

RECEIVED

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 RD., 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, New Mexico 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☒ AMENDED REPORT

As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-44006	Pool Code 98220	Pool Name Purple Sage; Wolfcamp
Property Code 38521	Property Name MYOX 21 STATE COM	Well Number 33H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2976.9'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	21	25-S	28-E		220	SOUTH	1679	WEST	EDDY

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
C	16	25-S	28-E		201	NORTH	1465	WEST	EDDY

Dedicated Acres 640	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

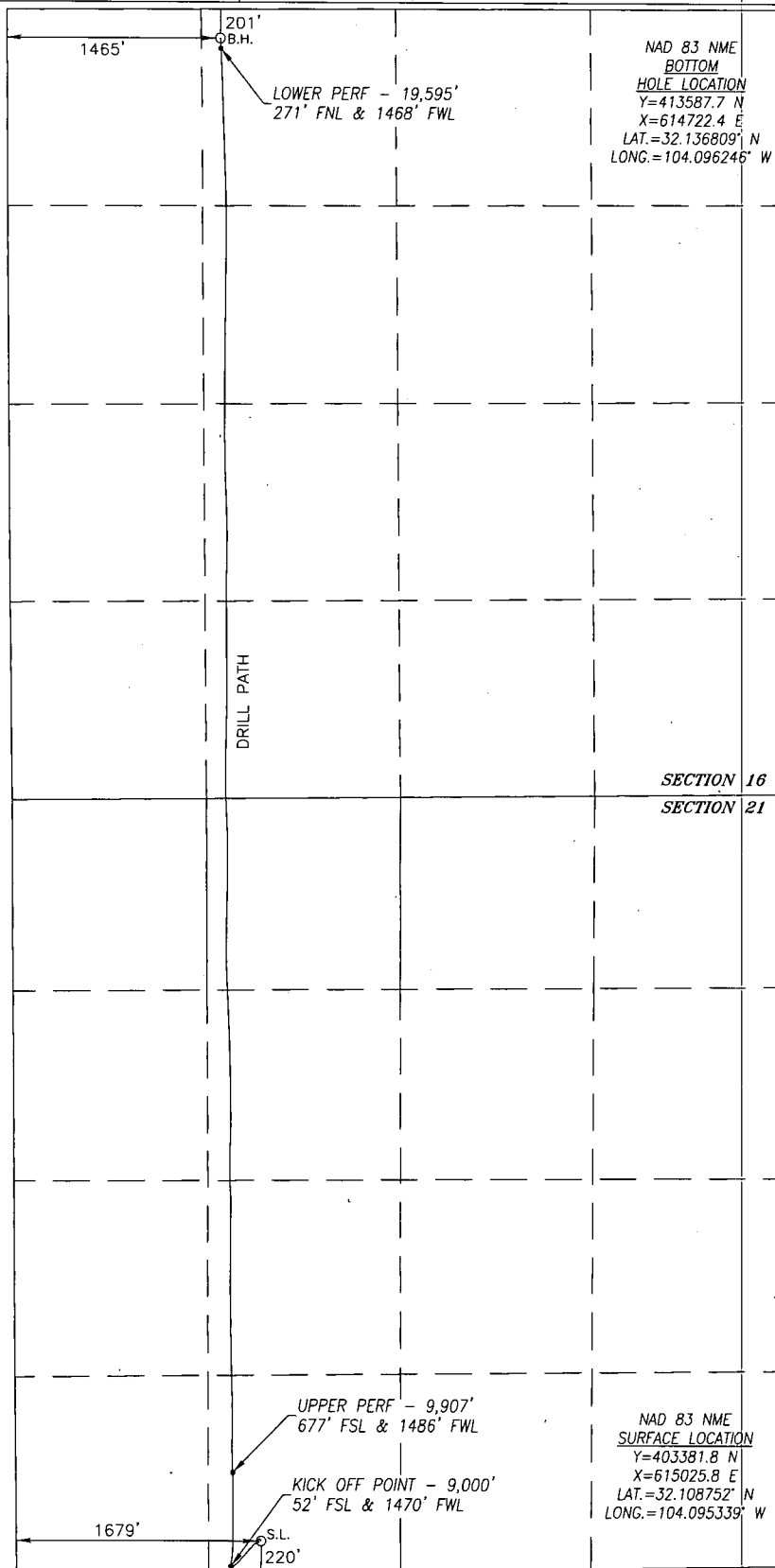
SEE PAGE 2

PAGE 1 OF 2

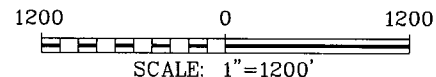
W.O. #19-2117

DRAWN BY: WN

Property Code 38521	Property Name MYOX 21 STATE COM	Well Number 33H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2976.9'



SURFACE INFO AND BOREPATH SHOWN HEREON IS BASED ON DIRECTIONAL SURVEY REPORT PROVIDED BY COG OPERATING, LLC FOR THE MYOX 21 STATE COM #33H SUPPLIED TO HARCROW SURVEYING, LLC ON NOVEMBER 11, 2019



OPERATOR CERTIFICATION

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Amanda Avery 11/27/19
Signature Date

Amanda Avery

Printed Name

aavery@concho.com

E-mail Address

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.

JAN. 8, 2019/JULY 23, 2019

Date of Survey/Date of Geographic Survey

Signature & Seal of Professional Surveyor



Chad Harcrow 11/19/19
Certificate No. CHAD HARCROW 17777

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JAN 07 2020

EMNRD-OCD ARTESIA

Intent ☐ As Drilled ☒ XAPI #
30-015-44006Operator Name:
COG OPERATING, LLCProperty Name:
MYOX 21 STATE COMWell Number
33H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	21	25S	28E		52	SOUTH	1470	WEST	EDDY
Latitude 32.108285					Longitude -104.096009			NAD 83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	21	25S	28E		677	SOUTH	1486	WEST	EDDY
Latitude 32.110005					Longitude -104.095971			NAD 83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	16	25S	28E		271	NORTH	1468	WEST	EDDY
Latitude 32.136617					Longitude -104.096237			NAD 83	

NSL

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 #
30-015-45373Operator Name:
COG Operating LLCProperty Name:
Myox 21 State ComWell Number
35H

KZ 06/29/2018

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JAN 07 2020

EMNRD-OCD ARTESIA

NORTHERN DELAWARE BASIN

EDDY COUNTY, NM

ATLAS

MYOX 21ST COM #33H

OWB

Design: ACTUAL WELLPATH

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

Standard Survey Report

23 July, 2019

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #33H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Site:	ATLAS	MD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Well:	MYOX 21 ST COM #33H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	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 21 ST COM #33H		
Well Position	+N/-S	0.0 usft	Northing: 403,324.00 usft
	+E/-W	0.0 usft	Easting: 573,841.60 usft
Position Uncertainty	3.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 6' 31.066 N
		Longitude:	104° 5' 41.457 W
		Ground Level:	2,976.9 usft

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination (°)
	WMM2015	11/28/2016	7.26
		Dip Angle (°)	59.87
		Field Strength (nT)	47,862.78596765

Design	ACTUAL WELLPATH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Tie On Depth:			0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			358.41

Survey Program	Date	7/22/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	8,713.0	GYRO-SURF/INTER (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
8,713.0	19,665.0	MWD-CURVE/LATERAL (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

