

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Division Director
Oil Conservation Division



Notice of C-104 Denial
and Request for Information 30-015-45376

3/11/2020

OCD denies your C-104 – *Request for Allowable and Authorization to Transport* because it is incomplete or conflicts with other information provided to OCD.

The sale or transport of product without a C-104 approved by OCD violates the Oil and Gas Act and the implementing rules, including 19.15.7.15 and 19.15.16.19 NMAC.

To avoid an enforcement action, you must submit the indicated information no later than 30 days after receipt of this notice.

Test Allowable, New Well and Recompleted Well

Amend C-104

- ☐ C-103 (or BLM equivalent) for all casing strings
 - ☐ Spud Notice
 - ☐ Surface Casing
 - ☐ Intermediate Casing (if applicable)
 - ☐ Additional Intermediate Casing (if applicable)
 - ☐ Production Casing or Liner

WELL STATUS
"CANCELLED APD"

Please update

- ☐ Applicable Order (NSL, NSP, Other _____)
- ☐ Deviation Survey for Vertical Wells
- ☒ Directional Survey (Certified)
 - ☐ C-102 (As-Drilled Plat for Horizontal Well)

New Well and Recompleted Well Only

- ☒ C-103 Completion Sundry (or BLM equivalent)
- ☒ C-105 Completion Report (or BLM equivalent)
- ☒ All Logs Run on Well

Amend Denied C-103 in
Well files

AMEND

If you have any questions please contact the local OCD District Office

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

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JAN 07 2020

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

EMNRD-OCD ARTESIA

Submit one copy to appropriate District Office

☒ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address COG Operating LLC 2208 W. Main Street Artesia, NM 88210		² OGRID Number 229137	
		³ Reason for Filing Code/ Effective Date NW	
API Number 30-015-45376	⁵ Pool Name Purple Sage; Wolfcamp	⁶ Pool Code 98220	
⁷ Property Code 38521	⁸ Property Name Myox 21 State Com	⁹ Well Number 34H	

II. ¹⁰ Surface Location

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
N	21	25S	28E		220	South	1709	West	Eddy

¹¹ Bottom Hole Location

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
C	16	25S	28E		201	North	2070	West	Eddy
¹² Lse Code S	¹³ Producing Method Code F	¹⁴ Gas Connection Date 11/16/19	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
	ACC	O
298751	Energy Transfer 2001 Bryan Street, Ste 3700 Dallas, TX 75201	G
278421	Holly Refining and Marketing PO Box 159 Artesia, NM 88210	O

IV. Well Completion Data

²¹ Spud Date 3/14/19	²² Ready Date 10/29/19	²³ TD 19,390'	²⁴ PBT 19,296' ✓	²⁵ Perforations 9,546-19,285' ✓	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8"	616'	670		
12 1/4"	9 7/8"	8,710'	2025		
8 3/4"	5.5"	19,376'	4450		
	2 7/8"	8,735' ✓			

V. Well Test Data

³¹ Date New Oil 11/16/19 ✓	³² Gas Delivery Date 11/16/19	³³ Test Date 11/16/19	³⁴ Test Length 24 Hrs	³⁵ Tbg. Pressure 1600#	³⁶ Csg. Pressure 1096#
³⁷ Choke Size 23/64"	³⁸ Oil 402	³⁹ Water 5269	⁴⁰ Gas 1161		⁴¹ Test Method Flowing

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Amanda Avery

Printed name:

Amanda Avery

Title:

Regulatory Analyst

E-mail Address:

aavery@concho.com

Date:

1/06/2020

Phone:

575-748-6962

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

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

RECEIVED

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6181 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) 476-3480 Fax: (505) 476-3482

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS
Santa Fe, New Mexico 87505

JAN 07 2020

• 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 30-015-45376		Pool Code 98220	Pool Name Purple Sage; Wolfcamp
Property Code 38521	Property Name MYOX 21 STATE COM		Well Number 34H
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	1709	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	2070	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

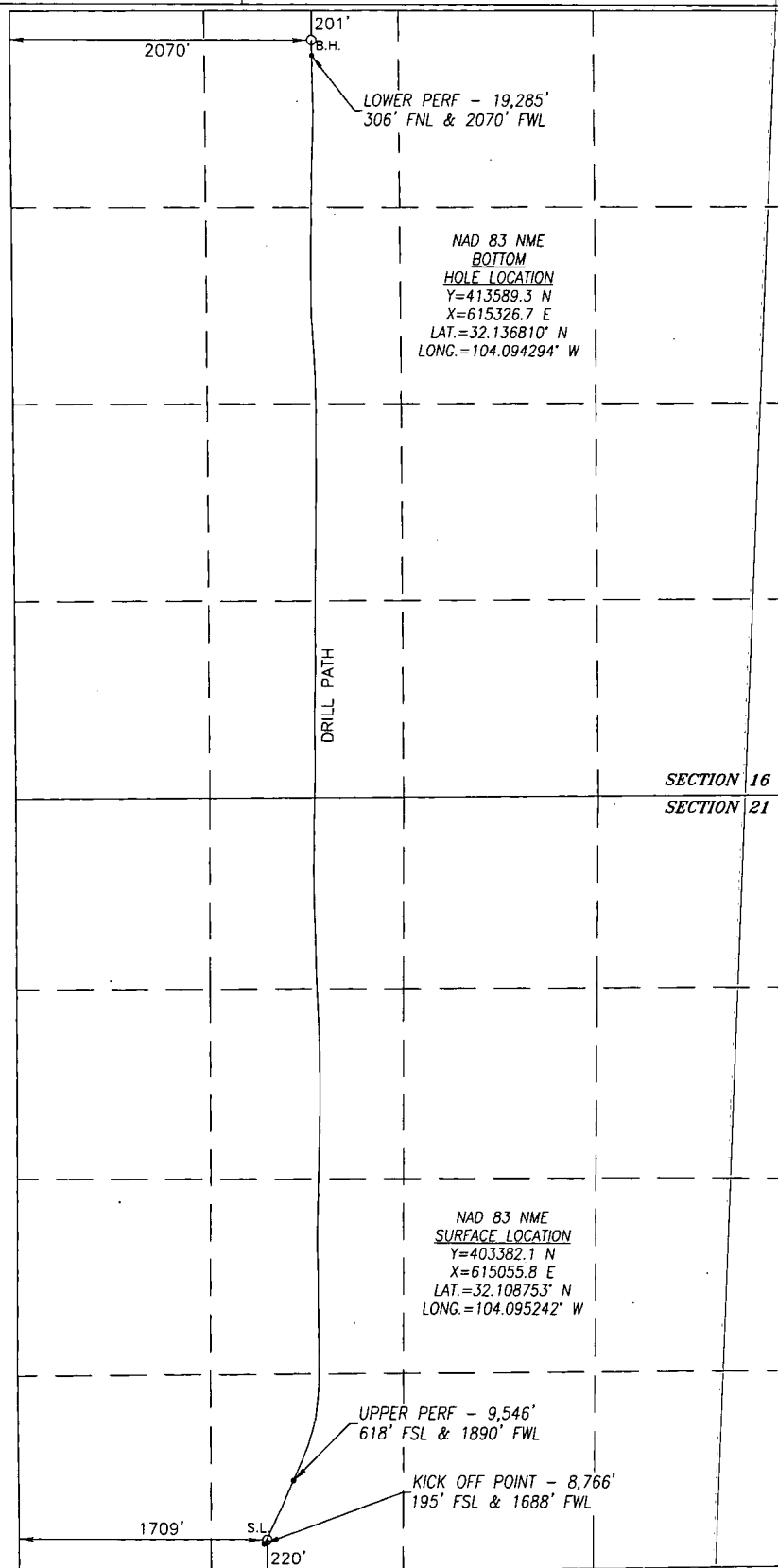
SEE PAGE 2

PAGE 1 OF 2

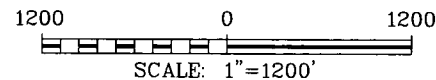
W.O. #19-2166

DRAWN BY: WN

Property Code 38521	Property Name MYOX 21 STATE COM	Well Number 34H
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 #34H SUPPLIED TO HARCROW SURVEYING, LLC ON NOVEMBER 14, 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 8, 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 ☒API #
30-015-44004Operator Name:
COG OPERATING, LLCProperty Name:
MYOX 21 STATE COMWell Number
34H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	21	25S	28E		195	SOUTH	1688	WEST	EDDY
Latitude					Longitude			NAD	
32.108684					-104.095309			83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	21	25S	28E		618	SOUTH	1890	WEST	EDDY
Latitude					Longitude			NAD	
32.109850					-104.094665			83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	16	25S	28E		306	NORTH	2070	WEST	EDDY
Latitude					Longitude			NAD	
32.136521					-104.094289			83	

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 #34H

OWB

Design: AWP

Standard Survey Report

08 July, 2019

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

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #34H
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 #34H	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 21 ST COM #34H		
Well Position	+N/-S	0.0 usft	Northing: 403,324.30 usft
	+E/-W	0.0 usft	Easting: 573,871.60 usft
Position Uncertainty	3.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 6' 31.068 N
		Longitude:	104° 5' 41.108 W
		Ground Level:	2,976.9 usft

