

**NM OIL CONSERVATION
ARTESIA DISTRICT**

Submit 1 Copy To Appropriate District Office
District I
 1625 N. French Dr., Hobbs, NM 88240
District II
 1301 W. Grand Ave., 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 and Natural Resources**

FEB 06 2019

**Form C-103
October 13, 2009**

**OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505**

WELL API NO. RECEIVED 30-015-44003	
5. Indicate Type of Lease STATE ☐ FEE ☒	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Myox 21 State Com	
8. Well Number 33H	
9. OGRID Number 229137	
10. Pool name or Wildcat Purple Sage; Wolfcamp	

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator COG Operating LLC	
3. Address of Operator 2208 W. Main Street, Artesia, NM 88210	
4. Well Location Unit Letter <u>M</u> : <u>215</u> feet from the <u>South</u> line and <u>820</u> feet from the <u>West</u> line Section <u>21</u> Township <u>25S</u> Range <u>28E</u> NMPM Eddy County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 2990.7'	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐ DOWNHOLE COMMINGLE ☐ OTHER: ☒ SHL Change	SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS. ☐ P AND A ☐ CASING/CEMENT JOB ☐ OTHER: ☐
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13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

COG Operating LLC respectfully requests approval for the following changes to the original approved APD.

SHL:
 From: 190' FSL & 820' FWL Section 21. T25S. R28E UL M
 To: 215' FSL & 820' FWL Section 21. T25S. R28E. UL M
 C102 attached.

Directional Plan Attached.

Spud Date: Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Mayte Reyes TITLE: Senior Regulatory Analyst DATE: 2/5/2019
 Type or print name: Mayte Reyes E-mail address: mreyes1@conchoresources.com PHONE: (575) 748-6945
For State Use Only

APPROVED BY: Raymond M. Rodary TITLE Geologist DATE 2-7-19
 Conditions of Approval (if any):

640 ✓

FEB 06 2019

RECEIVED

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

DISTRICT I

1632 N. FRENCH DR., BOHNS, NM 88440
Phone: (505) 823-6181 Fax: (505) 823-9780

DISTRICT II

511 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 742-1225 Fax: (505) 742-9720

DISTRICT III

1090 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 534-6178 Fax: (505) 534-6170

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87508
Phone: (505) 476-0460 Fax: (505) 476-0462

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-44003	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 2990.7

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	21	25-S	28-E		215	SOUTH	820	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
D	16	25-S	28-E		200	NORTH	990	WEST	EDDY
Dedicated Acres 640		Joint or Infill 640		Consolidation Code		Order No.			

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

STATE Y=413783.5 N X=613255.2 E LIP 330' FSL & 990' FWL Y=413458.8 N X=614248.2 E LAT.=32.136452° N LONG.=104.097779° W GRID AZ. - 359°29'47" HORZ. DIST. - 10101.6' SECTION 16 SECTION 21 FEE NAD 83 NME PROPOSED BOTTOM HOLE LOCATION Y=413586.8 N X=614247.0 E LAT.=32.136810° N LONG.=104.097782° W NAD 83 NME SURFACE LOCATION Y=403369.1 N X=614166.9 E LAT.=32.108723° N LONG.=104.098113° W Y=403146.8 N X=613348.7 E Y=403158.6 N X=614666.1 E GRID AZ. TO LIP 55°24'28"	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. Signature <u>Mayte Reyes</u> Date <u>1-30-19</u> Printed Name <u>Mayte Reyes</u> E-mail Address <u>mreyes1@concho.com</u> 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. JANUARY 8, 2019 Date of Survey Signature & Seal of Professional Surveyor CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR 1/24/19 Certificate No. CHAD HARCROW 17777 W.O. 19-60 DRAWN BY: WN
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Rev 2-7-19



CONCHO

Concho Resources, Inc.