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	0.51	289.22	100.0	0.1	-0.4	0.2	0.51	0.51	0.00	
125.0	0.63	294.35	125.0	0.2	-0.7	0.3	0.52	0.48	20.52	
150.0	0.64	293.81	150.0	0.4	-0.9	0.4	0.05	0.04	-2.16	
175.0	0.67	310.73	175.0	0.5	-1.1	0.5	0.78	0.12	67.68	
200.0	0.83	318.03	200.0	0.7	-1.4	0.8	0.74	0.64	29.20	
225.0	0.83	327.46	225.0	1.0	-1.6	1.1	0.55	0.00	37.72	
250.0	0.89	332.50	250.0	1.3	-1.8	1.4	0.39	0.24	20.16	
275.0	0.93	328.36	275.0	1.7	-2.0	1.7	0.31	0.16	-16.56	
300.0	0.91	329.51	300.0	2.0	-2.2	2.1	0.11	-0.08	4.60	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #33H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Site:	ATLAS	MD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Well:	MYOX 21 ST COM #33H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	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)	
325.0	0.98	327.26	325.0	2.4	-2.4	2.5	0.32	0.28	-9.00	
350.0	1.08	328.05	350.0	2.8	-2.6	2.8	0.40	0.40	3.16	
375.0	1.20	328.60	375.0	3.2	-2.9	3.3	0.48	0.48	2.20	
400.0	1.19	328.79	400.0	3.6	-3.2	3.7	0.04	-0.04	0.76	
425.0	1.36	327.75	425.0	4.1	-3.5	4.2	0.69	0.68	-4.16	
450.0	1.57	326.31	449.9	4.6	-3.8	4.7	0.85	0.84	-5.76	
475.0	1.74	327.96	474.9	5.3	-4.2	5.4	0.71	0.68	6.60	
500.0	1.87	325.94	499.9	5.9	-4.6	6.0	0.58	0.52	-8.08	
525.0	1.85	324.32	524.9	6.6	-5.1	6.7	0.23	-0.08	-6.48	
550.0	1.99	324.20	549.9	7.3	-5.6	7.4	0.56	0.56	-0.48	
575.0	2.08	323.60	574.9	8.0	-6.1	8.1	0.37	0.36	-2.40	
600.0	2.13	325.39	599.9	8.7	-6.6	8.9	0.33	0.20	7.16	
625.0	2.22	325.56	624.8	9.5	-7.2	9.7	0.36	0.36	0.68	
650.0	2.29	326.17	649.8	10.3	-7.7	10.5	0.30	0.28	2.44	
675.0	2.29	325.16	674.8	11.1	-8.3	11.4	0.16	0.00	-4.04	
700.0	2.32	325.11	699.8	12.0	-8.9	12.2	0.12	0.12	-0.20	
725.0	2.38	326.77	724.8	12.8	-9.4	13.1	0.36	0.24	6.64	
750.0	2.30	324.75	749.7	13.7	-10.0	13.9	0.46	-0.32	-8.08	
775.0	1.36	310.47	774.7	14.3	-10.5	14.5	4.15	-3.76	-57.12	
800.0	0.78	262.43	799.7	14.4	-10.9	14.7	4.08	-2.32	-192.16	
825.0	0.93	230.41	824.7	14.3	-11.3	14.6	1.97	0.60	-128.08	
850.0	0.99	221.71	849.7	14.0	-11.6	14.3	0.63	0.24	-34.80	
875.0	1.06	218.89	874.7	13.6	-11.8	14.0	0.35	0.28	-11.28	
900.0	1.10	218.61	899.7	13.3	-12.1	13.6	0.16	0.16	-1.12	
925.0	1.16	222.86	924.7	12.9	-12.5	13.2	0.41	0.24	17.00	
950.0	1.23	226.16	949.7	12.5	-12.8	12.9	0.39	0.28	13.20	
975.0	1.14	227.70	974.7	12.2	-13.2	12.5	0.38	-0.36	6.16	
1,000.0	1.30	225.69	999.7	11.8	-13.6	12.2	0.66	0.64	-8.04	
1,025.0	1.28	230.78	1,024.7	11.4	-14.0	11.8	0.47	-0.08	20.36	
1,050.0	1.27	227.46	1,049.7	11.1	-14.4	11.5	0.30	-0.04	-13.28	
1,075.0	1.31	224.20	1,074.7	10.7	-14.8	11.1	0.33	0.16	-13.04	
1,100.0	1.28	226.88	1,099.7	10.3	-15.2	10.7	0.27	-0.12	10.72	
1,125.0	1.35	219.36	1,124.7	9.9	-15.6	10.3	0.74	0.28	-30.08	
1,150.0	1.28	219.62	1,149.7	9.4	-16.0	9.9	0.28	-0.28	1.04	
1,175.0	1.32	220.69	1,174.6	9.0	-16.4	9.4	0.19	0.16	4.28	
1,200.0	1.26	222.21	1,199.6	8.6	-16.7	9.0	0.28	-0.24	6.08	
1,225.0	1.23	228.02	1,224.6	8.2	-17.1	8.7	0.52	-0.12	23.24	
1,250.0	1.16	229.21	1,249.6	7.8	-17.5	8.3	0.30	-0.28	4.76	
1,275.0	1.28	236.89	1,274.6	7.5	-17.9	8.0	0.81	0.48	30.72	
1,300.0	1.25	231.28	1,299.6	7.2	-18.4	7.7	0.51	-0.12	-22.44	
1,325.0	1.18	231.56	1,324.6	6.9	-18.8	7.4	0.28	-0.28	1.12	
1,350.0	1.22	234.62	1,349.6	6.6	-19.2	7.1	0.30	0.16	12.24	
1,375.0	1.15	232.61	1,374.6	6.3	-19.6	6.8	0.33	-0.28	-8.04	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #33H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
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Well:	MYOX 21 ST COM #33H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	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)	
1,400.0	1.28	236.35	1,399.6	5.9	-20.1	6.5	0.61	0.52	14.96	
1,425.0	1.23	235.19	1,424.6	5.6	-20.5	6.2	0.22	-0.20	-4.64	
1,450.0	1.24	236.89	1,449.6	5.3	-21.0	5.9	0.15	0.04	6.80	
1,475.0	1.26	234.42	1,474.6	5.0	-21.4	5.6	0.23	0.08	-9.88	
1,500.0	1.22	237.65	1,499.6	4.7	-21.9	5.3	0.32	-0.16	12.92	
1,525.0	1.33	237.39	1,524.6	4.4	-22.3	5.0	0.44	0.44	-1.04	
1,550.0	1.32	237.82	1,549.6	4.1	-22.8	4.8	0.06	-0.04	1.72	
1,575.0	1.30	237.39	1,574.6	3.8	-23.3	4.5	0.09	-0.08	-1.72	
1,600.0	1.29	236.72	1,599.5	3.5	-23.8	4.2	0.07	-0.04	-2.68	
1,625.0	1.28	239.69	1,624.5	3.2	-24.2	3.9	0.27	-0.04	11.88	
1,650.0	1.22	238.42	1,649.5	2.9	-24.7	3.6	0.26	-0.24	-5.08	
1,675.0	1.16	235.99	1,674.5	2.7	-25.1	3.3	0.31	-0.24	-9.72	
1,700.0	1.07	230.48	1,699.5	2.4	-25.5	3.1	0.56	-0.36	-22.04	
1,725.0	0.92	230.64	1,724.5	2.1	-25.9	2.8	0.60	-0.60	0.64	
1,750.0	0.72	214.27	1,749.5	1.8	-26.1	2.6	1.22	-0.80	-65.48	
1,775.0	0.69	205.16	1,774.5	1.6	-26.3	2.3	0.46	-0.12	-36.44	
1,800.0	0.63	176.04	1,799.5	1.3	-26.3	2.0	1.35	-0.24	-116.48	
1,825.0	0.69	153.48	1,824.5	1.0	-26.2	1.7	1.06	0.24	-90.24	
1,850.0	0.77	149.79	1,849.5	0.7	-26.1	1.5	0.37	0.32	-14.76	
1,875.0	0.73	150.12	1,874.5	0.5	-25.9	1.2	0.16	-0.16	1.32	
1,900.0	0.76	146.16	1,899.5	0.2	-25.8	0.9	0.24	0.12	-15.84	
1,925.0	0.84	141.31	1,924.5	-0.1	-25.6	0.6	0.42	0.32	-19.40	
1,950.0	0.93	139.32	1,949.5	-0.4	-25.3	0.3	0.38	0.36	-7.96	
1,975.0	1.03	125.34	1,974.5	-0.7	-25.0	0.0	1.03	0.40	-55.92	
2,000.0	1.34	120.49	1,999.5	-1.0	-24.6	-0.3	1.30	1.24	-19.40	
2,025.0	1.29	117.72	2,024.5	-1.2	-24.1	-0.6	0.32	-0.20	-11.08	
2,050.0	1.44	116.55	2,049.5	-1.5	-23.5	-0.9	0.61	0.60	-4.68	
2,075.0	1.79	117.06	2,074.5	-1.8	-22.9	-1.2	1.40	1.40	2.04	
2,100.0	1.98	117.15	2,099.5	-2.2	-22.2	-1.6	0.76	0.76	0.36	
2,125.0	2.19	115.70	2,124.4	-2.6	-21.4	-2.0	0.87	0.84	-5.80	
2,150.0	2.46	115.42	2,149.4	-3.0	-20.4	-2.5	1.08	1.08	-1.12	
2,175.0	2.60	116.91	2,174.4	-3.5	-19.4	-3.0	0.62	0.56	5.96	
2,200.0	2.58	117.29	2,199.4	-4.0	-18.4	-3.5	0.11	-0.08	1.52	
2,225.0	2.67	116.63	2,224.3	-4.6	-17.4	-4.1	0.38	0.36	-2.64	
2,250.0	2.60	117.75	2,249.3	-5.1	-16.4	-4.6	0.35	-0.28	4.48	
2,275.0	2.31	126.40	2,274.3	-5.7	-15.5	-5.2	1.88	-1.16	34.60	
2,300.0	1.73	149.22	2,299.3	-6.3	-14.9	-5.9	3.92	-2.32	91.28	
2,325.0	1.47	169.56	2,324.3	-6.9	-14.6	-6.5	2.48	-1.04	81.36	
2,350.0	1.53	195.81	2,349.3	-7.6	-14.7	-7.1	2.73	0.24	105.00	
2,375.0	2.56	233.61	2,374.2	-8.2	-15.2	-7.8	6.58	4.12	151.20	
2,400.0	3.76	245.82	2,399.2	-8.9	-16.4	-8.4	5.48	4.80	48.84	
2,425.0	4.17	247.75	2,424.1	-9.6	-18.0	-9.1	1.72	1.64	7.72	