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination
			(°)
	WMM2015	12/19/2016	7.26
			Dip Angle
			(°)
			59.87
			Field Strength
			(nT)
			47,856.75504313

Design	AWP		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			1.48

Survey Program	Date 7/8/2019		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100.0	8,694.0	GYRO-INTERMEDIATE (OWB)	Standard Keeper 104
8,716.0	19,390.0	MWD-CURVE/LAT (OWB)	MWD+IFR1+MS
			Description
			Standard Wireline Keeper ver 1.0.4
			OWSG MWD + IFR1 + Multi-Station 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	0.54	25.74	100.0	0.4	0.2	0.4	0.54	0.54	0.00	
125.0	0.51	36.48	125.0	0.6	0.3	0.6	0.41	-0.12	42.96	
150.0	0.68	52.37	150.0	0.8	0.5	0.8	0.94	0.68	63.56	
175.0	0.78	76.59	175.0	0.9	0.8	1.0	1.29	0.40	96.88	
200.0	0.89	89.64	200.0	1.0	1.1	1.0	0.88	0.44	52.20	
225.0	0.91	92.58	225.0	1.0	1.5	1.0	0.20	0.08	11.76	
250.0	0.93	86.77	250.0	1.0	1.9	1.0	0.38	0.08	-23.24	
275.0	0.93	91.70	275.0	1.0	2.3	1.0	0.32	0.00	19.72	
300.0	1.08	82.49	300.0	1.0	2.8	1.1	0.88	0.60	-36.84	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #34H
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 #34H	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)
325.0	0.89	90.70	325.0	1.0	3.2	1.1	0.94	-0.76	32.84
350.0	0.81	84.39	350.0	1.0	3.6	1.1	0.49	-0.32	-25.24
375.0	0.92	74.06	375.0	1.1	3.9	1.2	0.76	0.44	-41.32
400.0	0.83	73.71	400.0	1.2	4.3	1.3	0.36	-0.36	-1.40
425.0	0.85	69.76	425.0	1.3	4.7	1.5	0.24	0.08	-15.80
450.0	0.72	75.87	450.0	1.4	5.0	1.6	0.62	-0.52	24.44
475.0	0.77	73.07	475.0	1.5	5.3	1.7	0.25	0.20	-11.20
500.0	0.84	57.56	500.0	1.7	5.6	1.8	0.91	0.28	-62.04
525.0	0.70	62.49	525.0	1.8	5.9	2.0	0.62	-0.56	19.72
550.0	0.57	44.89	550.0	2.0	6.1	2.2	0.93	-0.52	-70.40
575.0	0.59	16.81	575.0	2.2	6.3	2.4	1.13	0.08	-112.32
600.0	0.61	357.84	599.9	2.5	6.3	2.6	0.79	0.08	-75.88
625.0	0.41	340.42	624.9	2.7	6.3	2.8	1.00	-0.80	-69.68
650.0	0.49	315.62	649.9	2.8	6.2	3.0	0.83	0.32	-99.20
675.0	0.70	287.26	674.9	3.0	5.9	3.1	1.42	0.84	-113.44
700.0	0.86	269.63	699.9	3.0	5.6	3.2	1.15	0.64	-70.52
725.0	1.61	243.91	724.9	2.9	5.1	3.0	3.66	3.00	-102.88
750.0	2.54	231.58	749.9	2.4	4.3	2.5	4.11	3.72	-49.32
775.0	2.93	230.40	774.9	1.6	3.4	1.7	1.58	1.56	-4.72
800.0	2.91	230.49	799.9	0.8	2.4	0.9	0.08	-0.08	0.36
825.0	2.84	230.46	824.8	0.0	1.5	0.0	0.28	-0.28	-0.12
850.0	2.84	230.69	849.8	-0.8	0.5	-0.8	0.05	0.00	0.92
875.0	2.92	228.85	874.8	-1.6	-0.4	-1.6	0.49	0.32	-7.36
900.0	2.93	230.12	899.7	-2.4	-1.4	-2.5	0.26	0.04	5.08
925.0	2.29	226.92	924.7	-3.2	-2.3	-3.2	2.62	-2.56	-12.80
950.0	1.27	223.89	949.7	-3.7	-2.8	-3.8	4.10	-4.08	-12.12
975.0	0.90	217.75	974.7	-4.1	-3.1	-4.2	1.55	-1.48	-24.56
1,000.0	0.55	208.34	999.7	-4.3	-3.3	-4.4	1.47	-1.40	-37.64
1,025.0	0.21	96.24	1,024.7	-4.5	-3.3	-4.5	2.63	-1.36	-448.40
1,050.0	0.61	66.63	1,049.7	-4.4	-3.2	-4.5	1.76	1.60	-118.44
1,075.0	0.85	62.74	1,074.7	-4.3	-2.9	-4.3	0.98	0.96	-15.56
1,100.0	0.92	65.45	1,099.7	-4.1	-2.5	-4.2	0.33	0.28	10.84
1,125.0	0.97	65.89	1,124.7	-3.9	-2.2	-4.0	0.20	0.20	1.76
1,150.0	0.99	59.25	1,149.7	-3.7	-1.8	-3.8	0.46	0.08	-26.56
1,175.0	0.86	69.91	1,174.7	-3.6	-1.4	-3.6	0.86	-0.52	42.64
1,200.0	0.92	62.80	1,199.7	-3.4	-1.1	-3.4	0.50	0.24	-28.44
1,225.0	0.93	64.44	1,224.7	-3.2	-0.7	-3.2	0.11	0.04	6.56
1,250.0	0.89	60.68	1,249.7	-3.0	-0.3	-3.0	0.29	-0.16	-15.04
1,275.0	0.93	67.74	1,274.7	-2.9	0.0	-2.9	0.48	0.16	28.24
1,300.0	0.99	66.66	1,299.7	-2.7	0.4	-2.7	0.25	0.24	-4.32
1,325.0	0.92	64.11	1,324.7	-2.5	0.8	-2.5	0.33	-0.28	-10.20
1,350.0	0.93	69.90	1,349.7	-2.4	1.1	-2.3	0.38	0.04	23.16
1,375.0	0.95	76.16	1,374.6	-2.3	1.5	-2.2	0.42	0.08	25.04

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #34H
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 #34H	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)
1,400.0	1.04	59.58	1,399.6	-2.1	1.9	-2.0	1.20	0.36	-66.32
1,425.0	1.03	68.21	1,424.6	-1.9	2.3	-1.8	0.62	-0.04	34.52
1,450.0	1.09	71.93	1,449.6	-1.7	2.8	-1.7	0.37	0.24	14.88
1,475.0	1.02	71.82	1,474.6	-1.6	3.2	-1.5	0.28	-0.28	-0.44
1,500.0	0.99	71.53	1,499.6	-1.5	3.6	-1.4	0.12	-0.12	-1.16
1,525.0	1.02	68.76	1,524.6	-1.3	4.0	-1.2	0.23	0.12	-11.08
1,550.0	0.93	66.32	1,549.6	-1.1	4.4	-1.0	0.40	-0.36	-9.76
1,575.0	0.06	15.01	1,574.6	-1.0	4.6	-0.9	3.57	-3.48	-205.24
1,600.0	0.27	274.73	1,599.6	-1.0	4.6	-0.9	1.15	0.84	-401.12
1,625.0	0.42	260.09	1,624.6	-1.0	4.4	-0.9	0.69	0.60	-58.56
1,650.0	0.68	265.44	1,649.6	-1.1	4.2	-1.0	1.06	1.04	21.40
1,675.0	0.49	256.90	1,674.6	-1.1	3.9	-1.0	0.83	-0.76	-34.16
1,700.0	0.57	261.60	1,699.6	-1.1	3.7	-1.1	0.36	0.32	18.80
1,725.0	0.44	253.19	1,724.6	-1.2	3.5	-1.1	0.60	-0.52	-33.64
1,750.0	0.22	264.54	1,749.6	-1.2	3.3	-1.1	0.91	-0.88	45.40
1,775.0	0.25	154.31	1,774.6	-1.3	3.3	-1.2	1.54	0.12	-440.92
1,800.0	0.60	118.76	1,799.6	-1.4	3.5	-1.3	1.69	1.40	-142.20
1,825.0	0.84	114.37	1,824.6	-1.5	3.7	-1.4	0.98	0.96	-17.56
1,850.0	0.99	112.15	1,849.6	-1.7	4.1	-1.6	0.62	0.60	-8.88
1,875.0	0.90	119.27	1,874.6	-1.9	4.5	-1.7	0.59	-0.36	28.48
1,900.0	1.34	114.14	1,899.6	-2.1	4.9	-2.0	1.80	1.76	-20.52
1,925.0	1.36	112.28	1,924.6	-2.3	5.5	-2.2	0.19	0.08	-7.44
1,950.0	1.51	116.89	1,949.6	-2.6	6.0	-2.4	0.76	0.60	18.44
1,975.0	1.46	113.96	1,974.6	-2.9	6.6	-2.7	0.36	-0.20	-11.72
2,000.0	1.66	117.31	1,999.6	-3.1	7.2	-3.0	0.88	0.80	13.40
2,025.0	1.47	119.70	2,024.6	-3.5	7.8	-3.3	0.80	-0.76	9.56
2,050.0	1.42	134.94	2,049.5	-3.8	8.3	-3.6	1.55	-0.20	60.96
2,075.0	1.48	143.60	2,074.5	-4.3	8.7	-4.1	0.91	0.24	34.64
2,100.0	1.49	141.81	2,099.5	-4.8	9.1	-4.6	0.19	0.04	-7.16
2,125.0	1.53	142.68	2,124.5	-5.4	9.5	-5.1	0.18	0.16	3.48
2,150.0	1.48	141.38	2,149.5	-5.9	9.9	-5.6	0.24	-0.20	-5.20
2,175.0	1.79	141.53	2,174.5	-6.4	10.4	-6.2	1.24	1.24	0.60
2,200.0	1.86	136.54	2,199.5	-7.0	10.9	-6.8	0.69	0.28	-19.96
2,225.0	1.69	133.50	2,224.5	-7.6	11.5	-7.3	0.78	-0.68	-12.16
2,250.0	1.10	117.72	2,249.5	-8.0	11.9	-7.6	2.79	-2.36	-63.12
2,275.0	0.32	88.87	2,274.5	-8.1	12.2	-7.7	3.34	-3.12	-115.40
2,300.0	0.41	4.89	2,299.5	-8.0	12.3	-7.7	1.97	0.36	-335.92
2,325.0	1.08	283.55	2,324.5	-7.8	12.1	-7.5	4.38	2.68	-325.36
2,350.0	1.96	269.58	2,349.5	-7.8	11.4	-7.5	3.79	3.52	-55.88
2,375.0	2.43	273.96	2,374.4	-7.7	10.5	-7.5	1.99	1.88	17.52
2,400.0	2.55	271.30	2,399.4	-7.7	9.4	-7.4	0.67	0.48	-10.64
2,425.0	2.65	270.41	2,424.4	-7.7	8.2	-7.5	0.43	0.40	-3.56
2,450.0	2.62	269.20	2,449.4	-7.7	7.1	-7.5	0.25	-0.12	-4.84

