,650.0	1.44	353.86	5,646.4	86.2	-33.8	-85.9	0.75	-0.68	-11.52	
5,675.0	1.47	353.45	5,671.4	86.8	-33.9	-86.5	0.13	0.12	-1.64	
5,700.0	1.57	355.19	5,696.4	87.5	-34.0	-87.2	0.44	0.40	6.96	
5,725.0	1.45	352.06	5,721.4	88.2	-34.1	-87.8	0.58	-0.48	-12.52	
5,750.0	1.49	354.11	5,746.4	88.8	-34.1	-88.5	0.26	0.16	8.20	
5,775.0	1.67	355.85	5,771.4	89.5	-34.2	-89.2	0.75	0.72	6.96	
5,800.0	1.84	356.42	5,796.4	90.2	-34.2	-89.9	0.68	0.68	2.28	
5,825.0	2.01	358.67	5,821.4	91.1	-34.3	-90.8	0.74	0.68	9.00	
5,850.0	2.06	359.09	5,846.4	92.0	-34.3	-91.6	0.21	0.20	1.68	
5,875.0	2.11	359.11	5,871.3	92.9	-34.3	-92.6	0.20	0.20	0.08	
5,900.0	2.02	359.08	5,896.3	93.8	-34.3	-93.5	0.36	-0.36	-0.12	
5,925.0	1.97	359.96	5,921.3	94.7	-34.3	-94.3	0.23	-0.20	3.52	
5,950.0	1.80	2.28	5,946.3	95.5	-34.3	-95.1	0.75	-0.68	9.28	
5,975.0	1.70	5.89	5,971.3	96.2	-34.3	-95.9	0.60	-0.40	14.44	
6,000.0	1.37	8.16	5,996.3	96.9	-34.2	-96.6	1.34	-1.32	9.08	
6,025.0	1.02	3.94	6,021.3	97.4	-34.1	-97.1	1.44	-1.40	-16.88	
6,050.0	0.96	8.34	6,046.3	97.8	-34.1	-97.5	0.39	-0.24	17.60	
6,075.0	1.02	3.43	6,071.3	98.3	-34.0	-97.9	0.42	0.24	-19.64	
6,100.0	1.01	2.87	6,096.3	98.7	-34.0	-98.4	0.06	-0.04	-2.24	
6,125.0	0.99	357.68	6,121.3	99.2	-34.0	-98.8	0.37	-0.08	-20.76	
6,150.0	0.87	0.65	6,146.3	99.6	-34.0	-99.2	0.52	-0.48	11.88	
6,175.0	0.97	1.48	6,171.3	100.0	-34.0	-99.6	0.40	0.40	3.32	
6,200.0	0.80	357.42	6,196.3	100.3	-34.0	-100.0	0.72	-0.68	-16.24	
6,225.0	0.87	3.53	6,221.2	100.7	-34.0	-100.4	0.45	0.28	24.44	
6,250.0	0.83	3.94	6,246.2	101.1	-34.0	-100.8	0.16	-0.16	1.64	
6,275.0	0.85	8.59	6,271.2	101.4	-33.9	-101.1	0.28	0.08	18.60	
6,300.0	0.91	15.98	6,296.2	101.8	-33.9	-101.5	0.51	0.24	29.56	
6,325.0	0.84	18.42	6,321.2	102.2	-33.7	-101.9	0.32	-0.28	9.76	
6,350.0	0.88	18.30	6,346.2	102.5	-33.6	-102.2	0.16	0.16	-0.48	
6,375.0	0.70	22.83	6,371.2	102.9	-33.5	-102.5	0.76	-0.72	18.12	
6,400.0	0.54	40.27	6,396.2	103.1	-33.4	-102.8	0.98	-0.64	69.76	
6,425.0	0.56	30.82	6,421.2	103.3	-33.2	-103.0	0.37	0.08	-37.80	
6,450.0	0.46	32.21	6,446.2	103.5	-33.1	-103.2	0.40	-0.40	5.56	
6,475.0	0.35	29.26	6,471.2	103.6	-33.0	-103.3	0.45	-0.44	-11.80	
6,500.0	0.34	51.53	6,496.2	103.7	-32.9	-103.4	0.53	-0.04	89.08	
6,525.0	0.32	47.99	6,521.2	103.8	-32.8	-103.5	0.11	-0.08	-14.16	
6,550.0	0.29	41.00	6,546.2	103.9	-32.7	-103.6	0.19	-0.12	-27.96	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 31 STATE COM #602H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Site:	ATLAS	MD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Well:	MYOX 31 STATE COM #602H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDM_Users