2,450.0	5.09	250.38	2,449.1	-10.3	-19.9	-9.7	3.78	3.68	10.52	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #33H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Site:	ATLAS	MD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Well:	MYOX 21 ST COM #33H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	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)	
2,475.0	5.91	250.30	2,473.9	-11.1	-22.1	-10.5	3.28	3.28	-0.32	
2,500.0	6.31	250.00	2,498.8	-12.0	-24.6	-11.3	1.61	1.60	-1.20	
2,525.0	6.36	249.44	2,523.7	-12.9	-27.2	-12.2	0.32	0.20	-2.24	
2,550.0	6.32	249.56	2,548.5	-13.9	-29.8	-13.1	0.17	-0.16	0.48	
2,575.0	6.42	249.40	2,573.3	-14.9	-32.4	-14.0	0.41	0.40	-0.64	
2,600.0	6.46	249.55	2,598.2	-15.9	-35.0	-14.9	0.17	0.16	0.60	
2,625.0	6.52	248.30	2,623.0	-16.9	-37.7	-15.8	0.61	0.24	-5.00	
2,650.0	6.31	242.62	2,647.9	-18.0	-40.2	-16.9	2.67	-0.84	-22.72	
2,675.0	6.39	242.14	2,672.7	-19.3	-42.7	-18.1	0.38	0.32	-1.92	
2,700.0	6.40	239.69	2,697.6	-20.7	-45.1	-19.4	1.09	0.04	-9.80	
2,725.0	6.50	235.72	2,722.4	-22.2	-47.5	-20.8	1.83	0.40	-15.88	
2,750.0	6.94	228.09	2,747.2	-24.0	-49.8	-22.6	3.98	1.76	-30.52	
2,775.0	7.43	224.04	2,772.0	-26.1	-52.0	-24.7	2.82	1.96	-16.20	
2,800.0	7.55	222.78	2,796.8	-28.5	-54.3	-27.0	0.81	0.48	-5.04	
2,825.0	7.68	221.40	2,821.6	-31.0	-56.5	-29.4	0.90	0.52	-5.52	
2,850.0	7.71	220.44	2,846.4	-33.5	-58.7	-31.9	0.53	0.12	-3.84	
2,875.0	7.78	220.89	2,871.2	-36.1	-60.9	-34.4	0.37	0.28	1.80	
2,900.0	7.63	221.22	2,895.9	-38.6	-63.1	-36.8	0.63	-0.60	1.32	
2,925.0	7.72	221.02	2,920.7	-41.1	-65.3	-39.3	0.38	0.36	-0.80	
2,950.0	7.66	221.82	2,945.5	-43.6	-67.5	-41.7	0.49	-0.24	3.20	
2,975.0	7.54	221.61	2,970.3	-46.1	-69.7	-44.1	0.49	-0.48	-0.84	
3,000.0	7.55	221.92	2,995.0	-48.5	-71.9	-46.5	0.17	0.04	1.24	
3,025.0	7.48	221.68	3,019.8	-51.0	-74.0	-48.9	0.31	-0.28	-0.96	
3,050.0	7.45	222.13	3,044.6	-53.4	-76.2	-51.2	0.26	-0.12	1.80	
3,075.0	7.41	221.81	3,069.4	-55.8	-78.4	-53.6	0.23	-0.16	-1.28	
3,100.0	7.52	222.31	3,094.2	-58.2	-80.5	-55.9	0.51	0.44	2.00	
3,125.0	7.46	221.69	3,119.0	-60.6	-82.7	-58.3	0.40	-0.24	-2.48	
3,150.0	7.27	222.60	3,143.8	-63.0	-84.9	-60.6	0.89	-0.76	3.64	
3,175.0	7.31	221.53	3,168.6	-65.3	-87.0	-62.9	0.57	0.16	-4.28	
3,200.0	7.27	222.16	3,193.4	-67.7	-89.1	-65.2	0.36	-0.16	2.52	
3,225.0	7.29	221.80	3,218.2	-70.1	-91.2	-67.5	0.20	0.08	-1.44	
3,250.0	7.06	221.38	3,243.0	-72.4	-93.3	-69.8	0.94	-0.92	-1.68	
3,275.0	6.98	221.13	3,267.8	-74.7	-95.3	-72.0	0.34	-0.32	-1.00	
3,300.0	6.71	221.70	3,292.6	-76.9	-97.3	-74.2	1.11	-1.08	2.28	
3,325.0	6.68	220.64	3,317.4	-79.1	-99.2	-76.3	0.51	-0.12	-4.24	
3,350.0	6.68	220.61	3,342.3	-81.3	-101.1	-78.5	0.01	0.00	-0.12	
3,375.0	6.63	221.47	3,367.1	-83.5	-103.0	-80.6	0.45	-0.20	3.44	
3,400.0	6.43	221.62	3,391.9	-85.6	-104.9	-82.7	0.80	-0.80	0.60	
3,425.0	6.39	220.84	3,416.8	-87.7	-106.7	-84.7	0.38	-0.16	-3.12	
3,450.0	6.50	221.30	3,441.6	-89.9	-108.6	-86.8	0.49	0.44	1.84	
3,475.0	6.41	221.14	3,466.5	-92.0	-110.4	-88.9	0.37	-0.36	-0.64	
3,500.0	6.40	222.00	3,491.3	-94.1	-112.3	-90.9	0.39	-0.04	3.44	
3,525.0	6.36	221.22	3,516.2	-96.1	-114.1	-92.9	0.38	-0.16	-3.12	
3,550.0	6.37	221.89	3,541.0	-98.2	-116.0	-95.0	0.30	0.04	2.68	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #33H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Site:	ATLAS	MD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Well:	MYOX 21 ST COM #33H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	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)
3,575.0	6.36	221.75	3,565.8	-100.3	-117.8	-97.0	0.07	-0.04	-0.56
3,600.0	6.37	222.26	3,590.7	-102.3	-119.7	-99.0	0.23	0.04	2.04
3,625.0	6.24	222.26	3,615.5	-104.4	-121.5	-101.0	0.52	-0.52	0.00
3,650.0	6.26	221.39	3,640.4	-106.4	-123.3	-102.9	0.39	0.08	-3.48
3,675.0	6.26	221.49	3,665.2	-108.4	-125.1	-104.9	0.04	0.00	0.40
3,700.0	6.26	221.95	3,690.1	-110.5	-126.9	-106.9	0.20	0.00	1.84
3,725.0	6.32	222.23	3,714.9	-112.5	-128.8	-108.9	0.27	0.24	1.12
3,750.0	6.26	222.42	3,739.8	-114.5	-130.6	-110.9	0.25	-0.24	0.76
3,775.0	6.25	222.50	3,764.6	-116.5	-132.5	-112.8	0.05	-0.04	0.32
3,800.0	6.23	222.98	3,789.5	-118.5	-134.3	-114.8	0.22	-0.08	1.92
3,825.0	6.23	223.80	3,814.3	-120.5	-136.2	-116.7	0.36	0.00	3.28
3,850.0	6.13	223.93	3,839.2	-122.4	-138.0	-118.6	0.40	-0.40	0.52
3,875.0	6.07	223.41	3,864.1	-124.4	-139.9	-120.4	0.33	-0.24	-2.08
3,900.0	6.13	224.04	3,888.9	-126.3	-141.7	-122.3	0.36	0.24	2.52
3,925.0	6.06	222.90	3,913.8	-128.2	-143.5	-124.2	0.56	-0.28	-4.56
3,950.0	6.13	223.51	3,938.6	-130.2	-145.3	-126.1	0.38	0.28	2.44
3,975.0	6.11	223.82	3,963.5	-132.1	-147.2	-127.9	0.15	-0.08	1.24
4,000.0	6.06	223.64	3,988.4	-134.0	-149.0	-129.8	0.21	-0.20	-0.72
4,025.0	5.99	223.39	4,013.2	-135.9	-150.8	-131.7	0.30	-0.28	-1.00
4,050.0	6.07	224.58	4,038.1	-137.8	-152.7	-133.5	0.59	0.32	4.76
4,075.0	6.04	223.35	4,062.9	-139.7	-154.5	-135.3	0.53	-0.12	-4.92
4,100.0	6.02	223.55	4,087.8	-141.6	-156.3	-137.2	0.12	-0.08	0.80
4,125.0	6.00	223.57	4,112.7	-143.5	-158.1	-139.0	0.08	-0.08	0.08
4,150.0	6.02	223.39	4,137.5	-145.4	-159.9	-140.9	0.11	0.08	-0.72
4,175.0	6.06	222.96	4,162.4	-147.3	-161.7	-142.8	0.24	0.16	-1.72
4,200.0	6.08	223.20	4,187.2	-149.2	-163.5	-144.6	0.13	0.08	0.96
4,225.0	6.06	223.33	4,212.1	-151.2	-165.3	-146.5	0.10	-0.08	0.52
4,250.0	6.10	223.59	4,237.0	-153.1	-167.1	-148.4	0.19	0.16	1.04
4,275.0	6.10	223.39	4,261.8	-155.0	-169.0	-150.3	0.09	0.00	-0.80
4,300.0	6.01	223.30	4,286.7	-156.9	-170.8	-152.1	0.36	-0.36	-0.36
4,325.0	6.09	222.57	4,311.5	-158.9	-172.6	-154.0	0.44	0.32	-2.92
4,350.0	6.03	222.37	4,336.4	-160.8	-174.3	-155.9	0.25	-0.24	-0.80
4,375.0	6.05	224.40	4,361.3	-162.7	-176.2	-157.8	0.86	0.08	8.12
4,400.0	6.11	223.77	4,386.1	-164.6	-178.0	-159.6	0.36	0.24	-2.52
4,425.0	6.05	223.45	4,411.0	-166.5	-179.8	-161.5	0.28	-0.24	-1.28
4,450.0	5.83	223.77	4,435.8	-168.4	-181.6	-163.3	0.89	-0.88	1.28
4,475.0	5.26	221.67	4,460.7	-170.2	-183.2	-165.0	2.42	-2.28	-8.40
4,500.0	5.00	220.19	4,485.6	-171.9	-184.7	-166.7	1.17	-1.04	-5.92
4,525.0	4.70	219.40	4,510.5	-173.5	-186.1	-168.3	1.23	-1.20	-3.16
4,550.0	4.51	218.49	4,535.5	-175.1	-187.3	-169.8	0.81	-0.76	-3.64
4,575.0	4.15	218.68	4,560.4	-176.5	-188.5	-171.2	1.44	-1.44	0.76
4,600.0	4.02	219.47	4,585.3	-177.9	-189.6	-172.6	0.57	-0.52	3.16
4,625.0	3.95	220.21	4,610.3	-179.2	-190.7	-173.9	0.35	-0.28	2.96