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #34H
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 #34H	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)	
2,475.0	2.49	270.77	2,474.3	-7.7	6.0	-7.5	0.59	-0.52	6.28	
2,500.0	2.76	269.34	2,499.3	-7.7	4.8	-7.6	1.11	1.08	-5.72	
2,525.0	2.59	271.96	2,524.3	-7.7	3.7	-7.6	0.84	-0.68	10.48	
2,550.0	2.58	272.76	2,549.3	-7.6	2.5	-7.6	0.15	-0.04	3.20	
2,575.0	2.58	276.68	2,574.2	-7.5	1.4	-7.5	0.71	0.00	15.68	
2,600.0	2.22	280.58	2,599.2	-7.4	0.4	-7.4	1.58	-1.44	15.60	
2,625.0	1.49	281.37	2,624.2	-7.2	-0.4	-7.2	2.92	-2.92	3.16	
2,650.0	1.30	276.95	2,649.2	-7.1	-1.0	-7.1	0.87	-0.76	-17.68	
2,675.0	1.19	282.39	2,674.2	-7.0	-1.5	-7.1	0.65	-0.44	21.76	
2,700.0	1.26	286.03	2,699.2	-6.9	-2.1	-7.0	0.42	0.28	14.56	
2,725.0	1.07	284.00	2,724.2	-6.8	-2.6	-6.8	0.78	-0.76	-8.12	
2,750.0	1.13	281.24	2,749.2	-6.7	-3.0	-6.7	0.32	0.24	-11.04	
2,775.0	1.08	286.71	2,774.2	-6.6	-3.5	-6.6	0.47	-0.20	21.88	
2,800.0	1.16	284.51	2,799.2	-6.4	-4.0	-6.5	0.36	0.32	-8.80	
2,825.0	1.12	283.59	2,824.2	-6.3	-4.4	-6.4	0.18	-0.16	-3.68	
2,850.0	1.11	286.34	2,849.2	-6.2	-4.9	-6.3	0.22	-0.04	11.00	
2,875.0	1.15	285.79	2,874.1	-6.0	-5.4	-6.2	0.17	0.16	-2.20	
2,900.0	1.19	286.76	2,899.1	-5.9	-5.9	-6.0	0.18	0.16	3.88	
2,925.0	1.03	281.78	2,924.1	-5.8	-6.3	-5.9	0.75	-0.64	-19.92	
2,950.0	1.17	278.04	2,949.1	-5.7	-6.8	-5.9	0.63	0.56	-14.96	
2,975.0	1.02	286.60	2,974.1	-5.6	-7.3	-5.8	0.89	-0.60	34.24	
3,000.0	0.55	243.33	2,999.1	-5.6	-7.6	-5.8	2.90	-1.88	-173.08	
3,025.0	0.35	204.54	3,024.1	-5.7	-7.7	-5.9	1.41	-0.80	-155.16	
3,050.0	0.39	185.35	3,049.1	-5.9	-7.8	-6.1	0.52	0.16	-76.76	
3,075.0	0.63	187.93	3,074.1	-6.1	-7.8	-6.3	0.96	0.96	10.32	
3,100.0	0.43	179.05	3,099.1	-6.3	-7.8	-6.5	0.86	-0.80	-35.52	
3,125.0	0.41	183.06	3,124.1	-6.5	-7.8	-6.7	0.14	-0.08	16.04	
3,150.0	0.43	179.80	3,149.1	-6.7	-7.8	-6.9	0.12	0.08	-13.04	
3,175.0	0.37	173.47	3,174.1	-6.9	-7.8	-7.1	0.30	-0.24	-25.32	
3,200.0	0.32	175.19	3,199.1	-7.0	-7.8	-7.2	0.20	-0.20	6.88	
3,225.0	0.43	174.44	3,224.1	-7.2	-7.8	-7.4	0.44	0.44	-3.00	
3,250.0	0.40	168.24	3,249.1	-7.3	-7.8	-7.5	0.22	-0.12	-24.80	
3,275.0	0.49	181.06	3,274.1	-7.5	-7.8	-7.7	0.53	0.36	51.28	
3,300.0	0.35	166.68	3,299.1	-7.7	-7.7	-7.9	0.70	-0.56	-57.52	
3,325.0	0.41	186.69	3,324.1	-7.9	-7.7	-8.1	0.58	0.24	80.04	
3,350.0	0.43	183.18	3,349.1	-8.1	-7.7	-8.3	0.13	0.08	-14.04	
3,375.0	0.36	175.13	3,374.1	-8.2	-7.7	-8.4	0.36	-0.28	-32.20	
3,400.0	0.45	174.88	3,399.1	-8.4	-7.7	-8.6	0.36	0.36	-1.00	
3,425.0	0.46	177.62	3,424.1	-8.6	-7.7	-8.8	0.10	0.04	10.96	
3,450.0	0.33	154.61	3,449.1	-8.8	-7.7	-9.0	0.81	-0.52	-92.04	
3,475.0	0.53	172.89	3,474.1	-9.0	-7.6	-9.1	0.96	0.80	73.12	
3,500.0	0.47	195.93	3,499.1	-9.2	-7.7	-9.4	0.83	-0.24	92.16	
3,525.0	0.54	182.02	3,524.1	-9.4	-7.7	-9.6	0.56	0.28	-55.64	
3,550.0	0.35	168.33	3,549.1	-9.6	-7.7	-9.8	0.87	-0.76	-54.76	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #34H
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 #34H	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)	
3,575.0	0.57	183.80	3,574.1	-9.8	-7.7	-10.0	1.00	0.88	61.88	
3,600.0	0.56	184.74	3,599.1	-10.0	-7.7	-10.2	0.05	-0.04	3.76	
3,625.0	0.55	180.31	3,624.1	-10.3	-7.7	-10.5	0.18	-0.04	-17.72	
3,650.0	0.37	170.37	3,649.1	-10.5	-7.7	-10.7	0.78	-0.72	-39.76	
3,675.0	0.87	192.65	3,674.1	-10.7	-7.7	-10.9	2.18	2.00	89.12	
3,700.0	0.71	169.40	3,699.1	-11.1	-7.7	-11.3	1.42	-0.64	-93.00	
3,725.0	0.68	176.16	3,724.1	-11.4	-7.7	-11.6	0.35	-0.12	27.04	
3,750.0	0.73	177.17	3,749.1	-11.7	-7.7	-11.9	0.21	0.20	4.04	
3,775.0	0.74	178.64	3,774.1	-12.0	-7.7	-12.2	0.09	0.04	5.88	
3,800.0	0.80	175.80	3,799.1	-12.3	-7.6	-12.5	0.28	0.24	-11.36	
3,825.0	0.67	166.94	3,824.1	-12.6	-7.6	-12.8	0.69	-0.52	-35.44	
3,850.0	0.79	171.20	3,849.1	-13.0	-7.5	-13.1	0.53	0.48	17.04	
3,875.0	0.82	173.38	3,874.1	-13.3	-7.5	-13.5	0.17	0.12	8.72	
3,900.0	0.74	169.89	3,899.1	-13.6	-7.4	-13.8	0.37	-0.32	-13.96	
3,925.0	0.75	180.37	3,924.1	-14.0	-7.4	-14.1	0.55	0.04	41.92	
3,950.0	0.68	179.86	3,949.1	-14.3	-7.4	-14.5	0.28	-0.28	-2.04	
3,975.0	0.72	175.30	3,974.1	-14.6	-7.4	-14.8	0.27	0.16	-18.24	
4,000.0	0.77	172.10	3,999.1	-14.9	-7.4	-15.1	0.26	0.20	-12.80	
4,025.0	0.46	184.32	4,024.1	-15.2	-7.3	-15.4	1.34	-1.24	48.88	
4,050.0	0.20	43.22	4,049.1	-15.2	-7.3	-15.4	2.51	-1.04	-564.40	
4,075.0	0.32	6.20	4,074.1	-15.1	-7.3	-15.3	0.80	0.48	-148.08	
4,100.0	0.46	353.01	4,099.1	-15.0	-7.3	-15.2	0.66	0.56	-52.76	
4,125.0	0.61	342.17	4,124.1	-14.7	-7.3	-14.9	0.72	0.60	-43.36	
4,150.0	0.55	333.82	4,149.1	-14.5	-7.4	-14.7	0.41	-0.24	-33.40	
4,175.0	0.47	359.41	4,174.1	-14.3	-7.5	-14.5	0.96	-0.32	102.36	
4,200.0	0.57	349.19	4,199.1	-14.1	-7.5	-14.3	0.54	0.40	-40.88	
4,225.0	0.56	341.37	4,224.1	-13.8	-7.6	-14.0	0.31	-0.04	-31.28	
4,250.0	0.50	352.05	4,249.1	-13.6	-7.6	-13.8	0.46	-0.24	42.72	
4,275.0	0.49	352.22	4,274.1	-13.4	-7.7	-13.6	0.04	-0.04	0.68	
4,300.0	0.43	352.85	4,299.1	-13.2	-7.7	-13.4	0.24	-0.24	2.52	
4,325.0	0.54	354.14	4,324.1	-13.0	-7.7	-13.2	0.44	0.44	5.16	
4,350.0	0.49	348.89	4,349.1	-12.8	-7.7	-13.0	0.27	-0.20	-21.00	
4,375.0	0.39	346.90	4,374.1	-12.6	-7.8	-12.8	0.40	-0.40	-7.96	
4,400.0	0.33	300.28	4,399.1	-12.5	-7.9	-12.7	1.16	-0.24	-186.48	
4,425.0	0.57	329.64	4,424.1	-12.3	-8.0	-12.5	1.30	0.96	117.44	
4,450.0	0.54	339.56	4,449.1	-12.1	-8.1	-12.3	0.40	-0.12	39.68	
4,475.0	0.55	350.17	4,474.1	-11.9	-8.2	-12.1	0.41	0.04	42.44	
4,500.0	0.60	347.49	4,499.1	-11.6	-8.2	-11.8	0.23	0.20	-10.72	
4,525.0	0.83	350.74	4,524.1	-11.3	-8.3	-11.5	0.93	0.92	13.00	
4,550.0	0.72	356.76	4,549.1	-11.0	-8.3	-11.2	0.55	-0.44	24.08	
4,575.0	0.64	343.82	4,574.1	-10.7	-8.3	-10.9	0.69	-0.32	-51.76	
4,600.0	0.58	336.40	4,599.1	-10.4	-8.4	-10.7	0.40	-0.24	-29.68	
4,625.0	0.67	338.51	4,624.1	-10.2	-8.5	-10.4	0.37	0.36	8.44	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #34H
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 #34H	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)	
4,650.0	0.70	333.18	4,649.1	-9.9	-8.7	-10.1	0.28	0.12	-21.32	
4,675.0	0.64	333.60	4,674.0	-9.7	-8.8	-9.9	0.24	-0.24	1.68	
4,700.0	0.72	328.26	4,699.0	-9.4	-8.9	-9.6	0.41	0.32	-21.36	
4,725.0	0.72	331.47	4,724.0	-9.1	-9.1	-9.4	0.16	0.00	12.84	
4,750.0	0.90	326.57	4,749.0	-8.8	-9.3	-9.1	0.77	0.72	-19.60	
4,775.0	0.76	329.92	4,774.0	-8.5	-9.5	-8.8	0.59	-0.56	13.40	
4,800.0	0.75	320.87	4,799.0	-8.2	-9.7	-8.5	0.48	-0.04	-36.20	
4,825.0	0.76	319.41	4,824.0	-8.0	-9.9	-8.2	0.09	0.04	-5.84	
4,850.0	0.81	320.82	4,849.0	-7.7	-10.1	-8.0	0.21	0.20	5.64	
4,875.0	0.76	321.63	4,874.0	-7.5	-10.3	-7.7	0.20	-0.20	3.24	
4,900.0	0.82	310.81	4,899.0	-7.2	-10.5	-7.5	0.64	0.24	-43.28	
4,925.0	0.84	320.42	4,924.0	-7.0	-10.8	-7.2	0.56	0.08	38.44	
4,950.0	0.85	315.71	4,949.0	-6.7	-11.0	-7.0	0.28	0.04	-18.84	
4,975.0	0.86	315.59	4,974.0	-6.4	-11.3	-6.7	0.04	0.04	-0.48	
5,000.0	0.82	304.37	4,999.0	-6.2	-11.6	-6.5	0.68	-0.16	-44.88	
5,025.0	0.78	309.16	5,024.0	-6.0	-11.9	-6.3	0.31	-0.16	19.16	
5,050.0	0.76	305.68	5,049.0	-5.8	-12.1	-6.1	0.20	-0.08	-13.92	
5,075.0	0.27	288.62	5,074.0	-5.7	-12.3	-6.0	2.03	-1.96	-68.24	
5,100.0	0.13	212.08	5,099.0	-5.7	-12.4	-6.0	1.08	-0.56	-306.16	
5,125.0	0.35	156.01	5,124.0	-5.8	-12.4	-6.1	1.19	0.88	-224.28	
5,150.0	0.43	155.08	5,149.0	-5.9	-12.3	-6.2	0.32	0.32	-3.72	
5,175.0	0.56	154.91	5,174.0	-6.1	-12.2	-6.4	0.52	0.52	-0.68	
5,200.0	0.58	151.40	5,199.0	-6.3	-12.1	-6.6	0.16	0.08	-14.04	
5,225.0	0.60	154.82	5,224.0	-6.6	-12.0	-6.9	0.16	0.08	13.68	
5,250.0	0.61	159.23	5,249.0	-6.8	-11.9	-7.1	0.19	0.04	17.64	
5,275.0	0.59	159.35	5,274.0	-7.0	-11.8	-7.3	0.08	-0.08	0.48	
5,300.0	0.62	160.73	5,299.0	-7.3	-11.7	-7.6	0.13	0.12	5.52	
5,325.0	0.64	163.00	5,324.0	-7.5	-11.6	-7.8	0.13	0.08	9.08	
5,350.0	0.63	161.70	5,349.0	-7.8	-11.5	-8.1	0.07	-0.04	-5.20	
5,375.0	0.63	158.01	5,374.0	-8.1	-11.4	-8.4	0.16	0.00	-14.76	
5,400.0	0.59	155.49	5,399.0	-8.3	-11.3	-8.6	0.19	-0.16	-10.08	
5,425.0	0.64	159.67	5,424.0	-8.6	-11.2	-8.9	0.27	0.20	16.72	
5,450.0	0.71	171.79	5,449.0	-8.8	-11.2	-9.1	0.63	0.28	48.48	
5,475.0	0.73	167.41	5,474.0	-9.2	-11.1	-9.4	0.23	0.08	-17.52	
5,500.0	0.72	168.67	5,499.0	-9.5	-11.0	-9.7	0.08	-0.04	5.04	
5,525.0	0.65	167.63	5,524.0	-9.8	-11.0	-10.0	0.28	-0.28	-4.16	
5,550.0	0.72	172.38	5,549.0	-10.1	-10.9	-10.3	0.36	0.28	19.00	
5,575.0	0.76	164.87	5,574.0	-10.4	-10.9	-10.6	0.42	0.16	-30.04	
5,600.0	0.74	165.48	5,599.0	-10.7	-10.8	-11.0	0.09	-0.08	2.44	
5,625.0	0.76	160.68	5,624.0	-11.0	-10.7	-11.3	0.26	0.08	-19.20	
5,650.0	0.85	168.06	5,649.0	-11.3	-10.6	-11.6	0.55	0.36	29.52	
5,675.0	0.83	174.36	5,674.0	-11.7	-10.5	-12.0	0.38	-0.08	25.20	
5,700.0	0.82	170.56	5,699.0	-12.1	-10.5	-12.3	0.22	-0.04	-15.20	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #34H
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 #34H	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)
5,725.0	0.79	172.42	5,724.0	-12.4	-10.4	-12.7	0.16	-0.12	7.44
5,750.0	0.85	172.69	5,749.0	-12.8	-10.4	-13.0	0.24	0.24	1.08
5,775.0	0.76	172.31	5,774.0	-13.1	-10.3	-13.4	0.36	-0.36	-1.52
5,800.0	0.74	172.47	5,799.0	-13.4	-10.3	-13.7	0.08	-0.08	0.64
5,825.0	0.79	170.16	5,824.0	-13.8	-10.2	-14.0	0.23	0.20	-9.24
5,850.0	0.75	168.34	5,849.0	-14.1	-10.2	-14.3	0.19	-0.16	-7.28
5,875.0	0.81	175.68	5,874.0	-14.4	-10.1	-14.7	0.47	0.24	29.36
5,900.0	0.76	169.75	5,899.0	-14.8	-10.1	-15.0	0.38	-0.20	-23.72
5,925.0	0.79	178.55	5,924.0	-15.1	-10.1	-15.4	0.49	0.12	35.20
5,950.0	0.82	171.98	5,948.9	-15.4	-10.0	-15.7	0.39	0.12	-26.28
5,975.0	0.76	161.38	5,973.9	-15.8	-10.0	-16.0	0.63	-0.24	-42.40
6,000.0	0.41	150.73	5,998.9	-16.0	-9.9	-16.3	1.46	-1.40	-42.60
6,025.0	0.47	58.39	6,023.9	-16.0	-9.7	-16.3	2.54	0.24	-369.36
6,050.0	1.02	30.37	6,048.9	-15.8	-9.5	-16.0	2.58	2.20	-112.08
6,075.0	1.28	28.92	6,073.9	-15.4	-9.3	-15.6	1.05	1.04	-5.80
6,100.0	1.33	29.58	6,098.9	-14.9	-9.0	-15.1	0.21	0.20	2.64
6,125.0	1.41	30.39	6,123.9	-14.3	-8.7	-14.6	0.33	0.32	3.24
6,150.0	1.43	31.16	6,148.9	-13.8	-8.4	-14.0	0.11	0.08	3.08
6,175.0	1.40	29.21	6,173.9	-13.3	-8.1	-13.5	0.23	-0.12	-7.80
6,200.0	1.53	30.96	6,198.9	-12.7	-7.8	-12.9	0.55	0.52	7.00
6,225.0	1.66	29.10	6,223.9	-12.1	-7.4	-12.3	0.56	0.52	-7.44
6,250.0	1.69	30.60	6,248.9	-11.5	-7.0	-11.7	0.21	0.12	6.00
6,275.0	1.74	29.46	6,273.9	-10.8	-6.7	-11.0	0.24	0.20	-4.56
6,300.0	1.66	29.94	6,298.9	-10.2	-6.3	-10.4	0.33	-0.32	1.92
6,325.0	1.85	26.96	6,323.8	-9.5	-5.9	-9.7	0.84	0.76	-11.92
6,350.0	1.82	28.46	6,348.8	-8.8	-5.6	-9.0	0.23	-0.12	6.00
6,375.0	1.71	28.20	6,373.8	-8.1	-5.2	-8.3	0.44	-0.44	-1.04
6,400.0	1.74	25.40	6,398.8	-7.5	-4.9	-7.6	0.36	0.12	-11.20
6,425.0	1.77	23.94	6,423.8	-6.8	-4.5	-6.9	0.22	0.12	-5.84
6,450.0	1.80	26.23	6,448.8	-6.1	-4.2	-6.2	0.31	0.12	9.16
6,475.0	1.79	25.02	6,473.8	-5.4	-3.9	-5.5	0.16	-0.04	-4.84
6,500.0	1.83	25.76	6,498.8	-4.6	-3.5	-4.7	0.19	0.16	2.96
6,525.0	1.73	25.16	6,523.7	-3.9	-3.2	-4.0	0.41	-0.40	-2.40
6,550.0	1.66	26.65	6,548.7	-3.3	-2.9	-3.4	0.33	-0.28	5.96
6,575.0	1.37	40.80	6,573.7	-2.7	-2.5	-2.8	1.88	-1.16	56.60
6,600.0	1.23	69.25	6,598.7	-2.4	-2.1	-2.5	2.61	-0.56	113.80
6,625.0	1.21	88.52	6,623.7	-2.3	-1.6	-2.3	1.64	-0.08	77.08
6,650.0	1.13	103.48	6,648.7	-2.4	-1.1	-2.4	1.26	-0.32	59.84
6,675.0	1.36	106.68	6,673.7	-2.5	-0.5	-2.5	0.96	0.92	12.80
6,700.0	1.21	113.41	6,698.7	-2.7	0.0	-2.7	0.85	-0.60	26.92
6,725.0	1.31	111.09	6,723.7	-2.9	0.5	-2.9	0.45	0.40	-9.28
6,750.0	1.24	115.91	6,748.7	-3.1	1.0	-3.1	0.51	-0.28	19.28
6,775.0	1.25	112.84	6,773.7	-3.3	1.5	-3.3	0.27	0.04	-12.28
6,800.0	1.36	116.17	6,798.7	-3.6	2.0	-3.5	0.53	0.44	13.32