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)	
6,575.0	0.45	63.50	6,571.2	104.0	-32.6	-103.7	0.85	0.64	90.00	
6,600.0	0.48	77.81	6,596.2	104.1	-32.4	-103.8	0.48	0.12	57.24	
6,625.0	0.58	59.20	6,621.2	104.2	-32.2	-103.9	0.79	0.40	-74.44	
6,650.0	0.54	66.79	6,646.2	104.3	-32.0	-104.0	0.34	-0.16	30.36	
6,675.0	0.68	59.29	6,671.2	104.4	-31.7	-104.1	0.64	0.56	-30.00	
6,700.0	0.53	61.32	6,696.2	104.5	-31.5	-104.2	0.61	-0.60	8.12	
6,725.0	0.82	33.68	6,721.2	104.7	-31.3	-104.4	1.71	1.16	-110.56	
6,750.0	1.80	8.78	6,746.2	105.3	-31.2	-105.0	4.44	3.92	-99.60	
6,775.0	2.32	5.83	6,771.2	106.2	-31.0	-105.9	2.12	2.08	-11.80	
6,800.0	2.58	2.24	6,796.2	107.2	-31.0	-106.9	1.21	1.04	-14.36	
6,825.0	2.63	1.43	6,821.1	108.4	-30.9	-108.1	0.25	0.20	-3.24	
6,850.0	2.58	2.00	6,846.1	109.5	-30.9	-109.2	0.23	-0.20	2.28	
6,875.0	2.60	3.00	6,871.1	110.6	-30.9	-110.3	0.20	0.08	4.00	
6,900.0	2.67	3.52	6,896.1	111.8	-30.8	-111.5	0.30	0.28	2.08	
6,925.0	2.69	4.43	6,921.0	112.9	-30.7	-112.7	0.19	0.08	3.64	
6,950.0	2.48	3.48	6,946.0	114.1	-30.6	-113.8	0.86	-0.84	-3.80	
6,975.0	2.43	1.91	6,971.0	115.1	-30.6	-114.9	0.34	-0.20	-6.28	
7,000.0	2.28	1.10	6,996.0	116.2	-30.5	-115.9	0.61	-0.60	-3.24	
7,025.0	2.22	3.90	7,021.0	117.2	-30.5	-116.9	0.50	-0.24	11.20	
7,050.0	2.25	0.94	7,045.9	118.1	-30.5	-117.8	0.48	0.12	-11.84	
7,075.0	2.10	359.49	7,070.9	119.1	-30.5	-118.8	0.64	-0.60	-5.80	
7,100.0	2.08	1.84	7,095.9	120.0	-30.4	-119.7	0.35	-0.08	9.40	
7,125.0	2.03	357.54	7,120.9	120.9	-30.5	-120.6	0.65	-0.20	-17.20	
7,150.0	1.91	356.33	7,145.9	121.7	-30.5	-121.4	0.51	-0.48	-4.84	
7,175.0	1.87	355.66	7,170.9	122.6	-30.6	-122.3	0.18	-0.16	-2.68	
7,200.0	1.80	352.60	7,195.8	123.4	-30.6	-123.1	0.48	-0.28	-12.24	
7,225.0	1.78	356.39	7,220.8	124.1	-30.7	-123.8	0.48	-0.08	15.16	
7,250.0	1.82	355.33	7,245.8	124.9	-30.8	-124.6	0.21	0.16	-4.24	
7,275.0	1.81	355.73	7,270.8	125.7	-30.8	-125.4	0.06	-0.04	1.60	
7,300.0	1.63	3.94	7,295.8	126.5	-30.8	-126.2	1.22	-0.72	32.84	
7,325.0	1.75	4.03	7,320.8	127.2	-30.8	-126.9	0.48	0.48	0.36	
7,350.0	1.72	3.57	7,345.8	127.9	-30.7	-127.7	0.13	-0.12	-1.84	
7,375.0	1.61	11.65	7,370.8	128.7	-30.6	-128.4	1.04	-0.44	32.32	
7,400.0	1.80	13.50	7,395.8	129.4	-30.5	-129.1	0.79	0.76	7.40	
7,425.0	1.84	9.75	7,420.7	130.2	-30.3	-129.9	0.50	0.16	-15.00	
7,450.0	1.73	13.69	7,445.7	130.9	-30.2	-130.6	0.66	-0.44	15.76	