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #33H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Site:	ATLAS	MD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Well:	MYOX 21 ST COM #33H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	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)	
4,650.0	3.97	220.21	4,635.2	-180.6	-191.9	-175.2	0.08	0.08	0.00	
4,675.0	3.96	221.71	4,660.1	-181.9	-193.0	-176.4	0.42	-0.04	6.00	
4,700.0	3.92	221.46	4,685.1	-183.2	-194.1	-177.7	0.17	-0.16	-1.00	
4,725.0	3.82	220.71	4,710.0	-184.4	-195.2	-178.9	0.45	-0.40	-3.00	
4,750.0	3.65	222.18	4,735.0	-185.6	-196.3	-180.1	0.78	-0.68	5.88	
4,775.0	3.58	219.70	4,759.9	-186.8	-197.3	-181.3	0.69	-0.28	-9.92	
4,800.0	3.50	218.15	4,784.9	-188.0	-198.3	-182.5	0.50	-0.32	-6.20	
4,825.0	2.78	220.98	4,809.8	-189.1	-199.2	-183.5	2.95	-2.88	11.32	
4,850.0	1.91	218.81	4,834.8	-189.9	-199.8	-184.3	3.50	-3.48	-8.68	
4,875.0	1.43	221.37	4,859.8	-190.4	-200.3	-184.8	1.94	-1.92	10.24	
4,900.0	1.04	226.39	4,884.8	-190.8	-200.7	-185.2	1.62	-1.56	20.08	
4,925.0	0.74	215.44	4,909.8	-191.1	-200.9	-185.5	1.37	-1.20	-43.80	
4,950.0	0.33	211.90	4,934.8	-191.3	-201.1	-185.7	1.64	-1.64	-14.16	
4,975.0	0.27	210.66	4,959.8	-191.4	-201.1	-185.8	0.24	-0.24	-4.96	
5,000.0	0.31	206.73	4,984.8	-191.5	-201.2	-185.9	0.18	0.16	-15.72	
5,025.0	0.24	217.52	5,009.8	-191.6	-201.3	-186.0	0.35	-0.28	43.16	
5,050.0	0.29	232.83	5,034.8	-191.7	-201.3	-186.0	0.35	0.20	61.24	
5,075.0	0.26	217.50	5,059.8	-191.8	-201.4	-186.1	0.32	-0.12	-61.32	
5,100.0	0.27	204.36	5,084.8	-191.9	-201.5	-186.2	0.25	0.04	-52.56	
5,125.0	0.32	208.01	5,109.8	-192.0	-201.5	-186.3	0.21	0.20	14.60	
5,150.0	0.35	202.28	5,134.8	-192.1	-201.6	-186.5	0.18	0.12	-22.92	
5,175.0	0.33	195.83	5,159.8	-192.3	-201.7	-186.6	0.17	-0.08	-25.80	
5,200.0	0.29	203.69	5,184.8	-192.4	-201.7	-186.7	0.23	-0.16	31.44	
5,225.0	0.18	168.04	5,209.8	-192.5	-201.7	-186.8	0.71	-0.44	-142.60	
5,250.0	0.11	124.73	5,234.8	-192.6	-201.7	-186.9	0.50	-0.28	-173.24	
5,275.0	0.26	79.25	5,259.8	-192.6	-201.6	-186.9	0.80	0.60	-181.92	
5,300.0	0.41	65.77	5,284.8	-192.5	-201.5	-186.8	0.67	0.60	-53.92	
5,325.0	0.65	62.01	5,309.8	-192.4	-201.3	-186.7	0.97	0.96	-15.04	
5,350.0	0.73	66.37	5,334.8	-192.3	-201.0	-186.6	0.38	0.32	17.44	
5,375.0	0.76	67.85	5,359.8	-192.2	-200.7	-186.5	0.14	0.12	5.92	
5,400.0	0.76	73.16	5,384.8	-192.0	-200.4	-186.4	0.28	0.00	21.24	
5,425.0	0.79	63.56	5,409.8	-191.9	-200.1	-186.3	0.53	0.12	-38.40	
5,450.0	0.83	67.46	5,434.8	-191.8	-199.8	-186.2	0.27	0.16	15.60	
5,475.0	0.73	66.22	5,459.8	-191.6	-199.4	-186.0	0.41	-0.40	-4.96	
5,500.0	0.76	58.83	5,484.8	-191.5	-199.2	-185.9	0.40	0.12	-29.56	
5,525.0	0.73	73.95	5,509.8	-191.4	-198.9	-185.8	0.79	-0.12	60.48	
5,550.0	0.81	76.87	5,534.8	-191.3	-198.5	-185.7	0.36	0.32	11.68	
5,575.0	0.73	78.92	5,559.8	-191.2	-198.2	-185.6	0.34	-0.32	8.20	
5,600.0	0.78	85.74	5,584.8	-191.2	-197.9	-185.6	0.41	0.20	27.28	
5,625.0	0.73	81.22	5,609.8	-191.1	-197.6	-185.6	0.31	-0.20	-18.08	
5,650.0	0.64	79.04	5,634.8	-191.1	-197.3	-185.5	0.37	-0.36	-8.72	
5,675.0	0.60	90.95	5,659.8	-191.0	-197.0	-185.5	0.54	-0.16	47.64	
5,700.0	0.66	90.82	5,684.8	-191.1	-196.7	-185.5	0.24	0.24	-0.52	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #33H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Site:	ATLAS	MD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Well:	MYOX 21 ST COM #33H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	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)	
5,725.0	0.67	79.38	5,709.8	-191.0	-196.4	-185.5	0.53	0.04	-45.76	
5,750.0	0.62	85.87	5,734.8	-191.0	-196.1	-185.5	0.35	-0.20	25.96	
5,775.0	0.63	96.36	5,759.8	-191.0	-195.9	-185.5	0.46	0.04	41.96	
5,800.0	0.55	95.96	5,784.8	-191.0	-195.6	-185.5	0.32	-0.32	-1.60	
5,825.0	0.54	103.43	5,809.8	-191.1	-195.4	-185.6	0.29	-0.04	29.88	
5,850.0	0.57	98.85	5,834.8	-191.1	-195.2	-185.6	0.21	0.12	-18.32	
5,875.0	0.56	100.88	5,859.8	-191.2	-194.9	-185.7	0.09	-0.04	8.12	
5,900.0	0.51	97.66	5,884.8	-191.2	-194.7	-185.7	0.23	-0.20	-12.88	
5,925.0	0.48	112.83	5,909.8	-191.2	-194.5	-185.8	0.54	-0.12	60.68	
5,950.0	0.44	117.50	5,934.8	-191.3	-194.3	-185.9	0.22	-0.16	18.68	
5,975.0	0.45	117.06	5,959.8	-191.4	-194.1	-186.0	0.04	0.04	-1.76	
6,000.0	0.47	120.53	5,984.7	-191.5	-193.9	-186.1	0.14	0.08	13.88	
6,025.0	0.47	125.40	6,009.7	-191.6	-193.8	-186.2	0.16	0.00	19.48	
6,050.0	0.58	123.86	6,034.7	-191.8	-193.6	-186.3	0.44	0.44	-6.16	
6,075.0	0.48	139.63	6,059.7	-191.9	-193.4	-186.5	0.70	-0.40	63.08	
6,100.0	0.57	146.16	6,084.7	-192.1	-193.3	-186.7	0.43	0.36	26.12	
6,125.0	0.58	144.50	6,109.7	-192.3	-193.1	-186.9	0.08	0.04	-6.64	
6,150.0	0.74	143.91	6,134.7	-192.5	-193.0	-187.1	0.64	0.64	-2.36	
6,175.0	0.81	139.25	6,159.7	-192.8	-192.7	-187.4	0.38	0.28	-18.64	
6,200.0	0.83	147.05	6,184.7	-193.1	-192.5	-187.7	0.45	0.08	31.20	