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #34H
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 #34H	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)
6,825.0	1.40	118.74	6,823.7	-3.9	2.6	-3.8	0.29	0.16	10.28
6,850.0	1.57	126.30	6,848.7	-4.2	3.1	-4.1	1.04	0.68	30.24
6,875.0	1.54	131.22	6,873.7	-4.6	3.6	-4.5	0.55	-0.12	19.68
6,900.0	1.64	131.40	6,898.6	-5.1	4.2	-5.0	0.40	0.40	0.72
6,925.0	1.71	133.87	6,923.6	-5.6	4.7	-5.5	0.40	0.28	9.88
6,950.0	1.78	140.91	6,948.6	-6.1	5.2	-6.0	0.90	0.28	28.16
6,975.0	1.58	139.79	6,973.6	-6.7	5.7	-6.6	0.81	-0.80	-4.48
7,000.0	1.28	149.91	6,998.6	-7.2	6.0	-7.1	1.56	-1.20	40.48
7,025.0	1.10	158.74	7,023.6	-7.7	6.3	-7.5	1.03	-0.72	35.32
7,050.0	1.07	160.85	7,048.6	-8.1	6.4	-8.0	0.20	-0.12	8.44
7,075.0	1.05	161.12	7,073.6	-8.6	6.6	-8.4	0.08	-0.08	1.08
7,100.0	1.10	161.90	7,098.6	-9.0	6.7	-8.8	0.21	0.20	3.12
7,125.0	1.11	162.17	7,123.6	-9.5	6.9	-9.3	0.05	0.04	1.08
7,150.0	1.07	166.80	7,148.6	-9.9	7.0	-9.7	0.39	-0.16	18.52
7,175.0	1.13	161.34	7,173.6	-10.4	7.1	-10.2	0.48	0.24	-21.84
7,200.0	1.15	162.03	7,198.6	-10.9	7.3	-10.7	0.10	0.08	2.76
7,225.0	1.20	160.55	7,223.6	-11.3	7.5	-11.1	0.23	0.20	-5.92
7,250.0	1.20	163.28	7,248.6	-11.8	7.6	-11.6	0.23	0.00	10.92
7,275.0	1.15	169.51	7,273.5	-12.3	7.7	-12.1	0.55	-0.20	24.92
7,300.0	1.16	171.70	7,298.5	-12.8	7.8	-12.6	0.18	0.04	8.76
7,325.0	1.22	172.85	7,323.5	-13.3	7.9	-13.1	0.26	0.24	4.60
7,350.0	1.28	172.27	7,348.5	-13.9	8.0	-13.7	0.25	0.24	-2.32
7,375.0	1.31	178.15	7,373.5	-14.5	8.0	-14.2	0.54	0.12	23.52
7,400.0	1.53	185.87	7,398.5	-15.1	8.0	-14.9	1.16	0.88	30.88
7,425.0	1.57	189.37	7,423.5	-15.7	7.9	-15.5	0.41	0.16	14.00
7,450.0	1.73	195.10	7,448.5	-16.4	7.7	-16.2	0.92	0.64	22.92
7,475.0	1.92	200.85	7,473.5	-17.2	7.5	-17.0	1.05	0.76	23.00
7,500.0	1.97	205.17	7,498.5	-18.0	7.2	-17.8	0.62	0.20	17.28
7,525.0	1.85	209.95	7,523.5	-18.7	6.8	-18.5	0.80	-0.48	19.12
7,550.0	1.79	229.25	7,548.4	-19.3	6.3	-19.2	2.45	-0.24	77.20
7,575.0	1.68	240.71	7,573.4	-19.8	5.7	-19.6	1.45	-0.44	45.84
7,600.0	1.68	248.41	7,598.4	-20.1	5.0	-19.9	0.90	0.00	30.80
7,625.0	1.90	249.26	7,623.4	-20.3	4.3	-20.2	0.89	0.88	3.40
7,650.0	1.85	255.70	7,648.4	-20.6	3.5	-20.5	0.87	-0.20	25.76
7,675.0	1.89	256.78	7,673.4	-20.8	2.7	-20.7	0.21	0.16	4.32
7,700.0	1.89	256.18	7,698.4	-21.0	1.9	-20.9	0.08	0.00	-2.40
7,725.0	1.87	261.30	7,723.4	-21.1	1.1	-21.1	0.68	-0.08	20.48
7,750.0	1.79	270.12	7,748.3	-21.2	0.3	-21.2	1.17	-0.32	35.28
7,775.0	1.69	279.42	7,773.3	-21.1	-0.4	-21.1	1.20	-0.40	37.20
7,800.0	1.81	280.44	7,798.3	-21.0	-1.2	-21.0	0.50	0.48	4.08
7,825.0	1.73	279.53	7,823.3	-20.9	-2.0	-20.9	0.34	-0.32	-3.64
7,850.0	1.80	277.23	7,848.3	-20.8	-2.7	-20.8	0.40	0.28	-9.20
7,875.0	1.78	275.29	7,873.3	-20.7	-3.5	-20.8	0.26	-0.08	-7.76