Eddy County (NAD27 NME)
(Myox 21 State Com) Sec-21_T-25-S_R28-E
Myox 21 State Com #33H
API# 30-015-44003
OWB

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 06 2019

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Plan: Plan #1

Standard Planning Report

05 February, 2019

INTREPID



Intrepid
Planning Report



Database: EDM 5000.15 Single User Db
Company: Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
Site: (Myox 21 State Com) Sec-21_T-25-S_R28-E
Well: Myox 21 State Com #33H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Myox 21 State Com #33H
TVD Reference: KB @ 3020.6usft
MD Reference: KB @ 3020.6usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Eddy County (NAD27 NME)		
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	(Myox 21 State Com) Sec-21_T-25-S_R28-E			
Site Position:		Northing:	403,784.88 usft	Latitude: 32° 6' 35.644 N
From: Map		Easting:	573,058.41 usft	Longitude: 104° 5' 50.552 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.13 °

Well	Myox 21 State Com #33H			
Well Position	+N/-S	-473.5 usft	Northing:	403,311.40 usft
	+E/-W	-75.6 usft	Easting:	572,982.80 usft
Position Uncertainty		0.0 usft	Wellhead Elevation:	Latitude: 32° 6' 30.960 N
				Longitude: 104° 5' 51.443 W
				Ground Level: 2,989.6 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	02/05/19	7.01	59.85	47,648.72273722

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	0.45

Plan Survey Tool Program	Date 02/05/19			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	9,954.8 Plan #1 (OWB)	MWD	
			OWSG MWD - Standard	
2	9,954.8	19,737.0 Plan #1 (OWB)	MWD+IFR1+MS	
			MWD + IFR1 + Multi-Station	



Intrepid
Planning Report



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MD Reference: KB @ 3020.6usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,650.0	3.00	133.65	3,649.9	-2.7	2.8	2.00	2.00	0.00	133.65	
7,150.0	3.00	133.65	7,145.1	-129.1	135.4	0.00	0.00	0.00	0.00	
7,450.0	0.00	0.00	7,445.0	-134.6	141.1	1.00	-1.00	0.00	180.00	
9,057.0	0.00	0.00	9,052.0	-134.6	141.1	0.00	0.00	0.00	0.00	
9,954.8	89.78	2.15	9,625.0	435.8	162.5	10.00	10.00	0.00	2.15	
10,087.3	89.78	359.50	9,625.5	568.2	164.4	2.00	0.00	-2.00	-89.94	
19,737.0	89.78	359.50	9,662.0	10,217.5	80.3	0.00	0.00	0.00	0.00	PBHL (Myox 21 Sta



Intrepid
Planning Report



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Local Co-ordinate Reference: Well Myox 21 State Com #33H
TVD Reference: KB @ 3020.6usft
MD Reference: KB @ 3020.6usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
NUDGE - Build 2.00									
3,600.0	2.00	133.65	3,600.0	-1.2	1.3	-1.2	2.00	2.00	0.00
3,650.0	3.00	133.65	3,649.9	-2.7	2.8	-2.7	2.00	2.00	0.00
HOLD - 3500.0 at 3650.0 MD									
3,700.0	3.00	133.65	3,699.9	-4.5	4.7	-4.5	0.00	0.00	0.00
3,800.0	3.00	133.65	3,799.7	-8.1	8.5	-8.1	0.00	0.00	0.00
3,900.0	3.00	133.65	3,899.6	-11.7	12.3	-11.6	0.00	0.00	0.00
4,000.0	3.00	133.65	3,999.5	-15.4	16.1	-15.2	0.00	0.00	0.00
4,100.0	3.00	133.65	4,099.3	-19.0	19.9	-18.8	0.00	0.00	0.00
4,200.0	3.00	133.65	4,199.2	-22.6	23.7	-22.4	0.00	0.00	0.00
4,300.0	3.00	133.65	4,299.0	-26.2	27.5	-26.0	0.00	0.00	0.00
4,400.0	3.00	133.65	4,398.9	-29.8	31.2	-29.6	0.00	0.00	0.00
4,500.0	3.00	133.65	4,498.8	-33.4	35.0	-33.1	0.00	0.00	0.00
4,600.0	3.00	133.65	4,598.6	-37.0	38.8	-36.7	0.00	0.00	0.00
4,700.0	3.00	133.65	4,698.5	-40.6	42.6	-40.3	0.00	0.00	0.00
4,800.0	3.00	133.65	4,798.4	-44.3	46.4	-43.9	0.00	0.00	0.00
4,900.0	3.00	133.65	4,898.2	-47.9	50.2	-47.5	0.00	0.00	0.00
5,000.0	3.00	133.65	4,998.1	-51.5	54.0	-51.1	0.00	0.00	0.00