7,475.0	1.85	14.51	7,470.7	131.7	-30.0	-131.4	0.49	0.48	3.28	
7,500.0	1.91	11.85	7,495.7	132.5	-29.8	-132.2	0.42	0.24	-10.64	
7,525.0	1.81	11.54	7,520.7	133.3	-29.6	-133.0	0.40	-0.40	-1.24	
7,550.0	1.83	13.84	7,545.7	134.1	-29.4	-133.8	0.30	0.08	9.20	
7,575.0	1.61	2.60	7,570.7	134.8	-29.3	-134.5	1.61	-0.88	-44.96	
7,600.0	1.42	317.93	7,595.7	135.4	-29.5	-135.1	4.66	-0.76	-178.68	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 31 STATE COM #602H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Site:	ATLAS	MD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Well:	MYOX 31 STATE COM #602H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDM_Users

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)	
7,625.0	1.47	304.32	7,620.6	135.8	-30.0	-135.5	1.38	0.20	-54.44	
7,650.0	1.53	299.08	7,645.6	136.1	-30.6	-135.8	0.60	0.24	-20.96	
7,675.0	1.78	295.76	7,670.6	136.5	-31.2	-136.2	1.07	1.00	-13.28	
7,700.0	1.90	293.58	7,695.6	136.8	-31.9	-136.5	0.56	0.48	-8.72	
7,725.0	1.88	288.51	7,720.6	137.1	-32.7	-136.8	0.67	-0.08	-20.28	
7,750.0	1.95	290.51	7,745.6	137.4	-33.5	-137.0	0.39	0.28	8.00	
7,775.0	2.11	287.06	7,770.6	137.7	-34.3	-137.3	0.81	0.64	-13.80	
7,800.0	2.11	284.84	7,795.6	137.9	-35.2	-137.6	0.33	0.00	-8.88	
7,825.0	2.11	285.45	7,820.5	138.1	-36.1	-137.8	0.09	0.00	2.44	
7,850.0	2.30	285.17	7,845.5	138.4	-37.0	-138.0	0.76	0.76	-1.12	
7,875.0	2.28	282.91	7,870.5	138.6	-38.0	-138.3	0.37	-0.08	-9.04	
7,900.0	2.37	282.60	7,895.5	138.9	-39.0	-138.5	0.36	0.36	-1.24	
7,925.0	2.35	281.98	7,920.5	139.1	-40.0	-138.7	0.13	-0.08	-2.48	
7,950.0	2.51	283.92	7,945.4	139.3	-41.0	-138.9	0.72	0.64	7.76	
7,975.0	2.60	282.28	7,970.4	139.6	-42.1	-139.2	0.46	0.36	-6.56	
8,000.0	2.59	279.16	7,995.4	139.8	-43.2	-139.4	0.57	-0.04	-12.48	
8,025.0	2.61	278.48	8,020.4	140.0	-44.3	-139.5	0.15	0.08	-2.72	
8,050.0	2.39	279.33	8,045.3	140.1	-45.4	-139.7	0.89	-0.88	3.40	
8,075.0	2.32	278.18	8,070.3	140.3	-46.4	-139.8	0.34	-0.28	-4.60	
8,100.0	2.34	274.37	8,095.3	140.4	-47.4	-139.9	0.62	0.08	-15.24	
8,125.0	2.22	266.15	8,120.3	140.4	-48.4	-139.9	1.39	-0.48	-32.88	
8,150.0	2.31	264.94	8,145.3	140.3	-49.4	-139.9	0.41	0.36	-4.84	
8,175.0	2.48	261.65	8,170.2	140.2	-50.5	-139.7	0.87	0.68	-13.16	
8,200.0	2.54	258.88	8,195.2	140.0	-51.5	-139.5	0.54	0.24	-11.08	
8,225.0	2.41	255.48	8,220.2	139.8	-52.6	-139.3	0.78	-0.52	-13.60	
8,250.0	2.33	257.66	8,245.2	139.5	-53.6	-139.0	0.48	-0.32	8.72	
8,275.0	2.34	261.10	8,270.1	139.3	-54.6	-138.8	0.56	0.04	13.76	
