

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

WELL API NO. 30-015-46501
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.

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.)		7. Lease Name or Unit Agreement Name Myox 31 State Com
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		8. Well Number 504H ☒
2. Name of Operator COG Operating LLC		9. OGRID Number 229137
3. Address of Operator 600 W. Illinois Ave., Midland, TX 79701		10. Pool name or Wildcat Delaware River; Bone Spring 16800
4. Well Location Unit Letter N : 270 feet from the South line and 1390 feet from the West line Section 31 Township 25S Range 28E NMPM County Eddy		
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3071' GR		

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		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 to change the BHL of this well

✓ FROM: 50' FNL 660' FWL, Sec 30, T25S, R28E, Unit D, Lot 1

✓ TO: 50' FNL 990' FWL, Sec 30, T25S, R28E, Unit D, Lot 1

Attached are the revised C102 and directional plan.

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 [Signature] TITLE Sr Regulatory Analyst DATE 01/07/2020
Type or print name Robyn M. Russell E-mail address: Rrussell@concho.com PHONE: (432) 685-4385

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
Conditions of Approval (if any):

1/28/20 KS

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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811 S. First St., Artesia, NM 88210
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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46501		² Pool Code 16800		³ Pool Name Delaware River; Bone Spring	
⁴ Property Code 308744		⁵ Property Name MYOX 31 STATE COM		⁶ Well Number 504H	
⁷ GRID NO. 229137		⁸ Operator Name COG OPERATING, LLC		⁹ Elevation 3071'	

¹⁰ Surface Location

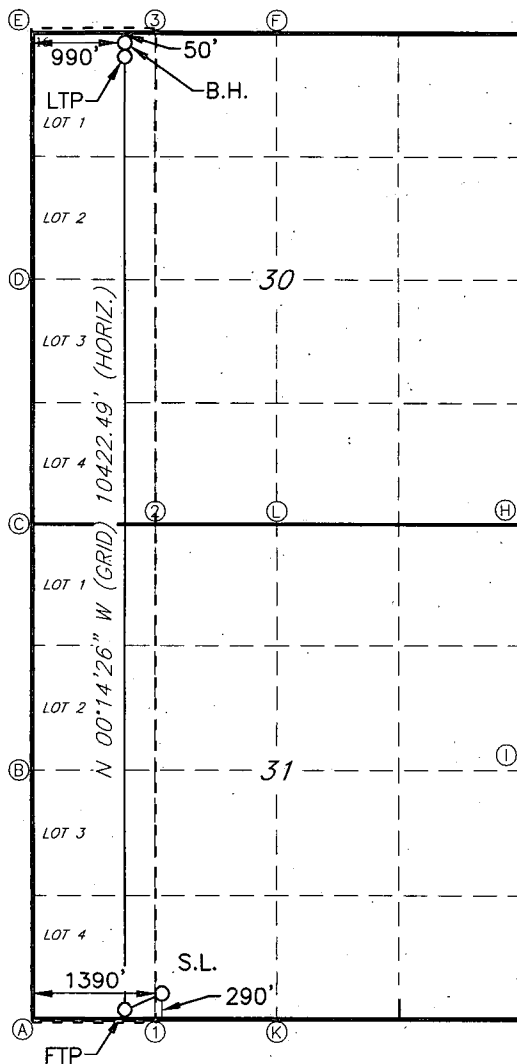
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
N	31	25S	28E		270	SOUTH	1390	WEST	EDDY

¹¹ 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
1	30	25S	28E		50	NORTH	990	WEST	EDDY

¹² Dedicated Acres 322.08	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



GEODETIC DATA
NAD 83 GRID - NM EAST

SURFACE LOCATION (SL)
N: 392781.2 - E: 604079.3
LAT: 32.0796734° N
LONG: 104.1307575° W

FIRST TAKE POINT (FTP)
100' FSL & 990' FWL SEC 31
N: 392609.7 - E: 603679.9
LAT: 32.0792038° N
LONG: 104.1320480° W

LAST TAKE POINT (LTP)
100' FSL & 990' FWL SEC 30
N: 403029.8 - E: 603636.2
LAT: 32.1078483° N
LONG: 104.1321265° W

BOTTOM HOLE (BH)
N: 403079.8 - E: 603635.8
LAT: 32.1079857° N
LONG: 104.1321273° W

CORNER DATA
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1940"
N 392505.8 - E 602690.5