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #34H
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 #34H	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)
7,900.0	1.76	274.16	7,898.3	-20.6	-4.3	-20.7	0.16	-0.08	-4.52
7,925.0	1.82	272.55	7,923.3	-20.6	-5.0	-20.7	0.31	0.24	-6.44
7,950.0	1.79	268.72	7,948.2	-20.6	-5.8	-20.7	0.50	-0.12	-15.32
7,975.0	1.68	266.89	7,973.2	-20.6	-6.6	-20.8	0.49	-0.44	-7.32
8,000.0	1.56	267.32	7,998.2	-20.6	-7.3	-20.8	0.48	-0.48	1.72
8,025.0	1.38	273.30	8,023.2	-20.6	-7.9	-20.8	0.95	-0.72	23.92
8,050.0	1.10	284.19	8,048.2	-20.5	-8.5	-20.8	1.46	-1.12	43.56
8,075.0	1.01	286.51	8,073.2	-20.4	-8.9	-20.7	0.40	-0.36	9.28
8,100.0	1.04	294.16	8,098.2	-20.3	-9.3	-20.5	0.56	0.12	30.60
8,125.0	1.00	293.82	8,123.2	-20.1	-9.7	-20.3	0.16	-0.16	-1.36
8,150.0	1.01	302.29	8,148.2	-19.9	-10.1	-20.1	0.60	0.04	33.88
8,175.0	1.13	291.20	8,173.2	-19.7	-10.5	-19.9	0.96	0.48	-44.36
8,200.0	1.16	292.27	8,198.2	-19.5	-11.0	-19.8	0.15	0.12	4.28
8,225.0	0.98	286.87	8,223.2	-19.3	-11.4	-19.6	0.82	-0.72	-21.60
8,250.0	1.05	288.07	8,248.2	-19.2	-11.9	-19.5	0.29	0.28	4.80
8,275.0	1.06	287.24	8,273.2	-19.1	-12.3	-19.4	0.07	0.04	-3.32
8,300.0	0.98	283.05	8,298.2	-18.9	-12.7	-19.3	0.44	-0.32	-16.76
8,325.0	0.98	276.21	8,323.2	-18.9	-13.2	-19.2	0.47	0.00	-27.36
8,350.0	1.00	269.59	8,348.2	-18.9	-13.6	-19.2	0.46	0.08	-26.48
8,375.0	1.00	259.22	8,373.2	-18.9	-14.0	-19.3	0.72	0.00	-41.48
8,400.0	1.15	248.15	8,398.2	-19.0	-14.5	-19.4	1.02	0.60	-44.28
8,425.0	1.18	241.18	8,423.1	-19.2	-14.9	-19.6	0.58	0.12	-27.88
8,450.0	1.31	237.85	8,448.1	-19.5	-15.4	-19.9	0.59	0.52	-13.32
8,475.0	1.38	238.80	8,473.1	-19.8	-15.9	-20.2	0.29	0.28	3.80
8,500.0	1.53	233.57	8,498.1	-20.2	-16.4	-20.6	0.80	0.60	-20.92
8,525.0	1.55	228.68	8,523.1	-20.6	-16.9	-21.0	0.53	0.08	-19.56
8,550.0	1.59	230.22	8,548.1	-21.1	-17.5	-21.5	0.23	0.16	6.16
8,575.0	1.13	223.01	8,573.1	-21.5	-17.9	-21.9	1.96	-1.84	-28.84
8,600.0	1.44	222.93	8,598.1	-21.9	-18.3	-22.3	1.24	1.24	-0.32
8,625.0	1.46	222.00	8,623.1	-22.3	-18.7	-22.8	0.12	0.08	-3.72
8,650.0	1.44	217.63	8,648.1	-22.8	-19.1	-23.3	0.45	-0.08	-17.48
8,675.0	1.76	218.50	8,673.1	-23.4	-19.5	-23.9	1.28	1.28	3.48
8,694.0	1.62	217.58	8,692.1	-23.8	-19.9	-24.3	0.75	-0.74	-4.84
8,716.0	1.76	210.37	8,714.1	-24.3	-20.2	-24.9	1.16	0.64	-32.77
First Phoenix MWD Survey									
8,731.0	1.79	209.02	8,729.0	-24.7	-20.5	-25.3	0.34	0.20	-9.00
8,762.0	0.36	175.50	8,760.0	-25.3	-20.7	-25.8	4.85	-4.61	-108.13
8,794.0	3.55	41.00	8,792.0	-24.6	-20.0	-25.1	11.91	9.97	-420.31
8,825.0	7.18	39.59	8,822.9	-22.4	-18.2	-22.9	11.72	11.71	-4.55
8,856.0	11.33	37.22	8,853.5	-18.5	-15.1	-18.9	13.44	13.39	-7.65
8,888.0	15.13	33.24	8,884.6	-12.5	-10.9	-12.8	12.20	11.88	-12.44
8,919.0	19.04	28.03	8,914.2	-4.6	-6.3	-4.8	13.53	12.61	-16.81
8,951.0	23.46	26.10	8,944.1	5.7	-1.1	5.7	13.98	13.81	-6.03