8,300.0	2.44	259.68	8,295.1	139.2	-55.6	-138.6	0.46	0.40	-5.68	
8,325.0	2.34	264.69	8,320.1	139.0	-56.6	-138.5	0.93	-0.40	20.04	
8,422.0	2.02	277.21	8,417.0	139.1	-60.3	-138.5	0.59	-0.33	12.91	
FIRST MWD SVY @ 8422'MD										
8,551.0	1.80	299.22	8,546.0	140.3	-64.3	-139.7	0.59	-0.17	17.06	
8,582.0	3.26	218.81	8,576.9	139.9	-65.3	-139.3	11.13	4.71	-259.39	
8,644.0	10.58	189.55	8,638.5	132.9	-67.4	-132.3	12.74	11.81	-47.19	
8,691.0	16.14	184.24	8,684.2	122.1	-68.6	-121.5	12.10	11.83	-11.30	
8,738.0	21.09	182.78	8,728.7	107.1	-69.5	-106.5	10.58	10.53	-3.11	
8,785.0	26.26	181.53	8,771.7	88.3	-70.2	-87.6	11.05	11.00	-2.66	
8,832.0	32.10	180.99	8,812.7	65.4	-70.6	-64.7	12.44	12.43	-1.15	
8,879.0	37.37	179.67	8,851.4	38.6	-70.8	-38.0	11.33	11.21	-2.81	
8,926.0	41.85	178.45	8,887.6	8.7	-70.3	-8.0	9.67	9.53	-2.60	
8,973.0	46.26	176.94	8,921.3	-24.0	-68.9	24.6	9.64	9.38	-3.21	
9,020.0	49.85	175.77	8,952.7	-58.9	-66.7	59.5	7.86	7.64	-2.49	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 31 STATE COM#602H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Site:	ATLAS	MD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Well:	MYOX 31 STATE COM #602H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDM_Users

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)
9,067.0	53.60	175.96	8,981.8	-95.6	-64.1	96.2	7.99	7.98	0.40
9,074.0	54.09	176.10	8,986.0	-101.3	-63.7	101.9	7.17	6.99	1.96
FTP @ 9074'MD / 8986'TVD									
9,114.0	56.89	176.85	9,008.6	-134.2	-61.6	134.8	7.17	7.00	1.88
9,161.0	60.44	177.95	9,033.1	-174.3	-59.8	174.8	7.81	7.55	2.34
9,208.0	63.50	178.98	9,055.2	-215.7	-58.7	216.3	6.79	6.51	2.19
9,255.0	65.93	180.00	9,075.2	-258.2	-58.3	258.8	5.53	5.17	2.17
9,301.0	69.61	179.33	9,092.6	-300.8	-58.1	301.3	8.11	8.00	-1.46
9,333.0	74.07	177.94	9,102.6	-331.2	-57.4	331.7	14.54	13.94	-4.34
9,364.0	76.01	177.47	9,110.6	-361.1	-56.2	361.6	6.43	6.26	-1.52
9,395.0	78.10	177.26	9,117.6	-391.3	-54.8	391.8	6.77	6.74	-0.68
9,442.0	82.58	177.38	9,125.4	-437.6	-52.6	438.0	9.54	9.53	0.26
9,489.0	82.67	177.57	9,131.5	-484.1	-50.6	484.6	0.44	0.19	0.40
9,518.0	85.49	177.74	9,134.5	-513.0	-49.4	513.4	9.74	9.72	0.59
9,612.0	89.38	178.33	9,138.7	-606.8	-46.2	607.2	4.19	4.14	0.63
9,706.0	89.33	177.81	9,139.7	-700.7	-43.0	701.1	0.56	-0.05	-0.55
9,800.0	89.49	177.30	9,140.7	-794.6	-39.0	795.0	0.57	0.17	-0.54
9,893.0	89.55	177.32	9,141.5	-887.5	-34.6	887.8	0.07	0.06	0.02