B: FOUND BRASS CAP "1940"
N 395164.6 - E 602682.1

C: FOUND BRASS CAP "1940"
N 397822.7 - E 602672.6

D: FOUND BRASS CAP "1940"
N 400468.2 - E 602664.3

E: CALCULATED CORNER
N 403132.3 - E 602645.7

F: FOUND BRASS CAP "1940"
N 403125.4 - E 605277.9

G: FOUND BRASS CAP "1940"
N 403046.2 - E 608036.0

H: FOUND BRASS CAP "1940"
N 397715.1 - E 608074.9

I: FOUND BRASS CAP "1940"
N 395116.5 - E 608050.9

J: FOUND BRASS CAP "1940"
N 392514.2 - E 608024.8

K: FOUND BRASS CAP "1940"
N 392516.4 - E 605361.5

L: FOUND BRASS CAP "1940"
N 397768.3 - E 605379.3

CALCULATED POINTS

1: N 392511.1 - E 604026.3
2: N 397795.4 - E 604031.2
3: N 403128.9 - E 603968.4

¹⁷ OPERATOR CERTIFICATION
I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *[Signature]* Date: 01/07/2020
Robyn M. Russell

Printed Name
Russell@concho.com
E-mail Address

¹⁸ 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.

11-13-19
Date of Survey

Signature and Seal of Professional Surveyor
19680
Certificate Number

ROBERT M. HOWETT
NEW MEXICO
19680
PROFESSIONAL SURVEYOR

Job No.: LS19111071

NORTHERN DELAWARE BASIN

EDDY COUNTY, NM

MYOX 31 ST COM

MYOX 31 ST COM #504H

OWB

Plan: PWP1

Standard Survey Report

06 January, 2020

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 31 ST COM #504H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=24' @ 3095.0usft (Ensign 155)
Site:	MYOX 31 ST COM	MD Reference:	KB=24' @ 3095.0usft (Ensign 155)
Well:	MYOX 31 ST COM #504H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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:	MYOX 31 ST COM		
Site Position:		Northing:	392,720.68 usft
From:	Map	Easting:	562,896.44 usft
Position Uncertainty:	3.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 4' 46.351 N
		Longitude:	104° 7' 48.946 W
		Grid Convergence:	0.11 °

Well:	MYOX 31 ST COM #504H		
Well Position	+N-S	0.0 usft	Northing: 392,723.80 usft
	+E-W	0.0 usft	Easting: 562,895.10 usft
Position Uncertainty		3.0 usft	Wellhead Elevation: usft
			Latitude: 32° 4' 46.382 N
			Longitude: 104° 7' 48.962 W
			Ground Level: 3,071.0 usft

Wellbore:	OWB		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/2/2019	6.94	59.81	47,543.59466019

Design:	PWP1		
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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	357.53

Survey Tool Program		Date	1/6/2020	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	18,197.9	PWP1 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction

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

Concho Resources LLC

Survey Report

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Site:	MYOX 31 ST COM	MD Reference:	KB=24' @ 3095.0usft (Ensign 155)
Well:	MYOX 31 ST COM #504H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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)
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
Start Build 2.00									
2,600.0	2.00	236.50	2,600.0	-1.0	-1.5	-0.9	2.00	2.00	0.00
2,700.0	4.00	236.50	2,699.8	-3.9	-5.8	-3.6	2.00	2.00	0.00
2,750.0	5.00	236.50	2,749.7	-6.0	-9.1	-5.6	2.00	2.00	0.00
Start 4563.5 hold at 2750.0 MD									
2,800.0	5.00	236.50	2,799.5	-8.4	-12.7	-7.9	0.00	0.00	0.00
2,900.0	5.00	236.50	2,899.1	-13.2	-20.0	-12.4	0.00	0.00	0.00
3,000.0	5.00	236.50	2,998.7	-18.0	-27.3	-16.9	0.00	0.00	0.00
3,100.0	5.00	236.50	3,098.4	-22.9	-34.5	-21.3	0.00	0.00	0.00
3,200.0	5.00	236.50	3,198.0	-27.7	-41.8	-25.8	0.00	0.00	0.00
3,300.0	5.00	236.50	3,297.6	-32.5	-49.1	-30.3	0.00	0.00	0.00
3,400.0	5.00	236.50	3,397.2	-37.3	-56.3	-34.8	0.00	0.00	0.00
3,500.0	5.00	236.50	3,496.8	-42.1	-63.6	-39.3	0.00	0.00	0.00
3,600.0	5.00	236.50	3,596.4	-46.9	-70.9	-43.8	0.00	0.00	0.00
3,700.0	5.00	236.50	3,696.1	-51.7	-78.1	-48.3	0.00	0.00	0.00
3,800.0	5.00	236.50	3,795.7	-56.5	-85.4	-52.8	0.00	0.00	0.00
3,900.0	5.00	236.50	3,895.3	-61.3	-92.7	-57.3	0.00	0.00	0.00
4,000.0	5.00	236.50	3,994.9	-66.1	-99.9	-61.8	0.00	0.00	0.00
4,100.0	5.00	236.50	4,094.5	-71.0	-107.2	-66.3	0.00	0.00	0.00
4,200.0	5.00	236.50	4,194.2	-75.8	-114.5	-70.8	0.00	0.00	0.00
4,300.0	5.00	236.50	4,293.8	-80.6	-121.7	-75.3	0.00	0.00	0.00
4,400.0	5.00	236.50	4,393.4	-85.4	-129.0	-79.8	0.00	0.00	0.00
4,500.0	5.00	236.50	4,493.0	-90.2	-136.3	-84.3	0.00	0.00	0.00
4,600.0	5.00	236.50	4,592.6	-95.0	-143.5	-88.7	0.00	0.00	0.00
4,700.0	5.00	236.50	4,692.3	-99.8	-150.8	-93.2	0.00	0.00	0.00
4,800.0	5.00	236.50	4,791.9	-104.6	-158.1	-97.7	0.00	0.00	0.00
4,900.0	5.00	236.50	4,891.5	-109.4	-165.3	-102.2	0.00	0.00	0.00
5,000.0	5.00	236.50	4,991.1	-114.3	-172.6	-106.7	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well: MYOX 31 ST COM #504H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=24' @ 3095.0usft (Ensign 155)
Site:	MYOX 31 ST COM	MD Reference:	KB=24' @ 3095.0usft (Ensign 155)
Well:	MYOX 31 ST COM #504H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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	5.00	236.50	5,090.7	-119.1	-179.9	-111.2	0.00	0.00	0.00
5,200.0	5.00	236.50	5,190.4	-123.9	-187.2	-115.7	0.00	0.00	0.00
5,300.0	5.00	236.50	5,290.0	-128.7	-194.4	-120.2	0.00	0.00	0.00
5,400.0	5.00	236.50	5,389.6	-133.5	-201.7	-124.7	0.00	0.00	0.00
5,500.0	5.00	236.50	5,489.2	-138.3	-209.0	-129.2	0.00	0.00	0.00
5,600.0	5.00	236.50	5,588.8	-143.1	-216.2	-133.7	0.00	0.00	0.00
