

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 06 2019

Form C-103
October 13, 2009

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

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

RECEIVED	
30-015-44004	
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 34H	
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 M : 215 feet from the South line and 850 feet from the West line
Section 21 Township 25S Range 28E NMPM Eddy County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
2990.6'

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: ☐

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 & 850' FWL Section 21. T25S. R28E UL M
To: 215' FSL & 850' 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 R. Polansky TITLE: Geologist DATE: 2-7-19

Conditions of Approval (if any):

RP 040 ✓

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 06 2019

DISTRICT I
1825 N. FRANKLIN DR., BOHNS, NM 86240
Phone: (505) 255-4161 Fax: (505) 255-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1883 Fax: (505) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1825 N. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3400 Fax: (505) 476-3402

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

RECEIVED Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-44004	Pool Code 98220	Pool Name Purple Sage; Wolfcamp
Property Code 38521	Property Name MYOX 21 STATE COM	Well Number 34H
OCRD No. 229137	Operator Name COG OPERATING, LLC	Elevation 2990.6'

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	850	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	1310	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
640			

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

FEE

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.

Mayte Reyes 1-30-19
Signature Date
Mayte Reyes
Printed Name
mreyes1@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.

JANUARY 8, 2019
Date of Survey

Signature & Seal of Professional Surveyor

Chad L. Harcrow 1/24/19
Certificate No. CHAD HARCROW 17777
W.O. # 19-61 DRAWN BY: WN

Rw 2-7-19



CONCHO

**NM OIL CONSERVATION
ARTESIA DISTRICT**

FEB 06 2019

RECEIVED

Concho Resources, Inc.

Eddy County (NAD27 NME)

(Myox 21 State Com) Sec-21_T-25-S_R28-E

Myox 21 State Com #34H

API# 30-015-44004

OWB

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 #34H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Myox 21 State Com #34H
TVD Reference: KB @ 3021.6usft
MD Reference: KB @ 3021.6usft
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 #34H				
Well Position	+N/-S	-473.3 usft	Northing:	403,311.60 usft	Latitude: 32° 6' 30.961 N
	+E/-W	-45.7 usft	Easting:	573,012.70 usft	Longitude: 104° 5' 51.095 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	Ground Level: 2,990.6 usft	

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	02/05/19	7.01	59.85	47,648.72608789

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	2.08	

Plan Survey Tool Program		Date 02/05/19			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	8,863.8 Plan #1 (OWB)	MWD		
			OWSG MWD - Standard		
2	8,863.8	19,550.3 Plan #1 (OWB)	MWD+IFR1+MS		
			MWD + IFR1 + Multi-Station		



Intrepid
Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Myox 21 State Com #34H
Company:	Concho Resources, Inc.	TVD Reference:	KB @ 3021.6usft
Project:	Eddy County (NAD27 NME)	MD Reference:	KB @ 3021.6usft
Site:	(Myox 21 State Com) Sec-21_T-25-S_R28-E	North Reference:	Grid
Well:	Myox 21 State Com #34H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,200.0	4.00	108.84	2,199.8	-2.3	6.6	2.00	2.00	0.00	108.84	
8,076.1	4.00	108.84	8,061.6	-134.6	394.5	0.00	0.00	0.00	0.00	
8,476.1	0.00	0.00	8,461.3	-139.1	407.7	1.00	-1.00	0.00	180.00	
8,863.8	0.00	0.00	8,849.0	-139.1	407.7	0.00	0.00	0.00	0.00	
9,763.9	90.01	3.98	9,422.0	432.5	447.5	10.00	10.00	0.00	3.98	
9,988.0	90.01	359.50	9,421.9	656.5	454.3	2.00	0.00	-2.00	-90.06	
19,550.3	90.01	359.50	9,421.0	10,218.4	370.4	0.00	0.00	0.00	0.00	PBHL (Myox 21 Ste