9,987.0	88.98	179.71	9,142.7	-981.5	-32.2	981.7	2.61	-0.61	2.54
10,081.0	90.42	180.65	9,143.2	-1,075.5	-32.5	1,075.7	1.83	1.53	1.00
10,174.0	91.06	181.25	9,142.0	-1,168.5	-34.0	1,168.7	0.94	0.69	0.65
10,268.0	90.11	180.54	9,141.0	-1,262.4	-35.5	1,262.7	1.26	-1.01	-0.76
10,362.0	90.19	180.48	9,140.8	-1,356.4	-36.3	1,356.7	0.11	0.09	-0.06
10,456.0	89.83	180.31	9,140.7	-1,450.4	-37.0	1,450.7	0.42	-0.38	-0.18
10,550.0	89.77	180.16	9,141.1	-1,544.4	-37.4	1,544.7	0.17	-0.06	-0.16
10,644.0	89.42	179.54	9,141.7	-1,638.4	-37.1	1,638.7	0.76	-0.37	-0.66
10,738.0	89.14	179.18	9,142.9	-1,732.4	-36.1	1,732.7	0.49	-0.30	-0.38
10,832.0	90.43	181.22	9,143.3	-1,826.4	-36.4	1,826.7	2.57	1.37	2.17
10,925.0	91.41	181.88	9,141.8	-1,919.4	-38.9	1,919.6	1.27	1.05	0.71
11,019.0	90.39	181.14	9,140.3	-2,013.3	-41.4	2,013.6	1.34	-1.09	-0.79
11,113.0	90.37	180.70	9,139.7	-2,107.3	-42.9	2,107.6	0.47	-0.02	-0.47
11,207.0	89.91	180.67	9,139.4	-2,201.3	-44.0	2,201.6	0.49	-0.49	-0.03
11,301.0	86.77	177.55	9,142.2	-2,295.2	-42.6	2,295.5	4.71	-3.34	-3.32
11,394.0	86.56	179.58	9,147.6	-2,388.0	-40.2	2,388.3	2.19	-0.23	2.18
11,488.0	88.43	180.34	9,151.7	-2,481.9	-40.2	2,482.2	2.15	1.99	0.81
11,582.0	88.54	180.29	9,154.2	-2,575.9	-40.7	2,576.2	0.13	0.12	-0.05
11,676.0	91.21	182.06	9,154.4	-2,669.9	-42.6	2,670.1	3.41	2.84	1.88
11,769.0	92.33	183.72	9,151.5	-2,762.7	-47.3	2,763.0	2.15	1.20	1.78
11,863.0	91.32	183.03	9,148.5	-2,856.5	-52.8	2,856.9	1.30	-1.07	-0.73
11,957.0	93.67	184.71	9,144.4	-2,950.2	-59.2	2,950.6	3.07	2.50	1.79
12,050.0	92.78	182.88	9,139.2	-3,042.8	-65.3	3,043.3	2.19	-0.96	-1.97
12,144.0	90.56	181.36	9,136.5	-3,136.7	-68.8	3,137.2	2.86	-2.36	-1.62

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 31 STATE COM #602H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Site:	ATLAS	MD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Well:	MYOX 31 STATE COM #602H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDM_Users

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)	
12,238.0	89.23	179.72	9,136.6	-3,230.7	-69.7	3,231.2	2.25	-1.41	-1.74	
12,332.0	89.33	178.50	9,137.8	-3,324.7	-68.2	3,325.2	1.30	0.11	-1.30	
12,426.0	88.88	177.74	9,139.3	-3,418.6	-65.1	3,419.1	0.94	-0.48	-0.81	
12,520.0	89.42	176.60	9,140.7	-3,512.5	-60.5	3,512.9	1.34	0.57	-1.21	
12,614.0	89.51	176.15	9,141.5	-3,606.3	-54.5	3,606.6	0.49	0.10	-0.48	
12,707.0	89.08	176.63	9,142.7	-3,699.1	-48.7	3,699.4	0.69	-0.46	0.52	
12,801.0	89.39	178.06	9,143.9	-3,793.0	-44.3	3,793.2	1.56	0.33	1.52	