Database: EDM 5000.15 Single User Db
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Site: (Myox 21 State Com) Sec-21_T-25-S_R28-E
Well: Myox 21 State Com #33H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Myox 21 State Com #33H
TVD Reference: KB @ 3020.6usft
MD Reference: KB @ 3020.6usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	3.00	133.65	5,097.9	-55.1	57.7	-54.6	0.00	0.00	0.00
5,200.0	3.00	133.65	5,197.8	-58.7	61.5	-58.2	0.00	0.00	0.00
5,300.0	3.00	133.65	5,297.7	-62.3	65.3	-61.8	0.00	0.00	0.00
5,400.0	3.00	133.65	5,397.5	-65.9	69.1	-65.4	0.00	0.00	0.00
5,500.0	3.00	133.65	5,497.4	-69.5	72.9	-69.0	0.00	0.00	0.00
5,600.0	3.00	133.65	5,597.3	-73.2	76.7	-72.6	0.00	0.00	0.00
5,700.0	3.00	133.65	5,697.1	-76.8	80.5	-76.1	0.00	0.00	0.00
5,800.0	3.00	133.65	5,797.0	-80.4	84.3	-79.7	0.00	0.00	0.00
5,900.0	3.00	133.65	5,896.8	-84.0	88.0	-83.3	0.00	0.00	0.00
6,000.0	3.00	133.65	5,996.7	-87.6	91.8	-86.9	0.00	0.00	0.00
6,100.0	3.00	133.65	6,096.6	-91.2	95.6	-90.5	0.00	0.00	0.00
6,200.0	3.00	133.65	6,196.4	-94.8	99.4	-94.0	0.00	0.00	0.00
6,300.0	3.00	133.65	6,296.3	-98.4	103.2	-97.6	0.00	0.00	0.00
6,400.0	3.00	133.65	6,396.2	-102.1	107.0	-101.2	0.00	0.00	0.00
6,500.0	3.00	133.65	6,496.0	-105.7	110.8	-104.8	0.00	0.00	0.00
6,600.0	3.00	133.65	6,595.9	-109.3	114.6	-108.4	0.00	0.00	0.00
6,700.0	3.00	133.65	6,695.8	-112.9	118.3	-112.0	0.00	0.00	0.00
6,800.0	3.00	133.65	6,795.6	-116.5	122.1	-115.5	0.00	0.00	0.00
6,900.0	3.00	133.65	6,895.5	-120.1	125.9	-119.1	0.00	0.00	0.00
7,000.0	3.00	133.65	6,995.3	-123.7	129.7	-122.7	0.00	0.00	0.00
7,100.0	3.00	133.65	7,095.2	-127.3	133.5	-126.3	0.00	0.00	0.00
7,150.0	3.00	133.65	7,145.1	-129.1	135.4	-128.1	0.00	0.00	0.00
DROP - -1.00									
7,200.0	2.50	133.65	7,195.1	-130.8	137.1	-129.7	1.00	-1.00	0.00
7,300.0	1.50	133.65	7,295.0	-133.2	139.6	-132.1	1.00	-1.00	0.00
7,400.0	0.50	133.65	7,395.0	-134.4	140.9	-133.3	1.00	-1.00	0.00
7,450.0	0.00	0.00	7,445.0	-134.6	141.1	-133.5	1.00	-1.00	0.00
HOLD - 1607.0 at 7450.0 MD									
7,500.0	0.00	0.00	7,495.0	-134.6	141.1	-133.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,595.0	-134.6	141.1	-133.5	0.00	0.00	0.00
7,700.0	0.00	0.00	7,695.0	-134.6	141.1	-133.5	0.00	0.00	0.00
7,800.0	0.00	0.00	7,795.0	-134.6	141.1	-133.5	0.00	0.00	0.00
7,900.0	0.00	0.00	7,895.0	-134.6	141.1	-133.5	0.00	0.00	0.00
8,000.0	0.00	0.00	7,995.0	-134.6	141.1	-133.5	0.00	0.00	0.00
8,100.0	0.00	0.00	8,095.0	-134.6	141.1	-133.5	0.00	0.00	0.00
8,200.0	0.00	0.00	8,195.0	-134.6	141.1	-133.5	0.00	0.00	0.00
8,300.0	0.00	0.00	8,295.0	-134.6	141.1	-133.5	0.00	0.00	0.00
8,400.0	0.00	0.00	8,395.0	-134.6	141.1	-133.5	0.00	0.00	0.00
8,500.0	0.00	0.00	8,495.0	-134.6	141.1	-133.5	0.00	0.00	0.00
8,600.0	0.00	0.00	8,595.0	-134.6	141.1	-133.5	0.00	0.00	0.00
8,700.0	0.00	0.00	8,695.0	-134.6	141.1	-133.5	0.00	0.00	0.00
8,800.0	0.00	0.00	8,795.0	-134.6	141.1	-133.5	0.00	0.00	0.00
8,900.0	0.00	0.00	8,895.0	-134.6	141.1	-133.5	0.00	0.00	0.00
9,000.0	0.00	0.00	8,995.0	-134.6	141.1	-133.5	0.00	0.00	0.00
9,057.0	0.00	0.00	9,052.0	-134.6	141.1	-133.5	0.00	0.00	0.00
KOP - Build 10.00									
9,100.0	4.30	2.15	9,095.0	-133.0	141.1	-131.8	10.00	10.00	0.00
9,150.0	9.30	2.15	9,144.6	-127.0	141.3	-125.9	10.00	10.00	0.00
9,200.0	14.30	2.15	9,193.5	-116.8	141.7	-115.7	10.00	10.00	0.00
9,250.0	19.30	2.15	9,241.4	-102.4	142.3	-101.3	10.00	10.00	0.00
9,300.0	24.30	2.15	9,287.8	-83.8	143.0	-82.7	10.00	10.00	0.00
9,350.0	29.30	2.15	9,332.4	-61.3	143.8	-60.2	10.00	10.00	0.00
9,400.0	34.30	2.15	9,374.9	-35.0	144.8	-33.9	10.00	10.00	0.00