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 #34H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Myox 21 State Com #34H
TVD Reference: KB @ 3021.6usft
MD Reference: KB @ 3021.6usft
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
NUDGE - Build 2.00									
2,100.0	2.00	108.84	2,100.0	-0.6	1.7	-0.5	2.00	2.00	0.00
2,200.0	4.00	108.84	2,199.8	-2.3	6.6	-2.0	2.00	2.00	0.00
HOLD - 5876.1 at 2200.0 MD									
2,300.0	4.00	108.84	2,299.6	-4.5	13.2	-4.0	0.00	0.00	0.00
2,400.0	4.00	108.84	2,399.4	-6.8	19.8	-6.0	0.00	0.00	0.00
2,500.0	4.00	108.84	2,499.1	-9.0	26.4	-8.0	0.00	0.00	0.00
2,600.0	4.00	108.84	2,598.9	-11.3	33.0	-10.1	0.00	0.00	0.00
2,700.0	4.00	108.84	2,698.6	-13.5	39.6	-12.1	0.00	0.00	0.00
2,800.0	4.00	108.84	2,798.4	-15.8	46.2	-14.1	0.00	0.00	0.00
2,900.0	4.00	108.84	2,898.1	-18.0	52.8	-16.1	0.00	0.00	0.00
3,000.0	4.00	108.84	2,997.9	-20.3	59.4	-18.1	0.00	0.00	0.00
3,100.0	4.00	108.84	3,097.6	-22.5	66.0	-20.1	0.00	0.00	0.00
3,200.0	4.00	108.84	3,197.4	-24.8	72.6	-22.1	0.00	0.00	0.00
3,300.0	4.00	108.84	3,297.2	-27.0	79.2	-24.1	0.00	0.00	0.00
3,400.0	4.00	108.84	3,396.9	-29.3	85.8	-26.2	0.00	0.00	0.00
3,500.0	4.00	108.84	3,496.7	-31.5	92.4	-28.2	0.00	0.00	0.00
3,600.0	4.00	108.84	3,596.4	-33.8	99.0	-30.2	0.00	0.00	0.00
3,700.0	4.00	108.84	3,696.2	-36.0	105.6	-32.2	0.00	0.00	0.00
3,800.0	4.00	108.84	3,795.9	-38.3	112.2	-34.2	0.00	0.00	0.00
3,900.0	4.00	108.84	3,895.7	-40.5	118.8	-36.2	0.00	0.00	0.00
4,000.0	4.00	108.84	3,995.5	-42.8	125.4	-38.2	0.00	0.00	0.00
4,100.0	4.00	108.84	4,095.2	-45.1	132.0	-40.2	0.00	0.00	0.00
4,200.0	4.00	108.84	4,195.0	-47.3	138.6	-42.3	0.00	0.00	0.00
4,300.0	4.00	108.84	4,294.7	-49.6	145.2	-44.3	0.00	0.00	0.00
4,400.0	4.00	108.84	4,394.5	-51.8	151.8	-46.3	0.00	0.00	0.00
4,500.0	4.00	108.84	4,494.2	-54.1	158.4	-48.3	0.00	0.00	0.00
4,600.0	4.00	108.84	4,594.0	-56.3	165.1	-50.3	0.00	0.00	0.00
4,700.0	4.00	108.84	4,693.7	-58.6	171.7	-52.3	0.00	0.00	0.00
4,800.0	4.00	108.84	4,793.5	-60.8	178.3	-54.3	0.00	0.00	0.00
4,900.0	4.00	108.84	4,893.3	-63.1	184.9	-56.3	0.00	0.00	0.00
5,000.0	4.00	108.84	4,993.0	-65.3	191.5	-58.4	0.00	0.00	0.00
5,100.0	4.00	108.84	5,092.8	-67.6	198.1	-60.4	0.00	0.00	0.00