12,895.0	89.61	178.46	9,144.8	-3,886.9	-41.5	3,887.2	0.49	0.23	0.43	
12,989.0	91.06	179.27	9,144.2	-3,980.9	-39.6	3,981.1	1.77	1.54	0.86	
13,083.0	93.17	181.94	9,140.7	-4,074.8	-40.6	4,075.0	3.62	2.24	2.84	
13,177.0	92.52	181.88	9,136.1	-4,168.7	-43.7	4,168.9	0.69	-0.69	-0.06	
13,271.0	90.08	181.50	9,133.9	-4,262.6	-46.5	4,262.8	2.63	-2.60	-0.40	
13,365.0	91.63	183.35	9,132.5	-4,356.5	-50.5	4,356.8	2.57	1.65	1.97	
13,459.0	91.57	183.26	9,129.9	-4,450.3	-55.9	4,450.6	0.12	-0.06	-0.10	
13,553.0	89.34	181.90	9,129.2	-4,544.2	-60.1	4,544.6	2.78	-2.37	-1.45	
13,647.0	92.18	181.82	9,127.9	-4,638.1	-63.2	4,638.5	3.02	3.02	-0.09	
13,740.0	92.01	181.59	9,124.5	-4,731.0	-65.9	4,731.4	0.31	-0.18	-0.25	
13,835.0	90.72	181.51	9,122.3	-4,826.0	-68.5	4,826.4	1.36	-1.36	-0.08	
13,928.0	89.59	181.37	9,122.0	-4,918.9	-70.9	4,919.4	1.22	-1.22	-0.15	
14,022.0	90.18	180.96	9,122.2	-5,012.9	-72.8	5,013.4	0.76	0.63	-0.44	
14,116.0	88.11	180.86	9,123.6	-5,106.9	-74.3	5,107.4	2.20	-2.20	-0.11	
14,210.0	87.23	180.49	9,127.4	-5,200.8	-75.4	5,201.3	1.02	-0.94	-0.39	
14,303.0	85.69	180.63	9,133.2	-5,293.6	-76.3	5,294.1	1.66	-1.66	0.15	
14,397.0	89.31	182.94	9,137.3	-5,387.5	-79.2	5,388.0	4.57	3.85	2.46	
14,491.0	89.18	180.73	9,138.5	-5,481.4	-82.2	5,481.9	2.35	-0.14	-2.35	
14,585.0	90.90	182.04	9,138.4	-5,575.4	-84.5	5,575.9	2.30	1.83	1.39	
14,679.0	90.53	181.77	9,137.3	-5,669.3	-87.6	5,669.9	0.49	-0.39	-0.29	
14,773.0	90.51	182.31	9,136.4	-5,763.2	-90.9	5,763.8	0.57	-0.02	0.57	
14,866.0	90.69	183.45	9,135.4	-5,856.1	-95.6	5,856.7	1.24	0.19	1.23	
14,960.0	90.73	182.47	9,134.3	-5,950.0	-100.5	5,950.7	1.04	0.04	-1.04	
15,054.0	90.16	182.17	9,133.5	-6,043.9	-104.3	6,044.6	0.69	-0.61	-0.32	
15,148.0	89.96	182.36	9,133.4	-6,137.8	-108.0	6,138.6	0.29	-0.21	0.20	
15,242.0	90.38	180.65	9,133.2	-6,231.8	-110.5	6,232.5	1.87	0.45	-1.82	
15,336.0	89.34	179.43	9,133.4	-6,325.8	-110.5	6,326.5	1.71	-1.11	-1.30	
15,429.0	90.28	179.41	9,133.7	-6,418.8	-109.6	6,419.5	1.01	1.01	-0.02	
15,523.0	90.98	177.49	9,132.7	-6,512.7	-107.0	6,513.4	2.17	0.74	-2.04	
15,617.0	89.88	175.90	9,132.0	-6,606.6	-101.6	6,607.2	2.06	-1.17	-1.69	
15,711.0	90.57	177.04	9,131.6	-6,700.4	-95.8	6,701.0	1.42	0.73	1.21	
15,805.0	89.62	177.77	9,131.4	-6,794.3	-91.6	6,794.8	1.27	-1.01	0.78	
15,899.0	90.52	179.53	9,131.3	-6,888.3	-89.4	6,888.8	2.10	0.96	1.87	
15,993.0	91.55	181.53	9,129.6	-6,982.2	-90.2	6,982.8	2.39	1.10	2.13	