6,225.0	0.89	143.61	6,209.7	-193.4	-192.3	-188.0	0.32	0.24	-13.76	
6,250.0	0.84	145.49	6,234.7	-193.7	-192.1	-188.3	0.23	-0.20	7.52	
6,275.0	0.80	141.23	6,259.7	-194.0	-191.9	-188.6	0.29	-0.16	-17.04	
6,300.0	0.89	148.08	6,284.7	-194.3	-191.7	-188.9	0.54	0.36	27.40	
6,325.0	0.95	154.85	6,309.7	-194.6	-191.5	-189.2	0.50	0.24	27.08	
6,350.0	0.98	159.57	6,334.7	-195.0	-191.3	-189.6	0.34	0.12	18.88	
6,375.0	0.99	158.91	6,359.7	-195.4	-191.2	-190.0	0.06	0.04	-2.64	
6,400.0	0.99	161.86	6,384.7	-195.8	-191.0	-190.5	0.20	0.00	11.80	
6,425.0	1.01	159.89	6,409.7	-196.2	-190.9	-190.9	0.16	0.08	-7.88	
6,450.0	0.86	160.24	6,434.7	-196.6	-190.7	-191.3	0.60	-0.60	1.40	
6,475.0	0.79	168.63	6,459.7	-197.0	-190.6	-191.6	0.56	-0.28	33.56	
6,500.0	0.55	160.88	6,484.7	-197.3	-190.6	-191.9	1.02	-0.96	-31.00	
6,525.0	0.37	149.16	6,509.7	-197.4	-190.5	-192.1	0.81	-0.72	-46.88	
6,550.0	0.19	152.33	6,534.7	-197.5	-190.4	-192.2	0.72	-0.72	12.68	
6,575.0	0.21	129.67	6,559.7	-197.6	-190.4	-192.3	0.32	0.08	-90.64	
6,600.0	0.22	124.66	6,584.7	-197.7	-190.3	-192.3	0.09	0.04	-20.04	
6,625.0	0.29	105.55	6,609.7	-197.7	-190.2	-192.4	0.44	0.28	-76.44	
6,650.0	0.33	105.35	6,634.7	-197.8	-190.1	-192.4	0.16	0.16	-0.80	
6,675.0	0.36	105.48	6,659.7	-197.8	-189.9	-192.4	0.12	0.12	0.52	
6,700.0	0.36	88.10	6,684.7	-197.8	-189.8	-192.5	0.44	0.00	-69.52	
6,725.0	0.26	96.37	6,709.7	-197.8	-189.6	-192.5	0.44	-0.40	33.08	
6,750.0	0.34	56.87	6,734.7	-197.8	-189.5	-192.4	0.87	0.32	-158.00	
6,775.0	0.28	53.49	6,759.7	-197.7	-189.4	-192.4	0.25	-0.24	-13.52	
6,800.0	0.36	53.88	6,784.7	-197.6	-189.3	-192.3	0.32	0.32	1.56	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate	Reference:
Project:	EDDY COUNTY, NM	TVD Reference:	Well MYOX 21 ST COM #33H
Site:	ATLAS	MD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Well:	MYOX 21 ST COM #33H	North Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Wellbore:	OWB	Survey Calculation Method:	Grid
Design:	ACTUAL WELLPATH	Database:	Minimum Curvature
			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)
6,825.0	0.33	28.69	6,809.7	-197.5	-189.2	-192.2	0.61	-0.12	-100.76
6,850.0	0.14	18.59	6,834.7	-197.4	-189.2	-192.1	0.77	-0.76	-40.40
6,875.0	0.18	330.83	6,859.7	-197.4	-189.2	-192.0	0.54	0.16	-191.04
6,900.0	0.13	292.23	6,884.7	-197.3	-189.2	-192.0	0.45	-0.20	-154.40
6,925.0	0.10	57.07	6,909.7	-197.3	-189.2	-192.0	0.82	-0.12	499.36
6,950.0	0.18	151.77	6,934.7	-197.3	-189.2	-192.0	0.85	0.32	378.80
6,975.0	0.64	135.37	6,959.7	-197.4	-189.1	-192.1	1.88	1.84	-65.60
7,000.0	0.99	132.50	6,984.7	-197.7	-188.8	-192.4	1.41	1.40	-11.48
7,025.0	1.11	139.99	7,009.7	-198.0	-188.5	-192.7	0.73	0.48	29.96
7,050.0	1.12	129.65	7,034.7	-198.4	-188.1	-193.1	0.80	0.04	-41.36
7,075.0	1.12	139.25	7,059.7	-198.7	-187.8	-193.4	0.75	0.00	38.40
7,100.0	0.95	126.13	7,084.7	-199.0	-187.5	-193.7	1.16	-0.68	-52.48
7,125.0	0.76	123.49	7,109.7	-199.2	-187.2	-193.9	0.78	-0.76	-10.56
7,150.0	0.75	118.93	7,134.7	-199.4	-186.9	-194.1	0.24	-0.04	-18.24
7,175.0	0.55	120.99	7,159.7	-199.5	-186.6	-194.3	0.81	-0.80	8.24
7,200.0	0.58	110.73	7,184.7	-199.6	-186.4	-194.4	0.42	0.12	-41.04
7,225.0	0.46	91.88	7,209.7	-199.7	-186.2	-194.4	0.83	-0.48	-75.40
7,250.0	0.32	91.79	7,234.7	-199.7	-186.0	-194.5	0.56	-0.56	-0.36
7,275.0	0.16	25.19	7,259.7	-199.7	-185.9	-194.4	1.18	-0.64	-266.40
7,300.0	0.54	331.79	7,284.7	-199.5	-186.0	-194.3	1.85	1.52	-213.60
7,325.0	0.74	320.11	7,309.7	-199.3	-186.1	-194.1	0.95	0.80	-46.72
7,350.0	0.79	317.71	7,334.7	-199.1	-186.4	-193.8	0.24	0.20	-9.60
7,375.0	0.80	317.27	7,359.7	-198.8	-186.6	-193.5	0.05	0.04	-1.76
7,400.0	0.79	322.26	7,384.7	-198.5	-186.8	-193.3	0.28	-0.04	19.96
7,425.0	0.65	307.67	7,409.7	-198.3	-187.0	-193.0	0.92	-0.56	-58.36
7,450.0	0.42	281.59	7,434.7	-198.2	-187.2	-192.9	1.32	-0.92	-104.32
7,475.0	0.42	264.91	7,459.7	-198.2	-187.4	-192.9	0.49	0.00	-66.72
7,500.0	0.45	271.69	7,484.7	-198.2	-187.6	-192.9	0.24	0.12	27.12
7,525.0	0.53	281.15	7,509.7	-198.2	-187.8	-192.9	0.45	0.32	37.84
7,550.0	0.89	307.19	7,534.6	-198.0	-188.1	-192.7	1.90	1.44	104.16
7,575.0	1.54	323.49	7,559.6	-197.6	-188.4	-192.3	2.92	2.60	65.20
7,600.0	1.98	328.88	7,584.6	-197.0	-188.9	-191.7	1.88	1.76	21.56
7,625.0	2.06	327.94	7,609.6	-196.3	-189.3	-190.9	0.35	0.32	-3.76
7,650.0	2.20	330.59	7,634.6	-195.5	-189.8	-190.1	0.68	0.56	10.60
7,675.0	2.08	329.56	7,659.6	-194.6	-190.3	-189.3	0.50	-0.48	-4.12
7,700.0	2.21	328.04	7,684.6	-193.8	-190.8	-188.5	0.57	0.52	-6.08
7,725.0	2.13	328.42	7,709.5	-193.0	-191.3	-187.7	0.33	-0.32	1.52
7,750.0	2.10	328.20	7,734.5	-192.3	-191.7	-186.9	0.12	-0.12	-0.88
7,775.0	2.17	331.79	7,759.5	-191.5	-192.2	-186.0	0.60	0.28	14.36
7,800.0	2.18	334.58	7,784.5	-190.6	-192.6	-185.2	0.43	0.04	11.16
7,825.0	2.00	340.85	7,809.5	-189.8	-193.0	-184.3	1.16	-0.72	25.08
7,850.0	1.91	354.61	7,834.5	-188.9	-193.2	-183.5	1.91	-0.36	55.04
7,875.0	2.13	3.94	7,859.4	-188.1	-193.2	-182.6	1.58	0.88	37.32