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Well: Myox 21 State Com #34H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Myox 21 State Com #34H
TVD Reference: KB @ 3021.6usft
MD Reference: KB @ 3021.6usft
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)
5,200.0	4.00	108.84	5,192.5	-69.8	204.7	-62.4	0.00	0.00	0.00
5,300.0	4.00	108.84	5,292.3	-72.1	211.3	-64.4	0.00	0.00	0.00
5,400.0	4.00	108.84	5,392.0	-74.3	217.9	-66.4	0.00	0.00	0.00
5,500.0	4.00	108.84	5,491.8	-76.6	224.5	-68.4	0.00	0.00	0.00
5,600.0	4.00	108.84	5,591.6	-78.8	231.1	-70.4	0.00	0.00	0.00
5,700.0	4.00	108.84	5,691.3	-81.1	237.7	-72.4	0.00	0.00	0.00
5,800.0	4.00	108.84	5,791.1	-83.3	244.3	-74.4	0.00	0.00	0.00
5,900.0	4.00	108.84	5,890.8	-85.6	250.9	-76.5	0.00	0.00	0.00
6,000.0	4.00	108.84	5,990.6	-87.9	257.5	-78.5	0.00	0.00	0.00
6,100.0	4.00	108.84	6,090.3	-90.1	264.1	-80.5	0.00	0.00	0.00
6,200.0	4.00	108.84	6,190.1	-92.4	270.7	-82.5	0.00	0.00	0.00
6,300.0	4.00	108.84	6,289.9	-94.6	277.3	-84.5	0.00	0.00	0.00
6,400.0	4.00	108.84	6,389.6	-96.9	283.9	-86.5	0.00	0.00	0.00
6,500.0	4.00	108.84	6,489.4	-99.1	290.5	-88.5	0.00	0.00	0.00
6,600.0	4.00	108.84	6,589.1	-101.4	297.1	-90.5	0.00	0.00	0.00
6,700.0	4.00	108.84	6,688.9	-103.6	303.7	-92.6	0.00	0.00	0.00
6,800.0	4.00	108.84	6,788.6	-105.9	310.3	-94.6	0.00	0.00	0.00
6,900.0	4.00	108.84	6,888.4	-108.1	316.9	-96.6	0.00	0.00	0.00
7,000.0	4.00	108.84	6,988.1	-110.4	323.5	-98.6	0.00	0.00	0.00
7,100.0	4.00	108.84	7,087.9	-112.6	330.1	-100.6	0.00	0.00	0.00
7,200.0	4.00	108.84	7,187.7	-114.9	336.7	-102.6	0.00	0.00	0.00
7,300.0	4.00	108.84	7,287.4	-117.1	343.3	-104.6	0.00	0.00	0.00
7,400.0	4.00	108.84	7,387.2	-119.4	349.9	-106.6	0.00	0.00	0.00
7,500.0	4.00	108.84	7,486.9	-121.6	356.5	-108.7	0.00	0.00	0.00
7,600.0	4.00	108.84	7,586.7	-123.9	363.1	-110.7	0.00	0.00	0.00
7,700.0	4.00	108.84	7,686.4	-126.2	369.7	-112.7	0.00	0.00	0.00
7,800.0	4.00	108.84	7,786.2	-128.4	376.3	-114.7	0.00	0.00	0.00
7,900.0	4.00	108.84	7,886.0	-130.7	382.9	-116.7	0.00	0.00	0.00
8,000.0	4.00	108.84	7,985.7	-132.9	389.5	-118.7	0.00	0.00	0.00
8,076.1	4.00	108.84	8,061.6	-134.6	394.5	-120.2	0.00	0.00	0.00
DROP - -1.00									
8,100.0	3.76	108.84	8,085.5	-135.1	396.1	-120.7	1.00	-1.00	0.00
8,200.0	2.76	108.84	8,185.3	-137.0	401.5	-122.3	1.00	-1.00	0.00
8,300.0	1.76	108.84	8,285.2	-138.3	405.2	-123.5	1.00	-1.00	0.00
8,400.0	0.76	108.84	8,385.2	-139.0	407.3	-124.1	1.00	-1.00	0.00
8,476.1	0.00	0.00	8,461.3	-139.1	407.7	-124.3	1.00	-1.00	0.00
HOLD - 387.7 at 8476.1 MD									
8,500.0	0.00	0.00	8,485.2	-139.1	407.7	-124.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,585.2	-139.1	407.7	-124.3	0.00	0.00	0.00
8,700.0	0.00	0.00	8,685.2	-139.1	407.7	-124.3	0.00	0.00	0.00
8,800.0	0.00	0.00	8,785.2	-139.1	407.7	-124.3	0.00	0.00	0.00
8,863.8	0.00	0.00	8,849.0	-139.1	407.7	-124.3	0.00	0.00	0.00
KOP - Build 10.00									
8,900.0	3.62	3.98	8,885.2	-138.0	407.8	-123.1	10.00	10.00	0.00
8,950.0	8.62	3.98	8,934.9	-132.7	408.2	-117.8	10.00	10.00	0.00
9,000.0	13.62	3.98	8,983.9	-123.1	408.9	-108.2	10.00	10.00	0.00
9,050.0	18.62	3.98	9,031.9	-109.2	409.8	-94.3	10.00	10.00	0.00
9,100.0	23.62	3.98	9,078.6	-91.2	411.1	-76.3	10.00	10.00	0.00
9,150.0	28.62	3.98	9,123.4	-69.3	412.6	-54.3	10.00	10.00	0.00
9,200.0	33.62	3.98	9,166.2	-43.5	414.4	-28.5	10.00	10.00	0.00
9,250.0	38.62	3.98	9,206.6	-14.1	416.4	1.0	10.00	10.00	0.00
9,300.0	43.62	3.98	9,244.3	18.7	418.7	33.8	10.00	10.00	0.00
9,350.0	48.62	3.98	9,278.9	54.6	421.2	69.8	10.00	10.00	0.00

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 #34H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Myox 21 State Com #34H
TVD Reference: KB @ 3021.6usft
MD Reference: KB @ 3021.6usft
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)
9,400.0	53.62	3.98	9,310.3	93.4	423.9	108.7	10.00	10.00	0.00
9,450.0	58.62	3.98	9,338.2	134.8	426.8	150.2	10.00	10.00	0.00
9,500.0	63.62	3.98	9,362.3	178.5	429.8	193.9	10.00	10.00	0.00
9,550.0	68.62	3.98	9,382.5	224.1	433.0	239.6	10.00	10.00	0.00
9,600.0	73.62	3.98	9,398.7	271.3	436.3	286.9	10.00	10.00	0.00
9,650.0	78.62	3.98	9,410.7	319.7	439.7	335.4	10.00	10.00	0.00
9,700.0	83.62	3.98	9,418.4	368.9	443.1	384.7	10.00	10.00	0.00
9,750.0	88.62	3.98	9,421.8	418.7	446.6	434.6	10.00	10.00	0.00
9,763.9	90.01	3.98	9,422.0	432.5	447.5	448.5	10.00	10.00	0.00
EOC/TRN - DLS 2.00 TFO -90.06									
9,800.0	90.01	3.26	9,422.0	468.6	449.8	484.6	2.00	0.00	-2.00
9,900.0	90.01	1.26	9,421.9	568.5	453.7	584.6	2.00	0.00	-2.00
9,988.0	90.01	359.50	9,421.9	656.5	454.3	672.6	2.00	0.00	-2.00
Start 9562.2 hold at 9988.0 MD									
10,000.0	90.01	359.50	9,421.9	668.5	454.2	684.5	0.00	0.00	0.00
10,100.0	90.01	359.50	9,421.9	768.5	453.3	784.4	0.00	0.00	0.00
10,200.0	90.01	359.50	9,421.9	868.5	452.5	884.3	0.00	0.00	0.00
10,300.0	90.01	359.50	9,421.9	968.5	451.6	984.2	0.00	0.00	0.00
10,400.0	90.01	359.50	9,421.9	1,068.5	450.7	1,084.1	0.00	0.00	0.00
10,500.0	90.01	359.50	9,421.9	1,168.5	449.8	1,184.0	0.00	0.00	0.00
10,600.0	90.01	359.50	9,421.9	1,268.5	449.0	1,283.9	0.00	0.00	0.00
10,700.0	90.01	359.50	9,421.9	1,368.5	448.1	1,383.8	0.00	0.00	0.00
10,800.0	90.01	359.50	9,421.8	1,468.5	447.2	1,483.7	0.00	0.00	0.00
10,900.0	90.01	359.50	9,421.8	1,568.4	446.3	1,583.6	0.00	0.00	0.00
11,000.0	90.01	359.50	9,421.8	1,668.4	445.4	1,683.5	0.00	0.00	0.00
11,100.0	90.01	359.50	9,421.8	1,768.4	444.6	1,783.4	0.00	0.00	0.00
11,200.0	90.01	359.50	9,421.8	1,868.4	443.7	1,883.3	0.00	0.00	0.00
11,300.0	90.01	359.50	9,421.8	1,968.4	442.8	1,983.2	0.00	0.00	0.00
11,400.0	90.01	359.50	9,421.8	2,068.4	441.9	2,083.1	0.00	0.00	0.00
11,500.0	90.01	359.50	9,421.8	2,168.4	441.1	2,183.0	0.00	0.00	0.00
11,600.0	90.01	359.50	9,421.8	2,268.4	440.2	2,282.9	0.00	0.00	0.00
11,700.0	90.01	359.50	9,421.8	2,368.4	439.3	2,382.8	0.00	0.00	0.00
11,800.0	90.01	359.50	9,421.8	2,468.4	438.4	2,482.7	0.00	0.00	0.00
11,900.0	90.01	359.50	9,421.7	2,568.4	437.5	2,582.6	0.00	0.00	0.00
12,000.0	90.01	359.50	9,421.7	2,668.4	436.7	2,682.5	0.00	0.00	0.00
12,100.0	90.01	359.50	9,421.7	2,768.4	435.8	2,782.4	0.00	0.00	0.00
12,200.0	90.01	359.50	9,421.7	2,868.4	434.9	2,882.3	0.00	0.00	0.00
12,300.0	90.01	359.50	9,421.7	2,968.4	434.0	2,982.2	0.00	0.00	0.00
12,400.0	90.01	359.50	9,421.7	3,068.4	433.2	3,082.1	0.00	0.00	0.00
12,500.0	90.01	359.50	9,421.7	3,168.4	432.3	3,182.0	0.00	0.00	0.00
12,600.0	90.01	359.50	9,421.7	3,268.4	431.4	3,281.9	0.00	0.00	0.00
12,700.0	90.01	359.50	9,421.7	3,368.4	430.5	3,381.8	0.00	0.00	0.00
12,800.0	90.01	359.50	9,421.7	3,468.4	429.6	3,481.7	0.00	0.00	0.00
12,900.0	90.01	359.50	9,421.6	3,568.4	428.8	3,581.6	0.00	0.00	0.00
13,000.0	90.01	359.50	9,421.6	3,668.4	427.9	3,681.5	0.00	0.00	0.00
13,100.0	90.01	359.50	9,421.6	3,768.4	427.0	3,781.4	0.00	0.00	0.00
13,200.0	90.01	359.50	9,421.6	3,868.4	426.1	3,881.3	0.00	0.00	0.00
13,300.0	90.01	359.50	9,421.6	3,968.4	425.3	3,981.2	0.00	0.00	0.00
13,400.0	90.01	359.50	9,421.6	4,068.4	424.4	4,081.1	0.00	0.00	0.00
13,500.0	90.01	359.50	9,421.6	4,168.3	423.5	4,181.0	0.00	0.00	0.00
13,600.0	90.01	359.50	9,421.6	4,268.3	422.6	4,280.9	0.00	0.00	0.00
13,700.0	90.01	359.50	9,421.6	4,368.3	421.7	4,380.8	0.00	0.00	0.00
13,800.0	90.01	359.50	9,421.6	4,468.3	420.9	4,480.7	0.00	0.00	0.00
13,900.0	90.01	359.50	9,421.5	4,568.3	420.0	4,580.5	0.00	0.00	0.00



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 #34H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Myox 21 State Com #34H
TVD Reference: KB @ 3021.6usft
MD Reference: KB @ 3021.6usft
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)
14,000.0	90.01	359.50	9,421.5	4,668.3	419.1	4,680.4	0.00	0.00	0.00
14,100.0	90.01	359.50	9,421.5	4,768.3	418.2	4,780.3	0.00	0.00	0.00
14,200.0	90.01	359.50	9,421.5	4,868.3	417.4	4,880.2	0.00	0.00	0.00
14,300.0	90.01	359.50	9,421.5	4,968.3	416.5	4,980.1	0.00	0.00	0.00
14,400.0	90.01	359.50	9,421.5	5,068.3	415.6	5,080.0	0.00	0.00	0.00
14,500.0	90.01	359.50	9,421.5	5,168.3	414.7	5,179.9	0.00	0.00	0.00
14,600.0	90.01	359.50	9,421.5	5,268.3	413.8	5,279.8	0.00	0.00	0.00
14,700.0	90.01	359.50	9,421.5	5,368.3	413.0	5,379.7	0.00	0.00	0.00
14,800.0	90.01	359.50	9,421.5	5,468.3	412.1	5,479.6	0.00	0.00	0.00
14,900.0	90.01	359.50	9,421.5	5,568.3	411.2	5,579.5	0.00	0.00	0.00
15,000.0	90.01	359.50	9,421.4	5,668.3	410.3	5,679.4	0.00	0.00	0.00
15,100.0	90.01	359.50	9,421.4	5,768.3	409.5	5,779.3	0.00	0.00	0.00
15,200.0	90.01	359.50	9,421.4	5,868.3	408.6	5,879.2	0.00	0.00	0.00
15,300.0	90.01	359.50	9,421.4	5,968.3	407.7	5,979.1	0.00	0.00	0.00
15,400.0	90.01	359.50	9,421.4	6,068.3	406.8	6,079.0	0.00	0.00	0.00
15,500.0	90.01	359.50	9,421.4	6,168.3	405.9	6,178.9	0.00	0.00	0.00
15,600.0	90.01	359.50	9,421.4	6,268.3	405.1	6,278.8	0.00	0.00	0.00
15,700.0	90.01	359.50	9,421.4	6,368.3	404.2	6,378.7	0.00	0.00	0.00
15,800.0	90.01	359.50	9,421.4	6,468.3	403.3	6,478.6	0.00	0.00	0.00
15,900.0	90.01	359.50	9,421.4	6,568.3	402.4	6,578.5	0.00	0.00	0.00
16,000.0	90.01	359.50	9,421.3	6,668.3	401.6	6,678.4	0.00	0.00	0.00
16,100.0	90.01	359.50	9,421.3	6,768.2	400.7	6,778.3	0.00	0.00	0.00
16,200.0	90.01	359.50	9,421.3	6,868.2	399.8	6,878.2	0.00	0.00	0.00
16,300.0	90.01	359.50	9,421.3	6,968.2	398.9	6,978.1	0.00	0.00	0.00
16,400.0	90.01	359.50	9,421.3	7,068.2	398.0	7,078.0	0.00	0.00	0.00
16,500.0	90.01	359.50	9,421.3	7,168.2	397.2	7,177.9	0.00	0.00	0.00
16,600.0	90.01	359.50	9,421.3	7,268.2	396.3	7,277.8	0.00	0.00	0.00
16,700.0	90.01	359.50	9,421.3	7,368.2	395.4	7,377.7	0.00	0.00	0.00
16,800.0	90.01	359.50	9,421.3	7,468.2	394.5	7,477.6	0.00	0.00	0.00
16,900.0	90.01	359.50	9,421.3	7,568.2	393.7	7,577.5	0.00	0.00	0.00
17,000.0	90.01	359.50	9,421.2	7,668.2	392.8	7,677.4	0.00	0.00	0.00
17,100.0	90.01	359.50	9,421.2	7,768.2	391.9	7,777.3	0.00	0.00	0.00
17,200.0	90.01	359.50	9,421.2	7,868.2	391.0	7,877.2	0.00	0.00	0.00
17,300.0	90.01	359.50	9,421.2	7,968.2	390.1	7,977.1	0.00	0.00	0.00
17,400.0	90.01	359.50	9,421.2	8,068.2	389.3	8,077.0	0.00	0.00	0.00
17,500.0	90.01	359.50	9,421.2	8,168.2	388.4	8,176.9	0.00	0.00	0.00
17,600.0	90.01	359.50	9,421.2	8,268.2	387.5	8,276.8	0.00	0.00	0.00
17,700.0	90.01	359.50	9,421.2	8,368.2	386.6	8,376.7	0.00	0.00	0.00
17,800.0	90.01	359.50	9,421.2	8,468.2	385.8	8,476.6	0.00	0.00	0.00
17,900.0	90.01	359.50	9,421.2	8,568.2	384.9	8,576.5	0.00	0.00	0.00
18,000.0	90.01	359.50	9,421.2	8,668.2	384.0	8,676.4	0.00	0.00	0.00
18,100.0	90.01	359.50	9,421.1	8,768.2	383.1	8,776.3	0.00	0.00	0.00
18,200.0	90.01	359.50	9,421.1	8,868.2	382.3	8,876.2	0.00	0.00	0.00
18,300.0	90.01	359.50	9,421.1	8,968.2	381.4	8,976.1	0.00	0.00	0.00
18,400.0	90.01	359.50	9,421.1	9,068.2	380.5	9,076.0	0.00	0.00	0.00
18,500.0	90.01	359.50	9,421.1	9,168.2	379.6	9,175.9	0.00	0.00	0.00
18,600.0	90.01	359.50	9,421.1	9,268.2	378.7	9,275.8	0.00	0.00	0.00
18,700.0	90.01	359.50	9,421.1	9,368.1	377.9	9,375.7	0.00	0.00	0.00
18,800.0	90.01	359.50	9,421.1	9,468.1	377.0	9,475.6	0.00	0.00	0.00
18,900.0	90.01	359.50	9,421.1	9,568.1	376.1	9,575.5	0.00	0.00	0.00
19,000.0	90.01	359.50	9,421.1	9,668.1	375.2	9,675.4	0.00	0.00	0.00
19,100.0	90.01	359.50	9,421.0	9,768.1	374.4	9,775.3	0.00	0.00	0.00
19,200.0	90.01	359.50	9,421.0	9,868.1	373.5	9,875.2	0.00	0.00	0.00
19,300.0	90.01	359.50	9,421.0	9,968.1	372.6	9,975.1	0.00	0.00	0.00



Intrepid
Planning Report



Database: EDM 5000.15 Single User Db
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Project: Eddy County (NAD27 NME)
Site: (Myox 21 State Com) Sec-21_T-25-S_R28-E
Well: Myox 21 State Com #34H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Myox 21 State Com #34H
TVD Reference: KB @ 3021.6usft
MD Reference: KB @ 3021.6usft
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)
19,400.0	90.01	359.50	9,421.0	10,068.1	371.7	10,075.0	0.00	0.00	0.00
19,500.0	90.01	359.50	9,421.0	10,168.1	370.8	10,174.9	0.00	0.00	0.00
19,550.3	90.01	359.50	9,421.0	10,218.4	370.4	10,225.1	0.00	0.00	0.00
TD at 19550.3									

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
PBHL (Myox 21 State - plan hits target center - Rectangle (sides W60.0 H10,105.0 D20.0)	-0.01	359.50	9,421.0	10,218.4	370.4	413,530.00	573,383.10	32° 8' 12.079 N	104° 5' 46.527 W
LTP (Myox 21 State C - plan hits target center - Point	0.00	0.00	9,421.0	10,088.4	371.5	413,400.00	573,384.20	32° 8' 10.792 N	104° 5' 46.518 W
FTP (Myox 21 State C - plan misses target center by 86.0usft at 9478.7usft MD (9352.5 TVD, 159.7 N, 428.5 E) - Point	0.00	0.00	9,422.0	119.1	459.0	403,430.70	573,471.70	32° 6' 32.130 N	104° 5' 45.755 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
313.0	313.0	Rustler			
678.0	678.0	TOS			
2,238.3	2,238.0	BOS (Fletcher)			
2,440.7	2,440.0	LMAR (Top Delaware)			
2,495.9	2,495.0	BYCN			
3,326.9	3,324.0	CYCN			
4,577.0	4,571.0	BYCN			
6,129.7	6,120.0	Bone Sprg (BSGL)			
6,480.6	6,470.0	U Avalon Sh			
6,684.1	6,673.0	L Avalon Sh			
7,073.0	7,061.0	FBSG_sand			
7,934.1	7,920.0	SBSG_sand			
8,929.9	8,915.0	TBSG_sand			
9,345.6	9,276.0	WFMP			
9,492.7	9,359.0	WFMP Lith			



Intrepid
Planning Report



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Well: Myox 21 State Com #34H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Myox 21 State Com #34H
TVD Reference: KB @ 3021.6usft
MD Reference: KB @ 3021.6usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.0	2,000.0	0.0	0.0	NUDGE - Build 2.00
2,200.0	2,199.8	-2.3	6.6	HOLD - 5876.1 at 2200.0 MD
8,076.1	8,061.6	-134.6	394.5	DROP - -1.00
8,476.1	8,461.3	-139.1	407.7	HOLD - 387.7 at 8476.1 MD
8,863.8	8,849.0	-139.1	407.7	KOP - Build 10.00
9,763.9	9,422.0	432.5	447.5	EOC/TRN - DLS 2.00 TFO -90.06
9,988.0	9,421.9	656.5	454.3	Start 9562.2 hold at 9988.0 MD
19,550.3	9,421.0	10,218.4	370.4	TD at 19550.3



CONCHO



Aligning to Grid North
Magnetic North: 8.8°

Magnetic Field

Strength: 47848.7nT

Dip Angle: 88.8°

Year: 2018

Model: IGR2018

To convert to Magnetic Direction to a Grid Direction, Add 8.8°

Concho Resources, Inc.
Project: Eddy County (RAD37 NME)