5,700.0	5.00	236.50	5,688.5	-147.9	-223.5	-138.2	0.00	0.00	0.00
5,800.0	5.00	236.50	5,788.1	-152.7	-230.8	-142.7	0.00	0.00	0.00
5,900.0	5.00	236.50	5,887.7	-157.5	-238.0	-147.2	0.00	0.00	0.00
6,000.0	5.00	236.50	5,987.3	-162.4	-245.3	-151.7	0.00	0.00	0.00
6,100.0	5.00	236.50	6,086.9	-167.2	-252.6	-156.1	0.00	0.00	0.00
6,200.0	5.00	236.50	6,186.6	-172.0	-259.8	-160.6	0.00	0.00	0.00
6,300.0	5.00	236.50	6,286.2	-176.8	-267.1	-165.1	0.00	0.00	0.00
6,400.0	5.00	236.50	6,385.8	-181.6	-274.4	-169.6	0.00	0.00	0.00
6,500.0	5.00	236.50	6,485.4	-186.4	-281.6	-174.1	0.00	0.00	0.00
6,600.0	5.00	236.50	6,585.0	-191.2	-288.9	-178.6	0.00	0.00	0.00
6,700.0	5.00	236.50	6,684.7	-196.0	-296.2	-183.1	0.00	0.00	0.00
6,800.0	5.00	236.50	6,784.3	-200.8	-303.4	-187.6	0.00	0.00	0.00
6,900.0	5.00	236.50	6,883.9	-205.7	-310.7	-192.1	0.00	0.00	0.00
7,000.0	5.00	236.50	6,983.5	-210.5	-318.0	-196.6	0.00	0.00	0.00
7,100.0	5.00	236.50	7,083.1	-215.3	-325.2	-201.1	0.00	0.00	0.00
7,200.0	5.00	236.50	7,182.7	-220.1	-332.5	-205.6	0.00	0.00	0.00
7,300.0	5.00	236.50	7,282.4	-224.9	-339.8	-210.1	0.00	0.00	0.00
7,313.5	5.00	236.50	7,295.8	-225.5	-340.8	-210.7	0.00	0.00	0.00
Start DLS 10.00 TFO 116.11									
7,400.0	7.85	317.99	7,381.9	-223.2	-347.9	-208.1	10.00	3.29	94.19
7,500.0	17.03	337.85	7,479.5	-204.5	-358.0	-189.0	10.00	9.18	19.86
7,600.0	26.80	343.76	7,572.2	-169.2	-369.8	-153.2	10.00	9.77	5.91
7,700.0	36.68	346.65	7,657.1	-118.4	-383.1	-101.8	10.00	9.89	2.89
7,800.0	46.61	348.44	7,731.7	-53.6	-397.3	-36.4	10.00	9.93	1.79
7,900.0	56.56	349.73	7,793.8	23.3	-412.0	41.0	10.00	9.95	1.28
8,000.0	66.52	350.75	7,841.4	109.8	-426.9	128.1	10.00	9.96	1.02
8,100.0	76.49	351.62	7,873.1	203.4	-441.4	222.2	10.00	9.97	0.87
8,200.0	86.46	352.42	7,887.9	301.2	-455.1	320.5	10.00	9.97	0.80
8,235.5	90.00	352.70	7,889.0	336.4	-459.7	355.9	10.00	9.97	0.78
Start DLS 2.00 TFO 90.00									
8,300.0	90.00	353.99	7,889.0	400.5	-467.2	420.2	2.00	0.00	2.00
8,400.0	90.00	355.99	7,889.0	500.1	-475.9	520.1	2.00	0.00	2.00
8,500.0	90.00	357.99	7,889.0	599.9	-481.1	620.1	2.00	0.00	2.00
8,600.0	90.00	359.99	7,889.0	699.9	-482.9	720.0	2.00	0.00	2.00
8,612.3	90.00	0.24	7,889.0	712.2	-482.9	732.4	2.00	0.00	2.00
Start 9586.4 hold at 8612.3 MD									
8,700.0	90.00	0.24	7,889.0	799.9	-482.5	819.9	0.00	0.00	0.00
8,800.0	90.00	0.24	7,889.0	899.9	-482.1	919.8	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local/Co-ordinate Reference:	Well-MYOX 31 ST COM #504H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=24' @ 3095.0usft (Ensign 155)
Site:	MYOX 31 ST COM	MD Reference:	KB=24' @ 3095.0usft (Ensign 155)
Well:	MYOX 31 ST COM #504H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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)	
8,900.0	90.00	0.24	7,889.0	999.9	-481.7	1,019.7	0.00	0.00	0.00	