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #33H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Site:	ATLAS	MD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Well:	MYOX 21 ST COM #33H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	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)	
7,900.0	2.30	7.09	7,884.4	-187.1	-193.1	-181.7	0.84	0.68	12.60	
7,925.0	1.93	11.84	7,909.4	-186.2	-192.9	-180.8	1.64	-1.48	19.00	
7,950.0	2.17	12.05	7,934.4	-185.3	-192.7	-179.9	0.96	0.96	0.84	
7,975.0	2.01	10.23	7,959.4	-184.4	-192.6	-179.0	0.69	-0.64	-7.28	
8,000.0	2.00	14.59	7,984.4	-183.6	-192.4	-178.2	0.61	-0.04	17.44	
8,025.0	1.70	12.83	8,009.4	-182.8	-192.2	-177.4	1.22	-1.20	-7.04	
8,050.0	1.66	13.43	8,034.3	-182.1	-192.0	-176.7	0.17	-0.16	2.40	
8,075.0	1.42	11.03	8,059.3	-181.4	-191.9	-176.0	0.99	-0.96	-9.60	
8,100.0	1.51	8.59	8,084.3	-180.8	-191.8	-175.4	0.44	0.36	-9.76	
8,125.0	1.46	11.30	8,109.3	-180.1	-191.7	-174.8	0.34	-0.20	10.84	
8,150.0	1.31	9.86	8,134.3	-179.5	-191.5	-174.2	0.62	-0.60	-5.76	
8,175.0	1.24	6.17	8,159.3	-179.0	-191.5	-173.6	0.43	-0.28	-14.76	
8,200.0	1.19	359.57	8,184.3	-178.5	-191.4	-173.1	0.59	-0.20	-26.40	
8,225.0	1.10	359.25	8,209.3	-178.0	-191.4	-172.6	0.36	-0.36	-1.28	
8,250.0	1.02	354.51	8,234.3	-177.5	-191.5	-172.1	0.47	-0.32	-18.96	
8,275.0	0.99	350.10	8,259.3	-177.1	-191.5	-171.7	0.33	-0.12	-17.64	
8,300.0	1.15	342.39	8,284.3	-176.6	-191.6	-171.2	0.86	0.64	-30.84	
8,325.0	1.16	334.49	8,309.3	-176.2	-191.8	-170.8	0.64	0.04	-31.60	
8,350.0	1.36	332.58	8,334.3	-175.7	-192.1	-170.3	0.82	0.80	-7.64	
8,375.0	1.53	327.10	8,359.3	-175.1	-192.4	-169.7	0.88	0.68	-21.92	
8,400.0	1.55	319.37	8,384.2	-174.6	-192.8	-169.2	0.83	0.08	-30.92	
8,425.0	1.60	307.06	8,409.2	-174.1	-193.3	-168.7	1.37	0.20	-49.24	
8,450.0	1.76	305.17	8,434.2	-173.7	-193.9	-168.2	0.68	0.64	-7.56	
8,475.0	1.71	304.73	8,459.2	-173.3	-194.5	-167.8	0.21	-0.20	-1.76	
8,500.0	1.85	300.05	8,484.2	-172.8	-195.2	-167.4	0.81	0.56	-18.72	
8,525.0	1.78	296.73	8,509.2	-172.5	-195.9	-167.0	0.51	-0.28	-13.28	
8,550.0	1.72	296.39	8,534.2	-172.1	-196.5	-166.6	0.24	-0.24	-1.36	
8,575.0	1.58	294.75	8,559.2	-171.8	-197.2	-166.3	0.59	-0.56	-6.56	
8,600.0	1.62	294.83	8,584.2	-171.5	-197.8	-166.0	0.16	0.16	0.32	
8,625.0	1.69	296.02	8,609.2	-171.2	-198.5	-165.6	0.31	0.28	4.76	
8,650.0	1.12	281.28	8,634.1	-171.0	-199.0	-165.4	2.68	-2.28	-58.96	
8,675.0	1.09	279.58	8,659.1	-170.9	-199.5	-165.3	0.18	-0.12	-6.80	
8,700.0	0.98	274.40	8,684.1	-170.9	-200.0	-165.2	0.58	-0.44	-20.72	
8,713.0	1.02	267.97	8,697.1	-170.8	-200.2	-165.2	0.92	0.31	-49.46	
8,857.0	1.46	265.11	8,841.1	-171.0	-203.3	-165.3	0.31	0.31	-1.99	
8,920.0	1.71	267.43	8,904.1	-171.2	-205.0	-165.4	0.41	0.40	3.68	
8,948.0	1.67	267.02	8,932.1	-171.2	-205.9	-165.4	0.15	-0.14	-1.46	
9,014.0	2.52	336.69	8,998.0	-169.9	-207.4	-164.1	3.78	1.29	105.56	
9,046.0	5.47	7.29	9,029.9	-167.8	-207.5	-161.9	11.06	9.22	95.63	
9,077.0	9.36	9.16	9,060.7	-163.8	-206.9	-158.0	12.57	12.55	6.03	
9,108.0	13.32	10.70	9,091.1	-157.8	-205.8	-152.0	12.81	12.77	4.97	
9,140.0	17.69	9.69	9,121.9	-149.4	-204.3	-143.7	13.68	13.66	-3.16	
9,171.0	21.82	8.66	9,151.1	-139.0	-202.7	-133.4	13.37	13.32	-3.32	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #33H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Site:	ATLAS	MD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Well:	MYOX 21 ST COM #33H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	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)	
9,202.0	25.46	8.08	9,179.5	-126.7	-200.9	-121.1	11.77	11.74	-1.87	
9,234.0	29.36	7.05	9,207.9	-112.1	-198.9	-106.6	12.28	12.19	-3.22	
9,265.0	33.32	4.86	9,234.3	-96.1	-197.3	-90.6	13.29	12.77	-7.06	
9,296.0	36.82	2.72	9,259.7	-78.3	-196.1	-72.9	11.97	11.29	-6.90	
9,328.0	40.45	0.63	9,284.7	-58.4	-195.5	-52.9	12.05	11.34	-6.53	
9,359.0	43.84	0.21	9,307.7	-37.6	-195.4	-32.1	10.97	10.94	-1.35	
9,391.0	46.17	0.71	9,330.3	-14.9	-195.2	-9.5	7.36	7.28	1.56	
9,422.0	49.27	0.79	9,351.2	8.0	-194.9	13.4	10.00	10.00	0.26	
9,453.0	52.80	1.75	9,370.7	32.1	-194.4	37.5	11.64	11.39	3.10	
9,485.0	54.42	2.08	9,389.6	57.8	-193.5	63.2	5.13	5.06	1.03	
9,516.0	57.10	1.26	9,407.1	83.4	-192.8	88.8	8.92	8.65	-2.65	
9,545.1	60.66	0.43	9,422.1	108.3	-192.4	113.6	12.47	12.23	-2.85	
FTP @ 9545.1'MD/ 9422.1'TVD										
9,547.0	60.89	0.38	9,423.0	110.0	-192.4	115.3	12.47	12.23	-2.74	
9,579.0	64.13	359.28	9,437.8	138.4	-192.5	143.7	10.57	10.13	-3.44	
9,610.0	67.34	359.48	9,450.5	166.6	-192.8	171.9	10.37	10.35	0.65	
9,641.0	69.80	359.34	9,461.9	195.5	-193.1	200.8	7.95	7.94	-0.45	
9,673.0	71.55	359.70	9,472.5	225.7	-193.3	231.0	5.57	5.47	1.13	
9,704.0	73.02	359.45	9,481.9	255.2	-193.5	260.5	4.80	4.74	-0.81	
9,735.0	75.85	359.50	9,490.2	285.1	-193.8	290.3	9.13	9.13	0.16	
9,767.0	78.16	359.38	9,497.4	316.2	-194.1	321.5	7.23	7.22	-0.38	