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #34H
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 #34H	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)	
8,982.0	27.31	26.02	8,972.1	17.6	4.8	17.8	12.42	12.42	-0.26	
9,014.0	29.91	24.61	9,000.2	31.5	11.3	31.8	8.39	8.13	-4.41	
9,045.0	31.29	24.39	9,026.8	45.8	17.9	46.3	4.47	4.45	-0.71	
9,076.0	32.92	24.52	9,053.1	60.8	24.7	61.5	5.26	5.26	0.42	
9,108.0	36.04	24.63	9,079.5	77.3	32.2	78.1	9.75	9.75	0.34	
9,139.0	39.86	24.27	9,103.9	94.7	40.1	95.7	12.34	12.32	-1.16	
9,170.0	43.78	24.42	9,127.0	113.5	48.6	114.7	12.66	12.66	0.47	
FTP: 9170' MD										
9,171.0	43.91	24.42	9,127.7	114.1	48.9	115.4	12.66	12.66	0.43	
9,202.0	45.80	24.28	9,149.7	134.0	57.9	135.5	6.11	6.10	-0.45	
9,233.0	47.27	25.64	9,171.0	154.4	67.4	156.1	5.71	4.74	4.39	
9,264.0	48.75	26.15	9,191.8	175.2	77.5	177.1	4.93	4.77	1.65	
9,295.0	51.24	25.61	9,211.7	196.5	87.9	198.7	8.14	8.03	-1.74	
9,327.0	54.81	24.52	9,230.9	219.7	98.7	222.2	11.48	11.16	-3.41	
9,358.0	58.36	23.71	9,248.0	243.3	109.2	246.1	11.66	11.45	-2.61	
9,390.0	61.00	23.51	9,264.2	268.6	120.3	271.6	8.27	8.25	-0.63	
9,421.0	62.91	23.86	9,278.7	293.7	131.3	297.0	6.24	6.16	1.13	
9,452.0	65.29	23.52	9,292.3	319.2	142.5	322.8	7.74	7.68	-1.10	
9,484.0	68.16	23.82	9,304.9	346.1	154.3	350.0	9.01	8.97	0.94	
9,515.0	70.44	23.62	9,315.9	372.7	166.0	376.8	7.38	7.35	-0.65	
9,546.0	73.00	23.67	9,325.6	399.6	177.8	404.1	8.26	8.26	0.16	
9,578.0	76.02	24.25	9,334.1	427.8	190.3	432.6	9.60	9.44	1.81	
9,609.0	77.88	24.39	9,341.1	455.3	202.7	460.4	6.02	6.00	0.45	
9,640.0	80.07	23.46	9,347.1	483.1	215.1	488.5	7.65	7.06	-3.00	
9,672.0	84.05	22.98	9,351.5	512.3	227.6	518.0	12.53	12.44	-1.50	
9,735.0	87.87	22.27	9,355.9	570.3	251.7	576.6	6.17	6.06	-1.13	
9,766.0	87.62	21.34	9,357.1	599.0	263.2	605.6	3.10	-0.81	-3.00	
9,800.0	88.41	18.47	9,358.3	631.0	274.8	637.9	8.75	2.32	-8.44	
9,847.0	89.27	17.16	9,359.3	675.7	289.2	683.0	3.33	1.83	-2.79	
9,894.0	90.18	15.43	9,359.5	720.8	302.4	728.4	4.16	1.94	-3.68	
9,941.0	90.41	12.71	9,359.3	766.4	313.8	774.3	5.81	0.49	-5.79	
9,989.0	89.14	9.41	9,359.4	813.5	323.0	821.6	7.37	-2.65	-6.88	
10,036.0	89.45	7.57	9,360.0	860.0	329.9	868.2	3.97	0.66	-3.91	
10,083.0	89.31	7.47	9,360.5	906.6	336.1	915.0	0.37	-0.30	-0.21	
10,130.0	89.42	5.25	9,361.1	953.3	341.3	961.8	4.73	0.23	-4.72	
10,177.0	89.92	3.18	9,361.3	1,000.1	344.7	1,008.7	4.53	1.06	-4.40	
10,271.0	89.98	359.28	9,361.4	1,094.1	346.8	1,102.7	4.15	0.06	-4.15	
10,365.0	90.15	358.80	9,361.3	1,188.1	345.2	1,196.6	0.54	0.18	-0.51	
10,460.0	90.55	359.41	9,360.7	1,283.1	343.7	1,291.5	0.77	0.42	0.64	
10,554.0	88.41	357.99	9,361.6	1,377.0	341.6	1,385.4	2.73	-2.28	-1.51	
10,647.0	89.30	0.04	9,363.4	1,470.0	340.0	1,478.3	2.40	0.96	2.20	
10,740.0	90.25	359.52	9,363.8	1,563.0	339.6	1,571.3	1.16	1.02	-0.56	
10,834.0	89.61	359.50	9,363.9	1,657.0	338.8	1,665.2	0.68	-0.68	-0.02	
10,929.0	90.98	358.96	9,363.4	1,752.0	337.5	1,760.1	1.55	1.44	-0.57	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #34H
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 #34H	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)
11,023.0	90.39	358.36	9,362.3	1,845.9	335.3	1,854.0	0.90	-0.63	-0.64
11,114.0	88.70	357.49	9,363.0	1,936.9	332.0	1,944.8	2.09	-1.86	-0.96
11,206.0	89.99	0.48	9,364.1	2,028.8	330.4	2,036.7	3.54	1.40	3.25
11,297.0	90.25	1.06	9,363.9	2,119.8	331.6	2,127.7	0.70	0.29	0.64
11,388.0	90.58	1.29	9,363.2	2,210.8	333.5	2,218.7	0.44	0.36	0.25
11,481.0	90.72	1.66	9,362.2	2,303.8	335.9	2,311.7	0.43	0.15	0.40
11,572.0	90.61	2.02	9,361.1	2,394.7	338.8	2,402.7	0.41	-0.12	0.40
11,663.0	90.15	2.30	9,360.5	2,485.7	342.2	2,493.7	0.59	-0.51	0.31
11,753.0	88.34	0.05	9,361.7	2,575.6	344.1	2,583.7	3.21	-2.01	-2.50
11,844.0	88.53	0.31	9,364.2	2,666.6	344.4	2,674.6	0.35	0.21	0.29
11,935.0	90.84	1.96	9,364.7	2,757.6	346.2	2,765.6	3.12	2.54	1.81
12,029.0	91.18	0.23	9,363.0	2,851.5	348.0	2,859.6	1.88	0.36	-1.84
12,122.0	90.45	0.27	9,361.7	2,944.5	348.4	2,952.5	0.79	-0.78	0.04
12,218.0	90.13	359.36	9,361.2	3,040.5	348.1	3,048.5	1.00	-0.33	-0.95
12,312.0	90.42	359.82	9,360.8	3,134.5	347.4	3,142.4	0.58	0.31	0.49
12,406.0	88.96	358.93	9,361.3	3,228.5	346.4	3,236.4	1.82	-1.55	-0.95
12,501.0	88.84	358.94	9,363.1	3,323.5	344.6	3,331.3	0.13	-0.13	0.01
12,596.0	88.07	357.01	9,365.7	3,418.4	341.3	3,426.1	2.19	-0.81	-2.03
12,691.0	87.90	356.48	9,369.0	3,513.1	335.9	3,520.7	0.59	-0.18	-0.56
12,785.0	88.13	357.11	9,372.3	3,606.9	330.6	3,614.3	0.71	0.24	0.67
12,880.0	87.30	357.02	9,376.0	3,701.7	325.8	3,708.9	0.88	-0.87	-0.09
12,975.0	90.35	357.47	9,378.0	3,796.6	321.2	3,803.6	3.25	3.21	0.47
13,068.0	93.14	358.78	9,375.2	3,889.5	318.1	3,896.4	3.31	3.00	1.41
13,162.0	91.92	358.23	9,371.0	3,983.4	315.7	3,990.2	1.42	-1.30	-0.59
13,256.0	90.18	358.43	9,369.3	4,077.3	313.0	4,084.0	1.86	-1.85	0.21
13,351.0	87.22	357.23	9,371.4	4,172.2	309.4	4,178.8	3.36	-3.12	-1.26
13,445.0	89.64	358.62	9,374.0	4,266.1	306.0	4,272.6	2.97	2.57	1.48
13,540.0	89.87	358.15	9,374.4	4,361.1	303.3	4,367.5	0.55	0.24	-0.49
13,635.0	89.67	357.63	9,374.8	4,456.0	299.8	4,462.3	0.59	-0.21	-0.55
13,728.0	91.39	0.82	9,373.9	4,549.0	298.5	4,555.2	3.90	1.85	3.43
13,828.0	91.49	0.57	9,371.4	4,648.9	299.7	4,655.1	0.27	0.10	-0.25
13,923.0	91.33	0.45	9,369.1	4,743.9	300.6	4,750.1	0.21	-0.17	-0.13
14,017.0	91.49	0.72	9,366.8	4,837.9	301.5	4,844.1	0.33	0.17	0.29
14,111.0	91.33	1.12	9,364.5	4,931.8	303.1	4,938.0	0.46	-0.17	0.43
14,206.0	91.42	1.05	9,362.2	5,026.8	304.9	5,033.0	0.12	0.09	-0.07
14,301.0	91.26	0.58	9,360.0	5,121.7	306.2	5,128.0	0.52	-0.17	-0.49
14,395.0	91.16	359.99	9,358.0	5,215.7	306.7	5,221.9	0.64	-0.11	-0.63
14,489.0	89.30	358.88	9,357.6	5,309.7	305.7	5,315.8	2.30	-1.98	-1.18
14,582.0	89.56	359.37	9,358.5	5,402.7	304.3	5,408.8	0.60	0.28	0.53
14,676.0	87.62	358.32	9,360.8	5,496.6	302.4	5,502.6	2.35	-2.06	-1.12
14,770.0	88.25	359.31	9,364.2	5,590.6	300.5	5,596.5	1.25	0.67	1.05
14,864.0	89.07	2.81	9,366.4	5,684.5	302.2	5,690.4	3.82	0.87	3.72
14,958.0	89.44	3.35	9,367.7	5,778.4	307.3	5,784.4	0.70	0.39	0.57