16,087.0	90.81	180.64	9,127.7	-7,076.2	-92.0	7,076.7	1.23	-0.79	-0.95	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 31 STATE COM #602H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Site:	ATLAS	MD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Well:	MYOX 31 STATE COM #602H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDM_Users

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)	
16,180.0	90.24	181.45	9,126.8	-7,169.2	-93.7	7,169.7	1.06	-0.61	0.87	
16,274.0	89.84	181.56	9,126.8	-7,263.1	-96.2	7,263.7	0.44	-0.43	0.12	
16,368.0	91.63	183.85	9,125.6	-7,357.0	-100.6	7,357.6	3.09	1.90	2.44	
16,462.0	89.94	180.06	9,124.3	-7,450.9	-103.8	7,451.6	4.41	-1.80	-4.03	
16,556.0	90.49	180.63	9,123.9	-7,544.9	-104.4	7,545.6	0.84	0.59	0.61	
16,650.0	88.64	178.68	9,124.6	-7,638.9	-103.8	7,639.6	2.86	-1.97	-2.07	
16,744.0	90.20	178.81	9,125.6	-7,732.9	-101.8	7,733.5	1.67	1.66	0.14	
16,838.0	88.99	177.99	9,126.3	-7,826.8	-99.1	7,827.4	1.55	-1.29	-0.87	
16,932.0	90.51	178.69	9,126.7	-7,920.8	-96.4	7,921.4	1.78	1.62	0.74	
17,025.0	89.11	179.37	9,127.0	-8,013.8	-94.8	8,014.3	1.67	-1.51	0.73	
17,119.0	89.52	180.97	9,128.1	-8,107.8	-95.1	8,108.3	1.76	0.44	1.70	
17,213.0	89.63	182.63	9,128.8	-8,201.7	-98.1	8,202.3	1.77	0.12	1.77	
17,307.0	90.50	182.23	9,128.7	-8,295.6	-102.1	8,296.2	1.02	0.93	-0.43	
17,401.0	88.22	181.48	9,129.7	-8,389.6	-105.1	8,390.2	2.55	-2.43	-0.80	
17,495.0	90.64	180.84	9,130.7	-8,483.5	-107.0	8,484.2	2.66	2.57	-0.68	
17,588.0	88.85	179.32	9,131.1	-8,576.5	-107.1	8,577.2	2.52	-1.92	-1.63	
17,682.0	91.16	181.11	9,131.1	-8,670.5	-107.5	8,671.2	3.11	2.46	1.90	
17,776.0	91.48	180.02	9,128.9	-8,764.5	-108.4	8,765.1	1.21	0.34	-1.16	
17,870.0	89.33	176.85	9,128.3	-8,858.4	-105.8	8,859.0	4.07	-2.29	-3.37	
17,963.0	90.27	178.42	9,128.6	-8,951.4	-102.0	8,951.9	1.97	1.01	1.69	
18,057.0	88.94	177.91	9,129.2	-9,045.3	-99.0	9,045.8	1.52	-1.41	-0.54	
18,151.0	90.17	179.71	9,130.0	-9,139.3	-97.0	9,139.8	2.32	1.31	1.91	
18,245.0	92.43	180.88	9,127.8	-9,233.2	-97.5	9,233.7	2.71	2.40	1.24	
18,338.0	89.36	180.35	9,126.4	-9,326.2	-98.5	9,326.7	3.35	-3.30	-0.57	
18,432.0	89.59	178.35	9,127.2	-9,420.2	-97.5	9,420.7	2.14	0.24	-2.13	
18,526.0	89.22	175.85	9,128.2	-9,514.1	-92.7	9,514.5	2.69	-0.39	-2.66	
18,620.0	89.90	176.91	9,128.9	-9,607.9	-86.8	9,608.3	1.34	0.72	1.13	
18,714.0	89.99	176.27	9,129.0	-9,701.7	-81.2	9,702.0	0.69	0.10	-0.68	
18,807.0	89.59	176.56	9,129.4	-9,794.5	-75.4	9,794.8	0.53	-0.43	0.31	
18,901.0	90.05	177.78	9,129.7	-9,888.4	-70.7	9,888.6	1.39	0.49	1.30	