Intrepid
Planning Report



Database: EDM 5000.15 Single User Db
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Site: (Myox 21 State Com) Sec-21_T-25-S_R28-E
Well: Myox 21 State Com #33H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Myox 21 State Com #33H
TVD Reference: KB @ 3020.6usft
MD Reference: KB @ 3020.6usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,450.0	39.30	2.15	9,414.9	-5.1	145.9	-3.9	10.00	10.00	0.00
9,500.0	44.30	2.15	9,452.2	28.2	147.2	29.4	10.00	10.00	0.00
9,550.0	49.30	2.15	9,486.4	64.6	148.5	65.8	10.00	10.00	0.00
9,600.0	54.30	2.15	9,517.3	103.9	150.0	105.0	10.00	10.00	0.00
9,650.0	59.30	2.15	9,544.7	145.7	151.6	146.9	10.00	10.00	0.00
9,700.0	64.30	2.15	9,568.3	189.7	153.2	190.9	10.00	10.00	0.00
9,750.0	69.30	2.15	9,588.0	235.6	155.0	236.8	10.00	10.00	0.00
9,800.0	74.30	2.15	9,603.6	283.0	156.7	284.3	10.00	10.00	0.00
9,850.0	79.30	2.15	9,615.0	331.7	158.6	332.9	10.00	10.00	0.00
9,900.0	84.30	2.15	9,622.1	381.1	160.4	382.4	10.00	10.00	0.00
9,954.8	89.78	2.15	9,625.0	435.8	162.5	437.0	10.00	10.00	0.00
EOC/TRN - DLS 2.00 TFO -89.94									
10,000.0	89.78	1.25	9,625.1	481.0	163.8	482.2	2.00	0.00	-2.00
10,087.3	89.78	359.50	9,625.5	568.2	164.4	569.5	2.00	0.00	-2.00
Start 9649.7 hold at 10087.3 MD									
10,100.0	89.78	359.50	9,625.5	581.0	164.3	582.2	0.00	0.00	0.00
10,200.0	89.78	359.50	9,625.9	681.0	163.4	682.2	0.00	0.00	0.00
10,300.0	89.78	359.50	9,626.3	780.9	162.5	782.2	0.00	0.00	0.00
10,400.0	89.78	359.50	9,626.6	880.9	161.7	882.2	0.00	0.00	0.00
10,500.0	89.78	359.50	9,627.0	980.9	160.8	982.2	0.00	0.00	0.00
10,600.0	89.78	359.50	9,627.4	1,080.9	159.9	1,082.2	0.00	0.00	0.00
10,700.0	89.78	359.50	9,627.8	1,180.9	159.0	1,182.1	0.00	0.00	0.00
10,800.0	89.78	359.50	9,628.2	1,280.9	158.2	1,282.1	0.00	0.00	0.00
10,900.0	89.78	359.50	9,628.5	1,380.9	157.3	1,382.1	0.00	0.00	0.00
11,000.0	89.78	359.50	9,628.9	1,480.9	156.4	1,482.1	0.00	0.00	0.00