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #34H
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 #34H	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)
15,052.0	86.31	358.16	9,371.1	5,872.2	308.5	5,878.3	6.44	-3.33	-5.52
15,147.0	87.30	358.82	9,376.4	5,967.1	306.0	5,973.0	1.25	1.04	0.69
15,241.0	87.60	358.51	9,380.6	6,060.9	303.8	6,066.8	0.46	0.32	-0.33
15,336.0	90.21	359.90	9,382.4	6,155.9	302.5	6,161.7	3.11	2.75	1.46
15,431.0	90.75	0.20	9,381.6	6,250.9	302.6	6,256.6	0.65	0.57	0.32
15,526.0	90.12	359.89	9,380.9	6,345.9	302.7	6,351.6	0.74	-0.66	-0.33
15,620.0	90.92	0.83	9,380.1	6,439.9	303.3	6,445.6	1.31	0.85	1.00
15,714.0	88.44	0.20	9,380.6	6,533.9	304.1	6,539.6	2.72	-2.64	-0.67
15,809.0	86.83	0.05	9,384.5	6,628.8	304.3	6,634.4	1.70	-1.69	-0.16
15,904.0	89.13	0.13	9,387.9	6,723.7	304.5	6,729.4	2.42	2.42	0.08
15,998.0	90.33	0.28	9,388.3	6,817.7	304.8	6,823.3	1.29	1.28	0.16
16,092.0	89.65	359.59	9,388.3	6,911.7	304.7	6,917.3	1.03	-0.72	-0.73
16,187.0	90.01	359.38	9,388.6	7,006.7	303.8	7,012.2	0.44	0.38	-0.22
16,281.0	91.44	2.78	9,387.4	7,100.7	305.6	7,106.2	3.92	1.52	3.62
16,375.0	88.88	359.22	9,387.1	7,194.6	307.2	7,200.2	4.66	-2.72	-3.79
16,468.0	89.19	359.45	9,388.7	7,287.6	306.2	7,293.1	0.42	0.33	0.25
16,563.0	88.65	359.31	9,390.5	7,382.6	305.1	7,388.0	0.59	-0.57	-0.15
16,657.0	88.79	359.80	9,392.6	7,476.6	304.4	7,481.9	0.54	0.15	0.52
16,752.0	91.06	1.02	9,392.7	7,571.6	305.1	7,576.9	2.71	2.39	1.28
16,846.0	89.51	359.12	9,392.3	7,665.5	305.2	7,670.9	2.61	-1.65	-2.02
16,940.0	89.58	358.77	9,393.0	7,759.5	303.5	7,764.8	0.38	0.07	-0.37
17,035.0	86.71	357.84	9,396.1	7,854.4	300.7	7,859.6	3.18	-3.02	-0.98
17,129.0	85.46	357.50	9,402.5	7,948.1	296.9	7,953.1	1.38	-1.33	-0.36
17,224.0	87.57	357.12	9,408.3	8,042.8	292.4	8,047.7	2.26	2.22	-0.40
17,318.0	86.88	355.86	9,412.8	8,136.6	286.7	8,141.2	1.53	-0.73	-1.34
17,412.0	88.65	355.82	9,416.5	8,230.2	279.8	8,234.7	1.88	1.88	-0.04
17,507.0	89.76	356.55	9,417.8	8,325.0	273.5	8,329.3	1.40	1.17	0.77
17,601.0	90.99	359.49	9,417.2	8,418.9	270.3	8,423.1	3.39	1.31	3.13
17,696.0	89.85	359.56	9,416.5	8,513.9	269.5	8,518.1	1.20	-1.20	0.07
17,790.0	88.17	359.12	9,418.1	8,607.9	268.4	8,612.0	1.85	-1.79	-0.47
17,884.0	91.10	0.42	9,418.7	8,701.9	268.0	8,705.9	3.41	3.12	1.38
17,978.0	89.85	359.87	9,417.9	8,795.9	268.3	8,799.9	1.45	-1.33	-0.59
18,072.0	93.85	1.15	9,414.9	8,889.8	269.1	8,893.8	4.47	4.26	1.36
18,167.0	91.83	0.48	9,410.2	8,984.7	270.5	8,988.7	2.24	-2.13	-0.71
18,261.0	90.45	0.35	9,408.3	9,078.7	271.1	9,082.6	1.47	-1.47	-0.14
18,355.0	88.45	0.05	9,409.2	9,172.6	271.5	9,176.6	2.15	-2.13	-0.32
18,450.0	89.59	0.56	9,410.9	9,267.6	272.0	9,271.6	1.31	1.20	0.54
18,545.0	90.18	1.32	9,411.0	9,362.6	273.5	9,366.6	1.01	0.62	0.80
18,639.0	91.22	2.13	9,409.9	9,456.6	276.4	9,460.5	1.40	1.11	0.86
18,732.0	91.01	2.64	9,408.1	9,549.5	280.2	9,553.5	0.59	-0.23	0.55
18,826.0	90.18	0.81	9,407.1	9,643.4	283.1	9,647.5	2.14	-0.88	-1.95
18,921.0	87.54	358.25	9,409.0	9,738.4	282.3	9,742.4	3.87	-2.78	-2.69
19,015.0	87.76	357.98	9,412.9	9,832.2	279.2	9,836.2	0.37	0.23	-0.29
19,108.0	89.25	358.90	9,415.3	9,925.2	276.7	9,929.0	1.88	1.60	0.99