9,000.0	90.00	0.24	7,889.0	1,099.9	-481.3	1,119.6	0.00	0.00	0.00	
9,100.0	90.00	0.24	7,889.0	1,199.9	-480.9	1,219.5	0.00	0.00	0.00	
9,200.0	90.00	0.24	7,889.0	1,299.9	-480.5	1,319.4	0.00	0.00	0.00	
9,300.0	90.00	0.24	7,889.0	1,399.9	-480.1	1,419.3	0.00	0.00	0.00	
9,400.0	90.00	0.24	7,889.0	1,499.9	-479.6	1,519.1	0.00	0.00	0.00	
9,500.0	90.00	0.24	7,889.0	1,599.9	-479.2	1,619.0	0.00	0.00	0.00	
9,600.0	90.00	0.24	7,889.0	1,699.9	-478.8	1,718.9	0.00	0.00	0.00	
9,700.0	90.00	0.24	7,889.0	1,799.9	-478.4	1,818.8	0.00	0.00	0.00	
9,800.0	90.00	0.24	7,889.0	1,899.9	-478.0	1,918.7	0.00	0.00	0.00	
9,900.0	90.00	0.24	7,889.0	1,999.9	-477.6	2,018.6	0.00	0.00	0.00	
10,000.0	90.00	0.24	7,889.0	2,099.9	-477.2	2,118.5	0.00	0.00	0.00	
10,100.0	90.00	0.24	7,889.0	2,199.9	-476.8	2,218.4	0.00	0.00	0.00	
10,200.0	90.00	0.24	7,889.0	2,299.9	-476.3	2,318.3	0.00	0.00	0.00	
10,300.0	90.00	0.24	7,889.0	2,399.9	-475.9	2,418.1	0.00	0.00	0.00	
10,400.0	90.00	0.24	7,889.0	2,499.9	-475.5	2,518.0	0.00	0.00	0.00	
10,500.0	90.00	0.24	7,889.0	2,599.9	-475.1	2,617.9	0.00	0.00	0.00	
10,600.0	90.00	0.24	7,889.0	2,699.9	-474.7	2,717.8	0.00	0.00	0.00	
10,700.0	90.00	0.24	7,889.0	2,799.9	-474.3	2,817.7	0.00	0.00	0.00	
10,800.0	90.00	0.24	7,889.0	2,899.9	-473.9	2,917.6	0.00	0.00	0.00	
10,900.0	90.00	0.24	7,889.0	2,999.9	-473.5	3,017.5	0.00	0.00	0.00	
11,000.0	90.00	0.24	7,889.0	3,099.9	-473.1	3,117.4	0.00	0.00	0.00	
11,100.0	90.00	0.24	7,889.0	3,199.9	-472.6	3,217.3	0.00	0.00	0.00	
11,200.0	90.00	0.24	7,889.0	3,299.9	-472.2	3,317.1	0.00	0.00	0.00	
11,300.0	90.00	0.24	7,889.0	3,399.9	-471.8	3,417.0	0.00	0.00	0.00	
11,400.0	90.00	0.24	7,889.0	3,499.9	-471.4	3,516.9	0.00	0.00	0.00	
11,500.0	90.00	0.24	7,889.0	3,599.9	-471.0	3,616.8	0.00	0.00	0.00	
11,600.0	90.00	0.24	7,889.0	3,699.9	-470.6	3,716.7	0.00	0.00	0.00	
11,700.0	90.00	0.24	7,889.0	3,799.9	-470.2	3,816.6	0.00	0.00	0.00	
11,800.0	90.00	0.24	7,889.0	3,899.9	-469.8	3,916.5	0.00	0.00	0.00	
11,900.0	90.00	0.24	7,889.0	3,999.9	-469.3	4,016.4	0.00	0.00	0.00	
12,000.0	90.00	0.24	7,889.0	4,099.9	-468.9	4,116.3	0.00	0.00	0.00	
12,100.0	90.00	0.24	7,889.0	4,199.9	-468.5	4,216.1	0.00	0.00	0.00	
12,200.0	90.00	0.24	7,889.0	4,299.9	-468.1	4,316.0	0.00	0.00	0.00	
12,300.0	90.00	0.24	7,889.0	4,399.9	-467.7	4,415.9	0.00	0.00	0.00	
12,400.0	90.00	0.24	7,889.0	4,499.9	-467.3	4,515.8	0.00	0.00	0.00	
12,500.0	90.00	0.24	7,889.0	4,599.9	-466.9	4,615.7	0.00	0.00	0.00	
12,600.0	90.00	0.24	7,889.0	4,699.9	-466.5	4,715.6	0.00	0.00	0.00	
12,700.0	90.00	0.24	7,889.0	4,799.9	-466.0	4,815.5	0.00	0.00	0.00	
12,800.0	90.00	0.24	7,889.0	4,899.9	-465.6	4,915.4	0.00	0.00	0.00	
12,900.0	90.00	0.24	7,889.0	4,999.9	-465.2	5,015.3	0.00	0.00	0.00	
13,000.0	90.00	0.24	7,889.0	5,099.9	-464.8	5,115.1	0.00	0.00	0.00	
13,100.0	90.00	0.24	7,889.0	5,199.9	-464.4	5,215.0	0.00	0.00	0.00	