11,100.0	89.78	359.50	9,629.3	1,580.9	155.6	1,582.1	0.00	0.00	0.00
11,200.0	89.78	359.50	9,629.7	1,680.9	154.7	1,682.1	0.00	0.00	0.00
11,300.0	89.78	359.50	9,630.1	1,780.9	153.8	1,782.1	0.00	0.00	0.00
11,400.0	89.78	359.50	9,630.4	1,880.9	152.9	1,882.0	0.00	0.00	0.00
11,500.0	89.78	359.50	9,630.8	1,980.9	152.1	1,982.0	0.00	0.00	0.00
11,600.0	89.78	359.50	9,631.2	2,080.9	151.2	2,082.0	0.00	0.00	0.00
11,700.0	89.78	359.50	9,631.6	2,180.9	150.3	2,182.0	0.00	0.00	0.00
11,800.0	89.78	359.50	9,631.9	2,280.9	149.5	2,282.0	0.00	0.00	0.00
11,900.0	89.78	359.50	9,632.3	2,380.9	148.6	2,382.0	0.00	0.00	0.00
12,000.0	89.78	359.50	9,632.7	2,480.9	147.7	2,482.0	0.00	0.00	0.00
12,100.0	89.78	359.50	9,633.1	2,580.9	146.8	2,581.9	0.00	0.00	0.00
12,200.0	89.78	359.50	9,633.5	2,680.9	146.0	2,681.9	0.00	0.00	0.00
12,300.0	89.78	359.50	9,633.8	2,780.9	145.1	2,781.9	0.00	0.00	0.00
12,400.0	89.78	359.50	9,634.2	2,880.9	144.2	2,881.9	0.00	0.00	0.00
12,500.0	89.78	359.50	9,634.6	2,980.8	143.4	2,981.9	0.00	0.00	0.00
12,600.0	89.78	359.50	9,635.0	3,080.8	142.5	3,081.9	0.00	0.00	0.00
12,700.0	89.78	359.50	9,635.4	3,180.8	141.6	3,181.9	0.00	0.00	0.00
12,800.0	89.78	359.50	9,635.7	3,280.8	140.7	3,281.8	0.00	0.00	0.00
12,900.0	89.78	359.50	9,636.1	3,380.8	139.9	3,381.8	0.00	0.00	0.00
13,000.0	89.78	359.50	9,636.5	3,480.8	139.0	3,481.8	0.00	0.00	0.00
13,100.0	89.78	359.50	9,636.9	3,580.8	138.1	3,581.8	0.00	0.00	0.00
13,200.0	89.78	359.50	9,637.2	3,680.8	137.3	3,681.8	0.00	0.00	0.00
13,300.0	89.78	359.50	9,637.6	3,780.8	136.4	3,781.8	0.00	0.00	0.00
13,400.0	89.78	359.50	9,638.0	3,880.8	135.5	3,881.8	0.00	0.00	0.00
13,500.0	89.78	359.50	9,638.4	3,980.8	134.6	3,981.7	0.00	0.00	0.00
13,600.0	89.78	359.50	9,638.8	4,080.8	133.8	4,081.7	0.00	0.00	0.00
13,700.0	89.78	359.50	9,639.1	4,180.8	132.9	4,181.7	0.00	0.00	0.00
13,800.0	89.78	359.50	9,639.5	4,280.8	132.0	4,281.7	0.00	0.00	0.00
13,900.0	89.78	359.50	9,639.9	4,380.8	131.2	4,381.7	0.00	0.00	0.00