9,798.0	80.88	358.92	9,503.0	346.7	-194.6	352.0	8.89	8.77	-1.48	
9,829.0	84.49	358.95	9,507.0	377.5	-195.2	382.7	11.65	11.65	0.10	
9,848.0	85.83	358.98	9,508.6	396.4	-195.5	401.7	7.05	7.05	0.16	
9,900.0	87.20	358.84	9,511.8	448.3	-196.5	453.6	2.65	2.63	-0.27	
9,995.0	87.59	358.13	9,516.1	543.1	-199.0	548.5	0.85	0.41	-0.75	
10,089.0	89.47	359.65	9,518.5	637.1	-200.8	642.4	2.57	2.00	1.62	
10,183.0	92.12	1.23	9,517.2	731.1	-200.1	736.3	3.28	2.82	1.68	
10,277.0	89.02	359.26	9,516.2	825.0	-199.7	830.3	3.91	-3.30	-2.10	
10,372.0	89.84	359.27	9,517.2	920.0	-200.9	925.3	0.86	0.86	0.01	
10,466.0	88.24	359.15	9,518.8	1,014.0	-202.2	1,019.2	1.71	-1.70	-0.13	
10,560.0	89.33	358.67	9,520.8	1,108.0	-204.0	1,113.2	1.27	1.16	-0.51	
10,653.0	90.33	358.89	9,521.0	1,200.9	-206.0	1,206.2	1.10	1.08	0.24	
10,744.0	87.56	358.45	9,522.7	1,291.9	-208.1	1,297.2	3.08	-3.04	-0.48	
10,836.0	87.64	358.35	9,526.6	1,383.8	-210.6	1,389.1	0.14	0.09	-0.11	
10,927.0	87.68	358.68	9,530.3	1,474.7	-213.0	1,480.0	0.36	0.04	0.36	
11,018.0	90.12	359.80	9,532.0	1,565.6	-214.2	1,571.0	2.95	2.68	1.23	
11,111.0	88.39	0.23	9,533.2	1,658.6	-214.2	1,663.9	1.92	-1.86	0.46	
11,202.0	88.45	0.30	9,535.7	1,749.6	-213.8	1,754.9	0.10	0.07	0.08	
11,293.0	88.25	359.32	9,538.4	1,840.6	-214.1	1,845.8	1.10	-0.22	-1.08	
11,383.0	88.31	358.86	9,541.1	1,930.5	-215.5	1,935.7	0.52	0.07	-0.51	
11,474.0	90.38	359.95	9,542.1	2,021.5	-216.4	2,026.7	2.57	2.27	1.20	
11,565.0	91.24	1.19	9,540.8	2,112.5	-215.5	2,117.6	1.66	0.95	1.36	
11,659.0	92.97	1.53	9,537.4	2,206.4	-213.3	2,211.4	1.88	1.84	0.36	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #33H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Site:	ATLAS	MD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Well:	MYOX 21 ST COM #33H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	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)	
11,752.0	89.14	358.71	9,535.7	2,299.3	-213.1	2,304.4	5.11	-4.12	-3.03	
11,846.0	86.60	356.23	9,539.1	2,393.2	-217.3	2,398.3	3.78	-2.70	-2.64	
11,941.0	88.25	358.45	9,543.4	2,488.0	-221.7	2,493.2	2.91	1.74	2.34	
12,035.0	92.20	2.12	9,543.0	2,581.9	-221.2	2,587.1	5.74	4.20	3.90	
12,128.0	95.13	1.82	9,537.1	2,674.7	-218.0	2,679.7	3.17	3.15	-0.32	
12,223.0	92.97	359.87	9,530.4	2,769.4	-216.6	2,774.4	3.06	-2.27	-2.05	
12,318.0	91.56	359.11	9,526.6	2,864.3	-217.5	2,869.3	1.69	-1.48	-0.80	
12,412.0	94.06	359.59	9,522.0	2,958.2	-218.5	2,963.1	2.71	2.66	0.51	
12,506.0	93.41	0.71	9,515.9	3,052.0	-218.3	3,056.9	1.38	-0.69	1.19	
12,602.0	88.36	359.23	9,514.4	3,148.0	-218.3	3,152.8	5.48	-5.26	-1.54	
12,696.0	88.74	358.18	9,516.8	3,241.9	-220.4	3,246.8	1.19	0.40	-1.12	
12,791.0	86.52	358.39	9,520.7	3,336.8	-223.3	3,341.7	2.35	-2.34	0.22	
12,885.0	86.88	357.89	9,526.1	3,430.6	-226.3	3,435.5	0.65	0.38	-0.53	
12,981.0	87.60	357.24	9,530.8	3,526.4	-230.4	3,531.4	1.01	0.75	-0.68	
13,073.0	88.47	357.41	9,533.9	3,618.2	-234.7	3,623.3	0.96	0.95	0.18	
13,167.0	89.22	357.01	9,535.8	3,712.1	-239.3	3,717.3	0.90	0.80	-0.43	
13,262.0	90.78	356.78	9,535.8	3,806.9	-244.4	3,812.3	1.66	1.64	-0.24	
13,357.0	90.52	358.54	9,534.7	3,901.8	-248.3	3,907.2	1.87	-0.27	1.85	
13,451.0	89.58	0.76	9,534.7	3,995.8	-248.9	4,001.2	2.56	-1.00	2.36	
13,546.0	89.78	359.92	9,535.2	4,090.8	-248.3	4,096.1	0.91	0.21	-0.88	
13,641.0	88.24	1.28	9,536.8	4,185.8	-247.3	4,191.1	2.16	-1.62	1.43	
13,734.0	89.33	1.60	9,538.8	4,278.8	-245.0	4,283.9	1.22	1.17	0.34	
13,827.0	86.65	1.36	9,542.1	4,371.7	-242.6	4,376.7	2.89	-2.88	-0.26	
13,922.0	87.06	1.09	9,547.3	4,466.5	-240.5	4,471.4	0.52	0.43	-0.28	
14,016.0	86.88	359.19	9,552.2	4,560.4	-240.3	4,565.3	2.03	-0.19	-2.02	
14,110.0	93.37	359.64	9,552.0	4,654.3	-241.3	4,659.2	6.92	6.90	0.48	
14,205.0	94.45	359.77	9,545.6	4,749.1	-241.8	4,754.0	1.15	1.14	0.14	
14,300.0	86.83	357.95	9,544.5	4,844.0	-243.7	4,848.9	8.25	-8.02	-1.92	
14,394.0	86.32	356.64	9,550.1	4,937.7	-248.1	4,942.7	1.49	-0.54	-1.39	
14,488.0	88.94	358.08	9,554.0	5,031.5	-252.4	5,036.6	3.18	2.79	1.53	
14,582.0	90.86	359.44	9,554.2	5,125.5	-254.4	5,130.6	2.50	2.04	1.45	
14,675.0	92.56	359.69	9,551.4	5,218.4	-255.1	5,223.5	1.85	1.83	0.27	
14,769.0	91.82	0.38	9,547.8	5,312.4	-255.1	5,317.4	1.08	-0.79	0.73	
14,862.0	89.99	0.89	9,546.3	5,405.3	-254.1	5,410.3	2.04	-1.97	0.55	
14,957.0	90.84	1.30	9,545.6	5,500.3	-252.2	5,505.2	0.99	0.89	0.43	
15,051.0	87.76	0.64	9,546.8	5,594.3	-250.7	5,599.1	3.35	-3.28	-0.70	
15,145.0	88.36	1.33	9,550.0	5,688.2	-249.0	5,692.9	0.97	0.64	0.73	
15,240.0	89.15	1.03	9,552.0	5,783.2	-247.1	5,787.8	0.89	0.83	-0.32	
15,335.0	88.08	359.11	9,554.3	5,878.1	-247.0	5,882.7	2.31	-1.13	-2.02	
15,430.0	89.13	359.22	9,556.6	5,973.1	-248.3	5,977.7	1.11	1.11	0.12	
15,524.0	91.08	359.66	9,556.5	6,067.1	-249.3	6,071.7	2.13	2.07	0.47	