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 31 ST COM #504H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=24' @ 3095.0usft (Ensign 155)
Site:	MYOX 31 ST COM	MD Reference:	KB=24' @ 3095.0usft (Ensign 155)
Well:	MYOX 31 ST COM #504H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP.1	Database:	edm

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)
13,200.0	90.00	0.24	7,889.0	5,299.9	-464.0	5,314.9	0.00	0.00	0.00
13,300.0	90.00	0.24	7,889.0	5,399.9	-463.6	5,414.8	0.00	0.00	0.00
13,400.0	90.00	0.24	7,889.0	5,499.9	-463.2	5,514.7	0.00	0.00	0.00
13,500.0	90.00	0.24	7,889.0	5,599.9	-462.8	5,614.6	0.00	0.00	0.00
13,600.0	90.00	0.24	7,889.0	5,699.9	-462.3	5,714.5	0.00	0.00	0.00
13,700.0	90.00	0.24	7,889.0	5,799.9	-461.9	5,814.4	0.00	0.00	0.00
13,800.0	90.00	0.24	7,889.0	5,899.9	-461.5	5,914.3	0.00	0.00	0.00
13,900.0	90.00	0.24	7,889.0	5,999.9	-461.1	6,014.1	0.00	0.00	0.00
14,000.0	90.00	0.24	7,889.0	6,099.9	-460.7	6,114.0	0.00	0.00	0.00
14,100.0	90.00	0.24	7,889.0	6,199.9	-460.3	6,213.9	0.00	0.00	0.00
14,200.0	90.00	0.24	7,889.0	6,299.9	-459.9	6,313.8	0.00	0.00	0.00
14,300.0	90.00	0.24	7,889.0	6,399.9	-459.5	6,413.7	0.00	0.00	0.00
14,400.0	90.00	0.24	7,889.0	6,499.9	-459.0	6,513.6	0.00	0.00	0.00
14,500.0	90.00	0.24	7,889.0	6,599.9	-458.6	6,613.5	0.00	0.00	0.00
14,600.0	90.00	0.24	7,889.0	6,699.9	-458.2	6,713.4	0.00	0.00	0.00
14,700.0	90.00	0.24	7,889.0	6,799.9	-457.8	6,813.3	0.00	0.00	0.00
14,800.0	90.00	0.24	7,889.0	6,899.9	-457.4	6,913.1	0.00	0.00	0.00
14,900.0	90.00	0.24	7,889.0	6,999.9	-457.0	7,013.0	0.00	0.00	0.00
15,000.0	90.00	0.24	7,889.0	7,099.9	-456.6	7,112.9	0.00	0.00	0.00
15,100.0	90.00	0.24	7,889.0	7,199.9	-456.2	7,212.8	0.00	0.00	0.00
15,200.0	90.00	0.24	7,889.0	7,299.9	-455.8	7,312.7	0.00	0.00	0.00
15,300.0	90.00	0.24	7,889.0	7,399.9	-455.3	7,412.6	0.00	0.00	0.00
15,400.0	90.00	0.24	7,889.0	7,499.9	-454.9	7,512.5	0.00	0.00	0.00
15,500.0	90.00	0.24	7,889.0	7,599.9	-454.5	7,612.4	0.00	0.00	0.00
15,600.0	90.00	0.24	7,889.0	7,699.9	-454.1	7,712.3	0.00	0.00	0.00
15,700.0	90.00	0.24	7,889.0	7,799.9	-453.7	7,812.1	0.00	0.00	0.00
15,800.0	90.00	0.24	7,889.0	7,899.9	-453.3	7,912.0	0.00	0.00	0.00
15,900.0	90.00	0.24	7,889.0	7,999.9	-452.9	8,011.9	0.00	0.00	0.00
16,000.0	90.00	0.24	7,889.0	8,099.9	-452.5	8,111.8	0.00	0.00	0.00
16,100.0	90.00	0.24	7,889.0	8,199.8	-452.0	8,211.7	0.00	0.00	0.00
16,200.0	90.00	0.24	7,889.0	8,299.8	-451.6	8,311.6	0.00	0.00	0.00
16,300.0	90.00	0.24	7,889.0	8,399.8	-451.2	8,411.5	0.00	0.00	0.00
16,400.0	90.00	0.24	7,889.0	8,499.8	-450.8	8,511.4	0.00	0.00	0.00
16,500.0	90.00	0.24	7,889.0	8,599.8	-450.4	8,611.3	0.00	0.00	0.00
16,600.0	90.00	0.24	7,889.0	8,699.8	-450.0	8,711.1	0.00	0.00	0.00
16,700.0	90.00	0.24	7,889.0	8,799.8	-449.6	8,811.0	0.00	0.00	0.00
16,800.0	90.00	0.24	7,889.0	8,899.8	-449.2	8,910.9	0.00	0.00	0.00
16,900.0	90.00	0.24	7,889.0	8,999.8	-448.7	9,010.8	0.00	0.00	0.00
17,000.0	90.00	0.24	7,889.0	9,099.8	-448.3	9,110.7	0.00	0.00	0.00
17,100.0	90.00	0.24	7,889.0	9,199.8	-447.9	9,210.6	0.00	0.00	0.00
17,200.0	90.00	0.24	7,889.0	9,299.8	-447.5	9,310.5	0.00	0.00	0.00
17,300.0	90.00	0.24	7,889.0	9,399.8	-447.1	9,410.4	0.00	0.00	0.00
17,400.0	90.00	0.24	7,889.0	9,499.8	-446.7	9,510.3	0.00	0.00	0.00
17,500.0	90.00	0.24	7,889.0	9,599.8	-446.3	9,610.1	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 31 ST COM #504H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=24' @ 3095.0usft (Ensign 155)
Site:	MYOX 31 ST COM	MD Reference:	KB=24' @ 3095.0usft (Ensign 155)
Well:	MYOX 31 ST COM #504H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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)
17,600.0	90.00	0.24	7,889.0	9,699.8	-445.9	9,710.0	0.00	0.00	0.00
17,700.0	90.00	0.24	7,889.0	9,799.8	-445.5	9,809.9	0.00	0.00	0.00
17,800.0	90.00	0.24	7,889.0	9,899.8	-445.0	9,909.8	0.00	0.00	0.00
17,900.0	90.00	0.24	7,889.0	9,999.8	-444.6	10,009.7	0.00	0.00	0.00
18,000.0	90.00	0.24	7,889.0	10,099.8	-444.2	10,109.6	0.00	0.00	0.00
18,100.0	90.00	0.24	7,889.0	10,199.8	-443.8	10,209.5	0.00	0.00	0.00
18,198.8	90.00	0.24	7,889.0	10,298.6	-443.4	10,308.1	0.00	0.00	0.00
TD at 18198.8									