Intrepid
Planning Report



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North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,000.0	89.78	359.50	9,640.3	4,480.8	130.3	4,481.7	0.00	0.00	0.00
14,100.0	89.78	359.50	9,640.7	4,580.8	129.4	4,581.7	0.00	0.00	0.00
14,200.0	89.78	359.50	9,641.0	4,680.8	128.5	4,681.6	0.00	0.00	0.00
14,300.0	89.78	359.50	9,641.4	4,780.8	127.7	4,781.6	0.00	0.00	0.00
14,400.0	89.78	359.50	9,641.8	4,880.8	126.8	4,881.6	0.00	0.00	0.00
14,500.0	89.78	359.50	9,642.2	4,980.8	125.9	4,981.6	0.00	0.00	0.00
14,600.0	89.78	359.50	9,642.5	5,080.8	125.1	5,081.6	0.00	0.00	0.00
14,700.0	89.78	359.50	9,642.9	5,180.7	124.2	5,181.6	0.00	0.00	0.00
14,800.0	89.78	359.50	9,643.3	5,280.7	123.3	5,281.6	0.00	0.00	0.00
14,900.0	89.78	359.50	9,643.7	5,380.7	122.4	5,381.5	0.00	0.00	0.00
15,000.0	89.78	359.50	9,644.1	5,480.7	121.6	5,481.5	0.00	0.00	0.00
15,100.0	89.78	359.50	9,644.4	5,580.7	120.7	5,581.5	0.00	0.00	0.00
15,200.0	89.78	359.50	9,644.8	5,680.7	119.8	5,681.5	0.00	0.00	0.00
15,300.0	89.78	359.50	9,645.2	5,780.7	119.0	5,781.5	0.00	0.00	0.00
15,400.0	89.78	359.50	9,645.6	5,880.7	118.1	5,881.5	0.00	0.00	0.00
15,500.0	89.78	359.50	9,646.0	5,980.7	117.2	5,981.4	0.00	0.00	0.00
15,600.0	89.78	359.50	9,646.3	6,080.7	116.3	6,081.4	0.00	0.00	0.00
15,700.0	89.78	359.50	9,646.7	6,180.7	115.5	6,181.4	0.00	0.00	0.00
15,800.0	89.78	359.50	9,647.1	6,280.7	114.6	6,281.4	0.00	0.00	0.00
15,900.0	89.78	359.50	9,647.5	6,380.7	113.7	6,381.4	0.00	0.00	0.00
16,000.0	89.78	359.50	9,647.8	6,480.7	112.9	6,481.4	0.00	0.00	0.00
16,100.0	89.78	359.50	9,648.2	6,580.7	112.0	6,581.4	0.00	0.00	0.00
16,200.0	89.78	359.50	9,648.6	6,680.7	111.1	6,681.3	0.00	0.00	0.00
16,300.0	89.78	359.50	9,649.0	6,780.7	110.2	6,781.3	0.00	0.00	0.00
16,400.0	89.78	359.50	9,649.4	6,880.7	109.4	6,881.3	0.00	0.00	0.00
16,500.0	89.78	359.50	9,649.7	6,980.7	108.5	6,981.3	0.00	0.00	0.00