15,619.0	89.41	359.01	9,556.1	6,162.1	-250.4	6,166.7	1.89	-1.76	-0.68	
15,713.0	88.61	359.67	9,557.7	6,256.1	-251.5	6,260.6	1.10	-0.85	0.70	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #33H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Site:	ATLAS	MD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Well:	MYOX 21 ST COM #33H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	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)	
15,807.0	86.71	0.06	9,561.5	6,350.0	-251.7	6,354.5	2.06	-2.02	0.41	
15,902.0	87.37	359.83	9,566.4	6,444.9	-251.8	6,449.4	0.74	0.69	-0.24	
15,997.0	89.30	0.79	9,569.2	6,539.8	-251.3	6,544.3	2.27	2.03	1.01	
16,090.0	88.48	0.95	9,571.0	6,632.8	-249.8	6,637.2	0.90	-0.88	0.17	
16,185.0	87.71	0.08	9,574.2	6,727.7	-249.0	6,732.0	1.22	-0.81	-0.92	
16,280.0	89.08	359.78	9,576.8	6,822.7	-249.1	6,827.0	1.48	1.44	-0.32	
16,374.0	88.73	358.52	9,578.6	6,916.6	-250.5	6,920.9	1.39	-0.37	-1.34	
16,467.0	89.25	357.86	9,580.3	7,009.6	-253.4	7,013.9	0.90	0.56	-0.71	
16,561.0	89.92	357.49	9,580.9	7,103.5	-257.2	7,107.9	0.81	0.71	-0.39	
16,656.0	92.23	357.55	9,579.2	7,198.4	-261.4	7,202.9	2.43	2.43	0.06	
16,751.0	91.84	359.17	9,575.8	7,293.3	-264.1	7,297.8	1.75	-0.41	1.71	
16,844.0	90.16	359.55	9,574.2	7,386.3	-265.1	7,390.8	1.85	-1.81	0.41	
16,939.0	87.40	0.05	9,576.2	7,481.2	-265.4	7,485.7	2.95	-2.91	0.53	
17,033.0	89.19	359.78	9,579.0	7,575.2	-265.6	7,579.6	1.93	1.90	-0.29	
17,128.0	87.50	358.68	9,581.7	7,670.1	-266.9	7,674.6	2.12	-1.78	-1.16	
17,223.0	88.30	358.49	9,585.2	7,765.0	-269.2	7,769.5	0.87	0.84	-0.20	
17,317.0	92.77	1.42	9,584.3	7,859.0	-269.3	7,863.5	5.69	4.76	3.12	
17,411.0	90.98	0.70	9,581.2	7,952.9	-267.5	7,957.3	2.05	-1.90	-0.77	
17,505.0	91.16	0.88	9,579.5	8,046.9	-266.2	8,051.2	0.27	0.19	0.19	
17,533.0	90.99	0.90	9,579.0	8,074.9	-265.8	8,079.2	0.61	-0.61	0.07	
17,627.0	89.35	0.75	9,578.7	8,168.9	-264.5	8,173.1	1.75	-1.74	-0.16	
17,722.0	89.18	0.05	9,579.9	8,263.9	-263.8	8,268.0	0.76	-0.18	-0.74	
17,815.0	89.11	359.66	9,581.3	8,356.9	-264.0	8,361.0	0.43	-0.08	-0.42	
17,909.0	89.18	0.53	9,582.7	8,450.9	-263.9	8,454.9	0.93	0.07	0.93	
18,004.0	89.05	0.50	9,584.2	8,545.8	-263.0	8,549.8	0.14	-0.14	-0.03	
18,098.0	89.08	0.57	9,585.7	8,639.8	-262.1	8,643.8	0.08	0.03	0.07	
18,192.0	89.19	0.37	9,587.1	8,733.8	-261.4	8,737.7	0.24	0.12	-0.21	
18,286.0	90.19	0.27	9,587.6	8,827.8	-260.8	8,831.6	1.07	1.06	-0.11	
18,381.0	90.12	0.05	9,587.4	8,922.8	-260.6	8,926.6	0.24	-0.07	-0.23	
18,476.0	90.08	359.63	9,587.2	9,017.8	-260.8	9,021.6	0.44	-0.04	-0.44	
18,570.0	90.04	359.41	9,587.1	9,111.8	-261.6	9,115.6	0.24	-0.04	-0.23	
18,664.0	90.07	357.89	9,587.0	9,205.8	-263.8	9,209.5	1.62	0.03	-1.62	
18,758.0	89.81	357.02	9,587.1	9,299.7	-268.0	9,303.5	0.97	-0.28	-0.93	
18,852.0	89.14	357.23	9,588.0	9,393.6	-272.7	9,397.5	0.75	-0.71	0.22	
18,946.0	88.96	357.39	9,589.5	9,487.4	-277.1	9,491.5	0.26	-0.19	0.17	
19,040.0	89.13	359.06	9,591.1	9,581.4	-280.1	9,585.5	1.79	0.18	1.78	
19,134.0	89.33	357.75	9,592.4	9,675.3	-282.7	9,679.4	1.41	0.21	-1.39	
19,228.0	89.45	357.91	9,593.4	9,769.3	-286.2	9,773.4	0.21	0.13	0.17	
19,322.0	88.90	357.91	9,594.7	9,863.2	-289.7	9,867.4	0.59	-0.59	0.00	
19,417.0	88.51	357.92	9,596.9	9,958.1	-293.1	9,962.4	0.41	-0.41	0.01	
19,511.0	87.67	357.80	9,600.0	10,052.0	-296.6	10,056.3	0.90	-0.89	-0.13	
19,535.6	87.69	357.71	9,601.0	10,076.5	-297.6	10,080.9	0.39	0.09	-0.38	
LTP @ 19535.6'MD / 9601'TVD										
19,590.0	87.74	357.50	9,603.2	10,130.9	-299.9	10,135.3	0.39	0.09	-0.38	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #33H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Site:	ATLAS	MD Reference:	RKB=2976.9 +24' @ 3000.9usft (ENSIGN 155)
Well:	MYOX 21 ST COM #33H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	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)	
19,665.0	87.74	357.50	9,606.1	10,205.7	-303.1	10,210.2	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
FTP (MYOX 21 ST CC - hit/miss target - Shape - Point	0.00	0.00	9,511.0	108.3	-195.0	403,432.30	573,646.60	32° 6' 32.142 N	104° 5' 43.722 W	- actual wellpath misses target center by 79.1usft at 9581.7usft MD (9439.0 TVD, 140.8 N, -192.5 E)
LTP (MYOX 21 ST CC - actual wellpath misses target center by 44.0usft at 19536.7usft MD (9601.0 TVD, 10077.6 N, -297.6 E) - Point	0.00	0.00	9,642.3	10,076.6	-282.4	413,400.60	573,559.20	32° 8' 10.794 N	104° 5' 44.482 W	
PBHL (MYOX 21 ST CC - actual wellpath misses target center by 45.4usft at 19466.6usft MD (9598.3 TVD, 10007.6 N, -294.9 E) - Point	0.00	0.00	9,642.3	10,006.6	-283.5	413,330.60	573,558.10	32° 8' 10.102 N	104° 5' 44.497 W	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
9,545.1	9,422.1	108.3	-192.4	FTP @ 9545.1'MD/ 9422.1'TVD	
19,535.6	9,601.0	10,076.5	-297.6	LTP @ 19535.6'MD / 9601'TVD	

Checked By: _____ Approved By: _____ Date: _____