Design Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
FTP (MYOX 31 ST C)	- plan misses target center by 195.8usft at 7807.3usft MD (7736.7 TVD, -48.4 N, -398.3 E)	0.00	0.00	7,889.0	-171.5	-399.3	392,552.30	562,495.80	32° 4' 44.693 N 104° 7' 53.606 W
Circle (radius 50.0)									
PBHL (MYOX 31 ST C)	- plan hits target center	0.00	180.24	7,889.0	10,298.6	-443.4	403,022.40	562,451.70	32° 6' 28.311 N 104° 7' 53.891 W
Rectangle (sides W100.0 H10,563.7 D20.0)									
LTP (MYOX 31 ST CC)	- plan misses target center by 48.8usft at 18100.0usft MD (7889.0 TVD, 10199.8 N, -443.8 E)	0.00	0.00	7,889.0	10,248.6	-443.0	402,972.40	562,452.10	32° 6' 27.816 N 104° 7' 53.888 W
Point									

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
2500	2500	0	0	Start Build 2.00	
2750	2750	-6	-9	Start 4563.5 hold at 2750.0 MD	
7313	7296	-226	-341	Start DLS 10.00 TFO 116.11	
8236	7889	336	-460	Start DLS 2.00 TFO 90.00	
8612	7889	712	-483	Start 9586.4 hold at 8612.3 MD	
18,199	7889	10,299	-443	TD at 18198.8	

Checked By: _____ Approved By: _____ Date: _____



DESIGN TARGET DETAILS				
Notes	TWO	4-5K	Marble	Countdown
FTP (NVOX 31 ST COM 2504H)	78810	-1715	561846	104 7 53.133 W
LTP (NVOX 31 ST COM 5504H)	78810	102446	561845	104 7 53.888 W
PBC (NVOX 31 ST COM 3504H)	78810	102384	562451.70	104 7 53.133 W