16,600.0	89.78	359.50	9,650.1	7,080.7	107.6	7,081.3	0.00	0.00	0.00
16,700.0	89.78	359.50	9,650.5	7,180.7	106.8	7,181.3	0.00	0.00	0.00
16,800.0	89.78	359.50	9,650.9	7,280.7	105.9	7,281.3	0.00	0.00	0.00
16,900.0	89.78	359.50	9,651.3	7,380.6	105.0	7,381.2	0.00	0.00	0.00
17,000.0	89.78	359.50	9,651.6	7,480.6	104.1	7,481.2	0.00	0.00	0.00
17,100.0	89.78	359.50	9,652.0	7,580.6	103.3	7,581.2	0.00	0.00	0.00
17,200.0	89.78	359.50	9,652.4	7,680.6	102.4	7,681.2	0.00	0.00	0.00
17,300.0	89.78	359.50	9,652.8	7,780.6	101.5	7,781.2	0.00	0.00	0.00
17,400.0	89.78	359.50	9,653.2	7,880.6	100.7	7,881.2	0.00	0.00	0.00
17,500.0	89.78	359.50	9,653.5	7,980.6	99.8	7,981.2	0.00	0.00	0.00
17,600.0	89.78	359.50	9,653.9	8,080.6	98.9	8,081.1	0.00	0.00	0.00
17,700.0	89.78	359.50	9,654.3	8,180.6	98.0	8,181.1	0.00	0.00	0.00
17,800.0	89.78	359.50	9,654.7	8,280.6	97.2	8,281.1	0.00	0.00	0.00
17,900.0	89.78	359.50	9,655.0	8,380.6	96.3	8,381.1	0.00	0.00	0.00
18,000.0	89.78	359.50	9,655.4	8,480.6	95.4	8,481.1	0.00	0.00	0.00
18,100.0	89.78	359.50	9,655.8	8,580.6	94.6	8,581.1	0.00	0.00	0.00
18,200.0	89.78	359.50	9,656.2	8,680.6	93.7	8,681.1	0.00	0.00	0.00
18,300.0	89.78	359.50	9,656.6	8,780.6	92.8	8,781.0	0.00	0.00	0.00
18,400.0	89.78	359.50	9,656.9	8,880.6	91.9	8,881.0	0.00	0.00	0.00
18,500.0	89.78	359.50	9,657.3	8,980.6	91.1	8,981.0	0.00	0.00	0.00
18,600.0	89.78	359.50	9,657.7	9,080.6	90.2	9,081.0	0.00	0.00	0.00
18,700.0	89.78	359.50	9,658.1	9,180.6	89.3	9,181.0	0.00	0.00	0.00
18,800.0	89.78	359.50	9,658.5	9,280.6	88.5	9,281.0	0.00	0.00	0.00
18,900.0	89.78	359.50	9,658.8	9,380.6	87.6	9,381.0	0.00	0.00	0.00
19,000.0	89.78	359.50	9,659.2	9,480.6	86.7	9,480.9	0.00	0.00	0.00
19,100.0	89.78	359.50	9,659.6	9,580.6	85.9	9,580.9	0.00	0.00	0.00
19,200.0	89.78	359.50	9,660.0	9,680.5	85.0	9,680.9	0.00	0.00	0.00
19,300.0	89.78	359.50	9,660.3	9,780.5	84.1	9,780.9	0.00	0.00	0.00