18,976.6	90.15	176.78	9,129.5	-9,963.9	-67.1	9,964.1	1.33	0.14	-1.32	
LTP @ 18976.6'MD / 9129.5'TVD										
18,995.0	90.18	176.54	9,129.5	-9,982.3	-66.1	9,982.5	1.33	0.14	-1.32	
19,027.0	90.51	175.84	9,129.3	-10,014.2	-63.9	10,014.4	2.42	1.03	-2.19	
LAST MWD SVY @ 19027'MD										
19,096.0	90.51	175.84	9,128.7	-10,083.0	-58.9	10,083.1	0.00	0.00	0.00	
PTD @ 19096'MD / 9128.7'TVD										

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 31 STATE COM #602H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Site:	ATLAS	MD Reference:	RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM)
Well:	MYOX 31 STATE COM #602H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDM_Users

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									
Tgt @ 3343'VS (MYO	2.30	1.43	9,131.0	-3,342.6	-59.1	394,109.07	565,610.15	32° 5' 0.040 N	104° 7' 17.373 W
- actual wellpath misses target center by 11.2usft at 12350.1usft MD (9138.0 TVD, -3342.8 N, -67.7 E)									
- Rectangle (sides W100.0 H584.0 D20.0)									
Tgt @ 4580'VS (MYO	-0.18	0.30	9,132.0	-4,579.5	-66.8	392,872.16	565,602.41	32° 4' 47.799 N	104° 7' 17.491 W
- actual wellpath misses target center by 6.1usft at 13588.5usft MD (9129.3 TVD, -4579.7 N, -61.3 E)									
- Rectangle (sides W100.0 H1,237.0 D20.0)									
PBHL (MYOX 31 STA	-0.07	0.26	9,137.0	-10,084.9	-95.0	387,366.80	565,574.20	32° 3' 53.316 N	104° 7' 17.944 W
- actual wellpath misses target center by 37.1usft at 19095.2usft MD (9128.7 TVD, -10082.2 N, -59.0 E)									
- Rectangle (sides W100.0 H5,505.3 D20.0)									
FTP (MYOX 31 STATI	0.00	0.00	9,138.0	-99.3	-34.9	397,352.40	565,634.30	32° 5' 32.137 N	104° 7' 17.018 W
- actual wellpath misses target center by 130.9usft at 9152.5usft MD (9028.9 TVD, -167.0 N, -60.1 E)									
- Circle (radius 50.0)									
LTP (MYOX 31 STATE	0.00	0.00	9,161.3	-9,954.9	-94.6	387,496.80	565,574.60	32° 3' 54.602 N	104° 7' 17.937 W
- actual wellpath misses target center by 41.6usft at 18966.2usft MD (9129.5 TVD, -9953.6 N, -67.7 E)									
- Point									

Design Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	
8,422.0	8,417.0	139.1	-60.3	FIRST MWD SVY @ 8422'MD
9,074.0	8,986.0	-101.3	-63.7	FTP @ 9074'MD / 8986'TVD
18,976.6	9,129.5	-9,963.9	-67.1	LTP @ 18976.6'MD / 9129.5'TVD
19,027.0	9,129.3	-10,014.2	-63.9	LAST MWD SVY @ 19027'MD
19,096.0	9,128.7	-10,083.0	-58.9	PTD @ 19096'MD / 9128.7'TVD

Checked By: _____ Approved By: _____ Date: _____