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #34H
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 #34H	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)
19,202.0	88.10	358.51	9,417.5	10,019.1	274.5	10,022.9	1.29	-1.22	-0.41
19,260.8	88.96	358.96	9,419.0	10,077.9	273.2	10,081.6	1.65	1.46	0.77
LTP: 19261' MD									
19,296.0	89.47	359.23	9,419.4	10,113.1	272.7	10,116.8	1.65	1.46	0.77
19,329.0	88.99	359.04	9,419.9	10,146.1	272.2	10,149.7	1.56	-1.45	-0.58
Final Phoenix MWD Survey									
19,390.0	88.99	359.04	9,421.0	10,207.1	271.2	10,210.7	0.00	0.00	0.00
Projection to TD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,716.0	8,714.1	-24.3	-20.2	First Phoenix MWD Survey
9,170.0	9,127.0	113.5	48.6	FTP: 9170' MD
19,260.8	9,419.0	10,077.9	273.2	LTP: 19261' MD
19,329.0	9,419.9	10,146.1	272.2	Final Phoenix MWD Survey
19,390.0	9,421.0	10,207.1	271.2	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

Submit To Appropriate District Office Two Copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		RECEIVED State of New Mexico Energy, Minerals and Natural Resources JAN 07 2020 Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 EMNRD-000ARTESIA				Form C-105 Revised April 3, 2017				
		1. WELL API NO.		30-015-45376						
		2. Type of Lease		☒ STATE ☐ FEE ☐ FED/INDIAN						
		3. State Oil & Gas Lease No.								
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)				5. Lease Name or Unit Agreement Name Myox 21 State Com						
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER				6. Well Number: 34H						
8. Name of Operator COG Operating LLC				9. OGRID 229137						
10. Address of Operator 2208 W. Main Street Artesia, NM 88210				11. Pool name or Wildcat Purple Sage; Wolfcamp						
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	N	21	25S	28E		220	South	1709	West	Eddy
BH:	C	16	25S	28E		201	North	2070	West	Eddy
13. Date Spudded 3/14/19	14. Date T.D. Reached 6/26/19		15. Date Rig Released 6/28/19		16. Date Completed (Ready to Produce) 10/29/19		17. Elevations (DF and RKB, RT, GR, etc.) 2977' GR			
18. Total Measured Depth of Well 19,390'			19. Plug Back Measured Depth 19,296'		20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run None			
22. Producing Interval(s), of this completion - Top, Bottom, Name 9,546-19,285' Wolfcamp										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13 3/8"		54.5#		616'		17 1/2"		670 sx		
9 5/8"		40 #		8710'		12 1/4"		2025 sx		
5 1/2"		20#		19376'		8 3/4"		4450 sx		
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	25. TUBING RECORD					
					SIZE	DEPTH SET	PACKER SET			
					2 7/8"	8735'	8725'			
26. Perforation record (interval, size, and number) 9,546 – 19,285' (1568)					27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 9,546-19,285' Acdz w/38,388 gal 7 1/2%; Frac with 19,603,970# sand & 19,070,222 gal fluid					
28. PRODUCTION										
Date First Production 11/16/19		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Producing				
Date of Test 11/16/19	Hours Tested 24	Choke Size 23/64"	Prod'n For Test Period 24 Hrs	Oil - Bbl 402	Gas - MCF 1161	Water - Bbl. 5296	Gas - Oil Ratio			
Flow Tubing Press. 1600#	Casing Pressure 1096#	Calculated 24-Hour Rate	Oil - Bbl. 402	Gas - MCF 1161	Water - Bbl. 5296	Oil Gravity - API - (Corr.)				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold					30. Test Witnessed By Charlie Hoff					
31. List Attachments Surveys										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.					33. Rig Release Date: 6/28/19					
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude					Longitude			NAD83		
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature <i>Amanda Avery</i>			Printed Name: Amanda Avery			Title Regulatory Analyst			Date 1/6/2020	
E-mail Address: aavery@concho.com										

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico			Northwestern New Mexico	
T. Rslr	T. Canyon		T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn		T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka		T. Fruitland	T. Penn. "C"
T. Yates	T. Miss		T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian		T. Cliff House	T. Leadville
T. Queen	T. Silurian		T. Menefée	T. Madison
T. Grayburg	T. Montoya		T. Point Lookout	T. Elbert
T. San Andres	T. Rustler		T. Mancos	T. McCracken
T. Glorieta	T. Lamar	2430'	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Bell Canyon	2468'	Base Greenhorn	T. Granite
T. Blinebry	T. Cherry Canyon	3290'	T. Dakota	
T. Tubb	T. Brushy Canyon	4586'	T. Morrison	
T. Drinkard	T. Bone Spring GL	6148'	T. Todilto	
T. Abo	T. 1 st Bone Spring	7067'	T. Entrada	
T. Wolfcamp	T. 2 nd Bone Spring- Sand		T. Wingate	
T. Penn	T. 2nd Bone Spring	7783'	T. Chinle	
T. Cisco (Bough C)	T. 3 rd Bone Spring	8860'	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....

No. 3, from.....to.....

No. 2, from.....to.....

No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology