



CONCHO

Concho Resources, Inc.

Eddy County (NAD27 NME)

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

Myox 21 State Com #32H

API# 30-015-44002

OWB

30.015-44002

Plan: Plan #2

Standard Planning Report

06 March, 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 #32H
Wellbore: OWB
Design: Plan #2

Local Co-ordinate Reference: Well Myox 21 State Com #32H
TVD Reference: KB @ 3021.7usft (Precision 106)
MD Reference: KB @ 3021.7usft (Precision 106)
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
From:	Map	Easting:	573,058.41 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 35.644 N
		Longitude:	104° 5' 50.552 W
		Grid Convergence:	0.13 °

Well	Myox 21 State Com #32H		
Well Position	+N/-S	-473.8 usft	Northing:
	+E/-W	-105.7 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	02/05/19	7.01	59.85	47,648.70386212

Design	Plan #2			
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	0.16

Plan Survey Tool Program		Date	03/06/19		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	8,843.9 Plan #2 (OWB)	MWD		
			OWSG MWD - Standard		
2	8,843.9	19,528.6 Plan #2 (OWB)	MWD+IFR1+MS		
			MWD + IFR1 + Multi-Station		

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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	
2,486.0	0.00	0.00	2,486.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,577.3	1.83	139.64	2,577.3	-1.1	0.9	2.00	2.00	0.00	139.64	
8,252.6	1.83	139.64	8,249.7	-138.9	118.1	0.00	0.00	0.00	0.00	
8,343.9	0.00	0.00	8,341.0	-140.0	119.0	2.00	-2.00	0.00	180.00	
8,843.9	0.00	0.00	8,841.0	-140.0	119.0	0.00	0.00	0.00	0.00	
9,743.4	89.95	359.50	9,414.0	432.4	114.0	10.00	10.00	-0.06	359.50	
19,528.9	89.95	359.50	9,423.0	10,217.5	28.4	0.00	0.00	0.00	0.00	PBHL (Myox 21 Ste

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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)
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
303.9	0.00	0.00	303.9	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
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
668.9	0.00	0.00	668.9	0.0	0.0	0.0	0.00	0.00	0.00
TOS									
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
2,228.9	0.00	0.00	2,228.9	0.0	0.0	0.0	0.00	0.00	0.00
BOS (Fletcher)									
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
2,430.9	0.00	0.00	2,430.9	0.0	0.0	0.0	0.00	0.00	0.00
LMAR (Top Delaware)									
2,485.9	0.00	0.00	2,485.9	0.0	0.0	0.0	0.00	0.00	0.00
BYCN									
2,486.0	0.00	0.00	2,486.0	0.0	0.0	0.0	0.00	0.00	0.00
NUDGE - Build 2.00									
2,500.0	0.28	139.64	2,500.0	0.0	0.0	0.0	2.00	2.00	0.00
2,577.3	1.83	139.64	2,577.3	-1.1	0.9	-1.1	2.00	2.00	0.00
HOLD - 5675.3 at 2577.3 MD									
2,600.0	1.83	139.64	2,600.0	-1.7	1.4	-1.7	0.00	0.00	0.00
2,700.0	1.83	139.64	2,699.9	-4.1	3.5	-4.1	0.00	0.00	0.00
2,800.0	1.83	139.64	2,799.9	-6.5	5.5	-6.5	0.00	0.00	0.00
2,900.0	1.83	139.64	2,899.8	-8.9	7.6	-8.9	0.00	0.00	0.00
3,000.0	1.83	139.64	2,999.8	-11.4	9.7	-11.3	0.00	0.00	0.00
3,100.0	1.83	139.64	3,099.7	-13.8	11.7	-13.8	0.00	0.00	0.00
3,200.0	1.83	139.64	3,199.7	-16.2	13.8	-16.2	0.00	0.00	0.00
3,300.0	1.83	139.64	3,299.6	-18.7	15.9	-18.6	0.00	0.00	0.00
3,315.3	1.83	139.64	3,314.9	-19.0	16.2	-19.0	0.00	0.00	0.00
CYCN									
3,400.0	1.83	139.64	3,399.6	-21.1	17.9	-21.0	0.00	0.00	0.00
3,500.0	1.83	139.64	3,499.5	-23.5	20.0	-23.5	0.00	0.00	0.00
3,600.0	1.83	139.64	3,599.5	-25.9	22.0	-25.9	0.00	0.00	0.00

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3,700.0	1.83	139.64	3,699.4	-28.4	24.1	-28.3	0.00	0.00	0.00
3,800.0	1.83	139.64	3,799.4	-30.8	26.2	-30.7	0.00	0.00	0.00
3,900.0	1.83	139.64	3,899.3	-33.2	28.2	-33.1	0.00	0.00	0.00
4,000.0	1.83	139.64	3,999.3	-35.6	30.3	-35.6	0.00	0.00	0.00
4,100.0	1.83	139.64	4,099.2	-38.1	32.4	-38.0	0.00	0.00	0.00
4,200.0	1.83	139.64	4,199.2	-40.5	34.4	-40.4	0.00	0.00	0.00
4,300.0	1.83	139.64	4,299.1	-42.9	36.5	-42.8	0.00	0.00	0.00
4,400.0	1.83	139.64	4,399.1	-45.4	38.6	-45.3	0.00	0.00	0.00
4,500.0	1.83	139.64	4,499.0	-47.8	40.6	-47.7	0.00	0.00	0.00
4,562.9	1.83	139.64	4,561.9	-49.3	41.9	-49.2	0.00	0.00	0.00
BYCN									
4,600.0	1.83	139.64	4,599.0	-50.2	42.7	-50.1	0.00	0.00	0.00
4,700.0	1.83	139.64	4,698.9	-52.6	44.7	-52.5	0.00	0.00	0.00
4,800.0	1.83	139.64	4,798.9	-55.1	46.8	-54.9	0.00	0.00	0.00
4,900.0	1.83	139.64	4,898.8	-57.5	48.9	-57.4	0.00	0.00	0.00
5,000.0	1.83	139.64	4,998.8	-59.9	50.9	-59.8	0.00	0.00	0.00
5,100.0	1.83	139.64	5,098.7	-62.4	53.0	-62.2	0.00	0.00	0.00
5,200.0	1.83	139.64	5,198.7	-64.8	55.1	-64.6	0.00	0.00	0.00
5,300.0	1.83	139.64	5,298.6	-67.2	57.1	-67.1	0.00	0.00	0.00
5,400.0	1.83	139.64	5,398.6	-69.6	59.2	-69.5	0.00	0.00	0.00
5,500.0	1.83	139.64	5,498.5	-72.1	61.3	-71.9	0.00	0.00	0.00
5,600.0	1.83	139.64	5,598.4	-74.5	63.3	-74.3	0.00	0.00	0.00
5,700.0	1.83	139.64	5,698.4	-76.9	65.4	-76.7	0.00	0.00	0.00
5,800.0	1.83	139.64	5,798.3	-79.3	67.4	-79.2	0.00	0.00	0.00
5,900.0	1.83	139.64	5,898.3	-81.8	69.5	-81.6	0.00	0.00	0.00
6,000.0	1.83	139.64	5,998.2	-84.2	71.6	-84.0	0.00	0.00	0.00
6,100.0	1.83	139.64	6,098.2	-86.6	73.6	-86.4	0.00	0.00	0.00
6,112.7	1.83	139.64	6,110.9	-86.9	73.9	-86.7	0.00	0.00	0.00
Bone Sprg (BSGL)									
6,200.0	1.83	139.64	6,198.1	-89.1	75.7	-88.8	0.00	0.00	0.00
6,300.0	1.83	139.64	6,298.1	-91.5	77.8	-91.3	0.00	0.00	0.00
6,400.0	1.83	139.64	6,398.0	-93.9	79.8	-93.7	0.00	0.00	0.00
6,462.9	1.83	139.64	6,460.9	-95.4	81.1	-95.2	0.00	0.00	0.00
U Avalon Sh									
6,500.0	1.83	139.64	6,498.0	-96.3	81.9	-96.1	0.00	0.00	0.00
6,600.0	1.83	139.64	6,597.9	-98.8	84.0	-98.5	0.00	0.00	0.00
6,666.0	1.83	139.64	6,663.9	-100.4	85.3	-100.1	0.00	0.00	0.00
L Avalon Sh									
6,700.0	1.83	139.64	6,697.9	-101.2	86.0	-101.0	0.00	0.00	0.00
6,800.0	1.83	139.64	6,797.8	-103.6	88.1	-103.4	0.00	0.00	0.00
6,900.0	1.83	139.64	6,897.8	-106.1	90.1	-105.8	0.00	0.00	0.00
7,000.0	1.83	139.64	6,997.7	-108.5	92.2	-108.2	0.00	0.00	0.00
7,054.2	1.83	139.64	7,051.9	-109.8	93.3	-109.5	0.00	0.00	0.00
FBSG_sand									
7,100.0	1.83	139.64	7,097.7	-110.9	94.3	-110.6	0.00	0.00	0.00
7,200.0	1.83	139.64	7,197.6	-113.3	96.3	-113.1	0.00	0.00	0.00
7,300.0	1.83	139.64	7,297.6	-115.8	98.4	-115.5	0.00	0.00	0.00
7,400.0	1.83	139.64	7,397.5	-118.2	100.5	-117.9	0.00	0.00	0.00
7,500.0	1.83	139.64	7,497.5	-120.6	102.5	-120.3	0.00	0.00	0.00
7,600.0	1.83	139.64	7,597.4	-123.0	104.6	-122.8	0.00	0.00	0.00
7,700.0	1.83	139.64	7,697.4	-125.5	106.7	-125.2	0.00	0.00	0.00
7,800.0	1.83	139.64	7,797.3	-127.9	108.7	-127.6	0.00	0.00	0.00
7,900.0	1.83	139.64	7,897.3	-130.3	110.8	-130.0	0.00	0.00	0.00
7,913.6	1.83	139.64	7,910.9	-130.7	111.1	-130.4	0.00	0.00	0.00

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SBSG_sand									
8,000.0	1.83	139.64	7,997.2	-132.8	112.8	-132.4	0.00	0.00	0.00
8,100.0	1.83	139.64	8,097.2	-135.2	114.9	-134.9	0.00	0.00	0.00
8,200.0	1.83	139.64	8,197.1	-137.6	117.0	-137.3	0.00	0.00	0.00
8,252.6	1.83	139.64	8,249.7	-138.9	118.1	-138.6	0.00	0.00	0.00
DROP - -2.00									
8,300.0	0.88	139.64	8,297.1	-139.7	118.8	-139.4	2.00	-2.00	0.00
8,343.9	0.00	0.00	8,341.0	-140.0	119.0	-139.7	2.00	-2.00	0.00
HOLD - 500.0 at 8343.9 MD									
8,400.0	0.00	0.00	8,397.1	-140.0	119.0	-139.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,497.1	-140.0	119.0	-139.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,597.1	-140.0	119.0	-139.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,697.1	-140.0	119.0	-139.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,797.1	-140.0	119.0	-139.7	0.00	0.00	0.00
8,843.9	0.00	0.00	8,841.0	-140.0	119.0	-139.7	0.00	0.00	0.00
KOP - DLS 10.00 TFO 359.50									
8,850.0	0.61	359.50	8,847.1	-140.0	119.0	-139.6	10.00	10.00	0.00
8,900.0	5.61	359.50	8,897.0	-137.3	119.0	-136.9	10.00	10.00	0.00
8,909.0	6.50	359.50	8,905.9	-136.3	119.0	-136.0	10.00	10.00	0.00
TBSG_sand									
8,950.0	10.61	359.50	8,946.5	-130.2	118.9	-129.9	10.00	10.00	0.00
9,000.0	15.61	359.50	8,995.2	-118.9	118.8	-118.5	10.00	10.00	0.00
9,050.0	20.61	359.50	9,042.7	-103.3	118.7	-103.0	10.00	10.00	0.00
9,100.0	25.61	359.50	9,088.6	-83.7	118.5	-83.4	10.00	10.00	0.00
9,150.0	30.61	359.50	9,132.7	-60.2	118.3	-59.8	10.00	10.00	0.00
9,200.0	35.61	359.50	9,174.6	-32.9	118.1	-32.5	10.00	10.00	0.00
9,250.0	40.61	359.50	9,213.9	-2.0	117.8	-1.7	10.00	10.00	0.00
9,300.0	45.61	359.50	9,250.4	32.1	117.5	32.5	10.00	10.00	0.00
9,324.1	48.02	359.50	9,266.9	49.7	117.3	50.0	10.00	10.00	0.00
WFMP									
9,350.0	50.61	359.50	9,283.8	69.3	117.2	69.7	10.00	10.00	0.00
9,400.0	55.61	359.50	9,313.8	109.3	116.8	109.6	10.00	10.00	0.00
9,450.0	60.61	359.50	9,340.2	151.8	116.4	152.1	10.00	10.00	0.00
9,470.4	62.65	359.50	9,349.9	169.7	116.3	170.0	10.00	10.00	0.00
WFMP Lith									
9,500.0	65.61	359.50	9,362.8	196.3	116.1	196.7	10.00	10.00	0.00
9,550.0	70.61	359.50	9,381.5	242.7	115.7	243.0	10.00	10.00	0.00
9,600.0	75.61	359.50	9,396.0	290.5	115.2	290.9	10.00	10.00	0.00
9,650.0	80.61	359.50	9,406.3	339.4	114.8	339.8	10.00	10.00	0.00
9,700.0	85.61	359.50	9,412.3	389.1	114.4	389.4	10.00	10.00	0.00
9,743.4	89.95	359.50	9,414.0	432.4	114.0	432.7	10.00	10.00	0.00
EOC - 9785.5 hold at 9743.4 MD									
9,800.0	89.95	359.50	9,414.0	489.0	113.5	489.3	0.00	0.00	0.00
9,900.0	89.95	359.50	9,414.1	589.0	112.6	589.3	0.00	0.00	0.00
10,000.0	89.95	359.50	9,414.2	689.0	111.7	689.3	0.00	0.00	0.00
10,100.0	89.95	359.50	9,414.3	789.0	110.9	789.3	0.00	0.00	0.00
10,200.0	89.95	359.50	9,414.4	889.0	110.0	889.3	0.00	0.00	0.00
10,300.0	89.95	359.50	9,414.5	989.0	109.1	989.3	0.00	0.00	0.00
10,400.0	89.95	359.50	9,414.6	1,089.0	108.2	1,089.3	0.00	0.00	0.00
10,500.0	89.95	359.50	9,414.7	1,189.0	107.4	1,189.3	0.00	0.00	0.00
10,600.0	89.95	359.50	9,414.7	1,289.0	106.5	1,289.3	0.00	0.00	0.00
10,700.0	89.95	359.50	9,414.8	1,389.0	105.6	1,389.3	0.00	0.00	0.00
10,800.0	89.95	359.50	9,414.9	1,489.0	104.8	1,489.3	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 #32H
Wellbore: OWB
Design: Plan #2

Local Co-ordinate Reference: Well Myox 21 State Com #32H
TVD Reference: KB @ 3021.7usft (Precision 106)
MD Reference: KB @ 3021.7usft (Precision 106)
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)
10,900.0	89.95	359.50	9,415.0	1,589.0	103.9	1,589.3	0.00	0.00	0.00
11,000.0	89.95	359.50	9,415.1	1,689.0	103.0	1,689.3	0.00	0.00	0.00
11,100.0	89.95	359.50	9,415.2	1,789.0	102.1	1,789.2	0.00	0.00	0.00
11,200.0	89.95	359.50	9,415.3	1,889.0	101.3	1,889.2	0.00	0.00	0.00
11,300.0	89.95	359.50	9,415.4	1,989.0	100.4	1,989.2	0.00	0.00	0.00
11,400.0	89.95	359.50	9,415.5	2,089.0	99.5	2,089.2	0.00	0.00	0.00
11,500.0	89.95	359.50	9,415.6	2,189.0	98.6	2,189.2	0.00	0.00	0.00
11,600.0	89.95	359.50	9,415.7	2,289.0	97.8	2,289.2	0.00	0.00	0.00
11,700.0	89.95	359.50	9,415.8	2,388.9	96.9	2,389.2	0.00	0.00	0.00
11,800.0	89.95	359.50	9,415.9	2,488.9	96.0	2,489.2	0.00	0.00	0.00
11,900.0	89.95	359.50	9,416.0	2,588.9	95.1	2,589.2	0.00	0.00	0.00
12,000.0	89.95	359.50	9,416.0	2,688.9	94.3	2,689.2	0.00	0.00	0.00
12,100.0	89.95	359.50	9,416.1	2,788.9	93.4	2,789.2	0.00	0.00	0.00
12,200.0	89.95	359.50	9,416.2	2,888.9	92.5	2,889.2	0.00	0.00	0.00
12,300.0	89.95	359.50	9,416.3	2,988.9	91.6	2,989.2	0.00	0.00	0.00
12,400.0	89.95	359.50	9,416.4	3,088.9	90.8	3,089.2	0.00	0.00	0.00
12,500.0	89.95	359.50	9,416.5	3,188.9	89.9	3,189.2	0.00	0.00	0.00
12,600.0	89.95	359.50	9,416.6	3,288.9	89.0	3,289.1	0.00	0.00	0.00
12,700.0	89.95	359.50	9,416.7	3,388.9	88.1	3,389.1	0.00	0.00	0.00
12,800.0	89.95	359.50	9,416.8	3,488.9	87.3	3,489.1	0.00	0.00	0.00
12,900.0	89.95	359.50	9,416.9	3,588.9	86.4	3,589.1	0.00	0.00	0.00
13,000.0	89.95	359.50	9,417.0	3,688.9	85.5	3,689.1	0.00	0.00	0.00
13,100.0	89.95	359.50	9,417.1	3,788.9	84.6	3,789.1	0.00	0.00	0.00
13,200.0	89.95	359.50	9,417.2	3,888.9	83.8	3,889.1	0.00	0.00	0.00
13,300.0	89.95	359.50	9,417.2	3,988.9	82.9	3,989.1	0.00	0.00	0.00
13,400.0	89.95	359.50	9,417.3	4,088.9	82.0	4,089.1	0.00	0.00	0.00
13,500.0	89.95	359.50	9,417.4	4,188.9	81.1	4,189.1	0.00	0.00	0.00
13,600.0	89.95	359.50	9,417.5	4,288.9	80.3	4,289.1	0.00	0.00	0.00
13,700.0	89.95	359.50	9,417.6	4,388.9	79.4	4,389.1	0.00	0.00	0.00
13,800.0	89.95	359.50	9,417.7	4,488.9	78.5	4,489.1	0.00	0.00	0.00
13,900.0	89.95	359.50	9,417.8	4,588.9	77.6	4,589.1	0.00	0.00	0.00
14,000.0	89.95	359.50	9,417.9	4,688.9	76.8	4,689.1	0.00	0.00	0.00
14,100.0	89.95	359.50	9,418.0	4,788.9	75.9	4,789.0	0.00	0.00	0.00
14,200.0	89.95	359.50	9,418.1	4,888.9	75.0	4,889.0	0.00	0.00	0.00
14,300.0	89.95	359.50	9,418.2	4,988.8	74.1	4,989.0	0.00	0.00	0.00
14,400.0	89.95	359.50	9,418.3	5,088.8	73.3	5,089.0	0.00	0.00	0.00
14,500.0	89.95	359.50	9,418.4	5,188.8	72.4	5,189.0	0.00	0.00	0.00
14,600.0	89.95	359.50	9,418.4	5,288.8	71.5	5,289.0	0.00	0.00	0.00
14,700.0	89.95	359.50	9,418.5	5,388.8	70.6	5,389.0	0.00	0.00	0.00
14,800.0	89.95	359.50	9,418.6	5,488.8	69.8	5,489.0	0.00	0.00	0.00
14,900.0	89.95	359.50	9,418.7	5,588.8	68.9	5,589.0	0.00	0.00	0.00
15,000.0	89.95	359.50	9,418.8	5,688.8	68.0	5,689.0	0.00	0.00	0.00
15,100.0	89.95	359.50	9,418.9	5,788.8	67.1	5,789.0	0.00	0.00	0.00
15,200.0	89.95	359.50	9,419.0	5,888.8	66.3	5,889.0	0.00	0.00	0.00
15,300.0	89.95	359.50	9,419.1	5,988.8	65.4	5,989.0	0.00	0.00	0.00
15,400.0	89.95	359.50	9,419.2	6,088.8	64.5	6,089.0	0.00	0.00	0.00
15,500.0	89.95	359.50	9,419.3	6,188.8	63.6	6,189.0	0.00	0.00	0.00
15,600.0	89.95	359.50	9,419.4	6,288.8	62.8	6,288.9	0.00	0.00	0.00
15,700.0	89.95	359.50	9,419.5	6,388.8	61.9	6,388.9	0.00	0.00	0.00
15,800.0	89.95	359.50	9,419.6	6,488.8	61.0	6,488.9	0.00	0.00	0.00
15,900.0	89.95	359.50	9,419.6	6,588.8	60.1	6,588.9	0.00	0.00	0.00
16,000.0	89.95	359.50	9,419.7	6,688.8	59.3	6,688.9	0.00	0.00	0.00
16,100.0	89.95	359.50	9,419.8	6,788.8	58.4	6,788.9	0.00	0.00	0.00
16,200.0	89.95	359.50	9,419.9	6,888.8	57.5	6,888.9	0.00	0.00	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 #32H
Wellbore: OWB
Design: Plan #2

Local Co-ordinate Reference: Well Myox 21 State Com #32H
TVD Reference: KB @ 3021.7usft (Precision 106)
MD Reference: KB @ 3021.7usft (Precision 106)
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)
16,300.0	89.95	359.50	9,420.0	6,988.8	56.6	6,988.9	0.00	0.00	0.00
16,400.0	89.95	359.50	9,420.1	7,088.8	55.8	7,088.9	0.00	0.00	0.00
16,500.0	89.95	359.50	9,420.2	7,188.8	54.9	7,188.9	0.00	0.00	0.00
16,600.0	89.95	359.50	9,420.3	7,288.8	54.0	7,288.9	0.00	0.00	0.00
16,700.0	89.95	359.50	9,420.4	7,388.8	53.1	7,388.9	0.00	0.00	0.00
16,800.0	89.95	359.50	9,420.5	7,488.8	52.3	7,488.9	0.00	0.00	0.00
16,900.0	89.95	359.50	9,420.6	7,588.7	51.4	7,588.9	0.00	0.00	0.00
17,000.0	89.95	359.50	9,420.7	7,688.7	50.5	7,688.9	0.00	0.00	0.00
17,100.0	89.95	359.50	9,420.8	7,788.7	49.6	7,788.8	0.00	0.00	0.00
17,200.0	89.95	359.50	9,420.8	7,888.7	48.8	7,888.8	0.00	0.00	0.00
17,300.0	89.95	359.50	9,420.9	7,988.7	47.9	7,988.8	0.00	0.00	0.00
17,400.0	89.95	359.50	9,421.0	8,088.7	47.0	8,088.8	0.00	0.00	0.00
17,500.0	89.95	359.50	9,421.1	8,188.7	46.1	8,188.8	0.00	0.00	0.00
17,600.0	89.95	359.50	9,421.2	8,288.7	45.3	8,288.8	0.00	0.00	0.00
17,700.0	89.95	359.50	9,421.3	8,388.7	44.4	8,388.8	0.00	0.00	0.00
17,800.0	89.95	359.50	9,421.4	8,488.7	43.5	8,488.8	0.00	0.00	0.00
17,900.0	89.95	359.50	9,421.5	8,588.7	42.6	8,588.8	0.00	0.00	0.00
18,000.0	89.95	359.50	9,421.6	8,688.7	41.8	8,688.8	0.00	0.00	0.00
18,100.0	89.95	359.50	9,421.7	8,788.7	40.9	8,788.8	0.00	0.00	0.00
18,200.0	89.95	359.50	9,421.8	8,888.7	40.0	8,888.8	0.00	0.00	0.00
18,300.0	89.95	359.50	9,421.9	8,988.7	39.1	8,988.8	0.00	0.00	0.00
18,400.0	89.95	359.50	9,422.0	9,088.7	38.3	9,088.8	0.00	0.00	0.00
18,500.0	89.95	359.50	9,422.0	9,188.7	37.4	9,188.8	0.00	0.00	0.00
18,600.0	89.95	359.50	9,422.1	9,288.7	36.5	9,288.7	0.00	0.00	0.00
18,700.0	89.95	359.50	9,422.2	9,388.7	35.6	9,388.7	0.00	0.00	0.00
18,800.0	89.95	359.50	9,422.3	9,488.7	34.8	9,488.7	0.00	0.00	0.00
18,900.0	89.95	359.50	9,422.4	9,588.7	33.9	9,588.7	0.00	0.00	0.00
19,000.0	89.95	359.50	9,422.5	9,688.7	33.0	9,688.7	0.00	0.00	0.00
19,100.0	89.95	359.50	9,422.6	9,788.7	32.2	9,788.7	0.00	0.00	0.00
19,200.0	89.95	359.50	9,422.7	9,888.7	31.3	9,888.7	0.00	0.00	0.00
19,300.0	89.95	359.50	9,422.8	9,988.7	30.4	9,988.7	0.00	0.00	0.00
19,400.0	89.95	359.50	9,422.9	10,088.6	29.5	10,088.7	0.00	0.00	0.00
19,500.0	89.95	359.50	9,423.0	10,188.6	28.7	10,188.7	0.00	0.00	0.00
19,528.9	89.95	359.50	9,423.0	10,217.5	28.4	10,217.5	0.00	0.00	0.00

TD at 19528.9

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 81.8usft at 9453.7usft MD (9342.0 TVD, 155.0 N, 116.4 E) - Point	0.00	0.00	9,414.0	116.1	117.0	403,427.20	573,069.70	32° 6' 32.104 N	104° 5' 50.429 W
LTP (Myox 21 State C - plan misses target center by 0.1usft at 19398.9usft MD (9422.9 TVD, 10087.5 N, 29.5 E) - Point	0.00	0.00	9,423.0	10,087.5	29.5	413,398.60	572,982.20	32° 8' 10.787 N	104° 5' 51.193 W
PBHL (Myox 21 State - plan hits target center - Rectangle (sides W60.0 H10,105.0 D20.0)	0.05	359.50	9,423.0	10,217.5	28.4	413,528.60	572,981.10	32° 8' 12.074 N	104° 5' 51.202 W

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 #32H
Wellbore: OWB
Design: Plan #2

Local Co-ordinate Reference: Well Myox 21 State Com #32H
TVD Reference: KB @ 3021.7usft (Precision 106)
MD Reference: KB @ 3021.7usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
303.9	303.9	Rustler			
668.9	668.9	TOS			
2,228.9	2,228.9	BOS (Fletcher)			
2,430.9	2,430.9	LMAR (Top Delaware)			
2,485.9	2,485.9	BYCN			
3,315.3	3,314.9	CYCN			
4,562.9	4,561.9	BYCN			
6,112.7	6,110.9	Bone Sprg (BSGL)			
6,462.9	6,460.9	U Avalon Sh			
6,666.0	6,663.9	L Avalon Sh			
7,054.2	7,051.9	FBSG_sand			
7,913.6	7,910.9	SBSG_sand			
8,909.0	8,905.9	TBSG_sand			
9,324.1	9,266.9	WFMP			
9,470.4	9,349.9	WFMP Lith			

Plan Annotations

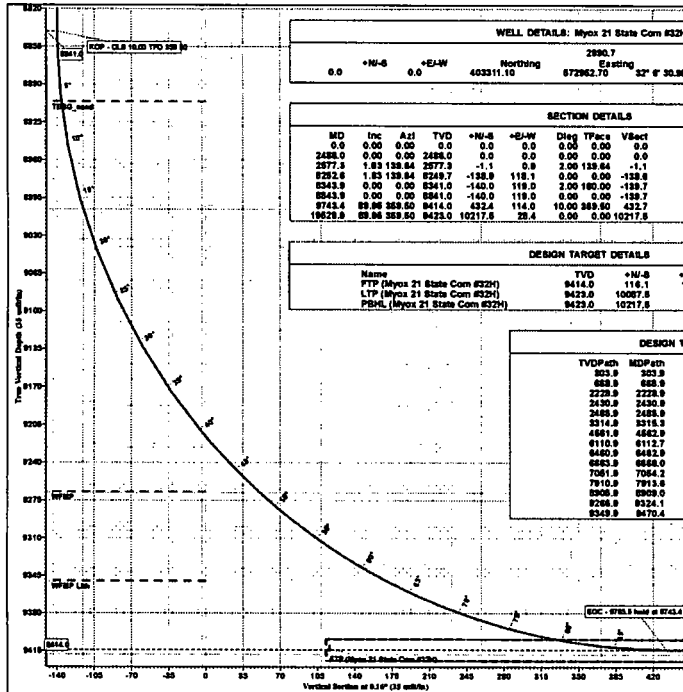
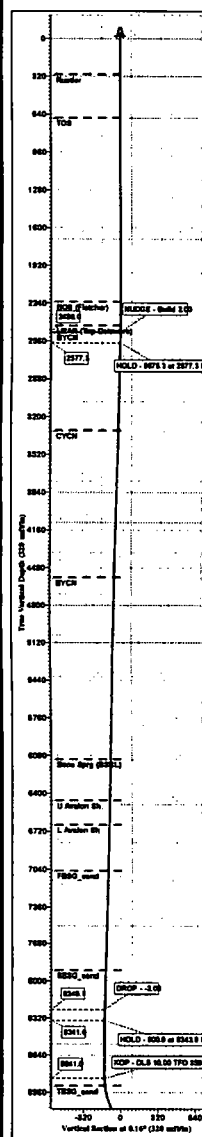
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,486.0	2,486.0	0.0	0.0	NUDGE - Build 2.00
2,577.3	2,577.3	-1.1	0.9	HOLD - 5675.3 at 2577.3 MD
8,252.6	8,249.7	-138.9	118.1	DROP - -2.00
8,343.9	8,341.0	-140.0	119.0	HOLD - 500.0 at 8343.9 MD
8,843.9	8,841.0	-140.0	119.0	KOP - DLS 10.00 TFO 359.50
9,743.4	9,414.0	432.4	114.0	EOC - 9785.5 hold at 9743.4 MD
19,528.9	9,423.0	10,217.5	28.4	TD at 19528.9



Azimuths to Grid North
True North: -0.13°
Magnetic North: 6.69°
Magnetic Field
Strength: 47648.7nT
Dip Angle: 69.65°
Date: 02/05/2019
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.82°

Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
Site: (Myos 21 State Com) Sec-21, T-25-S, R28-E
Well: Myos 21 State Com #324
Wellbore: OWB
Design: Plan #2
Lat: 32° 6' 30.957 N
Long: 104° 5' 51.763 W
Pad GL: 2990.7
KB: KB @ 3021.7ush (Precision 106)



WELL DETAILS: Myos 21 State Com #324					
0.0	+N-6	0.0	+E-W	403311.10	2990.7
				Northings	Eastings
				32° 6' 30.957 N	104° 5' 51.763 W

SECTION DETAILS									
MD	Inc	Alt	TVD	+N-6	+E-W	Dist	Tfacs	Vfct	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2438.0	0.00	0.00	2438.0	0.0	0.0	0.00	0.00	0.0	
2877.3	1.83	138.84	2877.3	-1.1	0.9	2.00	138.84	-1.1	HOLD - 875.3 at 2877.3 MD
8252.6	1.83	138.84	8252.6	-138.9	118.1	0.00	0.00	-138.8	DROP - 2.00
8243.9	0.00	0.00	8243.9	-140.0	118.0	2.00	180.00	-138.7	HOLD - 800.0 at 8243.9 MD
8543.9	0.00	0.00	8543.9	-140.0	118.0	0.00	0.00	-138.7	KOP - DLS 10.00 TPO 358.50
8743.4	89.98	583.50	8743.4	432.4	114.0	10.00	389.50	432.7	SOC - 9785.8 hold at 8743.4 MD
19628.9	89.98	583.50	19628.9	10217.9	28.4	0.00	0.00	10217.9	TD at 19628.9

DESIGN TARGET DETAILS					
Name	TVD	+N-6	+E-W	Northings	Eastings
FTP (Myos 21 State Com #324)	8416.0	116.1	117.2	403427.26	873065.75
LTP (Myos 21 State Com #324)	8423.0	10087.5	29.3	413286.60	872882.20
PBHL (Myos 21 State Com #324)	8423.0	10217.9	28.4	413828.60	872891.10

DESIGN TARGET DETAILS		FORMATION	
TVDPATH	MDPATH		
823.9	303.9	Rustler	
868.9	468.9	IOS	
2228.9	2228.9	BOB (Fletcher)	
2438.0	2438.0	LMAR (Top Detemere)	
2489.9	2489.9	BYCH	
3314.9	3313.9	CYCH	
4861.9	4862.9	BYCH	
8110.9	8113.7	Bone Sprg (BAGL)	
8480.9	8482.9	U Aviston Sh	
8583.9	8584.0	L Aviston Sh	
7081.9	7084.2	FSSO sand	
7910.9	7913.6	SBSSO sand	
8208.9	8209.0	TSBO sand	
8268.9	8324.1	WPMF	
8349.9	8470.4	WPMF Lth	