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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,400.0	89.78	359.50	9,660.7	9,880.5	83.2	9,880.9	0.00	0.00	0.00
19,500.0	89.78	359.50	9,661.1	9,980.5	82.4	9,980.9	0.00	0.00	0.00
19,600.0	89.78	359.50	9,661.5	10,080.5	81.5	10,080.9	0.00	0.00	0.00
19,700.0	89.78	359.50	9,661.9	10,180.5	80.6	10,180.8	0.00	0.00	0.00
19,737.0	89.78	359.50	9,662.0	10,217.5	80.3	10,217.8	0.00	0.00	0.00

TD at 19737.0

Design Targets
Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Myox 21 State C - plan misses target center by 85.9usft at 9662.9usft MD (9551.1 TVD, 156.8 N, 152.0 E) - Point	0.00	0.00	9,625.0	116.5	168.9	403,427.90	573,151.70	32° 6' 32.109 N	104° 5' 49.476 W
PBHL (Myox 21 State - plan hits target center - Rectangle (sides W60.0 H10.0 D20.0)	0.22	359.50	9,662.0	10,217.5	80.3	413,528.90	573,063.10	32° 8' 12.075 N	104° 5' 50.249 W
LTP (Myox 21 State C - plan misses target center by 0.5usft at 19607.0usft MD (9661.5 TVD, 10087.5 N, 81.4 E) - Point	0.00	0.00	9,662.0	10,087.5	81.4	413,398.90	573,064.20	32° 8' 10.788 N	104° 5' 50.239 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
305.0	305.0	Rustler			
670.0	670.0	TOS			
2,230.0	2,230.0	BOS (Fletcher)			
2,432.0	2,432.0	LMAR (Top Delaware)			
2,487.0	2,487.0	BYCN			
3,316.0	3,316.0	CYCN			
4,564.3	4,563.0	BYCN			
6,115.4	6,112.0	Bone Sprg (BSGL)			
6,465.9	6,462.0	U Avalon Sh			
6,669.2	6,665.0	L Avalon Sh			
7,057.7	7,053.0	FBSG_sand			
7,917.0	7,912.0	SBSG_sand			
8,912.0	8,907.0	TBSG_sand			
9,278.5	9,268.0	WFMP			
9,371.6	9,351.0	WFMP Lith			
13,663.2	9,639.0	WFMP B			



Intrepid
Planning Report

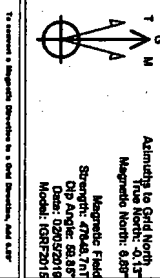
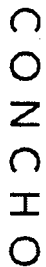


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Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,500.0	3,500.0	0.0	0.0	NUDGE - Build 2.00
3,650.0	3,649.9	-2.7	2.8	HOLD - 3500.0 at 3650.0 MD
7,150.0	7,145.1	-129.1	135.4	DROP - -1.00
7,450.0	7,445.0	-134.6	141.1	HOLD - 1607.0 at 7450.0 MD
9,057.0	9,052.0	-134.6	141.1	KOP - Build 10.00
9,954.8	9,625.0	435.8	162.5	EOC/TRN - DLS 2.00 TFO -89.94
10,087.3	9,625.5	568.2	164.4	Start 9649.7 hold at 10087.3 MD
19,737.0	9,662.0	10,217.5	80.3	TD at 19737.0



Alignments to Grid North
True North: -0.15°
Magnetic North: 0.05°

Concrete Resources, Inc.
Project: Eddy County (HUSDZT NME)
Site: (Myxoz 21 State Conn Sec-21 1-20-92, R28-E
Well: Myxoz 21 State Conn R28H
Wellbore: OWB
Design: Plan #1
Lat: 32° 6' 30.960 N
Long: 104° 5' 51.443 W
Prod GL: 2689.8
KB: KB @ 3020, Sustn