Site: (Myox 21 State Com) Sec-21, T2S-9, R2B-E

Well: Myox 21 State Com R24H

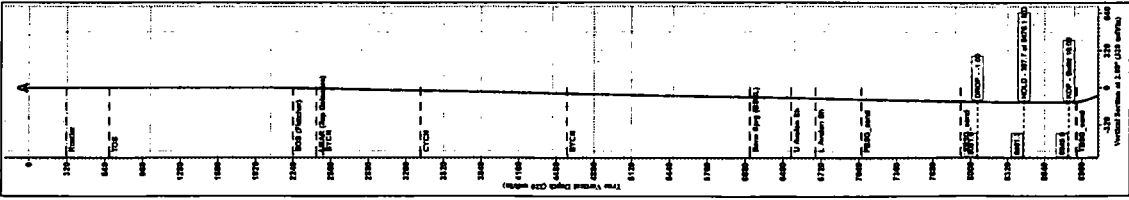
Design: Plan #1

Lat: 32° 6' 30.981" N

Long: 104° 6' 51.093" W

UTM Zone: 18QDS

KB: NGS 80210408



WELL DETAILS: Myox 21 State Com R24H

Depth	North	East	Longitude
0.0	43311.00	27° 8' 50.981" N	104° 6' 51.093" W

MD	INC	ALJ	TVD	SLW	WELL	ANNO
0.0	0.00	0.00	0.00	0.00	0.00	0.00
1000.0	0.00	0.00	1000.00	0.00	0.00	0.00
2000.0	4.00	108.84	1999.99	0.00	0.00	0.00
3000.0	0.00	108.84	2999.99	0.00	0.00	0.00
4000.0	0.00	108.84	3999.99	0.00	0.00	0.00
5000.0	0.00	108.84	4999.99	0.00	0.00	0.00
6000.0	0.00	108.84	5999.99	0.00	0.00	0.00
7000.0	0.00	108.84	6999.99	0.00	0.00	0.00
8000.0	0.00	108.84	7999.99	0.00	0.00	0.00
9000.0	0.00	108.84	8999.99	0.00	0.00	0.00
10000.0	0.00	108.84	9999.99	0.00	0.00	0.00

MD	INC	ALJ	TVD	SLW	WELL	ANNO
0.0	0.00	0.00	0.00	0.00	0.00	0.00
1000.0	0.00	0.00	1000.00	0.00	0.00	0.00
2000.0	4.00	108.84	1999.99	0.00	0.00	0.00
3000.0	0.00	108.84	2999.99	0.00	0.00	0.00
4000.0	0.00	108.84	3999.99	0.00	0.00	0.00
5000.0	0.00	108.84	4999.99	0.00	0.00	0.00
6000.0	0.00	108.84	5999.99	0.00	0.00	0.00
7000.0	0.00	108.84	6999.99	0.00	0.00	0.00
8000.0	0.00	108.84	7999.99	0.00	0.00	0.00
9000.0	0.00	108.84	8999.99	0.00	0.00	0.00
10000.0	0.00	108.84	9999.99	0.00	0.00	0.00

MD	INC	ALJ	TVD	SLW	WELL	ANNO
0.0	0.00	0.00	0.00	0.00	0.00	0.00
1000.0	0.00	0.00	1000.00	0.00	0.00	0.00
2000.0	4.00	108.84	1999.99	0.00	0.00	0.00
3000.0	0.00	108.84	2999.99	0.00	0.00	0.00
4000.0	0.00	108.84	3999.99	0.00	0.00	0.00
5000.0	0.00	108.84	4999.99	0.00	0.00	0.00
6000.0	0.00	108.84	5999.99	0.00	0.00	0.00
7000.0	0.00	108.84	6999.99	0.00	0.00	0.00
8000.0	0.00	108.84	7999.99	0.00	0.00	0.00
9000.0	0.00	108.84	8999.99	0.00	0.00	0.00
10000.0	0.00	108.84	9999.99	0.00	0.00	0.00

MD	INC	ALJ	TVD	SLW	WELL	ANNO
0.0	0.00	0.00	0.00	0.00	0.00	0.00
1000.0	0.00	0.00	1000.00	0.00	0.00	0.00
2000.0	4.00	108.84	1999.99	0.00	0.00	0.00
3000.0	0.00	108.84	2999.99	0.00	0.00	0.00
4000.0	0.00	108.84	3999.99	0.00	0.00	0.00
5000.0	0.00	108.84	4999.99	0.00	0.00	0.00
6000.0	0.00	108.84	5999.99	0.00	0.00	0.00
7000.0	0.00	108.84	6999.99	0.00	0.00	0.00
8000.0	0.00	108.84	7999.99	0.00	0.00	0.00
9000.0	0.00	108.84	8999.99	0.00	0.00	0.00
10000.0	0.00	108.84	9999.99	0.00	0.00	0.00

